

# TILT & TURN SYSTEMS



**akpen<sup>®</sup>**

**UPVC & ALUMINIUM  
WINDOW & DOOR  
ACCESSORIES**



**“We will always be part of your house”**

#### About Us

Our company started its activities with a small workshop in 1988. Nowadays, our company exports to 40 countries employing 370 people and manufacturing products in 26.000 square meters modern and high technology contained closed area factory located in Istanbul Hadimkoy.

Company Akpen, which has adopted the principle of Sustainable Quality Approach and Maximum Customer Satisfaction, has continued its investments in the field of automation and production technologies since 2010 and has become a brand frequently mentioned in the sector with its environmentally friendly high-tech production techniques and developed products.

With more than 30 years of manufacturing experience and experienced staff, it has achieved its goals. Akpen continues to lead his new targets without slowing down and is moving forward with sure steps towards becoming a worldwide known brand.



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## Product Information

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### 1. Product information and specified application

Side hung and tilt-turn hardware as covered by this definition is one hand-operation side hung and tilt-turn hardware for windows and balcony doors in building construction. By turning one handle it enables window and balcony door sashes to open into side hung position or into a limited ventilation position due to a scissors mechanism (sash-stay).

Side hung and tilt-turn hardware is used on vertically installed windows and balcony doors made of timber, pvc, aluminium or steel and their corresponding material combinations. Conventional side hung and tilt-turn hardware as covered by this definition, locks window and balcony door sashes and enables various ventilating positions. When closing, the gasket counter force must be overcome as a rule. Differing applications do not correspond to its specified application.

Burglar-resistant windows and balcony doors, windows and balcony doors for damp rooms and those for use in environments with aggressive, corrosive air content, require hardware adapted for the respective application and individually agreed upon performance features.

### 2. Misuse

- When obstacles are inserted in the opening vicinity between frame and sash, thus preventing its proper specified use.
- When window and balcony door sashes are pressed adversatively or uncontrolled (for example by the wind) up against the window reveals, so that the hardware, the frame material or other individual window or balcony door sash components are damaged or destroyed and/or if consequential damage can arise.
- When additional loads put on windows or balcony door sashes (for example if children swing on the window or balcony door sash).
- When while closing the window and balcony door sashes, someone reaches into the rebate between the sash and frame (injury hazard).

### 3. Liability

The respective entire hardware set may only consist of hardware components from AKPEN. In the case of inappropriately assembled hardware, and/or in case of non-original accessory components and/or non factory-approved components, no liability is accepted.

### 4. Product Information

The main goal of the products which are produced for all sorts of PVC and timber windows, is to offer the customer the required comfort. Therefore in the product range, there are alternatives suitable to the customer's demands and window types.

The security levels of the products, which are produced on the basis of basic security systems, can be easily changed. In some cases the change of the locking plate is sufficient to alter the security level. In other instances, the level of security is increased by changing the products. For security reasons, it is beneficial that the windows and balcony doors are produced according to specifications.

For preventing the sash from closing because of wind power when in tilt position, a snapper is mounted on the products. The wrong operation safety device or the sash positioner, which prevent the sash from being wrongly operated, can also be mounted to the product. Furthermore the resistance capacity is enhanced and the products have been developed so that the mechanisms work smoothly.

All mechanisms used at windows and balcony doors are produced in silver colour. For finishing, the nature-friendly plating technology is used. By this alkali based finishing technique, the corrosion resistance is increased due to the Cr+3 ions.

### 5. Product Performance

The AKPEN hardware can be used on all sashes up to 100 kg, as a standard. When sash weight exceeds 100 kg it is advised that AKPEN is consulted and additional hardware is supplied.

The presentation of the application diagrams on pages 9, 10 and 11 show the relationship between the permissible sash rebate widths and sash rebate heights, depending on various glass weights and/or thicknesses.

The resulting sash rebate dimensions or sash formats (vertically or horizontally) - as well as the maximum sash weight- must not be exceeded under any circumstances.

### 6. Maintenance

Security relevant hardware components are to be examined at least once a year for stability and wear and tear. Depending on the requirements, the fixing screws are to be tightened and/or parts to be replaced. In addition to this, the following maintenance work is to be carried out annually:

- All movable parts and locking points of the side hung and tilt-turn hardware have to be controlled and greased.
- Only cleaning and maintenance agents, which do not damage the corrosion protection of the hardware components, are to be used.

The hardware adjustments -particularly in the vicinity of the corner pivot rest and the scissors - as well as replacing parts and the unhinging and hinging of the active sash are to be carried out by a specialist company.

## Hardware system

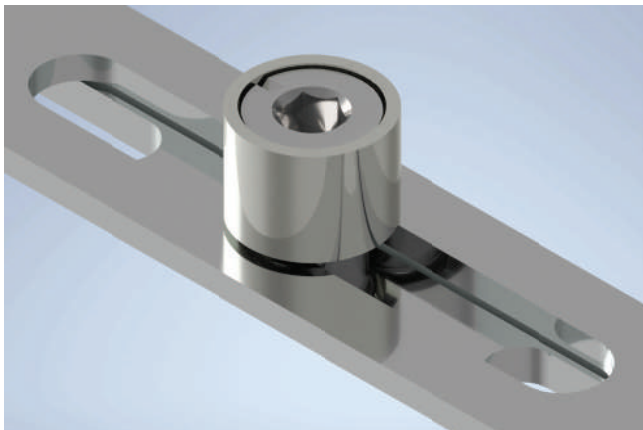
AKPEN Tilt & turn and side hung products are designed and manufactured in order to provide ergonomic opening and closing and high level security for users and easy assembly for the window producers.



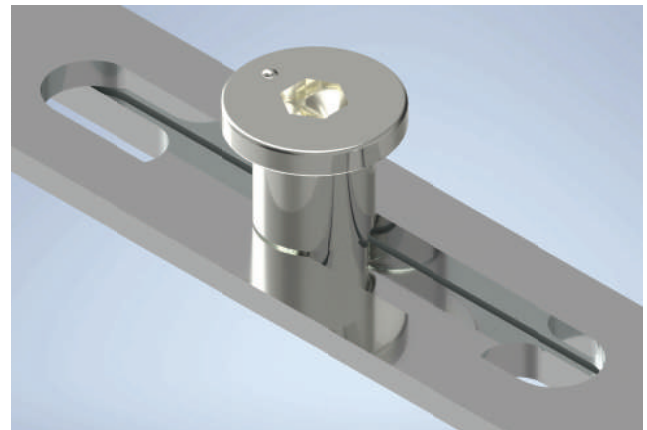
### Locking pins and strikers

AKPEN Hardware system is equipped with standard cylindrical locking pins that have  $\varnothing 11$  mm diameter with roller and  $\pm 0,8$  mm adjustment range.

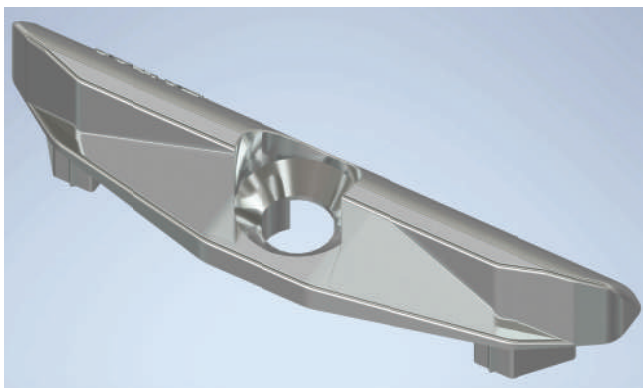
In order to provide high level security, AKPEN has mushroom type locking pins as well.



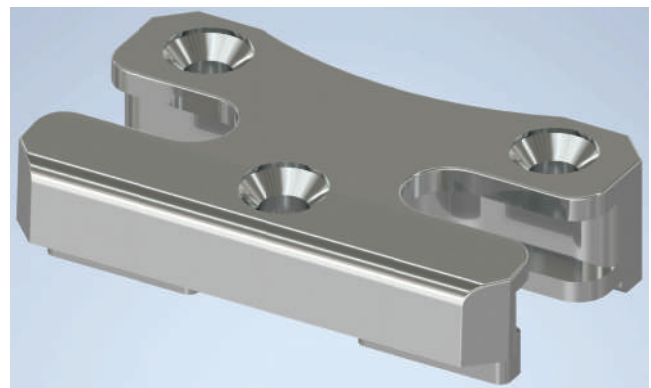
Standard Middle Lock Pin (ML)



Security Middle Lock Pin (SeML)



Standard Striker



Security Striker

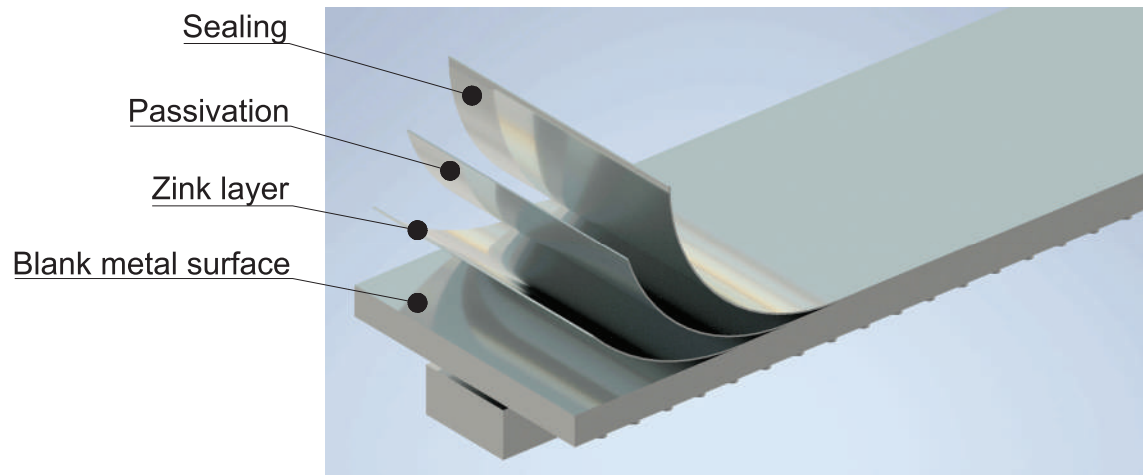
## Quality

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### Surface Protection

All window and door hardware systems of AKPEN has a special surface finish against corrosion. All components are available in silver-look thanks to this technology.

This high level protection is obtained by means of galvanizing, passivation and sealing (varnish-coating).

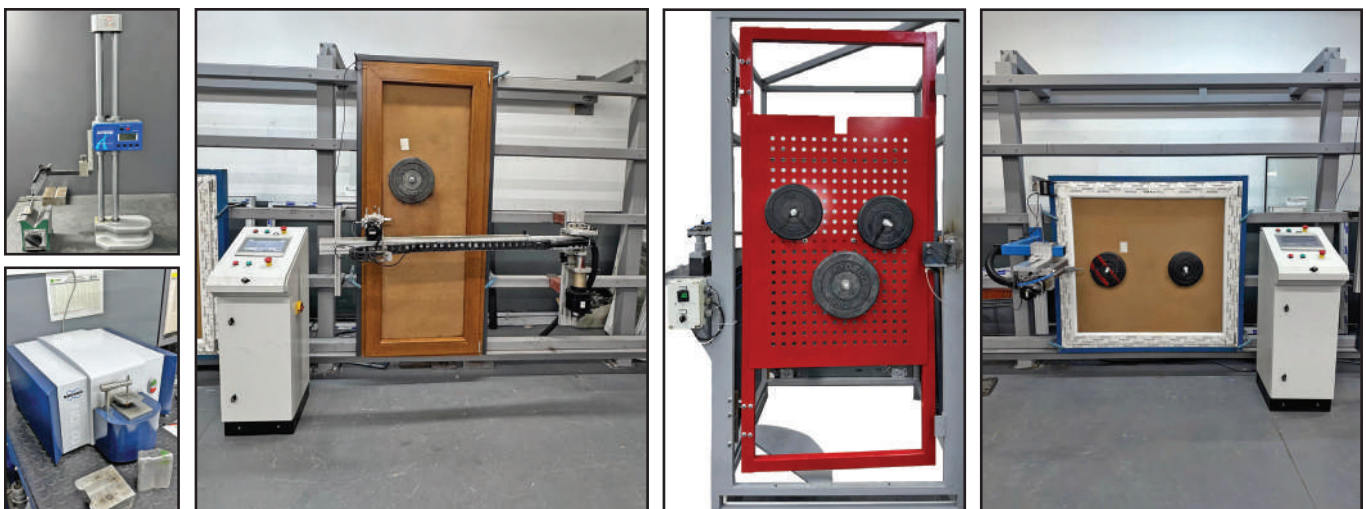


The surface of all AKPEN products is protected by means of 3 layers which provides high resistance for corrosion and thanks to this coating system 5th grade according to EN 1670 is reached (According to AKPEN test results)

### Durability

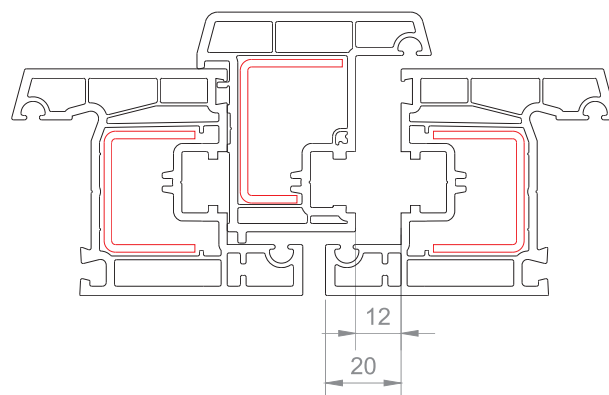
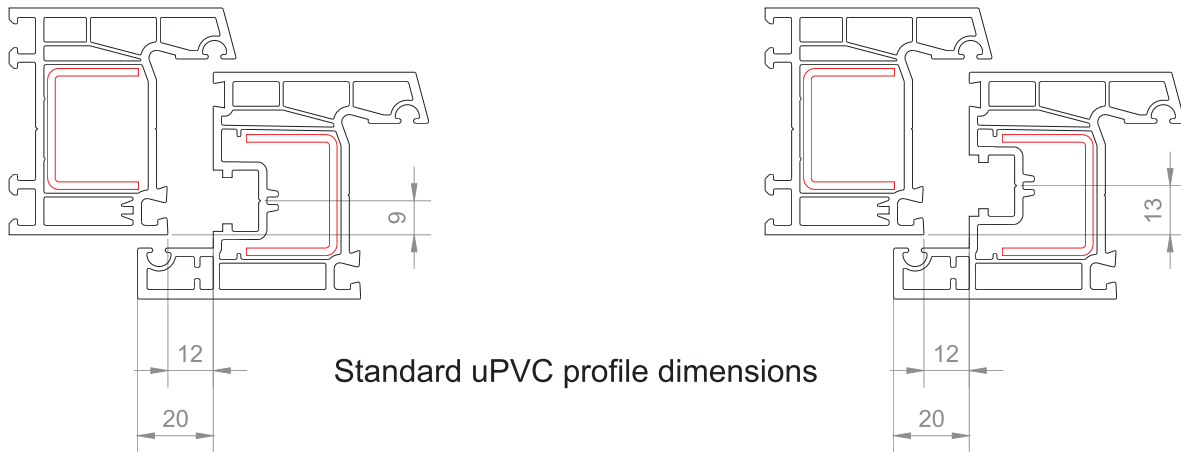
All hardware system are manufactured and tested according to European standards EN 13126-8, GOST 30777 and DSTU Б B.2.6-39. This provides long life durability for users. The capacity of hardware has been ensured by certifications according to the regulation EN 13126/8 tested at an European level.

Every step of design, manufacturing and logistic processes are systematically controlled according to AKPEN high level quality requirements.





## uPVC Profile Design



Standard hardware groove dimensions and tolerances

## Article Number Structure

XX.XXXXXX.XX.XX  
 1 2 3 4 5

### 1- BRAND NUMBER (XX.XXXXXX.XX.XX)

00 : Without brand

01 : "AKPEN"

### 2- PRODUCT GROUP NUMBER (XX.XXXXXX.XX.XX)

|                                 |                                               |                                            |
|---------------------------------|-----------------------------------------------|--------------------------------------------|
| AAA : Aluminum British handles  | INC : Plastic window handle (without spindle) | SOB : Mullion connector steel              |
| AAK : Aluminum bent handle      | IZK : Striker zamak                           | SRM : Sliding sash with sill               |
| ACT : Glass wedge               | IZO : Insulation materials                    | STD : Product show booth                   |
| AKK : Alu door handle           | KIL : Mortise lock                            | SUR : Insulation wedge for sliding system  |
| AKM : Adjustable door hinge     | KKI : Multipoint door lock                    | TAI : Side hung gear                       |
| AKW : Screw                     | KLT : Door lock                               | TCM : Trading products                     |
| ALN : Allen key                 | KRJ : Sash grid elements                      | TED : Ventilation handle                   |
| APK : Alu window handle         | MIN : Mini locks                              | TFL : PTFE material                        |
| ASG : Flyscreen equipments      | MNA : Alu hinge                               | THI : Thiokol                              |
| AVK : Handle for parallel slide | MNC : PVC Cemom hinge                         | TKK : Group products                       |
| BSI : Simple sliding gear       | MNF : Vent                                    | TKM : Group                                |
| CNT : Scissors for gasket       | MNH : Alu speedy hinge                        | TPS : Plastic window handle (with spindle) |
| CTL : Product catalogue         | MNP : Plastic covered steel hinge             | TSA : Alu sliding parts                    |
| CTP : Pliers for glass wedge    | MNS : Steel hinge                             | TSM : Patallel slide manual systems        |
| DBL : Steel anchor              | MSP : Steel easy hinge                        | TSR : Parallel slide systems               |
| EMN : Safety device             | PLS : Plastic hinge                           | TSS : Tilt and slide systems               |
| FTL : Weather strip for sliding | PNL : Sandwich panel                          | TSY : Parallel slide semi-automatic        |
| G57 : H Mullion cover           | PRF : Profile                                 | TTS : Tilt and turn systems                |
| HHD : New door handle           | RTK : Furniture marker                        | VVV : Tilt system                          |
| HHH : Aluminum and zink scraps  | SBL : Jig                                     | ZOB : Mullion connector, zamak             |
| HOK : Mullion profile           | SKO : Sliding sash profile                    |                                            |

### 3- PRODUCT NUMBER (XX.XXXXXX.XX.XX)

#### a) TTS (Tilt and turn systems)

|                                 |                                 |                                 |
|---------------------------------|---------------------------------|---------------------------------|
| * TTS100 - TTS199 : Gear        | * TTS400 - TTS499 : Diverse     | * TTS700 - TTS799 : Shoot bolts |
| * TTS200 - TTS299 : Stay arm    | * TTS500 - TTS599 : Double sash | * TTS800 - TTS899 : Strikers    |
| * TTS300 - TTS399 : Middle lock | * TTS600 - TTS699 : Hinge       |                                 |

#### b) BSI - TAI (Sliding and side hung gears)

|                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| * BSI202 : 15 mm sliding gear, zamak gearbox          | * BSI302 : 15 mm sliding gear, zamak gearbox, zamak pin      |
| * BSI203 : 7,5 mm eko sliding gear, zamak gearbox     | * BSI303 : 7,5 mm sliding gear, eko zamak gearbox, zamak pin |
| * BSI212 : 15 mm lockable sliding gear, zamak gearbox |                                                              |
| * BSI222 : 15 mm sliding gear, steel gearbox          |                                                              |
| * TAI100 - TAI199 : 7,5 mm side hung gear             | * TAI500 - TAI599 : 25 mm side hung gear                     |
| * TAI200 - TAI299 : 15 mm side hung gear              | * TAI600 - TAI699 : 40 mm side hung gear                     |
| * TAI300 - TAI399 : 20 mm side hung gear              | * TAI700 - TAI799 : 30 mm side hung gear                     |
| * TAI400 - TAI499 : 22 mm side hung gear              |                                                              |

### 4- PRODUCT SIZE PROPERTIES (XX.XXXXXX.XX.XX)

#### a) Door handle products

- \* OL : Left
- \* OR : Right
- \* 00 : D 115 mm
- \* 01 : D 130 mm
- \* 02 : D 140 mm
- \* 03 : D 130 mm + 2 parts in different colours
- \* 10 : KV + D 115 mm
- \* 11 : KV + D 130 mm
- \* 12 : KV + 140 mm

V : Screw      KV : Cuttable screw      D : Spindle length

#### b) Window handle types

|                |                |                |                       |                       |
|----------------|----------------|----------------|-----------------------|-----------------------|
| * 00 : D 35 mm | * 01 : D 38 mm | * 02 : D 45 mm | * 11 : D 38 (8 stops) | * 12 : D 45 (8 stops) |
|----------------|----------------|----------------|-----------------------|-----------------------|

## Article Number Structure

### c) 80 kg - 120 kg Adjustable door hinges

\* 00 : Frame part size 14 - 18 mm

KS:Z = Frame Zamak

KS:A = Frame Aluminum

KN:Z = Sash Zamak

KN:A = Sash Aluminum

### d) 160 kg Adjustable door hinges

\* 00 : Frame part size 15 - 19 mm

\* 01 : Frame part size 17 - 21 mm

\* 02 : Frame part size 19 - 23 mm

\* 03 : Frame part size 23 - 27 mm

### e) Hinge group article numbers

\* 01 : Eko Hinge

\* 03 : Heavy Hinge

\* 05 : Egepen Max. Hinge

\* 07 : Hinges with combinations

\* 02 : AK Hinge

\* 04 : Egepen Hinge

\* 06 : Ado Marmara Hinge

### f) Side hung and sliding gear sizes

\* 01 : 300 mm (M-)

\* 06 : 1200 mm (M-)

\* 02 : 400 mm (M-)

\* 07 : 1400 mm (M-)

\* 03 : 600 mm (M-)

\* 08 : 1600 mm (M+)

\* 04 : 800 mm (M-)

\* 09 : 1800 mm (M+)

\* 05 : 1000 mm (M-)

\* 10 : 2000 mm (M+)

(M-) : Without centering pin

(M+) : With centering pin

### g) Lockable gears

\* 00 : With standard locking pin

\* 01 : With security locking pin

### h) Mortise locks

\* 00 : Standard lock

\* 01 : Standard lock + locking plate

\* ZZ : Lock with zamak WC cylinder

### i) Tilt and turn parts

\* 00 : Without locking pin

\* 01 : With standard locking pin

\* 02 : With security locking pin

### j) Profile fitting groove positions

\* 01 : 9 mm

\* 02 : 13 mm

\* 04 : 14 mm

### k) Rebate Hinge groove positions and directions

\* L1 : Left 13 mm

\* L4 : Left 14 mm

\* R1 : Right 13 mm

\* R4 : Right 14 mm

\* L2 : Left 9 mm

\* R2 : Right 9 mm

### l) Shoot bolt striker types

\* 01 : Adjustable shoot bolt striker (rounded)

\* 06 : Zamak shoot bolt striker, 9 mm

\* 02 : Adjustable shoot bolt striker (cornered)

\* 07 : Zamak shoot bolt striker 13 mm

\* 03 : Adjustable shoot bolt striker (rounded) with anchorage

\* 08 : Double sash thin striker

\* 04 : Adjustable shoot bolt striker (cornered) with anchorage

\* 09 : Security striker

\* 05 : Steel shoot bolt striker

\* 10 : Top striker for long shoot bolt with lever

\* 11 : Bottom striker for long shoot bolt with lever

### m) Tilt locking plate types

\* 11 : Tilt locking plate vertical, 9 mm

\* 21 : Tilt locking plate horizontal, 9 mm

\* 12 : Tilt locking plate vertical, 13 mm

\* 22 : Tilt locking plate horizontal, 13 mm

\* 13 : Tilt locking plate vertical, 10 mm

\* 23 : Tilt locking plate horizontal, 10 mm

\* 14 : Tilt locking plate vertical, 14 mm

\* 24 : Tilt locking plate horizontal, 14 mm

## 5 - SURFACE TREATMENT TYPES AND SIZES (XX.XXXXXX.XX.XX)

### a) Surface treatments

\* 00 : Zink plated surface

\* 05 : RAL 8022 Black brown

\* 11 : RAL 1001 Beige

\* 16 : Anodized bronze

\* 01 : RAL 9016 Traffic white

\* 06 : RAL 9005 Jet black

\* 12 : RAL 1011 Brown beige

\* 17 : RAL 1013 Oyster white

\* 02 : RAL 8003 Clay brown

\* 07 : RAL 1015 Light ivory

\* 13 : Anodized gold - 1

\* 18 : Gold 4

\* 03 : RAL 8017 Chocolate brown

\* 08 : RAL 7016 Anthracite grey

\* 14 : Anodized gold - 2

\* 19 : Anodized bronze 4

\* 04 : RAL 8019 Grey brown

\* 15 : Anodized grey

\* 20 : Anodized bronze 5

### b) Tilt and turn gear lengths

\* 00 : 250 mm (450 - 550)

\* 02 : 900 mm (700 - 1200)

\* 04 : 1400 mm (1200 - 1700)

\* 06 : 2100 mm (1900 - 2400)

\* 01 : 400 mm (550-700)

\* 03 : 1100 mm (900 - 1400)

\* 05 : 1900 mm (1700 - 2200)

### c) Stay arm sizes

\* 01 : 450 mm (350 - 600)

\* 02 : 500 mm (400 - 600)

\* 03 : 700 mm (600 - 850)

\* 04 : 950 mm (850 - 1100)

\* 05 : 1200 mm (1100 - 1350)

### d) Middle lock sizes

\* 01 : 170 mm

\* 02 : 500 mm

\* 03 : 700 mm

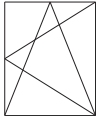
\* 04 : 1000 mm

\* 05 : 1500 mm

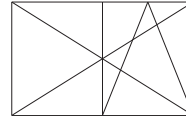
\* 06 : 1700 mm

## Symbols and notations

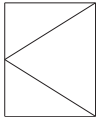
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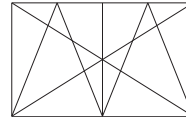
Rectangular tilt and turn system



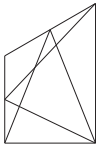
Double sash  
Rectangular tilt and turn system



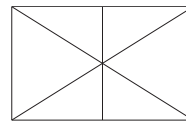
Rectangular side hung system



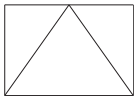
Double sash rectangular  
Double tilt and turn system



Angular tilt and turn system



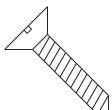
Double sash  
Rectangular side hung system



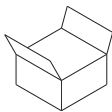
Bottom hung system



Arched tilt and turn system



Number of screw holes



Packaging quantity (pcs)

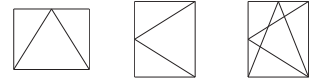
"ML" : Middle lock (Locking point)

"SeML" : Security middle lock (Locking point)

"SRH" : Sash rebate height

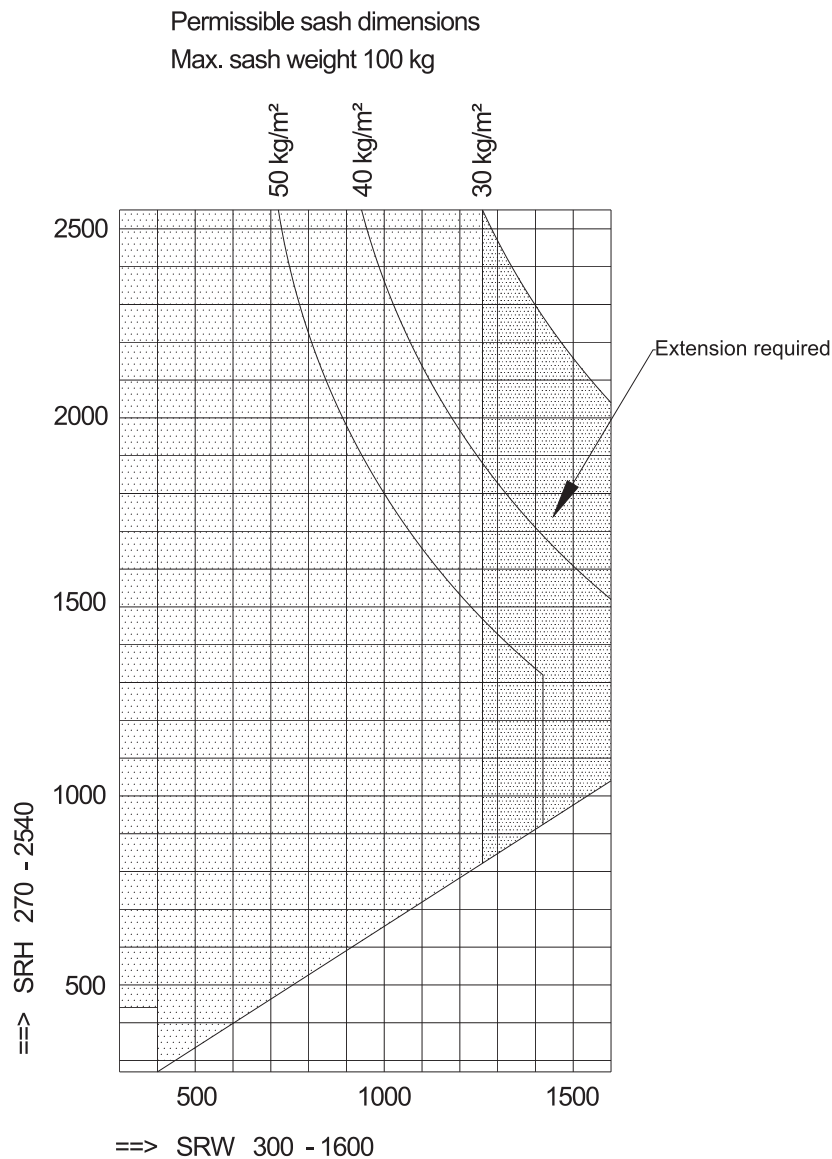
"SRW" : Sash rebate width





## Application Diagram

### Tilt and turn and Side Hung



#### Application Diagram for rectangular sash

Sash rebate width SRW .....300 – 1600 mm

Sash rebate height SRH .....270 – 2540 mm

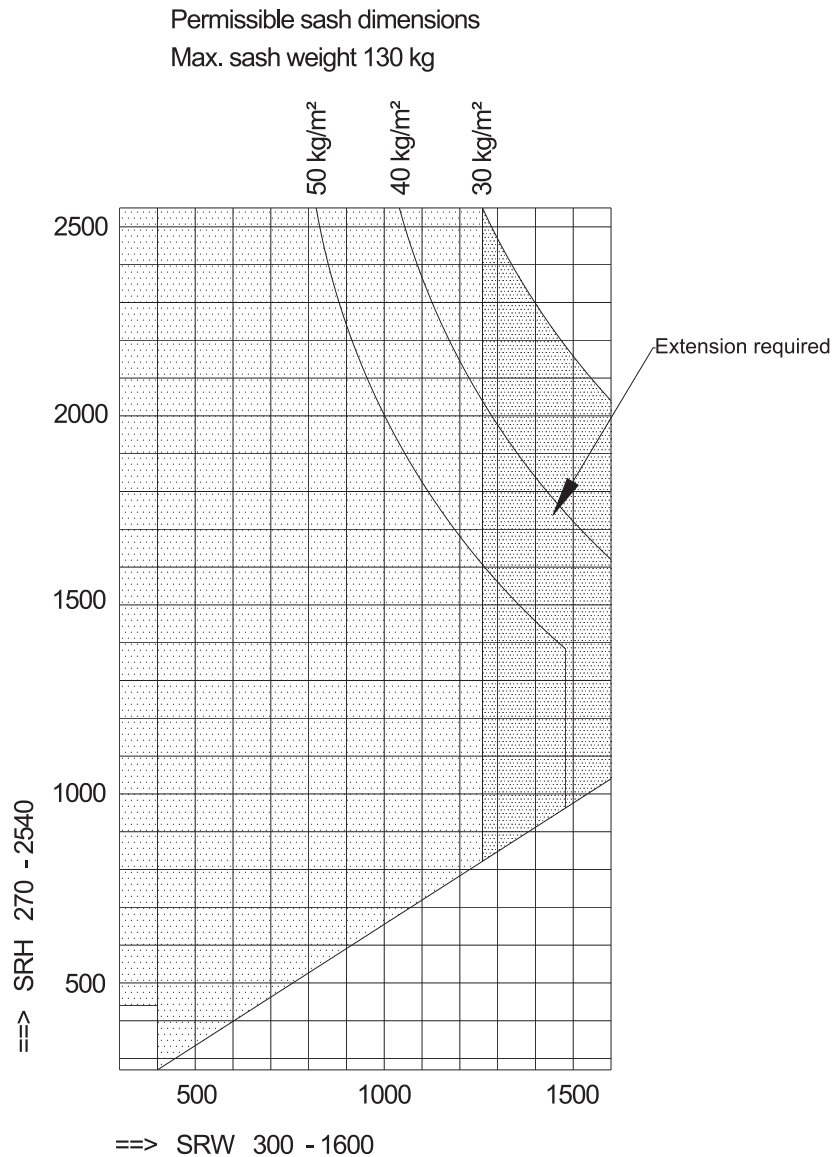
The information in the application diagram refers to the glass weight in kg/m<sup>2</sup>

1 mm / m<sup>2</sup> glass thickness = 2.5 kg



## Application Diagram

Tilt and turn and Side Hung



Application Diagram for rectangular sash

Sash rebate width SRW .....300 – 1600 mm

Sash rebate height SRH .....270 – 2540 mm

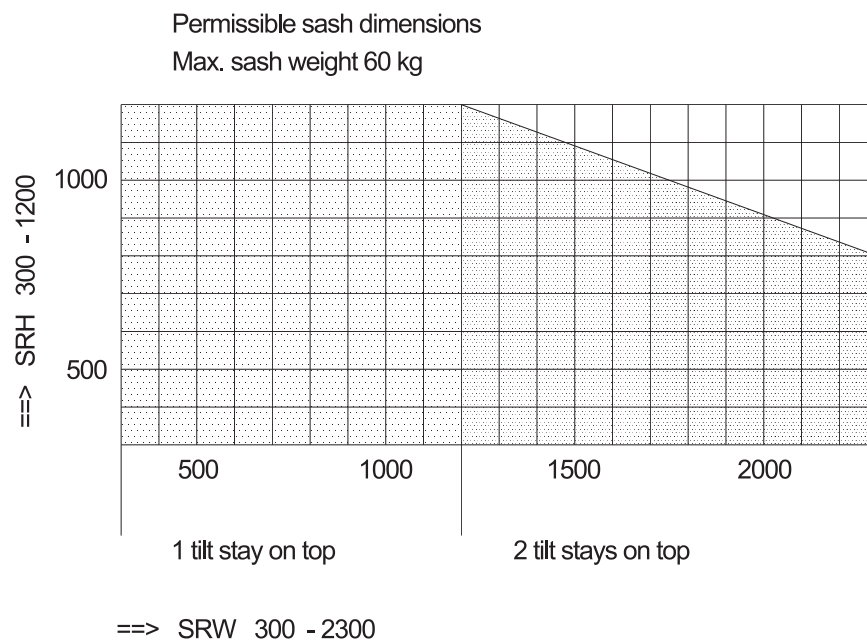
The information in the application diagram refers to the glass weight in kg/m²

1 mm / m² glass thickness = 2.5 kg



## Application Diagram

### Tilt sash



### Application Diagram for rectangular sash

Sash rebate width SRW .....300 – 2300 mm

Sash rebate height SRH .....300 – 1200 mm

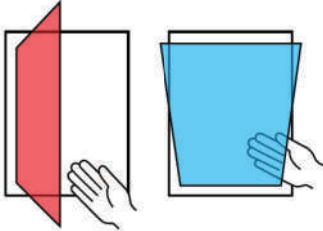
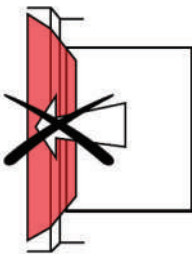
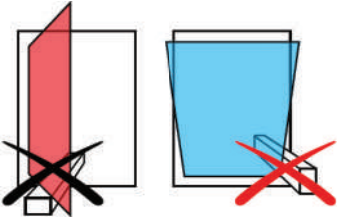
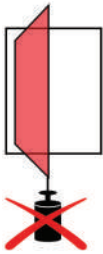
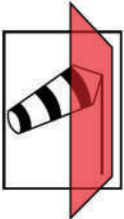
The information in the application diagram refers to the  
glass weight in kg/m<sup>2</sup>

1 mm / m<sup>2</sup> glass thickness = 2.5 kg



## Misuse and safety

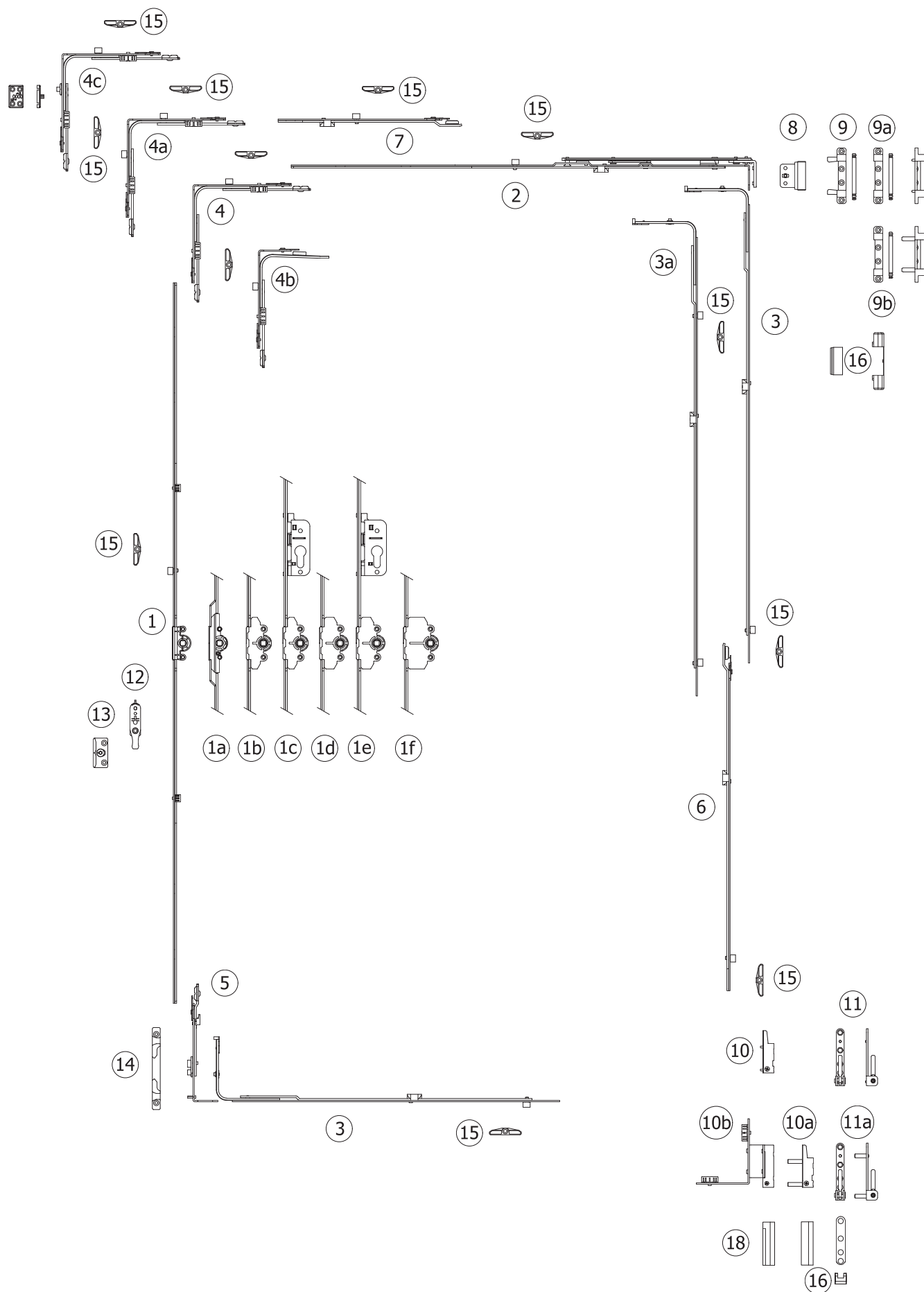
### Safety and conventional symbols

| Conventional symbol                                                                 | Meaning                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Danger of injury through trapping of body parts</b> <ul style="list-style-type: none"> <li>Never reach into the opening between the sash and the outer frame when closing windows/doors.</li> </ul>                                                             |
|   | <b>Risk of injury from falling through open windows</b> <ul style="list-style-type: none"> <li>Always use stable step ladders.</li> <li>Protect yourself against falling out of windows.</li> <li>Do not steady yourself or hold on to the opened sash.</li> </ul> |
|  | <b>Risk of injury or damage from pressing the sash against the reveal</b> <ul style="list-style-type: none"> <li>Do not press the sash against the window reveal.</li> </ul>                                                                                       |
|  | <b>Risk of injury from trapping parts of the body between the sash and the frame</b> <ul style="list-style-type: none"> <li>Do not insert obstructions into the opening between sash and frame.</li> </ul>                                                         |
|  | <b>Risk of injury and material damage from overloading the sash</b> <ul style="list-style-type: none"> <li>Do not overload the sash.</li> </ul>                                                                                                                    |
|  | <b>Risk of injury from the effect of wind</b> <ul style="list-style-type: none"> <li>Prevent wind from acting on the open sash.</li> <li>During wind/drafts, close and lock windows.</li> </ul>                                                                    |



# Hardware Combinations







## Tilt & Turn, Variable Handle Position, Basic Security Level

### 1 - Tilt & Turn Gear Variable (15 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.01.02 |
| 900 - 1400  | 01.TTS100.01.03 |
| 1200 - 1700 | 01.TTS100.01.04 |
| 1700 - 2200 | 01.TTS100.01.05 |
| 1900 - 2400 | 01.TTS100.01.06 |

### 1a - Tilt & Turn Gear Variable (7,5 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 700 - 1200  | 01.TTS102.01.02 |
| 900 - 1400  | 01.TTS102.01.03 |
| 1200 - 1700 | 01.TTS102.01.04 |
| 1700 - 2200 | 01.TTS102.01.05 |
| 1900 - 2400 | 01.TTS102.01.06 |

### 1b & 1c - Tilt & Turn Gear Variable (25 mm backset & lockable)

| SRH         | Article No (1b) | Article No (1c) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS105.00.01 | -               |
| 700 - 1200  | 01.TTS105.01.02 | -               |
| 900 - 1400  | 01.TTS105.01.03 | -               |
| 1200 - 1700 | 01.TTS105.01.04 | 01.TTS106.01.04 |
| 1700 - 2200 | 01.TTS105.01.05 | 01.TTS106.01.05 |
| 1900 - 2400 | 01.TTS105.01.06 | 01.TTS106.01.05 |

### 1d & 1e - Tilt & Turn Gear Variable (30 mm backset & lockable)

| SRH         | Article No (1d) | Article No (1e) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS101.00.01 | -               |
| 700 - 1200  | 01.TTS101.01.02 | -               |
| 900 - 1400  | 01.TTS101.01.03 | -               |
| 1200 - 1700 | 01.TTS101.01.04 | 01.TTS103.01.04 |
| 1700 - 2200 | 01.TTS101.01.05 | 01.TTS103.01.05 |
| 1900 - 2400 | 01.TTS101.01.06 | 01.TTS103.01.05 |

### 1f - Tilt & Turn Gear Variable (40 mm backset & lockable)

| SRH         | Article No (1d) |
|-------------|-----------------|
| 550 - 700   | 01.TTS104.00.01 |
| 700 - 1200  | 01.TTS104.01.02 |
| 900 - 1400  | 01.TTS104.01.03 |
| 1200 - 1700 | 01.TTS104.01.04 |
| 1700 - 2200 | 01.TTS104.01.05 |
| 1900 - 2400 | 01.TTS104.01.06 |

### 2 - Stay arm

| SRW         | Article No      |
|-------------|-----------------|
| 350 - 600   | 01.TTS210.00.01 |
| 400 - 650   | 01.TTS210.00.02 |
| 600 - 850   | 01.TTS210.01.03 |
| 850 - 1100  | 01.TTS210.01.04 |
| 1100 - 1350 | 01.TTS210.01.05 |

### 3 - Middle lock

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.01.01 |
| 700 - 1200 *  | 01.TTS310.01.02 |
| 900 - 1400 *  | 01.TTS310.01.03 |
| 1200 - 1700 * | 01.TTS310.01.04 |
| 1700 - 2200   | 01.TTS310.01.05 |
| 1900 - 2400   | 01.TTS310.01.06 |

### 3a - Middle lock (with additional ML)

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.03.01 |
| 700 - 1200 *  | 01.TTS310.03.02 |
| 900 - 1400 *  | 01.TTS310.03.03 |
| 1200 - 1700 * | 01.TTS310.03.04 |
| 1700 - 2200   | 01.TTS310.03.05 |
| 1900 - 2400   | 01.TTS310.03.06 |

### 4 - Corner transmission 1 ML

01.TTS401.00.01

### 4a - Corner transmission 2 ML

01.TTS401.00.11

### 4b - Short corner transmission

01.TTS401.01.01

### 4c - Corner transmission with adjustable integrated slit

01.TTS401.00.13

### 5 - Bottom extension

01.TTS402.00.00

### 6 - Middle lock extension 500

01.TTS410.03.00 \*\*

### 7 - Extension lock L=250

01.TTS410.01.00

### Extension lock L=500

01.TTS410.02.00

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

### 9 - Stay arm bearing 100 kg \*\*\*

01.TTS405.00.00

### 9a - Stay arm bearing 100 kg

01.TTS405.01.00

### 9b - Stay arm bearing 130 kg

01.TTS405.02.00

### 10 - Drill-in corner hinge 100 kg

01.TTS404.00.00

### 10a - Drill-in corner hinge 130 kg

01.TTS404.01.00

### 10b - Rebate corner hinge 13 mm, left

01.TTS600.L1.00

### Rebate corner hinge 9 mm, left

01.TTS600.L2.00

### Rebate corner hinge 13mm, right

01.TTS600.R1.00

### Rebate corner hinge 9 mm, right

01.TTS600.R2.00

### 11 - Corner bearing 100 kg

01.TTS406.00.00

### 11a - Corner bearing 130 kg

01.TTS406.01.00

### 12 - Wrong op. safety device with sash lifter

01.TTS409.00.00

### 13 - Lifting plate

see page 91

### 14 - Tilt locking plate

see page 91

### 15 - Standard locking plate

see page 91

### 16 - Hinge cover set

01.TTS408.00.\*\*\*\*

### 18 - Rebate hinge cover

01.TTS408.L1.\*\*\*\*

01.TTS408.R1.\*\*\*\*

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

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## Tilt & Turn, Variable Handle Position, Medium Security Level

### 1 - Tilt & Turn Gear Variable (15 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.01.02 |
| 900 - 1400  | 01.TTS100.01.03 |
| 1200 - 1700 | 01.TTS100.01.04 |
| 1700 - 2200 | 01.TTS100.01.05 |
| 1900 - 2400 | 01.TTS100.01.06 |

### 1a - Tilt & Turn Gear Variable (7,5 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 700 - 1200  | 01.TTS102.01.02 |
| 900 - 1400  | 01.TTS102.01.03 |
| 1200 - 1700 | 01.TTS102.01.04 |
| 1700 - 2200 | 01.TTS102.01.05 |
| 1900 - 2400 | 01.TTS102.01.06 |

### 1b & 1c - Tilt & Turn Gear Variable (25 mm backset & lockable)

| SRH         | Article No (1b) | Article No (1c) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS105.00.01 | -               |
| 700 - 1200  | 01.TTS105.01.02 | -               |
| 900 - 1400  | 01.TTS105.01.03 | -               |
| 1200 - 1700 | 01.TTS105.01.04 | 01.TTS106.01.04 |
| 1700 - 2200 | 01.TTS105.01.05 | 01.TTS106.01.05 |
| 1900 - 2400 | 01.TTS105.01.06 | 01.TTS106.01.05 |

### 1d & 1e - Tilt & Turn Gear Variable (30 mm backset & lockable)

| SRH         | Article No (1d) | Article No (1e) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS101.00.01 | -               |
| 700 - 1200  | 01.TTS101.01.02 | -               |
| 900 - 1400  | 01.TTS101.01.03 | -               |
| 1200 - 1700 | 01.TTS101.01.04 | 01.TTS103.01.04 |
| 1700 - 2200 | 01.TTS101.01.05 | 01.TTS103.01.05 |
| 1900 - 2400 | 01.TTS101.01.06 | 01.TTS103.01.05 |

### 1f - Tilt & Turn Gear Variable (40 mm backset & lockable)

| SRH         | Article No (1d) |
|-------------|-----------------|
| 550 - 700   | 01.TTS104.00.01 |
| 700 - 1200  | 01.TTS104.01.02 |
| 900 - 1400  | 01.TTS104.01.03 |
| 1200 - 1700 | 01.TTS104.01.04 |
| 1700 - 2200 | 01.TTS104.01.05 |
| 1900 - 2400 | 01.TTS104.01.06 |

### 2 - Stay arm

| SRW         | Article No      |
|-------------|-----------------|
| 350 - 600   | 01.TTS210.00.01 |
| 400 - 650   | 01.TTS210.00.02 |
| 600 - 850   | 01.TTS210.01.03 |
| 850 - 1100  | 01.TTS210.01.04 |
| 1100 - 1350 | 01.TTS210.01.05 |

### 3 - Middle lock

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.01.01 |
| 700 - 1200 *  | 01.TTS310.01.02 |
| 900 - 1400 *  | 01.TTS310.01.03 |
| 1200 - 1700 * | 01.TTS310.01.04 |
| 1700 - 2200   | 01.TTS310.01.05 |
| 1900 - 2400   | 01.TTS310.01.06 |

### 3a - Middle lock (with additional ML)

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.03.01 |
| 700 - 1200 *  | 01.TTS310.03.02 |
| 900 - 1400 *  | 01.TTS310.03.03 |
| 1200 - 1700 * | 01.TTS310.03.04 |
| 1700 - 2200   | 01.TTS310.03.05 |
| 1900 - 2400   | 01.TTS310.03.06 |

### 4 - Corner transmission 1 SeML

01.TTS401.00.02

### 4a - Corner transmission 1 ML 1 SeML

01.TTS401.00.12

### 4b - Short corner transmission Se

01.TTS401.01.02

### 4c - Corner transmission with adjustable integrated slit Se

01.TTS401.00.23

### 6 - Middle lock extension 500

01.TTS410.03.00 \*\*

### 7 - Extension lock L=250

01.TTS410.01.00

### Extension lock L=500

01.TTS410.02.00

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

### 9 - Stay arm bearing 100 kg \*\*\*

01.TTS405.00.00

### 9a - Stay arm bearing 100 kg

01.TTS405.01.00

### 9b - Stay arm bearing 130 kg

01.TTS405.02.00

### 10 - Drill-in corner hinge 100 kg

01.TTS404.00.00

### 10a - Drill-in corner hinge 130 kg

01.TTS404.01.00

### 10b - Rebate corner hinge 13 mm, left

01.TTS600.L1.00

### Rebate corner hinge 9 mm, left

01.TTS600.L2.00

### Rebate corner hinge 13mm, right

01.TTS600.R1.00

### Rebate corner hinge 9 mm, right

01.TTS600.R2.00

### 11 - Corner bearing 100 kg

01.TTS406.00.00

### 11a - Corner bearing 130 kg

01.TTS406.01.00

### 12 - Wrong op. safety device with sash lifter

01.TTS409.00.00

### 13 - Lifting plate

see page 91

### 15 - Standard locking plate

see page 91

### 16 - Hinge cover set

01.TTS408.00.\*\*\*\*

### 18 - Rebate hinge cover

01.TTS408.L1.\*\*\*\*

### 01.TTS408.R1.\*\*\*\*

### 19 - Locking plate Se

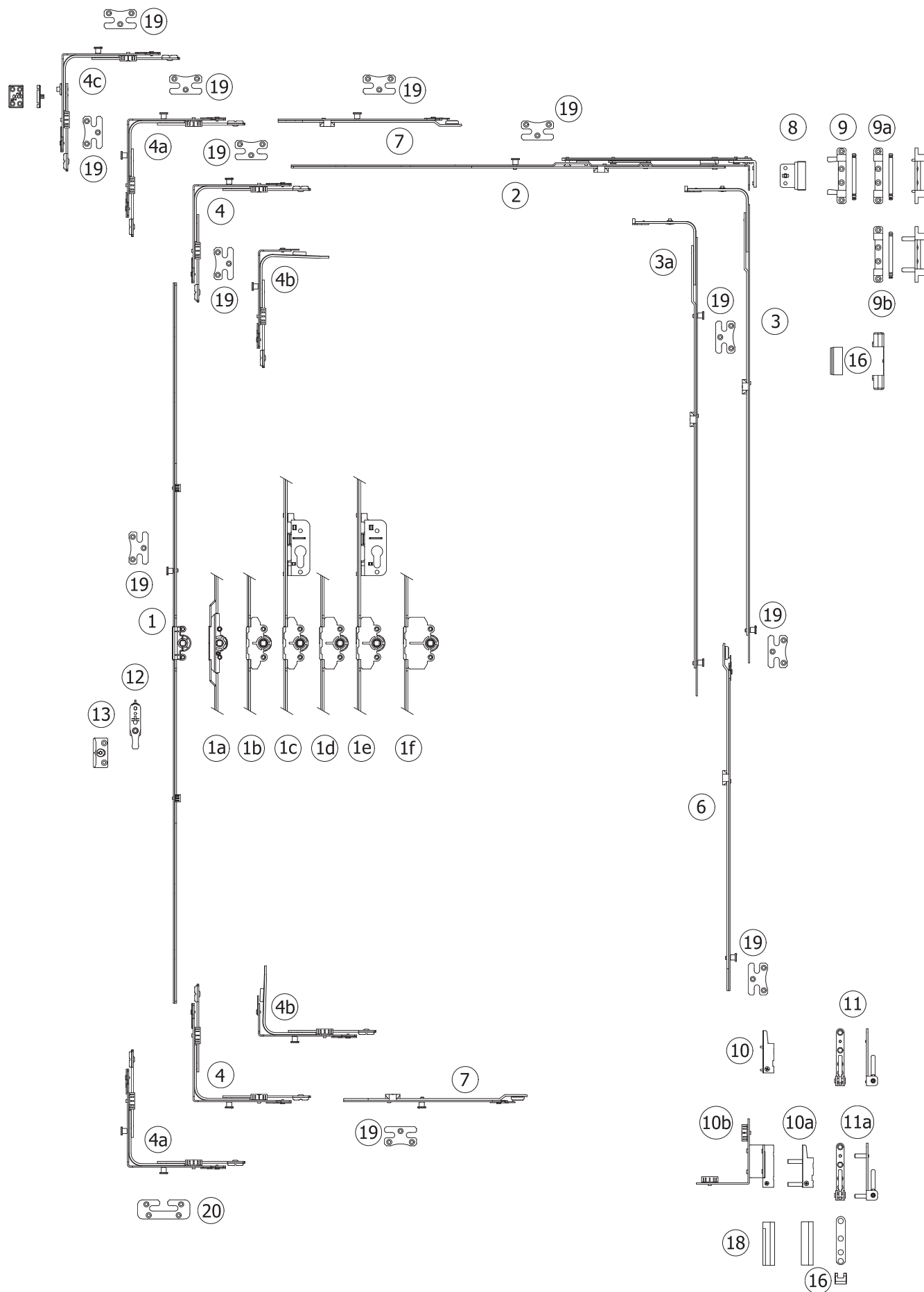
see page 91

### 20 - Tilt locking plate Se

see page 91

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

# Tilt & Turn, Variable Handle Position, High Security Level





## Tilt & Turn, Variable Handle Position, High Security Level

| 1 - Tilt & Turn Gear Variable Se (15 mm backset) |                 |
|--------------------------------------------------|-----------------|
| SRH                                              | Article No      |
| 450 - 550                                        | 01.TTS100.00.00 |
| 550 - 700                                        | 01.TTS100.00.01 |
| 700 - 1200                                       | 01.TTS100.02.02 |
| 900 - 1400                                       | 01.TTS100.02.03 |
| 1200 - 1700                                      | 01.TTS100.02.04 |
| 1700 - 2200                                      | 01.TTS100.02.05 |
| 1900 - 2400                                      | 01.TTS100.02.06 |

| 1a - Tilt & Turn Gear Variable Se (7,5 mm backset) |                 |
|----------------------------------------------------|-----------------|
| SRH                                                | Article No      |
| 700 - 1200                                         | 01.TTS102.02.02 |
| 900 - 1400                                         | 01.TTS102.02.03 |
| 1200 - 1700                                        | 01.TTS102.02.04 |
| 1700 - 2200                                        | 01.TTS102.02.05 |
| 1900 - 2400                                        | 01.TTS102.02.06 |

| 1b & 1c - Tilt & Turn Gear Variable Se (25 mm backset & lockable) |                        |                        |
|-------------------------------------------------------------------|------------------------|------------------------|
| <u>SRH</u>                                                        | <u>Article No (1b)</u> | <u>Article No (1c)</u> |
| 550 - 700                                                         | 01.TTS105.00.01        | -                      |
| 700 - 1200                                                        | 01.TTS105.02.02        | -                      |
| 900 - 1400                                                        | 01.TTS105.02.03        | -                      |
| 1200 - 1700                                                       | 01.TTS105.02.04        | 01.TTS106.02.04        |
| 1700 - 2200                                                       | 01.TTS105.02.05        | 01.TTS106.02.05        |
| 1900 - 2400                                                       | 01.TTS105.02.06        | 01.TTS106.02.05        |

| 1d & 1e - Tilt & Turn Gear Variable Se (30 mm backset & lockable) |                 |                 |
|-------------------------------------------------------------------|-----------------|-----------------|
| SRH                                                               | Article No (1d) | Article No (1e) |
| 550 - 700                                                         | 01.TTS101.00.01 | -               |
| 700 - 1200                                                        | 01.TTS101.02.02 | -               |
| 900 - 1400                                                        | 01.TTS101.02.03 | -               |
| 1200 - 1700                                                       | 01.TTS101.02.04 | 01.TTS103.02.04 |
| 1700 - 2200                                                       | 01.TTS101.02.05 | 01.TTS103.02.05 |
| 1900 - 2400                                                       | 01.TTS101.02.06 | 01.TTS103.02.05 |

| 1f - Tilt & Turn Gear Variable Se (40 mm backset & lockable) |                 |
|--------------------------------------------------------------|-----------------|
| SRH                                                          | Article No (1d) |
| 550 - 700                                                    | 01.TTS104.00.01 |
| 700 - 1200                                                   | 01.TTS104.02.02 |
| 900 - 1400                                                   | 01.TTS104.02.03 |
| 1200 - 1700                                                  | 01.TTS104.02.04 |
| 1700 - 2200                                                  | 01.TTS104.02.05 |
| 1900 - 2400                                                  | 01.TTS104.02.06 |

| 2 - Stay arm Se |                 |
|-----------------|-----------------|
| SRW             | Article No      |
| 350 - 600       | 01.TTS210.00.01 |
| 400 - 650       | 01.TTS210.00.02 |
| 600 - 850       | 01.TTS210.02.03 |
| 850 - 1100      | 01.TTS210.02.04 |
| 1100 - 1350     | 01.TTS210.02.05 |

| 3 - Middle lock Se |                 |
|--------------------|-----------------|
| SRH (SRW *)        | Article No      |
| 450 - 700 *        | 01.TTS310.02.01 |
| 700 - 1200 *       | 01.TTS310.02.02 |
| 900 - 1400 *       | 01.TTS310.02.03 |
| 1200 - 1700 *      | 01.TTS310.02.04 |
| 1700 - 2200        | 01.TTS310.02.05 |
| 1900 - 2400        | 01.TTS310.02.06 |

| 3a - Middle lock Se (with additional ML) |                 |
|------------------------------------------|-----------------|
| SRH (SRW *)                              | Article No      |
| 450 - 700 *                              | 01.TTS310.04.01 |
| 700 - 1200 *                             | 01.TTS310.04.02 |
| 900 - 1400 *                             | 01.TTS310.04.03 |
| 1200 - 1700 *                            | 01.TTS310.04.04 |
| 1700 - 2200                              | 01.TTS310.04.05 |
| 1900 - 2400                              | 01.TTS310.04.06 |

|                                                             |                 |
|-------------------------------------------------------------|-----------------|
| 4 - Corner transmission 1 SeML                              | 01.TTS401.00.02 |
| 4a - Corner transmission 2 SeML                             | 01.TTS401.00.22 |
| 4b - Short corner transmission Se                           | 01.TTS401.01.02 |
| 4c - Corner transmission with adjustable integrated slit Se | 01.TTS401.00.23 |

|                                  |                    |
|----------------------------------|--------------------|
| 6 - Middle lock extension Se 500 | 01.TTS410.23.00 ** |
|----------------------------------|--------------------|

|                             |                 |
|-----------------------------|-----------------|
| 7 - Extension lock Se L=250 | 01.TTS410.21.00 |
| Extension lock Se L=500     | 01.TTS410.22.00 |

| 8 - Top sash hinge |                 |
|--------------------|-----------------|
| Fitting Axis       | Article No      |
| 9 / 20             | 01.TTS403.01.00 |
| 13 / 20            | 01.TTS403.02.00 |
| 14 / 20            | 01.TTS403.04.00 |

|                                 |                 |
|---------------------------------|-----------------|
| 9 - Stay arm bearing 100 kg *** | 01.TTS405.00.00 |
| 9a - Stay arm bearing 100 kg    | 01.TTS405.01.00 |
| 9b - Stay arm bearing 130 kg    | 01.TTS405.02.00 |

|                                       |                 |
|---------------------------------------|-----------------|
| 10 - Drill-in corner hinge 100 kg     | 01.TTS404.00.00 |
| 10a - Drill-in corner hinge 130 kg    | 01.TTS404.01.00 |
| 10b - Rebate corner hinge 13 mm, left | 01.TTS600.L1.00 |
| Rebate corner hinge 9 mm, left        | 01.TTS600.L2.00 |
| Rebate corner hinge 13mm, right       | 01.TTS600.R1.00 |
| Rebate corner hinge 9 mm, right       | 01.TTS600.R2.00 |

|                             |                 |
|-----------------------------|-----------------|
| 11 - Corner bearing 100 kg  | 01.TTS406.00.00 |
| 11a - Corner bearing 130 kg | 01.TTS406.01.00 |

|                                               |                 |
|-----------------------------------------------|-----------------|
| 12 - Wrong op. safety device with sash lifter | 01.TTS409.00.00 |
|-----------------------------------------------|-----------------|

|                    |             |
|--------------------|-------------|
| 13 - Lifting plate | see page 91 |
|--------------------|-------------|

|                      |                   |
|----------------------|-------------------|
| 16 - Hinge cover set | 01.TTS408.00.**** |
|----------------------|-------------------|

|                         |                   |
|-------------------------|-------------------|
| 18 - Rebate hinge cover | 01.TTS408.L1.**** |
|                         | 01.TTS408.R1.**** |

|                       |             |
|-----------------------|-------------|
| 19 - Locking plate Se | see page 91 |
|-----------------------|-------------|

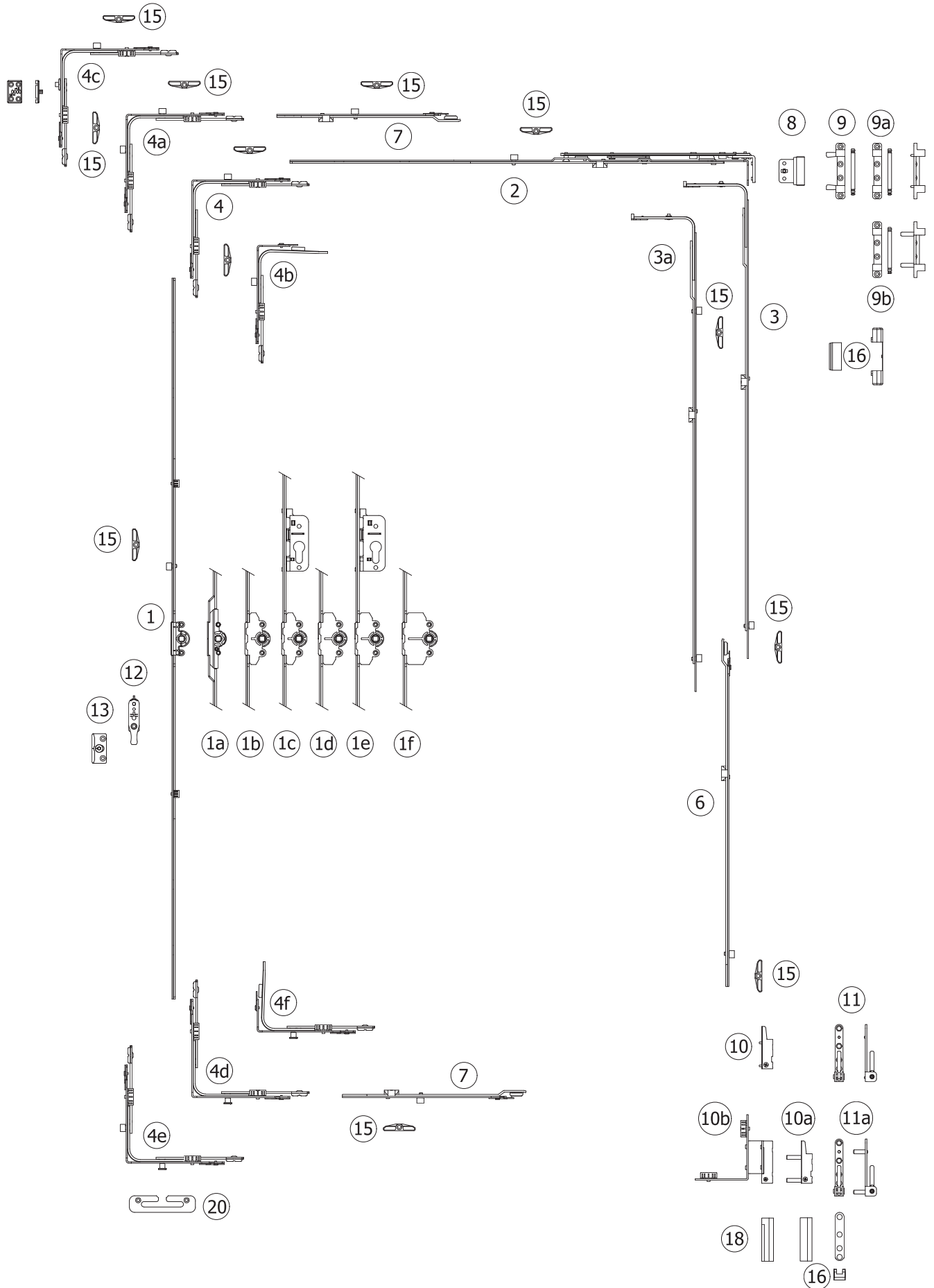
|                            |             |
|----------------------------|-------------|
| 20 - Tilt locking plate Se | see page 91 |
|----------------------------|-------------|

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7





## Tilt First, Variable Handle Position, Basic Security Level





## Tilt first, Variable Handle Position, Basic Security Level

### 1 - Tilt & Turn Gear Variable (15 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.01.02 |
| 900 - 1400  | 01.TTS100.01.03 |
| 1200 - 1700 | 01.TTS100.01.04 |
| 1700 - 2200 | 01.TTS100.01.05 |
| 1900 - 2400 | 01.TTS100.01.06 |

### 1a - Tilt & Turn Gear Variable (7,5 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 700 - 1200  | 01.TTS102.01.02 |
| 900 - 1400  | 01.TTS102.01.03 |
| 1200 - 1700 | 01.TTS102.01.04 |
| 1700 - 2200 | 01.TTS102.01.05 |
| 1900 - 2400 | 01.TTS102.01.06 |

### 1b & 1c - Tilt & Turn Gear Variable (25 mm backset & lockable)

| SRH         | Article No (1b) | Article No (1c) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS105.00.01 | -               |
| 700 - 1200  | 01.TTS105.01.02 | -               |
| 900 - 1400  | 01.TTS105.01.03 | -               |
| 1200 - 1700 | 01.TTS105.01.04 | 01.TTS106.01.04 |
| 1700 - 2200 | 01.TTS105.01.05 | 01.TTS106.01.05 |
| 1900 - 2400 | 01.TTS105.01.06 | 01.TTS106.01.05 |

### 1d & 1e - Tilt & Turn Gear Variable (30 mm backset & lockable)

| SRH         | Article No (1d) | Article No (1e) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS101.00.01 | -               |
| 700 - 1200  | 01.TTS101.01.02 | -               |
| 900 - 1400  | 01.TTS101.01.03 | -               |
| 1200 - 1700 | 01.TTS101.01.04 | 01.TTS103.01.04 |
| 1700 - 2200 | 01.TTS101.01.05 | 01.TTS103.01.05 |
| 1900 - 2400 | 01.TTS101.01.06 | 01.TTS103.01.05 |

### 1f - Tilt & Turn Gear Variable (40 mm backset & lockable)

| SRH         | Article No (1d) |
|-------------|-----------------|
| 550 - 700   | 01.TTS104.00.01 |
| 700 - 1200  | 01.TTS104.01.02 |
| 900 - 1400  | 01.TTS104.01.03 |
| 1200 - 1700 | 01.TTS104.01.04 |
| 1700 - 2200 | 01.TTS104.01.05 |
| 1900 - 2400 | 01.TTS104.01.06 |

### 2 - Stay arm

| SRW         | Article No      |
|-------------|-----------------|
| 350 - 600   | 01.TTS211.00.01 |
| 400 - 650   | 01.TTS211.00.02 |
| 600 - 850   | 01.TTS211.01.03 |
| 850 - 1100  | 01.TTS211.01.04 |
| 1100 - 1350 | 01.TTS211.01.05 |

### 3 - Middle lock

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.01.01 |
| 700 - 1200 *  | 01.TTS310.01.02 |
| 900 - 1400 *  | 01.TTS310.01.03 |
| 1200 - 1700 * | 01.TTS310.01.04 |
| 1700 - 2200   | 01.TTS310.01.05 |
| 1900 - 2400   | 01.TTS310.01.06 |

### 3a - Middle lock (with additional ML)

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.03.01 |
| 700 - 1200 *  | 01.TTS310.03.02 |
| 900 - 1400 *  | 01.TTS310.03.03 |
| 1200 - 1700 * | 01.TTS310.03.04 |
| 1700 - 2200   | 01.TTS310.03.05 |
| 1900 - 2400   | 01.TTS310.03.06 |

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| 4 - Corner transmission 1 ML                             | 01.TTS401.00.01 |
| 4a - Corner transmission 2 ML                            | 01.TTS401.00.11 |
| 4b - Short corner transmission                           | 01.TTS401.01.01 |
| 4c - Corner transmission with adjustable integrated slit | 01.TTS401.00.13 |
| 4d - Corner transmission 1 SML                           | 01.TTS401.00.02 |
| 4e - Corner transmission 1 ML 1 SML                      | 01.TTS401.00.12 |
| 4f - Short corner transmission Se                        | 01.TTS401.01.02 |

|                               |                    |
|-------------------------------|--------------------|
| 6 - Middle lock extension 500 | 01.TTS410.03.00 ** |
|-------------------------------|--------------------|

|                          |                 |
|--------------------------|-----------------|
| 7 - Extension lock L=250 | 01.TTS410.01.00 |
| Extension lock L=500     | 01.TTS410.01.00 |

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

|                                 |                 |
|---------------------------------|-----------------|
| 9 - Stay arm bearing 100 kg *** | 01.TTS405.00.00 |
| 9a - Stay arm bearing 100 kg    | 01.TTS405.01.00 |
| 9b - Stay arm bearing 130 kg    | 01.TTS405.02.00 |

|                                       |                 |
|---------------------------------------|-----------------|
| 10 - Drill-in corner hinge 100 kg     | 01.TTS404.00.00 |
| 10a - Drill-in corner hinge 130 kg    | 01.TTS404.01.00 |
| 10b - Rebate corner hinge 13 mm, left | 01.TTS600.L1.00 |
| Rebate corner hinge 9 mm, left        | 01.TTS600.L2.00 |
| Rebate corner hinge 13mm, right       | 01.TTS600.R1.00 |
| Rebate corner hinge 9 mm, right       | 01.TTS600.R2.00 |

|                             |                 |
|-----------------------------|-----------------|
| 11 - Corner bearing 100 kg  | 01.TTS406.00.00 |
| 11a - Corner bearing 130 kg | 01.TTS406.01.00 |

|                                               |                 |
|-----------------------------------------------|-----------------|
| 12 - Wrong op. safety device with sash lifter | 01.TTS409.00.00 |
|-----------------------------------------------|-----------------|

|                    |             |
|--------------------|-------------|
| 13 - Lifting plate | see page 91 |
|--------------------|-------------|

|                             |             |
|-----------------------------|-------------|
| 15 - Standard locking plate | see page 91 |
|-----------------------------|-------------|

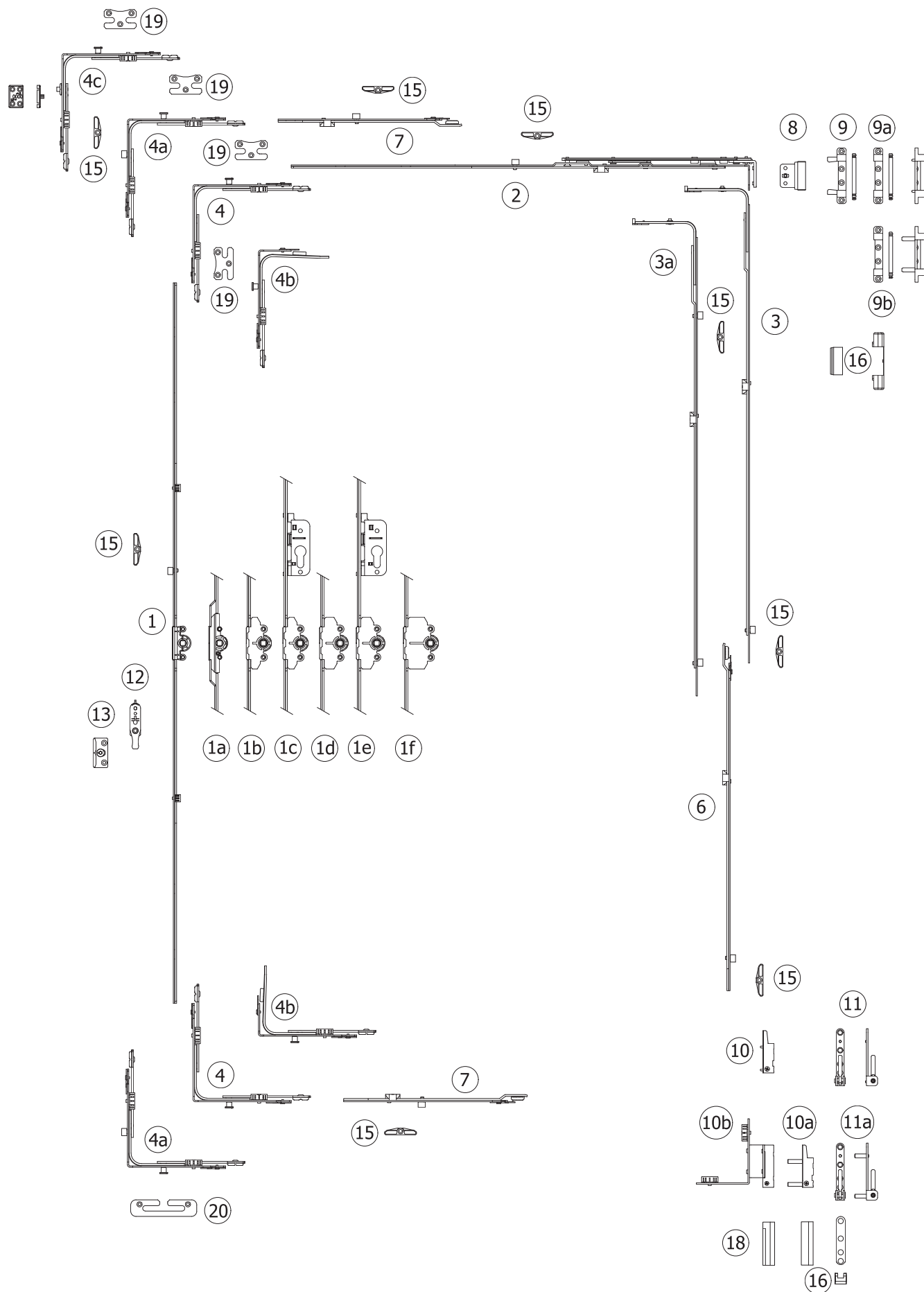
|                      |                   |
|----------------------|-------------------|
| 16 - Hinge cover set | 01.TTS408.00.**** |
|----------------------|-------------------|

|                         |                   |
|-------------------------|-------------------|
| 18 - Rebate hinge cover | 01.TTS408.L1.**** |
|                         | 01.TTS408.R1.**** |

|                               |             |
|-------------------------------|-------------|
| 20 - Tilt first locking plate | see page 91 |
|-------------------------------|-------------|

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

# Tilt first, Variable Handle Position, Medium Security Level





## Tilt first, Variable Handle Position, Medium Security Level

### 1 - Tilt & Turn Gear Variable (15 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.01.02 |
| 900 - 1400  | 01.TTS100.01.03 |
| 1200 - 1700 | 01.TTS100.01.04 |
| 1700 - 2200 | 01.TTS100.01.05 |
| 1900 - 2400 | 01.TTS100.01.06 |

### 1a - Tilt & Turn Gear Variable (7,5 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 700 - 1200  | 01.TTS102.01.02 |
| 900 - 1400  | 01.TTS102.01.03 |
| 1200 - 1700 | 01.TTS102.01.04 |
| 1700 - 2200 | 01.TTS102.01.05 |
| 1900 - 2400 | 01.TTS102.01.06 |

### 1b & 1c - Tilt & Turn Gear Variable (25 mm backset & lockable)

| SRH         | Article No (1b) | Article No (1c) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS105.00.01 | -               |
| 700 - 1200  | 01.TTS105.01.02 | -               |
| 900 - 1400  | 01.TTS105.01.03 | -               |
| 1200 - 1700 | 01.TTS105.01.04 | 01.TTS106.01.04 |
| 1700 - 2200 | 01.TTS105.01.05 | 01.TTS106.01.05 |
| 1900 - 2400 | 01.TTS105.01.06 | 01.TTS106.01.05 |

### 1d & 1e - Tilt & Turn Gear Variable (30 mm backset & lockable)

| SRH         | Article No (1d) | Article No (1e) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS101.00.01 | -               |
| 700 - 1200  | 01.TTS101.01.02 | -               |
| 900 - 1400  | 01.TTS101.01.03 | -               |
| 1200 - 1700 | 01.TTS101.01.04 | 01.TTS103.01.04 |
| 1700 - 2200 | 01.TTS101.01.05 | 01.TTS103.01.05 |
| 1900 - 2400 | 01.TTS101.01.06 | 01.TTS103.01.05 |

### 1f - Tilt & Turn Gear Variable (40 mm backset & lockable)

| SRH         | Article No (1d) |
|-------------|-----------------|
| 550 - 700   | 01.TTS104.00.01 |
| 700 - 1200  | 01.TTS104.01.02 |
| 900 - 1400  | 01.TTS104.01.03 |
| 1200 - 1700 | 01.TTS104.01.04 |
| 1700 - 2200 | 01.TTS104.01.05 |
| 1900 - 2400 | 01.TTS104.01.06 |

### 2 - Stay arm

| SRW         | Article No      |
|-------------|-----------------|
| 350 - 600   | 01.TTS211.00.01 |
| 400 - 650   | 01.TTS211.00.02 |
| 600 - 850   | 01.TTS211.01.03 |
| 850 - 1100  | 01.TTS211.01.04 |
| 1100 - 1350 | 01.TTS211.01.05 |

### 3 - Middle lock

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.01.01 |
| 700 - 1200 *  | 01.TTS310.01.02 |
| 900 - 1400 *  | 01.TTS310.01.03 |
| 1200 - 1700 * | 01.TTS310.01.04 |
| 1700 - 2200   | 01.TTS310.01.05 |
| 1900 - 2400   | 01.TTS310.01.06 |

### 3a - Middle lock (with additional ML)

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.03.01 |
| 700 - 1200 *  | 01.TTS310.03.02 |
| 900 - 1400 *  | 01.TTS310.03.03 |
| 1200 - 1700 * | 01.TTS310.03.04 |
| 1700 - 2200   | 01.TTS310.03.05 |
| 1900 - 2400   | 01.TTS310.03.06 |

### 4 - Corner transmission 1 SeML

01.TTS401.00.02

### 4a - Corner transmission 1 ML 1 SeML

01.TTS401.00.12

### 4b - Short corner transmission Se

01.TTS401.01.02

### 4c - Corner transmission with adjustable integrated slit Se

01.TTS401.00.23

### 6 - Middle lock extension 500

01.TTS410.03.00 \*\*

### 7 - Extension lock L=250

01.TTS410.01.00

### Extension lock L=500

01.TTS410.02.00

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

### 9 - Stay arm bearing 100 kg \*\*\*

01.TTS405.00.00

### 9a - Stay arm bearing 100 kg

01.TTS405.01.00

### 9b - Stay arm bearing 130 kg

01.TTS405.02.00

### 10 - Drill-in corner hinge 100 kg

01.TTS404.00.00

### 10a - Drill-in corner hinge 130 kg

01.TTS404.01.00

### 10b - Rebate corner hinge 13 mm, left

01.TTS600.L1.00

### Rebate corner hinge 9 mm, left

01.TTS600.L2.00

### Rebate corner hinge 13mm, right

01.TTS600.R1.00

### Rebate corner hinge 9 mm, right

01.TTS600.R2.00

### 11 - Corner bearing 100 kg

01.TTS406.00.00

### 11a - Corner bearing 130 kg

01.TTS406.01.00

### 12 - Wrong op. safety device with sash lifter

01.TTS409.00.00

### 13 - Lifting plate 13 mm

see page 91

### 15 - Standard locking plate

see page 91

### 16 - Hinge cover set

01.TTS408.00.\*\*\*\*

### 18 - Rebate hinge cover

01.TTS408.L1.\*\*\*\*

### 01.TTS408.R1.\*\*\*\*

### 19 - Locking plate Se

see page 91

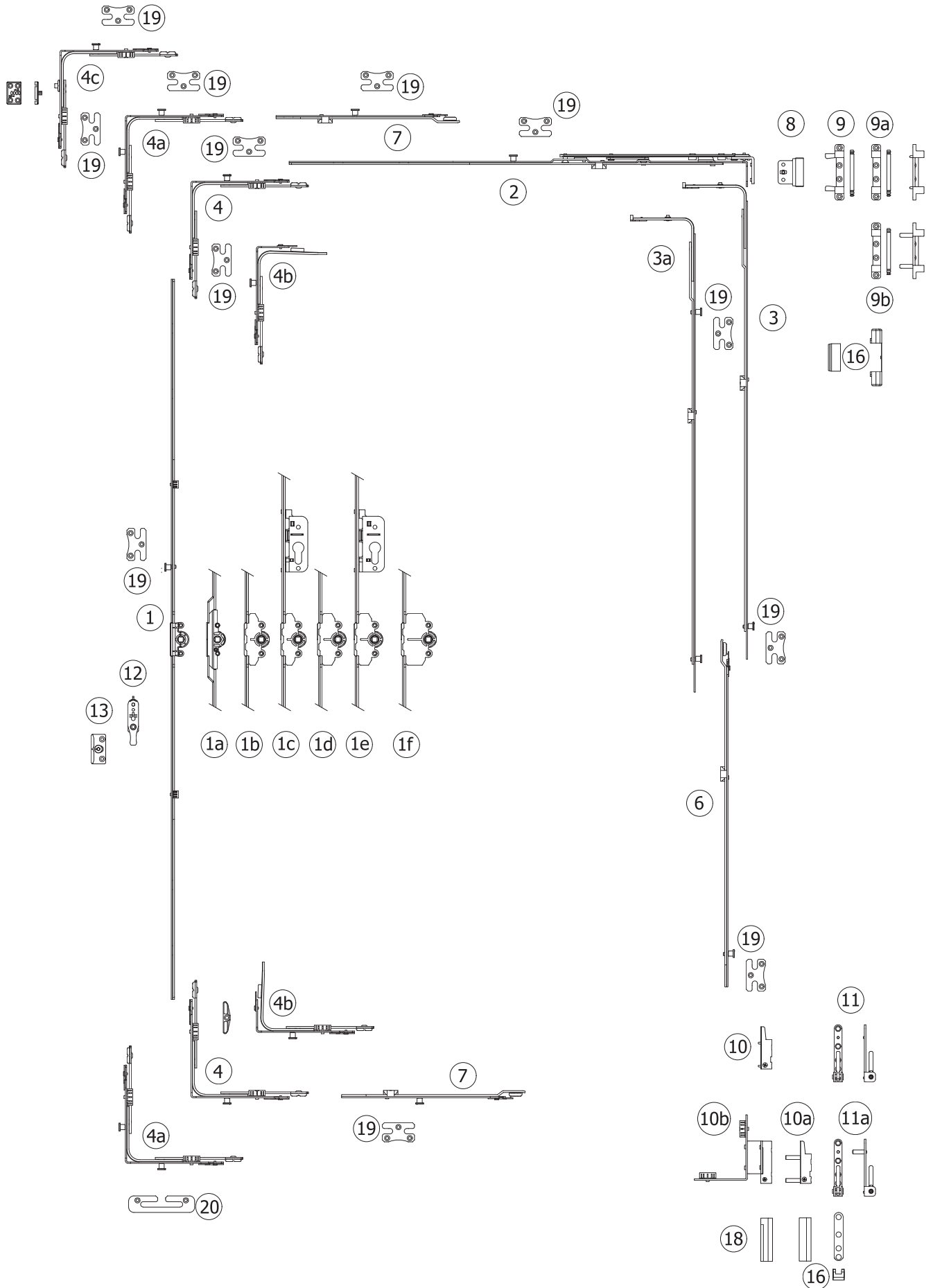
### 20 - Tilt first locking plate

see page 91

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7



## Tilt first, Variable Handle Position, High Security Level





## Tilt first, Variable Handle Position, High Security Level

### 1 - Tilt & Turn Gear Variable (15 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.02.02 |
| 900 - 1400  | 01.TTS100.02.03 |
| 1200 - 1700 | 01.TTS100.02.04 |
| 1700 - 2200 | 01.TTS100.02.05 |
| 1900 - 2400 | 01.TTS100.02.06 |

### 1a - Tilt & Turn Gear Variable (7,5 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 700 - 1200  | 01.TTS102.02.02 |
| 900 - 1400  | 01.TTS102.02.03 |
| 1200 - 1700 | 01.TTS102.02.04 |
| 1700 - 2200 | 01.TTS102.02.05 |
| 1900 - 2400 | 01.TTS102.02.06 |

### 1b & 1c - Tilt & Turn Gear Variable (25 mm backset & lockable)

| SRH         | Article No (1b) | Article No (1c) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS105.00.01 | -               |
| 700 - 1200  | 01.TTS105.02.02 | -               |
| 900 - 1400  | 01.TTS105.02.03 | -               |
| 1200 - 1700 | 01.TTS105.02.04 | 01.TTS106.02.04 |
| 1700 - 2200 | 01.TTS105.02.05 | 01.TTS106.02.05 |
| 1900 - 2400 | 01.TTS105.02.06 | 01.TTS106.02.05 |

### 1d & 1e - Tilt & Turn Gear Variable (30 mm backset & lockable)

| SRH         | Article No (1d) | Article No (1e) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS101.00.01 | -               |
| 700 - 1200  | 01.TTS101.02.02 | -               |
| 900 - 1400  | 01.TTS101.02.03 | -               |
| 1200 - 1700 | 01.TTS101.02.04 | 01.TTS103.02.04 |
| 1700 - 2200 | 01.TTS101.02.05 | 01.TTS103.02.05 |
| 1900 - 2400 | 01.TTS101.02.06 | 01.TTS103.02.05 |

### 1f - Tilt & Turn Gear Variable (40 mm backset & lockable)

| SRH         | Article No (1d) |
|-------------|-----------------|
| 550 - 700   | 01.TTS104.00.01 |
| 700 - 1200  | 01.TTS104.02.02 |
| 900 - 1400  | 01.TTS104.02.03 |
| 1200 - 1700 | 01.TTS104.02.04 |
| 1700 - 2200 | 01.TTS104.02.05 |
| 1900 - 2400 | 01.TTS104.02.06 |

### 2 - Stay arm

| SRW         | Article No      |
|-------------|-----------------|
| 350 - 600   | 01.TTS211.00.01 |
| 400 - 650   | 01.TTS211.00.02 |
| 600 - 850   | 01.TTS211.02.03 |
| 850 - 1100  | 01.TTS211.02.04 |
| 1100 - 1350 | 01.TTS211.02.05 |

### 3 - Middle lock

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.02.01 |
| 700 - 1200 *  | 01.TTS310.02.02 |
| 900 - 1400 *  | 01.TTS310.02.03 |
| 1200 - 1700 * | 01.TTS310.02.04 |
| 1700 - 2200   | 01.TTS310.02.05 |
| 1900 - 2400   | 01.TTS310.02.06 |

### 3a - Middle lock (with additional ML)

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.04.01 |
| 700 - 1200 *  | 01.TTS310.04.02 |
| 900 - 1400 *  | 01.TTS310.04.03 |
| 1200 - 1700 * | 01.TTS310.04.04 |
| 1700 - 2200   | 01.TTS310.04.05 |
| 1900 - 2400   | 01.TTS310.04.06 |

### 4 - Corner transmission 1 SeML

01.TTS401.00.02

### 4a - Corner transmission 2 SeML

01.TTS401.00.22

### 4b - Short corner transmission Se

01.TTS401.01.02

### 4c - Corner transmission with adjustable integrated slit Se

01.TTS401.00.23

### 6 - Middle lock extension Se 500

01.TTS410.23.00 \*\*

### 7 - Extension lock Se L=250

01.TTS410.21.00

### Extension lock Se L=500

01.TTS410.22.00

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

### 9 - Stay arm bearing 100 kg \*\*\*

01.TTS405.00.00

### 9a - Stay arm bearing 100 kg

01.TTS405.01.00

### 9b - Stay arm bearing 130 kg

01.TTS405.02.00

### 10 - Drill-in corner hinge 100 kg

01.TTS404.00.00

### 10a - Drill-in corner hinge 130 kg

01.TTS404.01.00

### 10b - Rebate corner hinge 13 mm, left

01.TTS600.L1.00

### Rebate corner hinge 9 mm, left

01.TTS600.L2.00

### Rebate corner hinge 13mm, right

01.TTS600.R1.00

### Rebate corner hinge 9 mm, right

01.TTS600.R2.00

### 11 - Corner bearing 100 kg

01.TTS406.00.00

### 11a - Corner bearing 130 kg

01.TTS406.01.00

### 12 - Wrong op. safety device with sash lifter

01.TTS409.00.00

### 13 - Lifting plate 13 mm

see page 91

### 16 - Hinge cover set

01.TTS408.00.\*\*\*\*

### 18 - Rebate hinge cover

01.TTS408.L1.\*\*\*\*

01.TTS408.R1.\*\*\*\*

### 19 - Locking plate Se

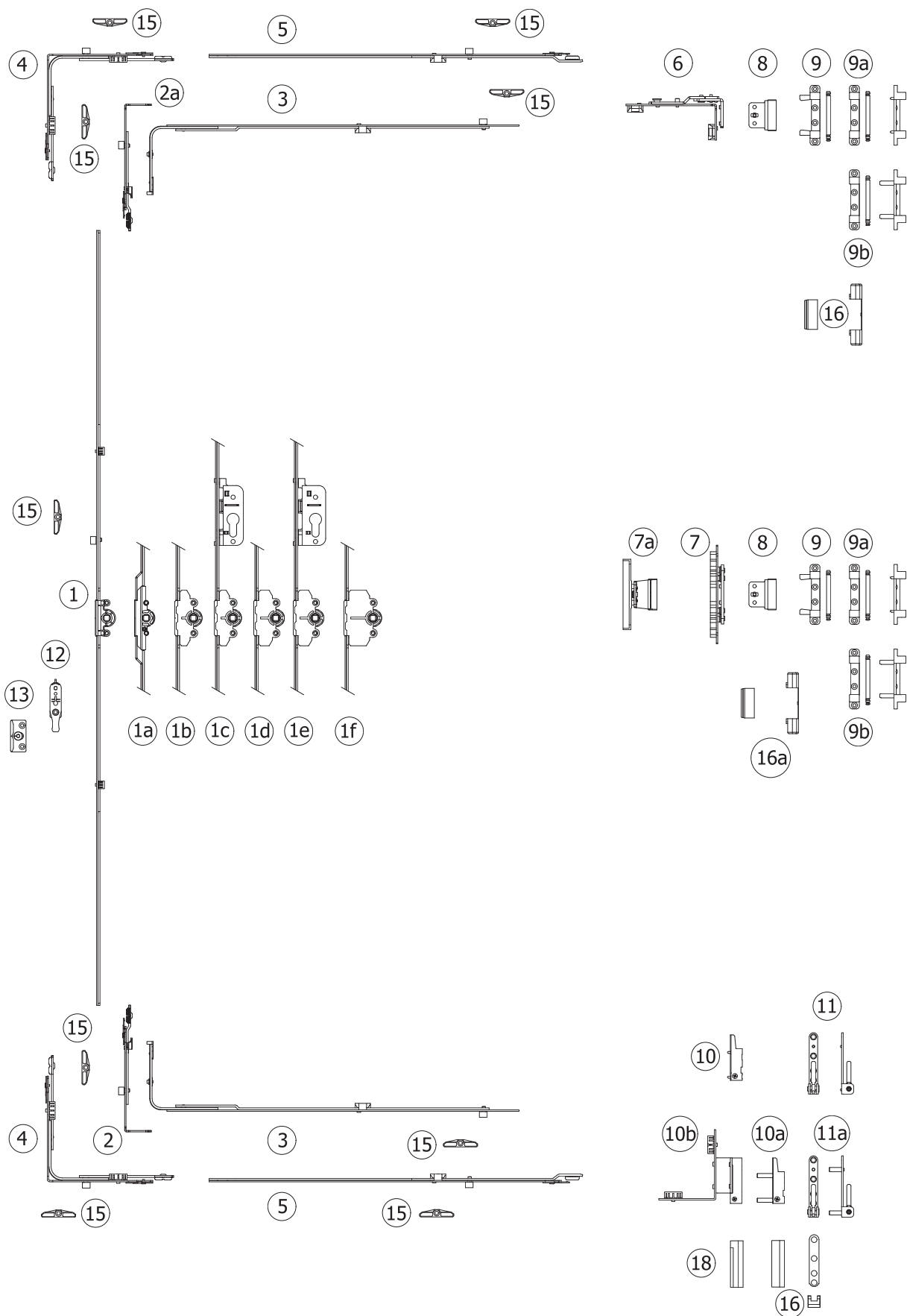
see page 91

### 20 - Tilt first locking plate

see page 91

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

## Side hung, Variable Handle Position, Basic Security Level







## Side hung, Variable Handle Position, Basic Security Level

### 1 - Tilt & Turn Gear Variable (15 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.01.02 |
| 900 - 1400  | 01.TTS100.01.03 |
| 1200 - 1700 | 01.TTS100.01.04 |
| 1700 - 2200 | 01.TTS100.01.05 |
| 1900 - 2400 | 01.TTS100.01.06 |

### 1a - Tilt & Turn Gear Variable (7,5 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 700 - 1200  | 01.TTS102.01.02 |
| 900 - 1400  | 01.TTS102.01.03 |
| 1200 - 1700 | 01.TTS102.01.04 |
| 1700 - 2200 | 01.TTS102.01.05 |
| 1900 - 2400 | 01.TTS102.01.06 |

### 1b & 1c - Tilt & Turn Gear Variable (25 mm backset & lockable)

| SRH         | Article No (1b) | Article No (1c) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS105.00.01 | -               |
| 700 - 1200  | 01.TTS105.01.02 | -               |
| 900 - 1400  | 01.TTS105.01.03 | -               |
| 1200 - 1700 | 01.TTS105.01.04 | 01.TTS106.01.04 |
| 1700 - 2200 | 01.TTS105.01.05 | 01.TTS106.01.05 |
| 1900 - 2400 | 01.TTS105.01.06 | 01.TTS106.01.05 |

### 1d & 1e - Tilt & Turn Gear Variable (30 mm backset & lockable)

| SRH         | Article No (1d) | Article No (1e) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS101.00.01 | -               |
| 700 - 1200  | 01.TTS101.01.02 | -               |
| 900 - 1400  | 01.TTS101.01.03 | -               |
| 1200 - 1700 | 01.TTS101.01.04 | 01.TTS103.01.04 |
| 1700 - 2200 | 01.TTS101.01.05 | 01.TTS103.01.05 |
| 1900 - 2400 | 01.TTS101.01.06 | 01.TTS103.01.05 |

### 1f - Tilt & Turn Gear Variable (40 mm backset & lockable)

| SRH         | Article No (1d) |
|-------------|-----------------|
| 550 - 700   | 01.TTS104.00.01 |
| 700 - 1200  | 01.TTS104.01.02 |
| 900 - 1400  | 01.TTS104.01.03 |
| 1200 - 1700 | 01.TTS104.01.04 |
| 1700 - 2200 | 01.TTS104.01.05 |
| 1900 - 2400 | 01.TTS104.01.06 |

### 2 - Bottom extension 180°

01.TTS402.21.00

### 2a - Bottom extension 90°

01.TTS402.22.00

### 3 - Middle lock

| SRW         | Article No      |
|-------------|-----------------|
| 450 - 700   | 01.TTS310.01.01 |
| 700 - 1200  | 01.TTS310.01.02 |
| 900 - 1400  | 01.TTS310.01.03 |
| 1200 - 1700 | 01.TTS310.01.04 |

### 4 - Corner transmission 1 ML

01.TTS401.00.01

### 5 - Extension lock L=250

01.TTS410.01.00

Extension lock L=500 01.TTS410.02.00

### 6 - Adjustable side hung hinge

01.TTS600.00.00

### 7 - 3D Adjustable middle hinge

01.TTS600.01.00

### 7a- 2D Adjustable middle hinge 9 mm

01.TTS600.09.00

13 mm 01.TTS600.13.00

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

### 9 - Stay arm bearing 100 kg \*\*\*

01.TTS405.00.00

### 9a - Stay arm bearing 100 kg

01.TTS405.01.00

### 9b - Stay arm bearing 130 kg

01.TTS405.02.00

### 10 - Drill-in corner hinge 100 kg

01.TTS404.00.00

### 10a - Drill-in corner hinge 130 kg

01.TTS404.01.00

### 10b - Rebate corner hinge 13 mm, left

01.TTS600.L1.00

Rebate corner hinge 9 mm, left 01.TTS600.L2.00

Rebate corner hinge 13mm, right 01.TTS600.R1.00

Rebate corner hinge 9 mm, right 01.TTS600.R2.00

### 11 - Corner bearing 100 kg

01.TTS406.00.00

### 11a - Corner bearing 130 kg

01.TTS406.01.00

### 12 - Wrong op. safety device with sash lifter

01.TTS409.00.00

### 13 - Lifting plate

see page 91

### 15 - Standard locking plate

see page 91

### 16 - Hinge cover set

01.TTS408.00.\*\*\*\*

### 16a- Middle hinge cover set

01.TTS408.01.\*\*\*\*

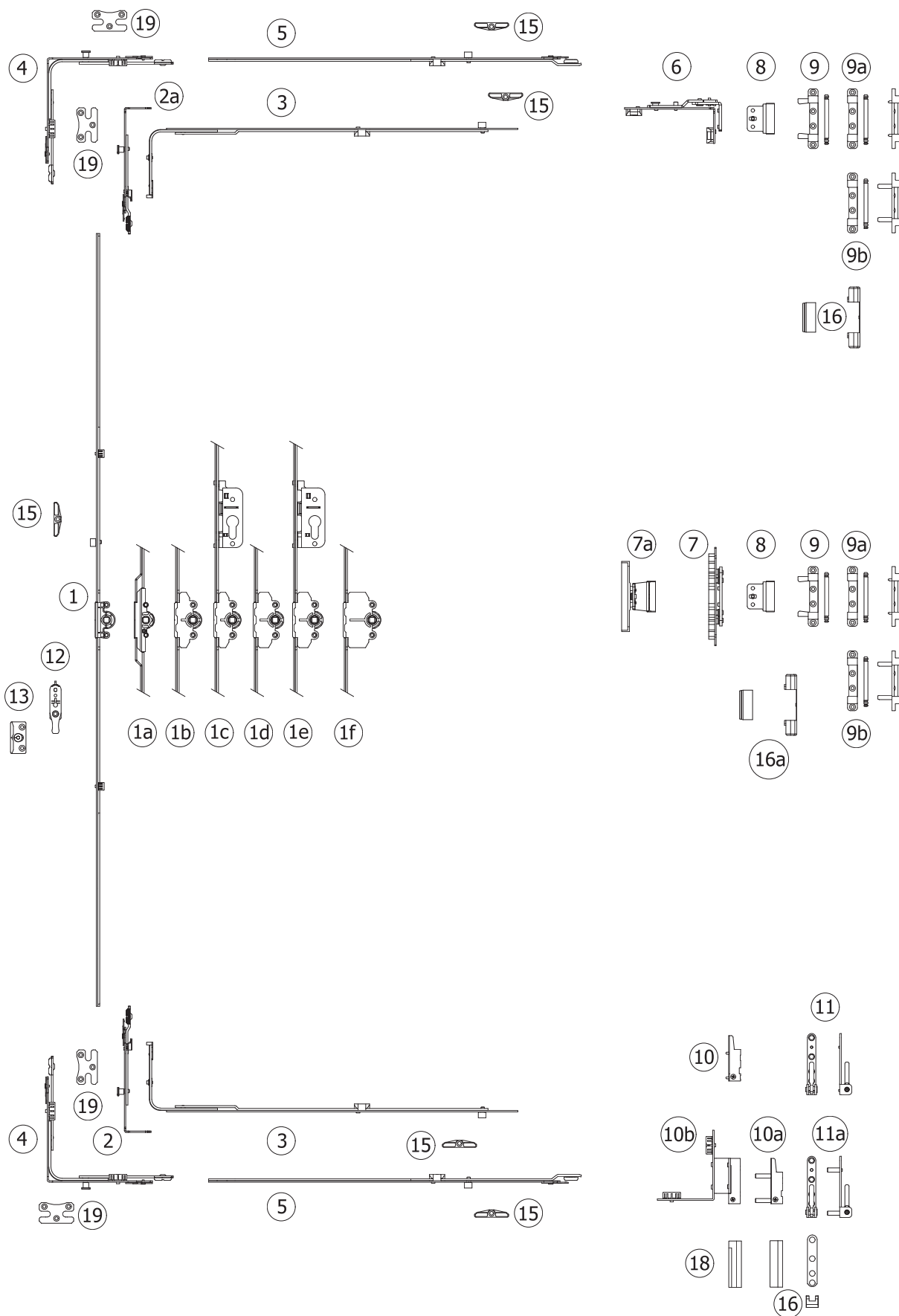
### 18 - Rebate hinge cover

01.TTS408.L1.\*\*\*\*

01.TTS408.R1.\*\*\*\*

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

# Side hung, Variable Handle Position, Medium Security Level





## Tilt & Turn, Variable Handle Position, Medium Security Level

### 1 - Tilt & Turn Gear Variable (15 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.01.02 |
| 900 - 1400  | 01.TTS100.01.03 |
| 1200 - 1700 | 01.TTS100.01.04 |
| 1700 - 2200 | 01.TTS100.01.05 |
| 1900 - 2400 | 01.TTS100.01.06 |

### 1a - Tilt & Turn Gear Variable (7,5 mm backset)

| SRH         | Article No      |
|-------------|-----------------|
| 700 - 1200  | 01.TTS102.01.02 |
| 900 - 1400  | 01.TTS102.01.03 |
| 1200 - 1700 | 01.TTS102.01.04 |
| 1700 - 2200 | 01.TTS102.01.05 |
| 1900 - 2400 | 01.TTS102.01.06 |

### 1b & 1c - Tilt & Turn Gear Variable (25 mm backset & lockable)

| SRH         | Article No (1b) | Article No (1c) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS105.00.01 | -               |
| 700 - 1200  | 01.TTS105.01.02 | -               |
| 900 - 1400  | 01.TTS105.01.03 | -               |
| 1200 - 1700 | 01.TTS105.01.04 | 01.TTS106.01.04 |
| 1700 - 2200 | 01.TTS105.01.05 | 01.TTS106.01.05 |
| 1900 - 2400 | 01.TTS105.01.06 | 01.TTS106.01.05 |

### 1d & 1e - Tilt & Turn Gear Variable (30 mm backset & lockable)

| SRH         | Article No (1d) | Article No (1e) |
|-------------|-----------------|-----------------|
| 550 - 700   | 01.TTS101.00.01 | -               |
| 700 - 1200  | 01.TTS101.01.02 | -               |
| 900 - 1400  | 01.TTS101.01.03 | -               |
| 1200 - 1700 | 01.TTS101.01.04 | 01.TTS103.01.04 |
| 1700 - 2200 | 01.TTS101.01.05 | 01.TTS103.01.05 |
| 1900 - 2400 | 01.TTS101.01.06 | 01.TTS103.01.05 |

### 1f - Tilt & Turn Gear Variable (40 mm backset & lockable)

| SRH         | Article No (1d) |
|-------------|-----------------|
| 550 - 700   | 01.TTS104.00.01 |
| 700 - 1200  | 01.TTS104.01.02 |
| 900 - 1400  | 01.TTS104.01.03 |
| 1200 - 1700 | 01.TTS104.01.04 |
| 1700 - 2200 | 01.TTS104.01.05 |
| 1900 - 2400 | 01.TTS104.01.06 |

### 2 - Bottom extension 180° Se

01.TTS402.21.00

### 2a - Bottom extension 90° Se

01.TTS402.22.00

### 3 - Middle lock

| SRW         | Article No      |
|-------------|-----------------|
| 450 - 700   | 01.TTS310.01.01 |
| 700 - 1200  | 01.TTS310.01.02 |
| 900 - 1400  | 01.TTS310.01.03 |
| 1200 - 1700 | 01.TTS310.01.04 |

### 4 - Corner transmission 1 SeML

01.TTS401.00.02

### 5 - Extension lock L=250 Se

01.TTS410.21.00

### Extension lock L=500 Se

01.TTS410.22.00

### 6 - Adjustable side hung hinge

01.TTS600.00.00

### 7 - 3D Adjustable middle hinge

01.TTS600.01.00

### 7a- 2D Adjustable middle hinge 9 mm

01.TTS600.09.00

13 mm 01.TTS600.13.00

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

### 9 - Stay arm bearing 100 kg \*\*\*

01.TTS405.00.00

### 9a - Stay arm bearing 100 kg

01.TTS405.01.00

### 9b - Stay arm bearing 130 kg

01.TTS405.02.00

### 10 - Drill-in corner hinge 100 kg

01.TTS404.00.00

### 10a - Drill-in corner hinge 130 kg

01.TTS404.01.00

### 10b - Rebate corner hinge 13 mm, left

01.TTS600.L1.00

Rebate corner hinge 9 mm, left 01.TTS600.L2.00

Rebate corner hinge 13mm, right 01.TTS600.R1.00

Rebate corner hinge 9 mm, right 01.TTS600.R2.00

### 11 - Corner bearing 100 kg

01.TTS406.00.00

### 11a - Corner bearing 130 kg

01.TTS406.01.00

### 12 - Wrong op. safety device with sash lifter

01.TTS409.00.00

### 13 - Lifting plate

see page 91

### 15 - Standard locking plate

see page 91

### 16 - Hinge cover set

01.TTS408.00.\*\*\*\*

### 16a- Middle hinge cover set

01.TTS408.01.\*\*\*\*

### 18 - Rebate hinge cover

01.TTS408.L1.\*\*\*\*

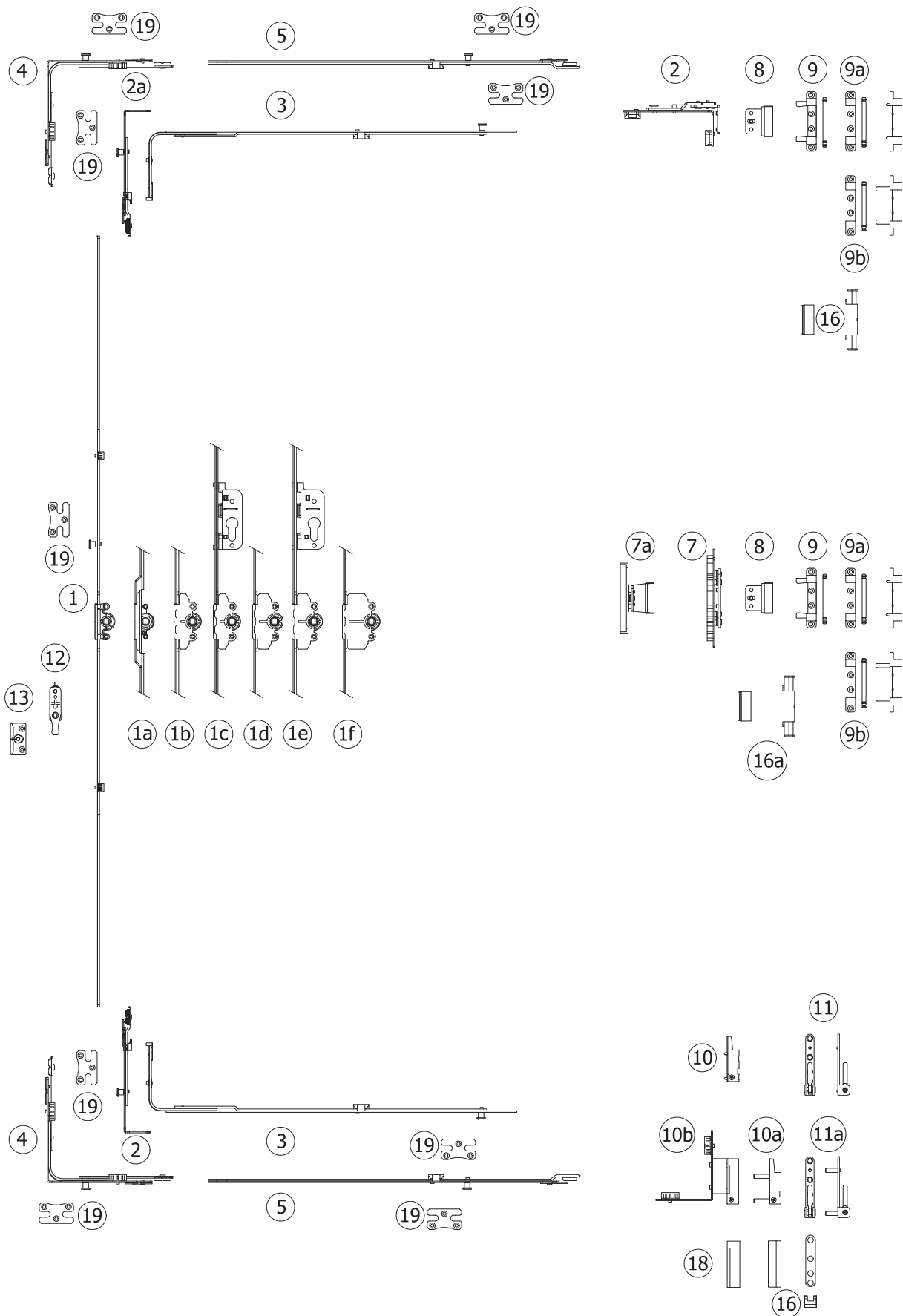
01.TTS408.R1.\*\*\*\*

### 19 - Locking plate Se

see page 91

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

## Side hung, Variable Handle Position, High Security Level





## Tilt & Turn, Variable Handle Position, Medium Security Level

|                                                  |                   |
|--------------------------------------------------|-------------------|
| 1 - Tilt & Turn Gear Variable Se (15 mm backset) |                   |
| <u>SRH</u>                                       | <u>Article No</u> |
| 450 - 550                                        | 01.TTS100.00.00   |
| 550 - 700                                        | 01.TTS100.00.01   |
| 700 - 1200                                       | 01.TTS100.02.02   |
| 900 - 1400                                       | 01.TTS100.02.03   |
| 1200 - 1700                                      | 01.TTS100.02.04   |
| 1700 - 2200                                      | 01.TTS100.02.05   |
| 1900 - 2400                                      | 01.TTS100.02.06   |

|                                                    |                   |
|----------------------------------------------------|-------------------|
| 1a - Tilt & Turn Gear Variable Se (7,5 mm backset) |                   |
| <u>SRH</u>                                         | <u>Article No</u> |
| 700 - 1200                                         | 01.TTS102.02.02   |
| 900 - 1400                                         | 01.TTS102.02.03   |
| 1200 - 1700                                        | 01.TTS102.02.04   |
| 1700 - 2200                                        | 01.TTS102.02.05   |
| 1900 - 2400                                        | 01.TTS102.02.06   |

| 1b & 1c - Tilt & Turn Gear Variable Se (25 mm backset & lockable) |                        |                        |
|-------------------------------------------------------------------|------------------------|------------------------|
| <u>SRH</u>                                                        | <u>Article No (1b)</u> | <u>Article No (1c)</u> |
| 550 - 700                                                         | 01.TTS105.00.01        | -                      |
| 700 - 1200                                                        | 01.TTS105.02.02        | -                      |
| 900 - 1400                                                        | 01.TTS105.02.03        | -                      |
| 1200 - 1700                                                       | 01.TTS105.02.04        | 01.TTS106.02.04        |
| 1700 - 2200                                                       | 01.TTS105.02.05        | 01.TTS106.02.05        |
| 1900 - 2400                                                       | 01.TTS105.02.06        | 01.TTS106.02.05        |

| 1d & 1e - Tilt & Turn Gear Variable Se (30 mm backset & lockable) |                 |                 |
|-------------------------------------------------------------------|-----------------|-----------------|
| SRH                                                               | Article No (1d) | Article No (1e) |
| 550 - 700                                                         | 01.TTS101.00.01 | -               |
| 700 - 1200                                                        | 01.TTS101.02.02 | -               |
| 900 - 1400                                                        | 01.TTS101.02.03 | -               |
| 1200 - 1700                                                       | 01.TTS101.02.04 | 01.TTS103.02.04 |
| 1700 - 2200                                                       | 01.TTS101.02.05 | 01.TTS103.02.05 |
| 1900 - 2400                                                       | 01.TTS101.02.06 | 01.TTS103.02.05 |

|                                                             |                        |
|-------------------------------------------------------------|------------------------|
| 1f - Tilt & Turn Gear Variable Se(40 mm backset & lockable) |                        |
| <u>SRH</u>                                                  | <u>Article No (1d)</u> |
| 550 - 700                                                   | 01.TTS104.00.01        |
| 700 - 1200                                                  | 01.TTS104.02.02        |
| 900 - 1400                                                  | 01.TTS104.02.03        |
| 1200 - 1700                                                 | 01.TTS104.02.04        |
| 1700 - 2200                                                 | 01.TTS104.02.05        |
| 1900 - 2400                                                 | 01.TTS104.02.06        |

|                              |                 |
|------------------------------|-----------------|
| 2 - Bottom extension 180° Se | 01.TTS402.21.00 |
| 2a - Bottom extension 90° Se | 01.TTS402.22.00 |

|                    |                   |
|--------------------|-------------------|
| 3 - Middle lock Se |                   |
| <u>SRW</u>         | <u>Article No</u> |
| 450 - 700          | 01.TTS310.02.01   |
| 700 - 1200         | 01.TTS310.02.02   |
| 900 - 1400         | 01.TTS310.02.03   |
| 1200 - 1700        | 01.TTS310.02.04   |

|                                |                 |
|--------------------------------|-----------------|
| 4 - Corner transmission 1 SeML | 01.TTS401.00.02 |
|--------------------------------|-----------------|

|                             |                 |
|-----------------------------|-----------------|
| 5 - Extension lock L=250 Se | 01.TTS410.21.00 |
| Extension lock L=500 Se     | 01.TTS410.22.00 |

|                                |                 |
|--------------------------------|-----------------|
| 6 - Adjustable side hung hinge | 01.TTS600.00.00 |
|--------------------------------|-----------------|

|                                     |                 |
|-------------------------------------|-----------------|
| 7 - 3D Adjustable middle hinge      | 01.TTS600.01.00 |
| 7a- 2D Adjustable middle hinge 9 mm | 01.TTS600.09.00 |
| 13 mm                               | 01.TTS600.13.00 |

|                     |                   |
|---------------------|-------------------|
| 8 - Top sash hinge  |                   |
| <u>Fitting Axis</u> | <u>Article No</u> |
| 9 / 20              | 01.TTS403.01.00   |
| 13 / 20             | 01.TTS403.02.00   |
| 14 / 20             | 01.TTS403.04.00   |

|                                 |                 |
|---------------------------------|-----------------|
| 9 - Stay arm bearing 100 kg *** | 01.TTS405.00.00 |
| 9a - Stay arm bearing 100 kg    | 01.TTS405.01.00 |
| 9b - Stay arm bearing 130 kg    | 01.TTS405.02.00 |

|                                       |                 |
|---------------------------------------|-----------------|
| 10 - Drill-in corner hinge 100 kg     | 01.TTS404.00.00 |
| 10a - Drill-in corner hinge 130 kg    | 01.TTS404.01.00 |
| 10b - Rebate corner hinge 13 mm, left | 01.TTS600.L1.00 |
| Rebate corner hinge 9 mm, left        | 01.TTS600.L2.00 |
| Rebate corner hinge 13mm, right       | 01.TTS600.R1.00 |
| Rebate corner hinge 9 mm, right       | 01.TTS600.R2.00 |

|                             |                 |
|-----------------------------|-----------------|
| 11 - Corner bearing 100 kg  | 01.TTS406.00.00 |
| 11a - Corner bearing 130 kg | 01.TTS406.01.00 |

|                                              |                 |
|----------------------------------------------|-----------------|
| 12 - Wrong op.safety device with sash lifter | 01.TTS409.00.00 |
|----------------------------------------------|-----------------|

|                    |             |
|--------------------|-------------|
| 13 - Lifting plate | see page 91 |
|--------------------|-------------|

|                             |                   |
|-----------------------------|-------------------|
| 16 - Hinge cover set        | 01.TTS408.00.**** |
| 16a- Middle hinge cover set | 01.TTS408.01.**** |

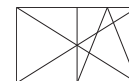
|                         |                   |
|-------------------------|-------------------|
| 18 - Rebate hinge cover | 01.TTS408.L1.**** |
|                         | 01.TTS408.R1.**** |

|                       |             |
|-----------------------|-------------|
| 19 - Locking plate Se | see page 91 |
|-----------------------|-------------|

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

\_\_\_\_\_





## Double sash, Variable Handle Position

|                                        |                 |
|----------------------------------------|-----------------|
| 1 - Double sash gear with lever<br>SRH | Article No      |
| 550 - 700                              | 01.TTS500.01.01 |
| 700 - 1200                             | 01.TTS500.01.02 |
| 900 - 1400                             | 01.TTS500.01.03 |
| 1200 - 1700                            | 01.TTS500.01.04 |
| 1700 - 2200                            | 01.TTS500.01.05 |
| 1900 - 2400                            | 01.TTS500.01.06 |

|                        |                 |
|------------------------|-----------------|
| 2 - Shoot bolt, bottom | 01.TTS700.01.00 |
| 2a - Shoot bolt, top   | 01.TTS700.02.00 |

|                       |            |
|-----------------------|------------|
| 4 - Striker for shoot | see page ? |
|-----------------------|------------|

|                        |                 |
|------------------------|-----------------|
| 5 - Middle lock<br>SRW | Article No      |
| 450 - 700              | 01.TTS310.01.01 |
| 700 - 1200             | 01.TTS310.01.02 |
| 900 - 1400             | 01.TTS310.01.03 |
| 1200 - 1700            | 01.TTS310.01.04 |

|                            |                 |
|----------------------------|-----------------|
| 5a - Middle lock Se<br>SRW | Article No      |
| 450 - 700                  | 01.TTS310.02.01 |
| 700 - 1200                 | 01.TTS310.02.02 |
| 900 - 1400                 | 01.TTS310.02.03 |
| 1200 - 1700                | 01.TTS310.02.04 |

|                                |                 |
|--------------------------------|-----------------|
| 6 - Adjustable side hung hinge | 01.TTS600.00.00 |
|--------------------------------|-----------------|

|                                     |                 |
|-------------------------------------|-----------------|
| 7 - 3D Adjustable middle hinge      | 01.TTS600.01.00 |
| 7a- 2D Adjustable middle hinge 9 mm | 01.TTS600.09.00 |
| 13 mm                               | 01.TTS600.13.00 |

|                    |                 |
|--------------------|-----------------|
| 8 - Top sash hinge | Article No      |
| Fitting Axis       |                 |
| 9 / 20             | 01.TTS403.01.00 |
| 13 / 20            | 01.TTS403.02.00 |
| 14 / 20            | 01.TTS403.04.00 |

|                                 |                 |
|---------------------------------|-----------------|
| 9 - Stay arm bearing 100 kg *** | 01.TTS405.00.00 |
| 9a - Stay arm bearing 100 kg    | 01.TTS405.01.00 |
| 9b - Stay arm bearing 130 kg    | 01.TTS405.02.00 |

|                                       |                 |
|---------------------------------------|-----------------|
| 10 - Drill-in corner hinge 100 kg     | 01.TTS404.00.00 |
| 10a - Drill-in corner hinge 130 kg    | 01.TTS404.01.00 |
| 10b - Rebate corner hinge 13 mm, left | 01.TTS600.L1.00 |
| Rebate corner hinge 9 mm, left        | 01.TTS600.L2.00 |
| Rebate corner hinge 13mm, right       | 01.TTS600.R1.00 |
| Rebate corner hinge 9 mm, right       | 01.TTS600.R2.00 |

|                             |                 |
|-----------------------------|-----------------|
| 11 - Corner bearing 100 kg  | 01.TTS406.00.00 |
| 11a - Corner bearing 130 kg | 01.TTS406.01.00 |

|                             |             |
|-----------------------------|-------------|
| 15 - Standard locking plate | see page 91 |
|-----------------------------|-------------|

|                      |                   |
|----------------------|-------------------|
| 16 - Hinge cover set | 01.TTS408.00.**** |
|----------------------|-------------------|

|                             |             |
|-----------------------------|-------------|
| 17 - Standard locking plate | see page 91 |
|-----------------------------|-------------|

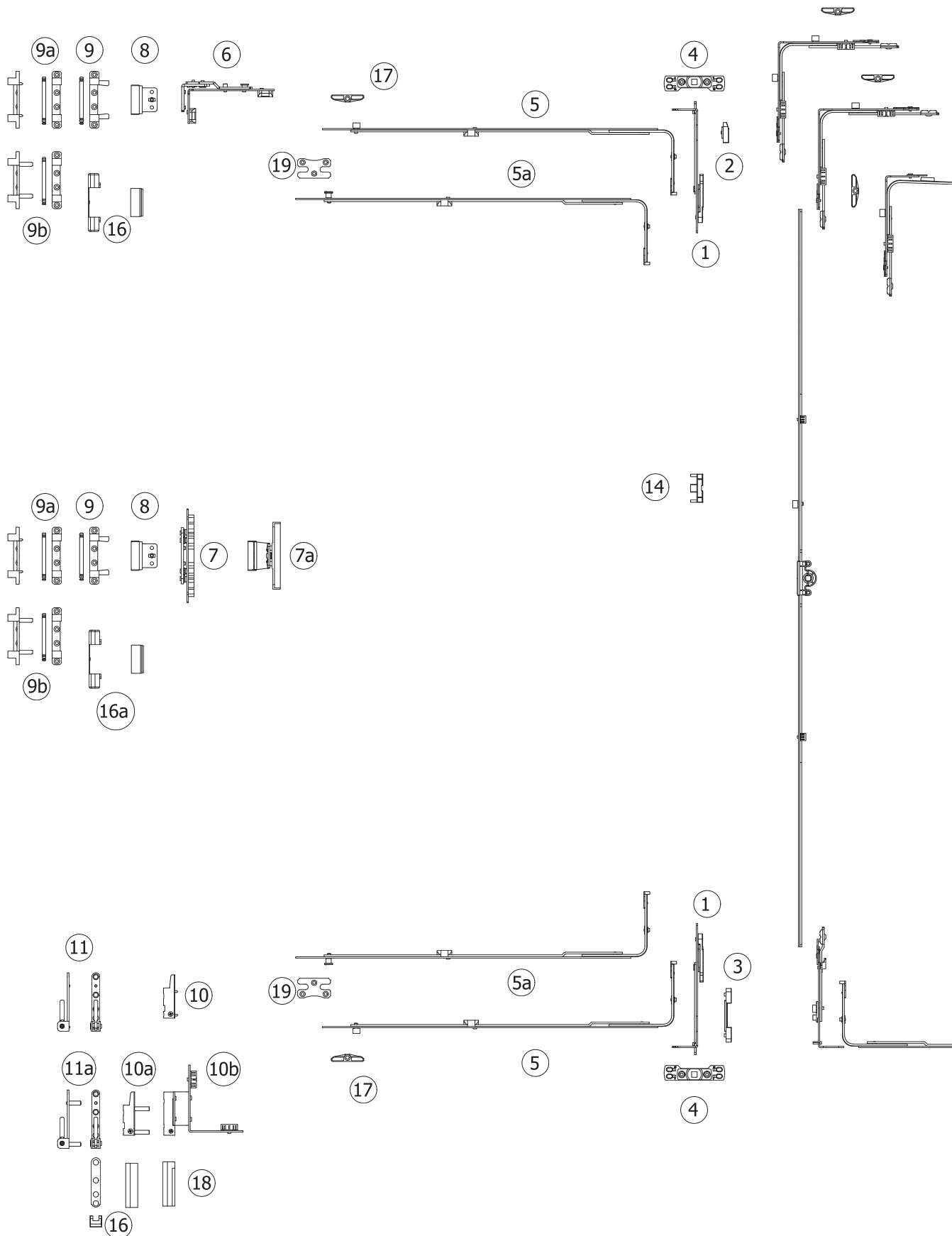
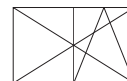
|                         |                   |
|-------------------------|-------------------|
| 18 - Rebate hinge cover | 01.TTS408.L1.**** |
|                         | 01.TTS408.R1.**** |

|                       |             |
|-----------------------|-------------|
| 19 - Locking plate Se | see page 91 |
|-----------------------|-------------|

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7



## Double sash, Variable Handle Position





## Double sash, Variable Handle Position

1 - Shoot bolt with lever 01.TTS700.05.00

2 - Striker for top shoot bolt 01.TTS800.10.00

3 - Tilt striker for shoot bolt 01.TTS700.02.00

4 - Striker for shoot see page ?

|                        |                 |
|------------------------|-----------------|
| 5 - Middle lock<br>SRW | Article No      |
| 450 - 700              | 01.TTS310.01.01 |
| 700 - 1200             | 01.TTS310.01.02 |
| 900 - 1400             | 01.TTS310.01.03 |
| 1200 - 1700            | 01.TTS310.01.04 |

|                            |                 |
|----------------------------|-----------------|
| 5a - Middle lock Se<br>SRW | Article No      |
| 450 - 700                  | 01.TTS310.02.01 |
| 700 - 1200                 | 01.TTS310.02.02 |
| 900 - 1400                 | 01.TTS310.02.03 |
| 1200 - 1700                | 01.TTS310.02.04 |

6 - Adjustable side hung hinge 01.TTS600.00.00

7 - 3D Adjustable middle hinge 01.TTS600.01.00

7a- 2D Adjustable middle hinge 9 mm 01.TTS600.09.00  
13 mm 01.TTS600.13.00

|                     |                   |
|---------------------|-------------------|
| 8 - Top sash hinge  |                   |
| <u>Fitting Axis</u> | <u>Article No</u> |
| 9 / 20              | 01.TTS403.01.00   |
| 13 / 20             | 01.TTS403.02.00   |
| 14 / 20             | 01.TTS403.04.00   |

9 - Stay arm bearing 100 kg \*\*\* 01.TTS405.00.00

9a - Stay arm bearing 100 kg 01.TTS405.01.00

9b - Stay arm bearing 130 kg 01.TTS405.02.00

10 - Drill-in corner hinge 100 kg 01.TTS404.00.00

10a - Drill-in corner hinge 130 kg 01.TTS404.01.00

10b - Rebate corner hinge 13 mm, left 01.TTS600.L1.00

Rebate corner hinge 9 mm, left 01.TTS600.L2.00

Rebate corner hinge 13mm, right 01.TTS600.R1.00

Rebate corner hinge 9 mm, right 01.TTS600.R2.00

11 - Corner bearing 100 kg 01.TTS406.00.00

11a - Corner bearing 130 kg 01.TTS406.01.00

15 - Standard locking plate see page 91

16 - Hinge cover set 01.TTS408.00.\*\*\*\*

17 - Standard locking plate see page 91

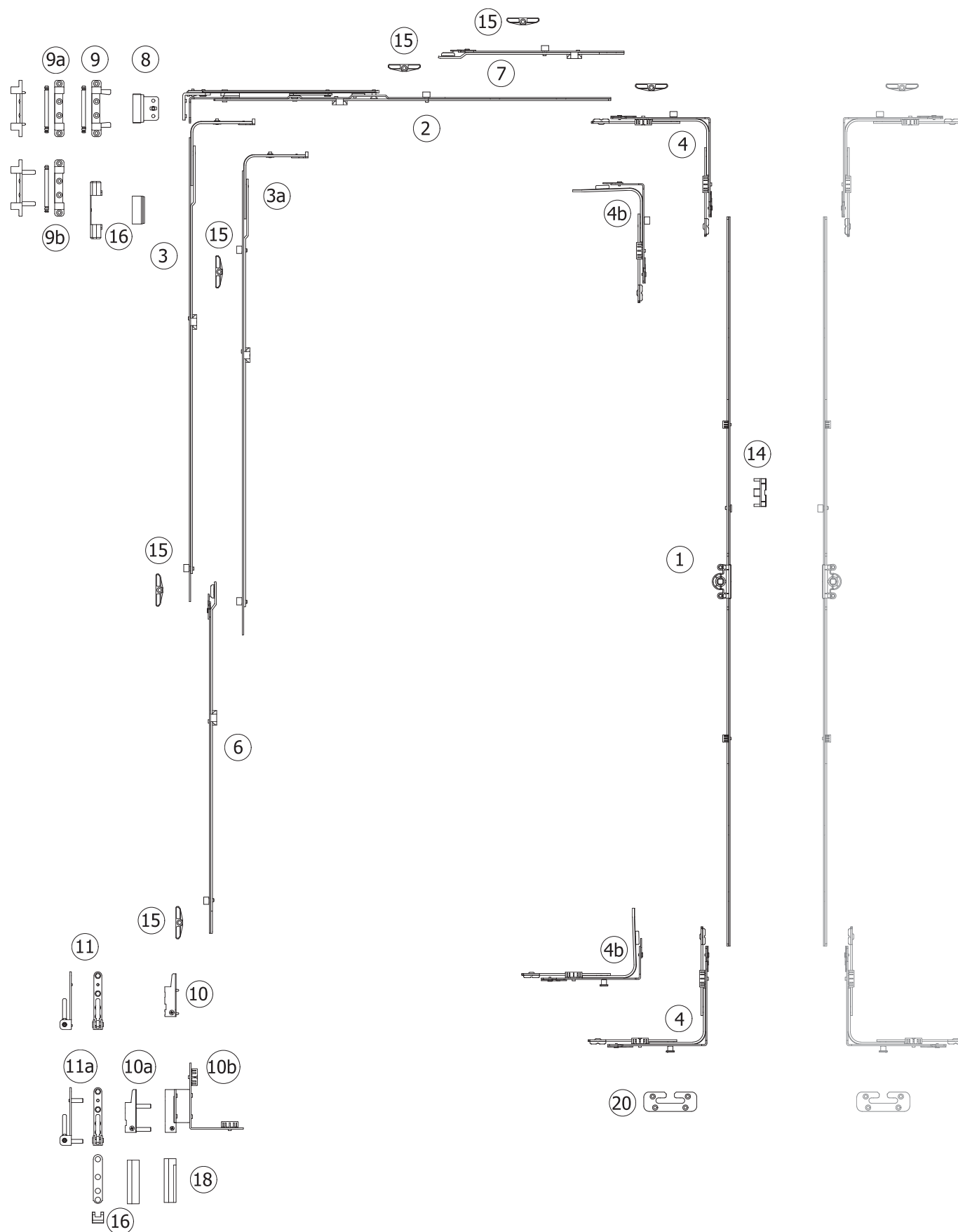
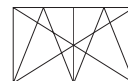
18 - Rebate hinge cover 01.TTS408.L1.\*\*\*\*

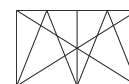
01.TTS408.R1.\*\*\*\*

19 - Locking plate Se see page 91

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

## Double sash, double tilt and turn with 2 handles





## Double sash, double tilt and turn with 2 handles

### 1 - Tilt & Turn Gear Variable (without ML)

| SRH         | Article No      |
|-------------|-----------------|
| 450 - 550   | 01.TTS100.00.00 |
| 550 - 700   | 01.TTS100.00.01 |
| 700 - 1200  | 01.TTS100.00.02 |
| 900 - 1400  | 01.TTS100.00.03 |
| 1200 - 1700 | 01.TTS100.00.04 |
| 1700 - 2200 | 01.TTS100.00.05 |
| 1900 - 2400 | 01.TTS100.00.06 |

### 2 - Stay arm

| SRW         | Article No      |
|-------------|-----------------|
| 350 - 600   | 01.TTS210.00.01 |
| 400 - 650   | 01.TTS210.00.02 |
| 600 - 850   | 01.TTS210.01.03 |
| 850 - 1100  | 01.TTS210.01.04 |
| 1100 - 1350 | 01.TTS210.01.05 |

### 3 - Middle lock

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.01.01 |
| 700 - 1200 *  | 01.TTS310.01.02 |
| 900 - 1400 *  | 01.TTS310.01.03 |
| 1200 - 1700 * | 01.TTS310.01.04 |
| 1700 - 2200   | 01.TTS310.01.05 |
| 1900 - 2400   | 01.TTS310.01.06 |

### 3a - Middle lock (with additional ML)

| SRH (SRW *)   | Article No      |
|---------------|-----------------|
| 450 - 700 *   | 01.TTS310.03.01 |
| 700 - 1200 *  | 01.TTS310.03.02 |
| 900 - 1400 *  | 01.TTS310.03.03 |
| 1200 - 1700 * | 01.TTS310.03.04 |
| 1700 - 2200   | 01.TTS310.03.05 |
| 1900 - 2400   | 01.TTS310.03.06 |

4 - Corner transmission 1 ML 01.TTS401.00.01

4b- Short corner transmission 01.TTS401.01.01

6 - Middle lock extension 500 01.TTS410.03.00 \*\*

7 - Extension lock L=250 01.TTS410.01.00

Extension lock L=500 01.TTS410.02.00

### 8 - Top sash hinge

| Fitting Axis | Article No      |
|--------------|-----------------|
| 9 / 20       | 01.TTS403.01.00 |
| 13 / 20      | 01.TTS403.02.00 |
| 14 / 20      | 01.TTS403.04.00 |

9 - Stay arm bearing 100 kg \*\*\* 01.TTS405.00.00

9a - Stay arm bearing 100 kg 01.TTS405.01.00

9b - Stay arm bearing 130 kg 01.TTS405.02.00

10 - Drill-in corner hinge 100 kg 01.TTS404.00.00

10a - Drill-in corner hinge 130 kg 01.TTS404.01.00

10b - Rebate corner hinge 13 mm, left 01.TTS600.L1.00

Rebate corner hinge 9 mm, left 01.TTS600.L2.00

Rebate corner hinge 13mm, right 01.TTS600.R1.00

Rebate corner hinge 9 mm, right 01.TTS600.R2.00

11 - Corner bearing 100 kg 01.TTS406.00.00

11a - Corner bearing 130 kg 01.TTS406.01.00

15 - Standard locking plate see page 91

16 - Hinge cover set 01.TTS408.00.\*\*\*\*

18 - Rebate hinge cover 01.TTS408.L1.\*\*\*\*

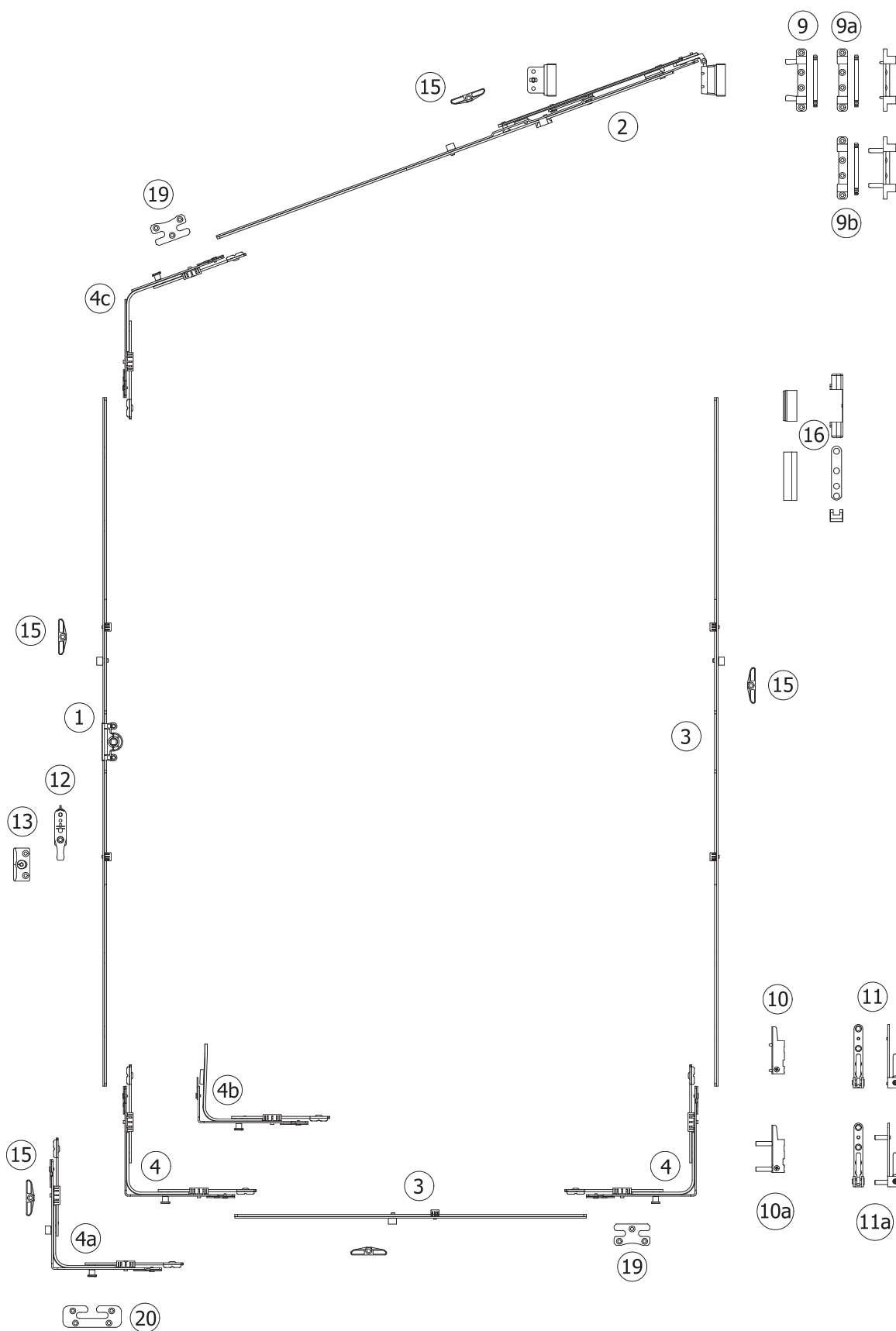
01.TTS408.R1.\*\*\*\*

19 - Locking plate Se see page 91

20 - Tilt locking plate Se see page 91

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

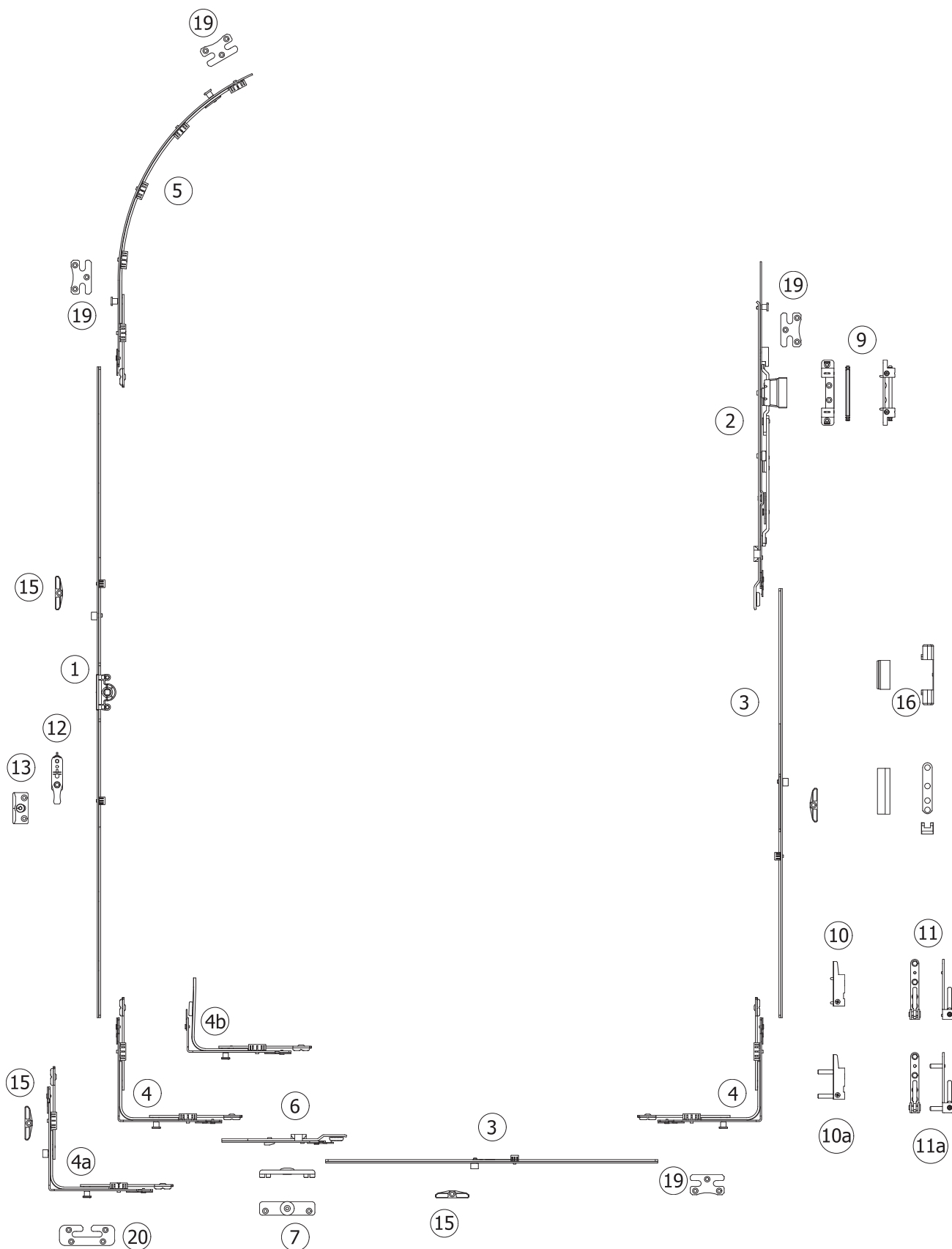
# Tilt & turn, Pitched window, Variable Handle Position



\_\_\_\_\_

- \* Only for horizontal use
- \*\* For Middle lock 04, 05 and 06
- \*\*\* With anchorage
- \*\*\*\* See page 6 - 7

# Tilt & turn, Arched window, Variable Handle Position





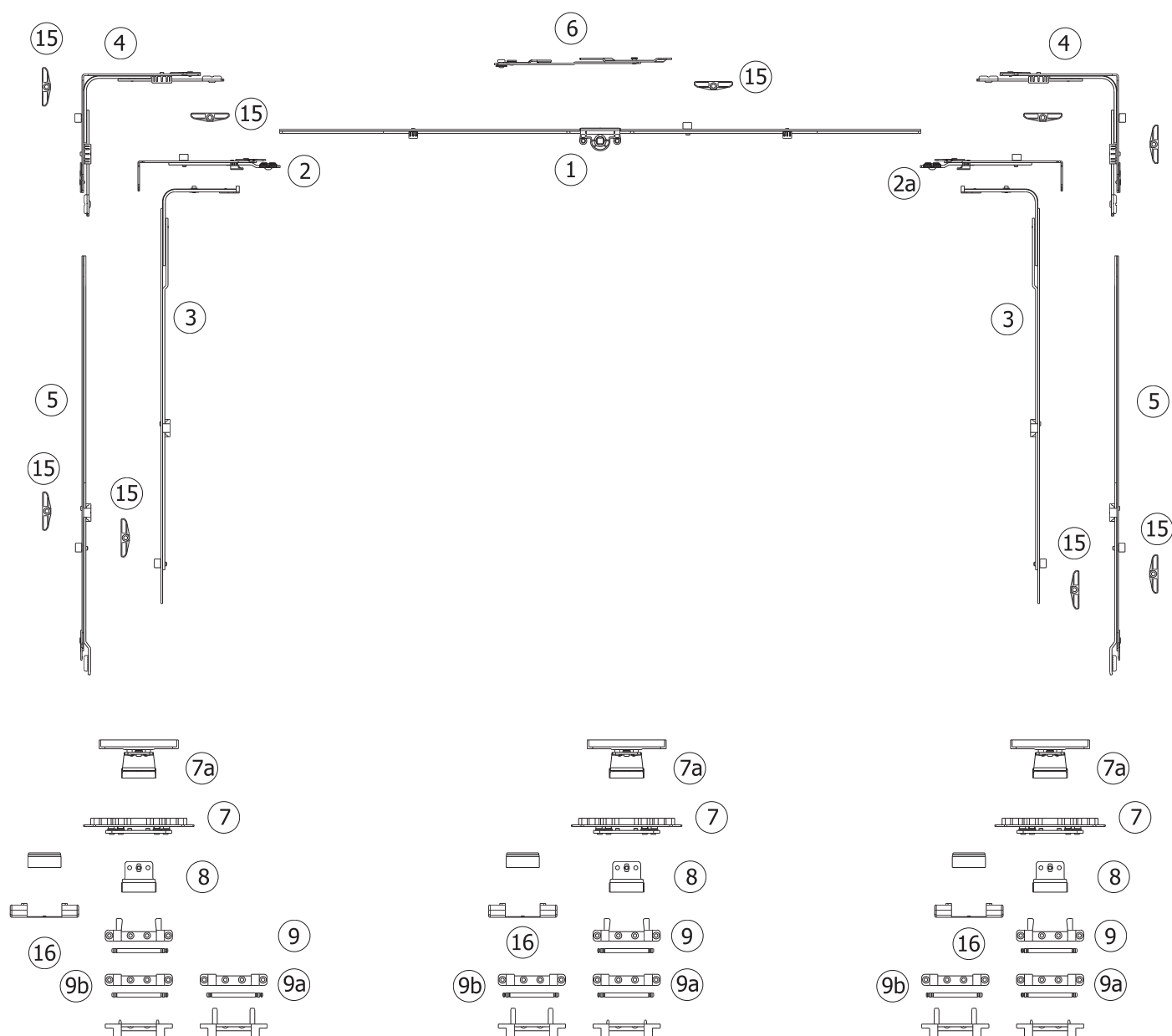


## Tilt & turn, Arched window, Variable Handle Position

| <p>1 - Tilt &amp; Turn Gear Variable (15 mm backset)</p> <table> <tr> <th>SRH</th><th>Article No</th></tr> <tr> <td>450 - 550</td><td>01.TTS100.00.00</td></tr> <tr> <td>550 - 700</td><td>01.TTS100.00.01</td></tr> <tr> <td>700 - 1200</td><td>01.TTS100.01.02</td></tr> <tr> <td>900 - 1400</td><td>01.TTS100.01.03</td></tr> <tr> <td>1200 - 1700</td><td>01.TTS100.01.04</td></tr> </table> | SRH                                                                                                                      | Article No | 450 - 550   | 01.TTS100.00.00 | 550 - 700   | 01.TTS100.00.01 | 700 - 1200   | 01.TTS100.01.02 | 900 - 1400 | 01.TTS100.01.03 | 1200 - 1700 | 01.TTS100.01.04 | <p>9 - Stay arm bearing for arched 01.TTS405.02.00</p>                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------------|-------------|-----------------|--------------|-----------------|------------|-----------------|-------------|-----------------|------------------------------------------------------------------------------------------------------------|
| SRH                                                                                                                                                                                                                                                                                                                                                                                              | Article No                                                                                                               |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 450 - 550                                                                                                                                                                                                                                                                                                                                                                                        | 01.TTS100.00.00                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 550 - 700                                                                                                                                                                                                                                                                                                                                                                                        | 01.TTS100.00.01                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 700 - 1200                                                                                                                                                                                                                                                                                                                                                                                       | 01.TTS100.01.02                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 900 - 1400                                                                                                                                                                                                                                                                                                                                                                                       | 01.TTS100.01.03                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 1200 - 1700                                                                                                                                                                                                                                                                                                                                                                                      | 01.TTS100.01.04                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| <p>2 - Stay arm for arched window 9 left 01.TTS403.L1.00<br/>         Stay arm for arched window 9 right 01.TTS403.R1.00<br/>         Stay arm for arched window 13 left 01.TTS403.L2.00<br/>         Stay arm for arched window 13 right 01.TTS403.R2.00</p>                                                                                                                                    | <p>10 - Drill-in corner hinge 100 kg 01.TTS404.00.00<br/>         10a - Drill-in corner hinge 130 kg 01.TTS404.01.00</p> |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| <p>3 - Middle connection lock</p> <table> <tr> <th>SRH (SRW *)</th><th>Article No</th></tr> <tr> <td>450 - 550 *</td><td>01.TTS410.07.00</td></tr> <tr> <td>550 - 700 *</td><td>01.TTS410.08.00</td></tr> <tr> <td>700 - 1200 *</td><td>01.TTS410.09.00</td></tr> <tr> <td>900 - 1400</td><td>01.TTS410.10.00</td></tr> <tr> <td>1200 - 1700</td><td>01.TTS410.11.00</td></tr> </table>          | SRH (SRW *)                                                                                                              | Article No | 450 - 550 * | 01.TTS410.07.00 | 550 - 700 * | 01.TTS410.08.00 | 700 - 1200 * | 01.TTS410.09.00 | 900 - 1400 | 01.TTS410.10.00 | 1200 - 1700 | 01.TTS410.11.00 | <p>11 - Corner bearing 100 kg 01.TTS406.00.00<br/>         11a - Corner bearing 130 kg 01.TTS406.01.00</p> |
| SRH (SRW *)                                                                                                                                                                                                                                                                                                                                                                                      | Article No                                                                                                               |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 450 - 550 *                                                                                                                                                                                                                                                                                                                                                                                      | 01.TTS410.07.00                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 550 - 700 *                                                                                                                                                                                                                                                                                                                                                                                      | 01.TTS410.08.00                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 700 - 1200 *                                                                                                                                                                                                                                                                                                                                                                                     | 01.TTS410.09.00                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 900 - 1400                                                                                                                                                                                                                                                                                                                                                                                       | 01.TTS410.10.00                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| 1200 - 1700                                                                                                                                                                                                                                                                                                                                                                                      | 01.TTS410.11.00                                                                                                          |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| <p>4 - Corner transmission 1 SeML 01.TTS401.00.02<br/>         4a- Corner transmission 2 SeML 01.TTS401.00.22<br/>         4b- Short corner transmission Se 01.TTS401.01.02</p>                                                                                                                                                                                                                  | <p>12 - Wrong op. safety device with sash lifter 01.TTS409.00.00</p>                                                     |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| <p>5 - Extension lock for arched window 01.TTS410.04.00</p>                                                                                                                                                                                                                                                                                                                                      | <p>13 - Lifting plate see page 91</p>                                                                                    |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| <p>6 - Sash positioning extension</p>                                                                                                                                                                                                                                                                                                                                                            | <p>15 - Standard locking plate see page 91</p>                                                                           |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
| <p>7 - Sash positioning plate</p>                                                                                                                                                                                                                                                                                                                                                                | <p>16 - Hinge cover set for arched 01.TTS408.00.****</p>                                                                 |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                  | <p>19 - Locking plate Se see page 91</p>                                                                                 |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                  | <p>20 - Tilt locking plate Se see page 91</p>                                                                            |            |             |                 |             |                 |              |                 |            |                 |             |                 |                                                                                                            |

\* Only for horizontal use  
 \*\* For Middle lock 04, 05 and 06  
 \*\*\* With anchorage  
 \*\*\*\* See page 6 - 7

## Bottom hung, Variable Handle Position



- \* Only for horizontal use
- \*\* For Middle lock 04, 05 and 06
- \*\*\* With anchorage
- \*\*\*\* See page 6 - 7

## Bottom hung, Variable Handle Position



|                                               |                   |
|-----------------------------------------------|-------------------|
| 1 - Tilt & Turn Gear Variable (15 mm backset) |                   |
| <u>SRW</u>                                    | <u>Article No</u> |
| 450 - 550                                     | 01.TTS100.00.00   |
| 550 - 700                                     | 01.TTS100.00.01   |
| 700 - 1200                                    | 01.TTS100.01.02   |
| 900 - 1400                                    | 01.TTS100.01.03   |
| 1200 - 1700                                   | 01.TTS100.01.04   |

|                           |                 |
|---------------------------|-----------------|
| 2 - Bottom extension 180° | 01.TTS402.21.00 |
| 2a - Bottom extension 90° | 01.TTS402.22.00 |

|                 |                   |
|-----------------|-------------------|
| 3 - Middle lock |                   |
| <u>SRH</u>      | <u>Article No</u> |
| 450 - 700       | 01.TTS310.01.01   |
| 700 - 1200      | 01.TTS310.01.02   |
| 900 - 1400      | 01.TTS310.01.03   |
| 1200 - 1700     | 01.TTS310.01.04   |

|                              |                 |
|------------------------------|-----------------|
| 4 - Corner transmission 1 ML | 01.TTS401.00.01 |
|------------------------------|-----------------|

|                          |                 |
|--------------------------|-----------------|
| 5 - Extension lock L=250 | 01.TTS410.01.00 |
| Extension lock L=500     | 01.TTS410.02.00 |

|                   |                 |
|-------------------|-----------------|
| 6 - Tilt stay arm | 01.VVV007.00.00 |
|-------------------|-----------------|

|                                     |                 |
|-------------------------------------|-----------------|
| 7 - 3D Adjustable middle hinge      | 01.TTS600.01.00 |
| 7a- 2D Adjustable middle hinge 9 mm | 01.TTS600.09.00 |
| 13 mm                               | 01.TTS600.13.00 |

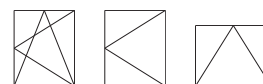
|                     |                   |
|---------------------|-------------------|
| 8 - Top sash hinge  |                   |
| <u>Fitting Axis</u> | <u>Article No</u> |
| 9 / 20              | 01.TTS403.01.00   |
| 13 / 20             | 01.TTS403.02.00   |
| 14 / 20             | 01.TTS403.04.00   |

|                                 |                 |
|---------------------------------|-----------------|
| 9 - Stay arm bearing 100 kg *** | 01.TTS405.00.00 |
| 9a - Stay arm bearing 100 kg    | 01.TTS405.01.00 |
| 9b - Stay arm bearing 130 kg    | 01.TTS405.02.00 |

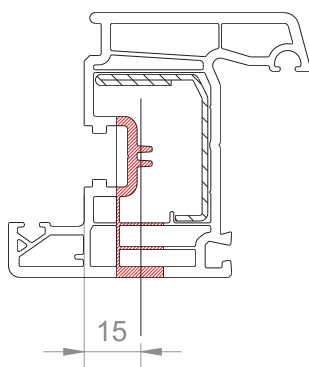
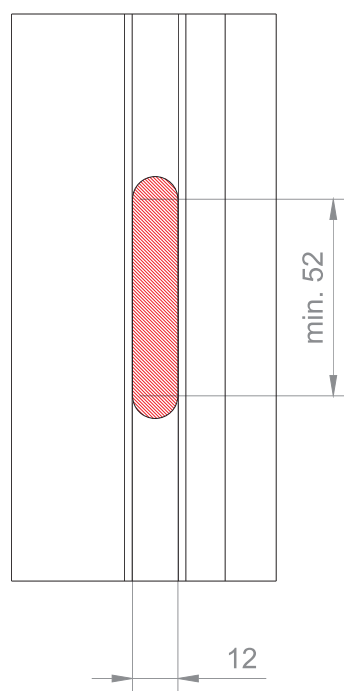
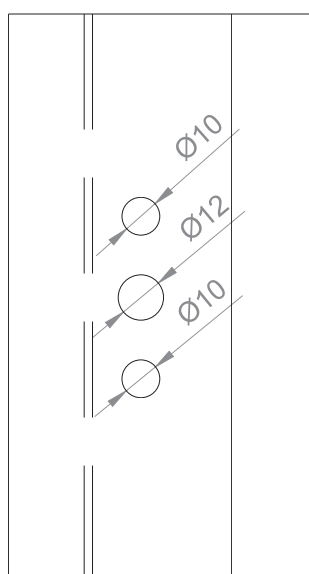
|                             |             |
|-----------------------------|-------------|
| 15 - Standard locking plate | see page 91 |
|-----------------------------|-------------|

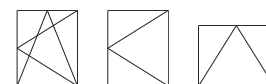
|                             |                   |
|-----------------------------|-------------------|
| 16 - Middle hinge cover set | 01.TTS408.01.**** |
|-----------------------------|-------------------|

## Tilt & turn gear 15 mm backset, Variable Handle Position

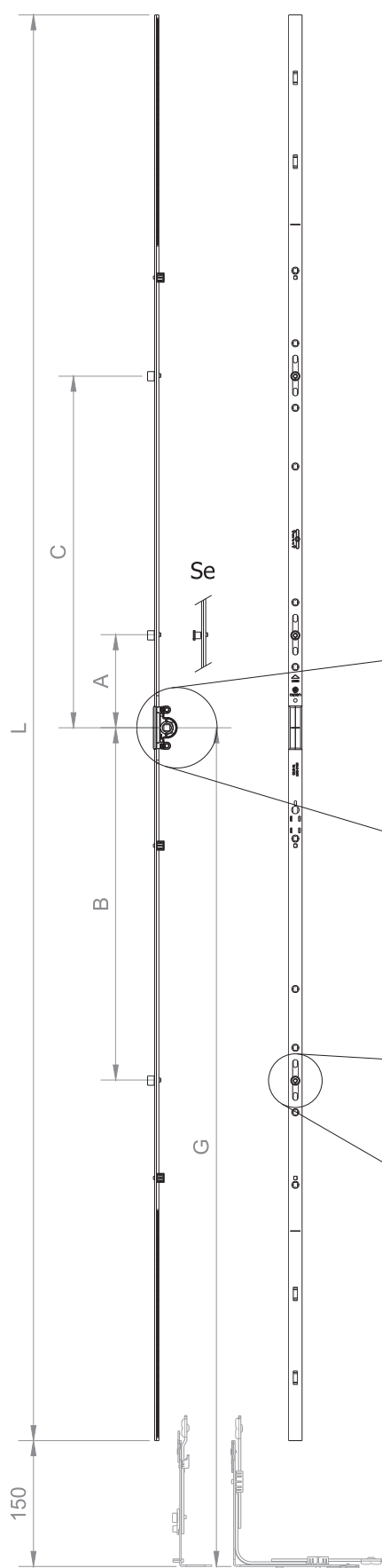


Drilling and milling for tilt & turn gear 15 mm backset





## Tilt & turn gear 15 mm backset, Variable Handle Position

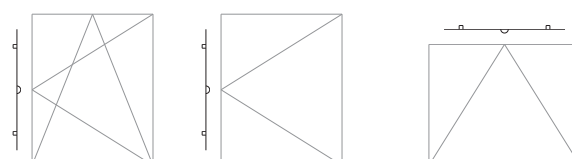


Tilt & turn gear 15 mm backset

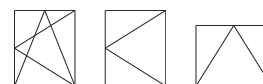
| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS100.00.00 | 450 - 550   | 250  | 225 - 275  | -   | -   | -   | -                                                                                   | 20                                                                                  |
| 01.TTS100.00.01 | 550 - 700   | 400  | 275 - 350  | -   | -   | -   | 2                                                                                   | 20                                                                                  |
| 01.TTS100.01.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                   | 20                                                                                  |
| 01.TTS100.01.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                   | 20                                                                                  |
| 01.TTS100.01.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS100.01.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS100.01.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

Tilt & turn gear Se 15 mm backset

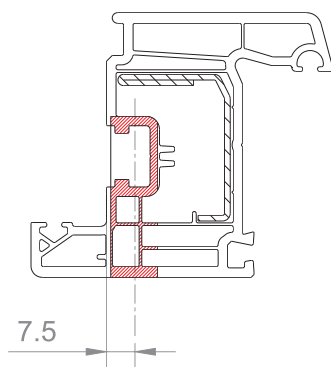
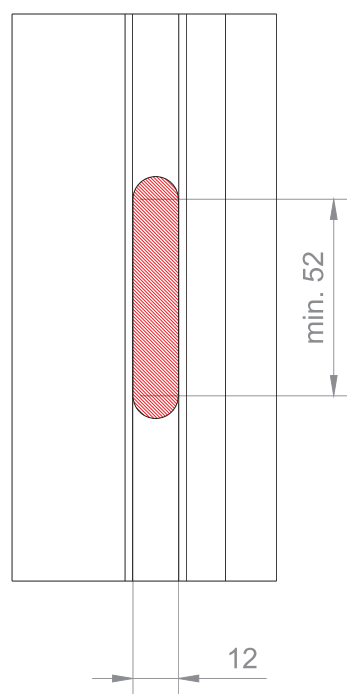
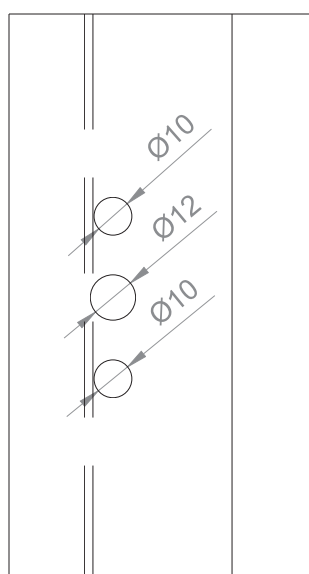
| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS100.02.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                   | 20                                                                                  |
| 01.TTS100.02.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                   | 20                                                                                  |
| 01.TTS100.02.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS100.02.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS100.02.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

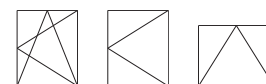


## Tilt & turn gear 7,5 mm backset, Variable Handle Position



Drilling and milling for tilt & turn gear 7,5 mm backset





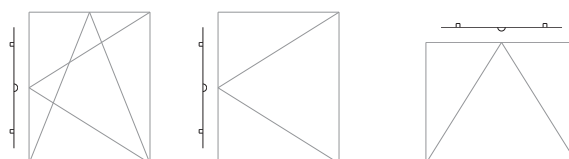
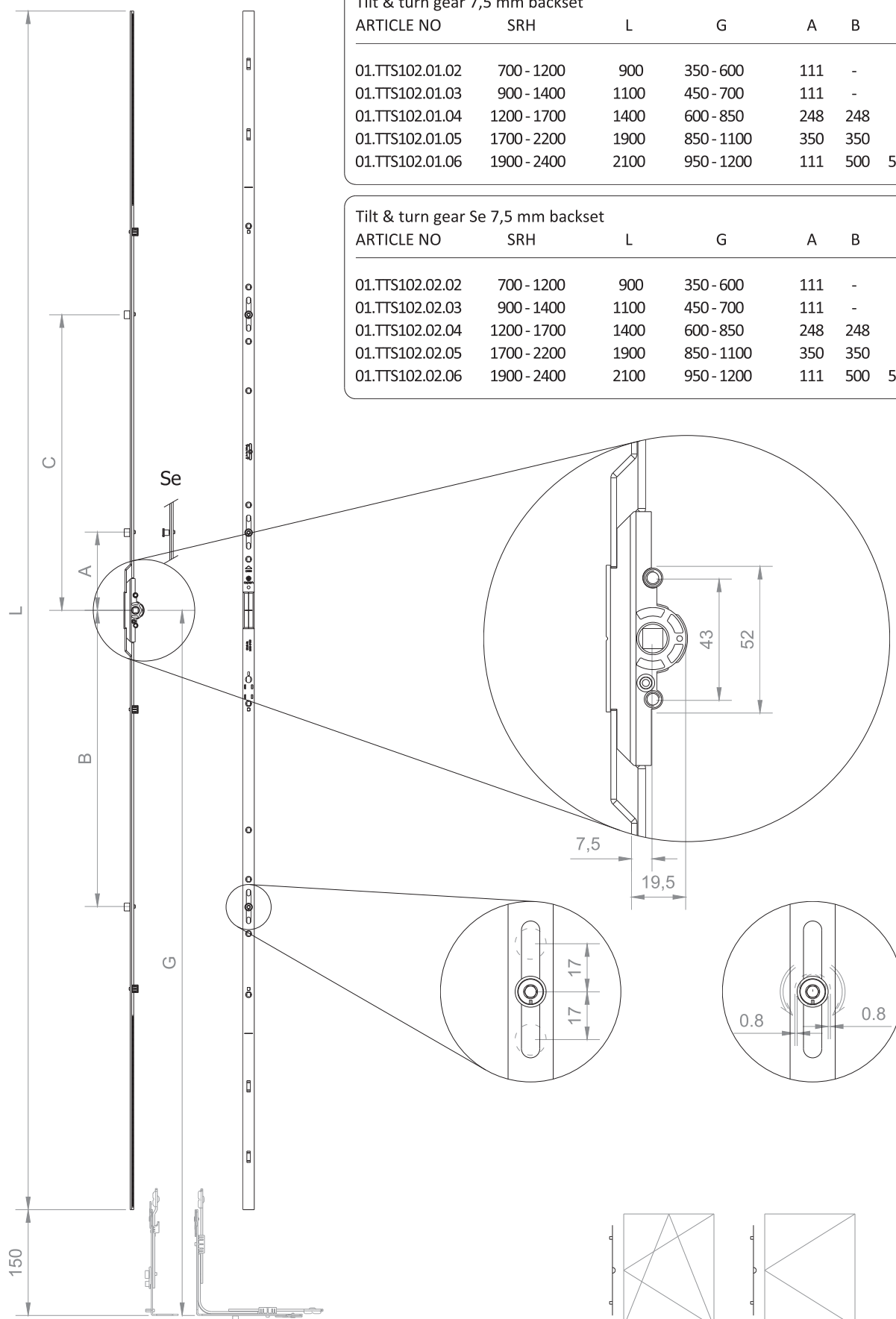
## Tilt & turn gear 7,5 mm backset, Variable Handle Position

Tilt & turn gear 7,5 mm backset

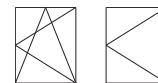
| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS102.01.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                   | 20                                                                                  |
| 01.TTS102.01.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                   | 20                                                                                  |
| 01.TTS102.01.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS102.01.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS102.01.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

Tilt & turn gear Se 7,5 mm backset

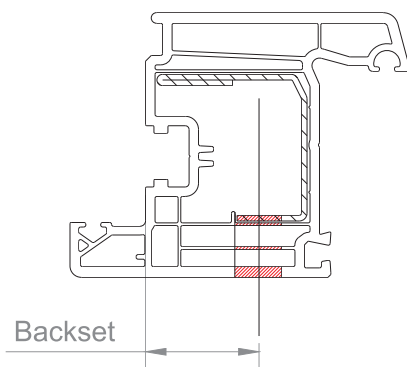
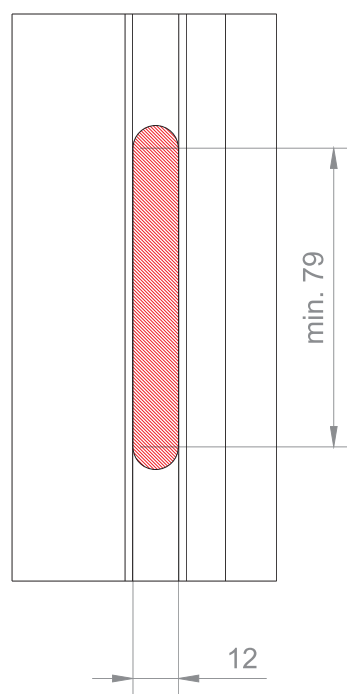
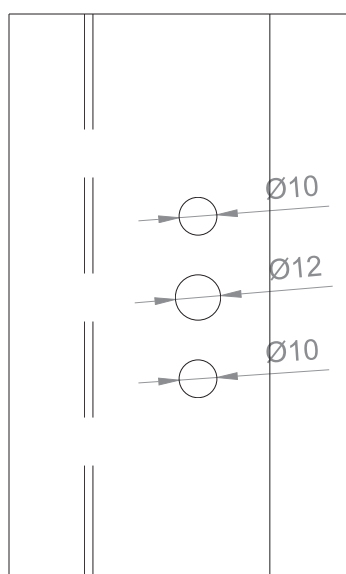
| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS102.02.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                   | 20                                                                                  |
| 01.TTS102.02.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                   | 20                                                                                  |
| 01.TTS102.02.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS102.02.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS102.02.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |



## Tilt & turn gear 25 / 30 / 40 mm backset, Variable Handle Position



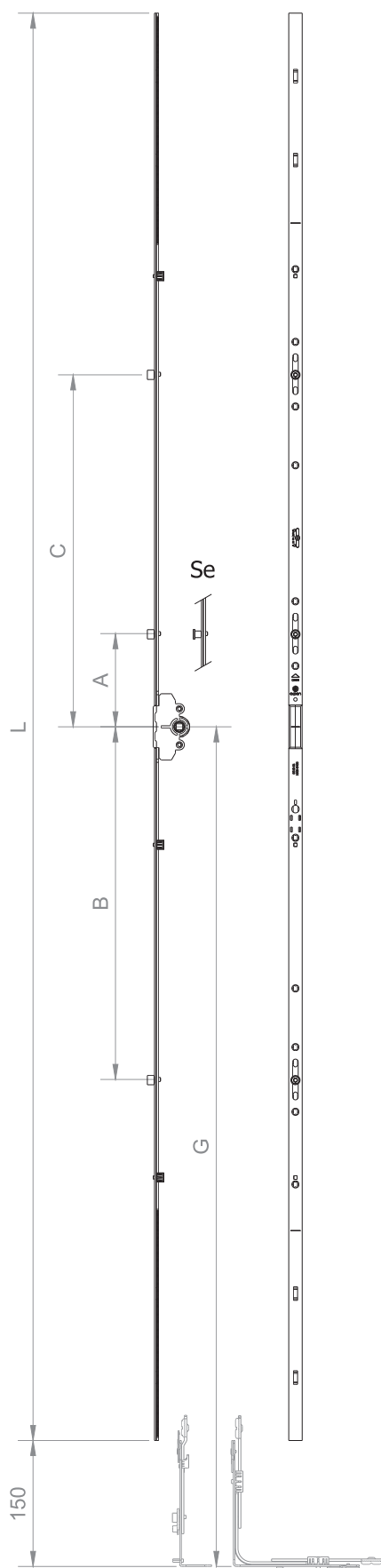
Drilling and milling for tilt & turn gear 25 / 30 / 40 mm backset







## Tilt & turn gear 25 / 30 / 40 mm backset, Variable Handle Position



### Tilt & turn gear 25 mm backset

| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS105.00.01 | 550 - 700   | 400  | 275 - 350  | -   | -   | -   | 2                                                                                   | 20                                                                                  |
| 01.TTS105.01.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                   | 20                                                                                  |
| 01.TTS105.01.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                   | 20                                                                                  |
| 01.TTS105.01.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS105.01.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS105.01.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

### Tilt & turn gear Se 25 mm backset

| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS105.02.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                   | 20                                                                                  |
| 01.TTS105.02.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                   | 20                                                                                  |
| 01.TTS105.02.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS105.02.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS105.02.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

### Tilt & turn gear 30 mm backset

| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 01.TTS102.00.01 | 550 - 700   | 400  | 275 - 350  | -   | -   | -   | 2                                                                                    | 20                                                                                   |
| 01.TTS102.01.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                    | 20                                                                                   |
| 01.TTS102.01.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                    | 20                                                                                   |
| 01.TTS102.01.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                    | 20                                                                                   |
| 01.TTS102.01.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                    | 20                                                                                   |
| 01.TTS102.01.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                   | 20                                                                                   |

### Tilt & turn gear Se 30 mm backset

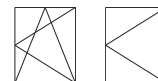
| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS102.02.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                     | 20                                                                                    |
| 01.TTS102.02.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                     | 20                                                                                    |
| 01.TTS102.02.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS102.02.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS102.02.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                    | 20                                                                                    |

### Tilt & turn gear 40 mm backset

| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS104.00.01 | 550 - 700   | 400  | 275 - 350  | -   | -   | -   | 2                                                                                     | 20                                                                                    |
| 01.TTS104.01.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                     | 20                                                                                    |
| 01.TTS104.01.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                     | 20                                                                                    |
| 01.TTS104.01.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS104.01.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS104.01.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                    | 20                                                                                    |

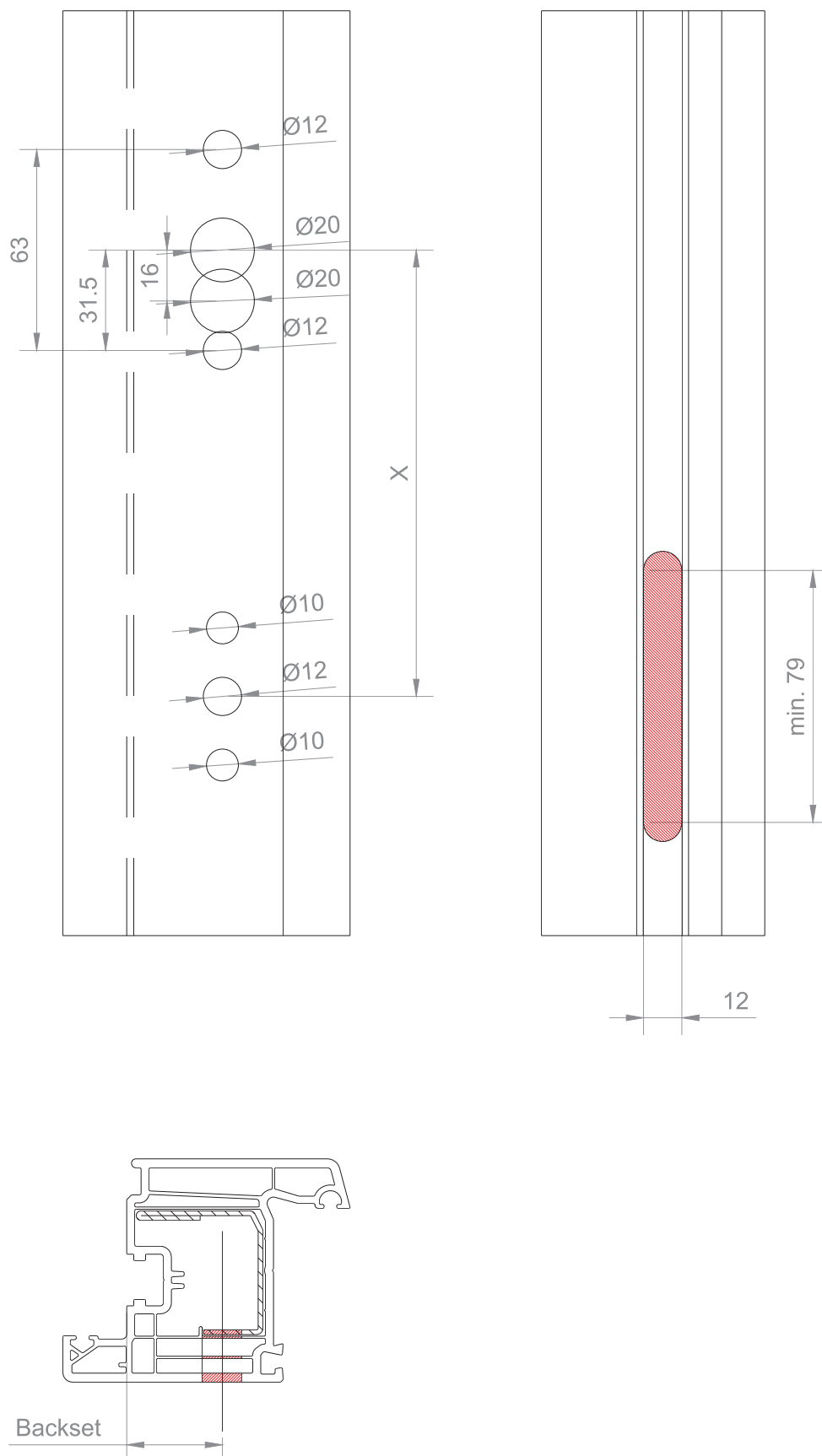
### Tilt & turn gear Se 40 mm backset

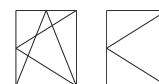
| ARTICLE NO      | SRH         | L    | G          | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS104.02.02 | 700 - 1200  | 900  | 350 - 600  | 111 | -   | -   | 3                                                                                     | 20                                                                                    |
| 01.TTS104.02.03 | 900 - 1400  | 1100 | 450 - 700  | 111 | -   | -   | 5                                                                                     | 20                                                                                    |
| 01.TTS104.02.04 | 1200 - 1700 | 1400 | 600 - 850  | 248 | 248 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS104.02.05 | 1700 - 2200 | 1900 | 850 - 1100 | 350 | 350 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS104.02.06 | 1900 - 2400 | 2100 | 950 - 1200 | 111 | 500 | 500 | 11                                                                                    | 20                                                                                    |



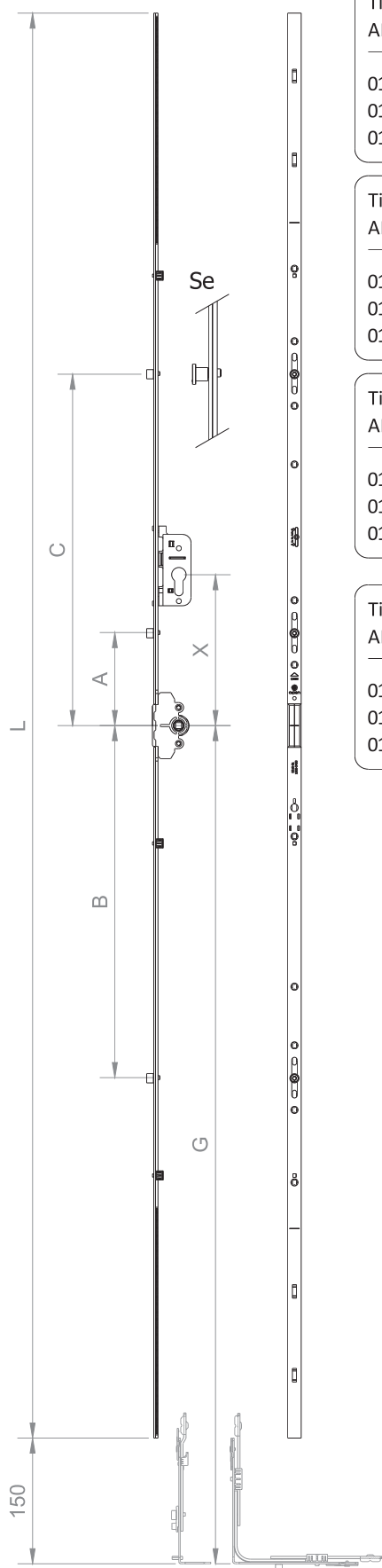
## Tilt & turn lockable gear 25 / 30 / 40 mm backset, Variable Handle Position

Drilling and milling for tilt & turn lockable gear 25 / 30 / 40 mm backset





## Tilt & turn lockable gear 25 / 30 / 40 mm backset, Variable Handle Position



### Tilt & turn gear 25 mm backset, lockable

| ARTICLE NO      | SRH         | L    | G          | X   | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS106.01.04 | 1200 - 1700 | 1400 | 600 - 850  | 140 | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS106.01.05 | 1700 - 2200 | 1900 | 850 - 1100 | 180 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS106.01.06 | 1900 - 2400 | 2100 | 950 - 1200 | 180 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

### Tilt & turn gear 25 mm backset, lockable

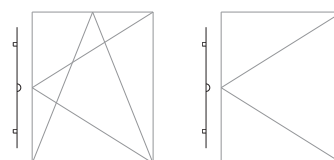
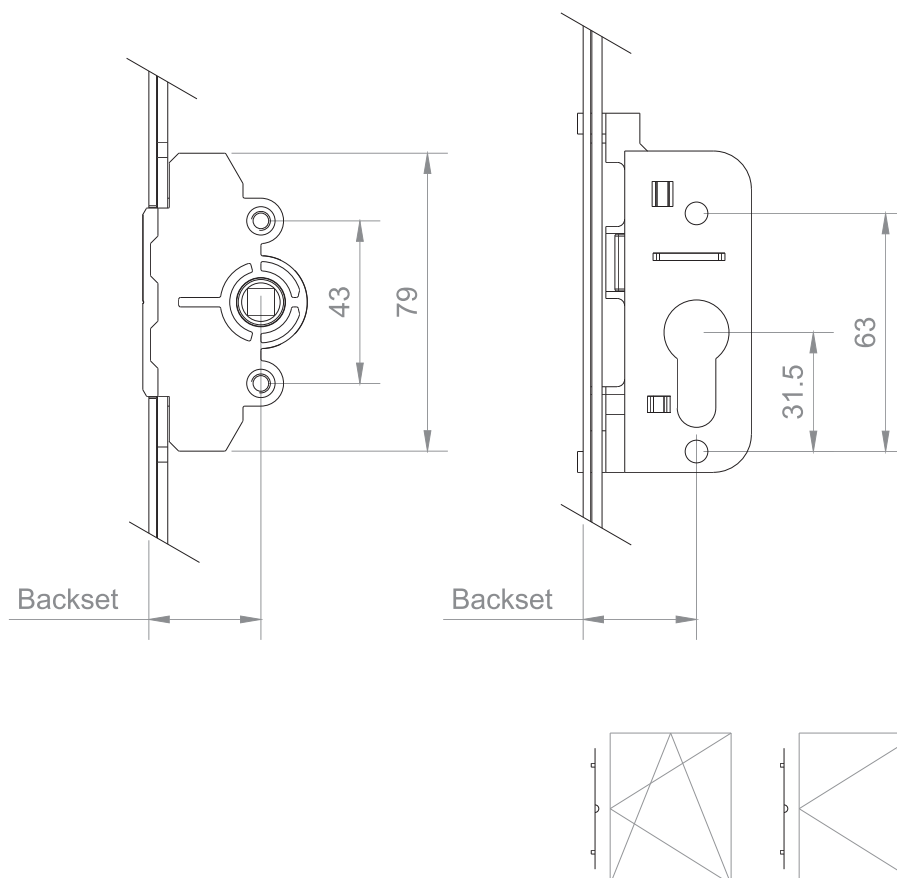
| ARTICLE NO      | SRH         | L    | G          | X   | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS106.02.04 | 1200 - 1700 | 1400 | 600 - 850  | 140 | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS106.02.05 | 1700 - 2200 | 1900 | 850 - 1100 | 180 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS106.02.06 | 1900 - 2400 | 2100 | 950 - 1200 | 180 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

### Tilt & turn gear 30 mm backset, lockable

| ARTICLE NO      | SRH         | L    | G          | X   | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TTS103.01.04 | 1200 - 1700 | 1400 | 600 - 850  | 140 | 248 | 248 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS103.01.05 | 1700 - 2200 | 1900 | 850 - 1100 | 180 | 350 | 350 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS103.01.06 | 1900 - 2400 | 2100 | 950 - 1200 | 180 | 111 | 500 | 500 | 11                                                                                  | 20                                                                                  |

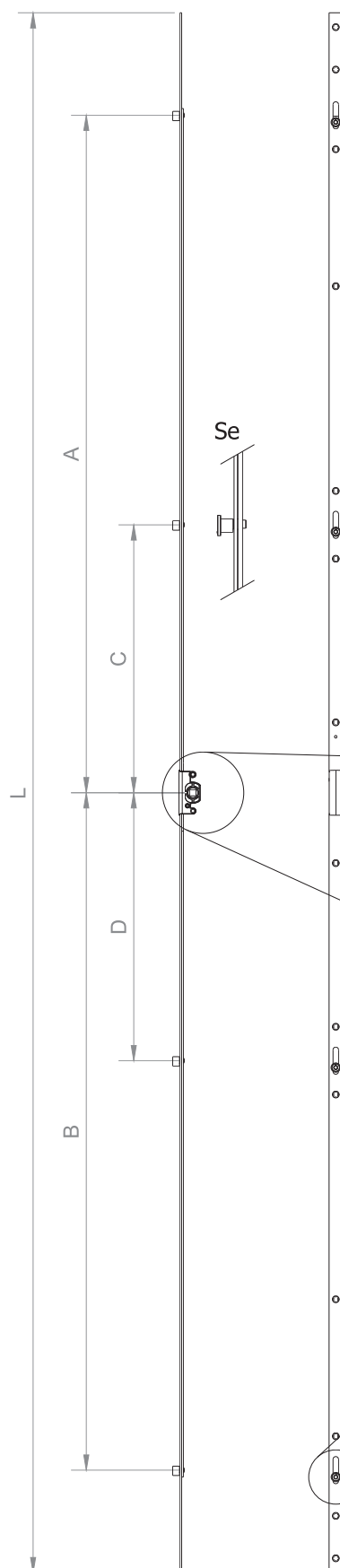
### Tilt & turn gear 30 mm backset, lockable

| ARTICLE NO      | SRH         | L    | G          | X   | A   | B   | C   |  |  |
|-----------------|-------------|------|------------|-----|-----|-----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS103.02.04 | 1200 - 1700 | 1400 | 600 - 850  | 140 | 248 | 248 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS103.02.05 | 1700 - 2200 | 1900 | 850 - 1100 | 180 | 350 | 350 | -   | 8                                                                                     | 20                                                                                    |
| 01.TTS103.02.06 | 1900 - 2400 | 2100 | 950 - 1200 | 180 | 111 | 500 | 500 | 11                                                                                    | 20                                                                                    |





## Side hung gear 15 mm backset, zinc gear box, Variable Handle Position

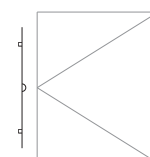


Side hung gear 15 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI200.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI200.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI200.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI200.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI200.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI200.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI200.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI200.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI200.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI200.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

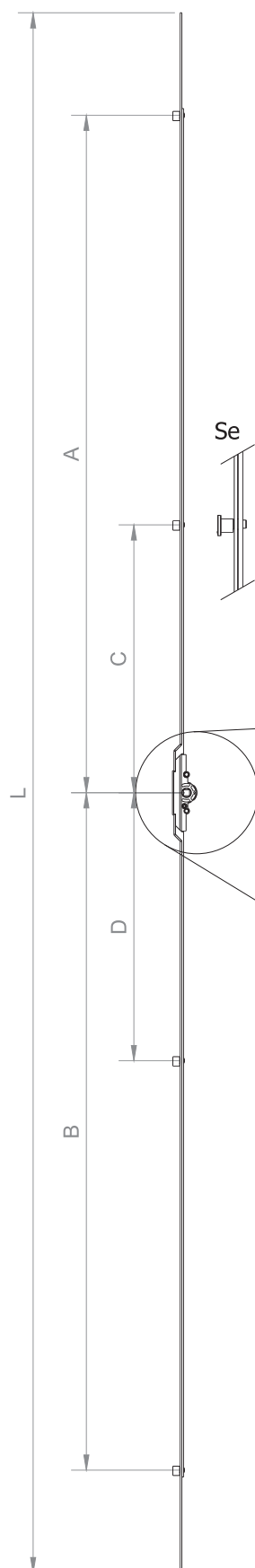
Side hung gear Se 15 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI201.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI201.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI201.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI201.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI201.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI201.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI201.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI201.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI201.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI201.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |





## Side hung gear 7,5 mm backset, zinc gear box, Variable Handle Position

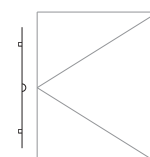
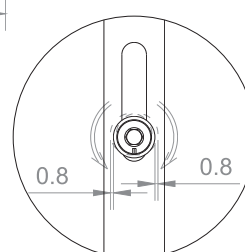
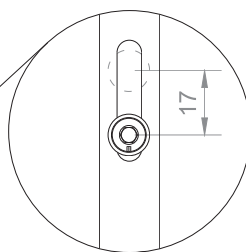
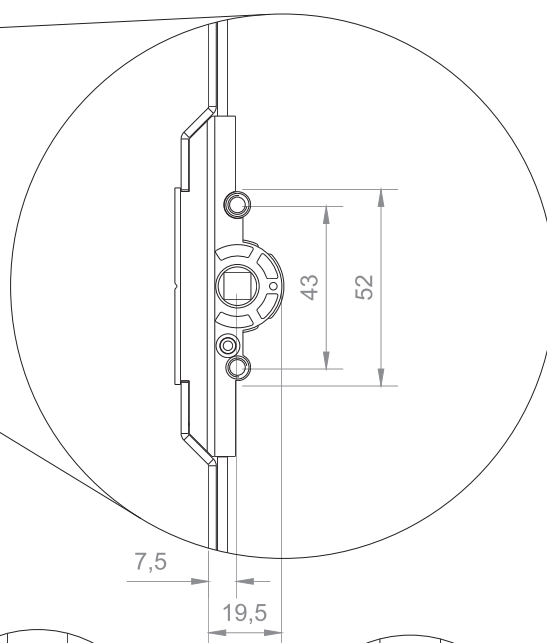


Side hung gear 7,5 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI100.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI100.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI100.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI100.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI100.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI100.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI100.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI100.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI100.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

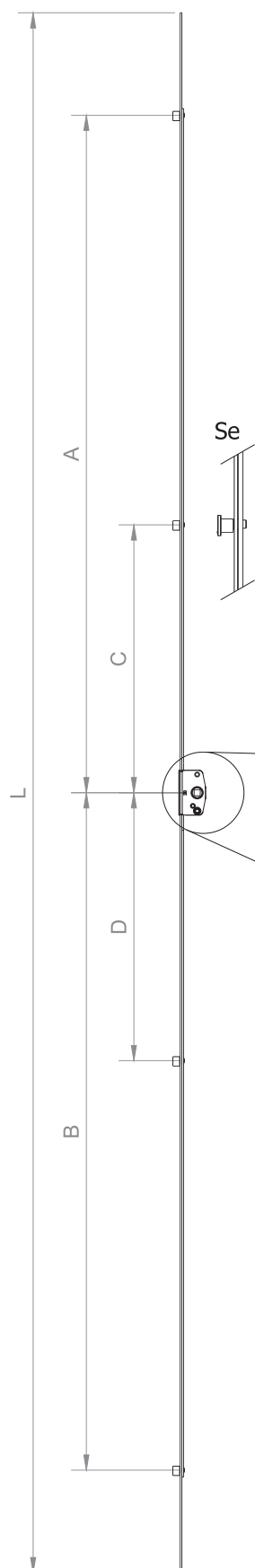
Side hung gear Se 7,5 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI101.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI101.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI101.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI101.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI101.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI101.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI101.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI101.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI101.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |





## Side hung gear 20 mm backset, zinc gear box, Variable Handle Position

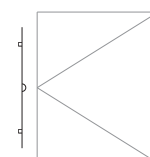
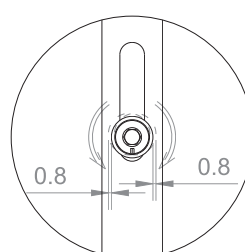
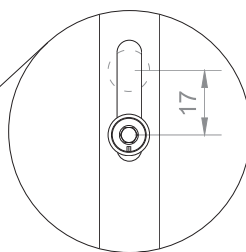
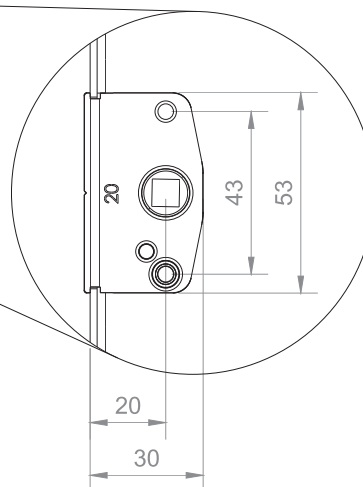


Side hung gear 20 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI300.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI300.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI300.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI300.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI300.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI300.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI300.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI300.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI300.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI300.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

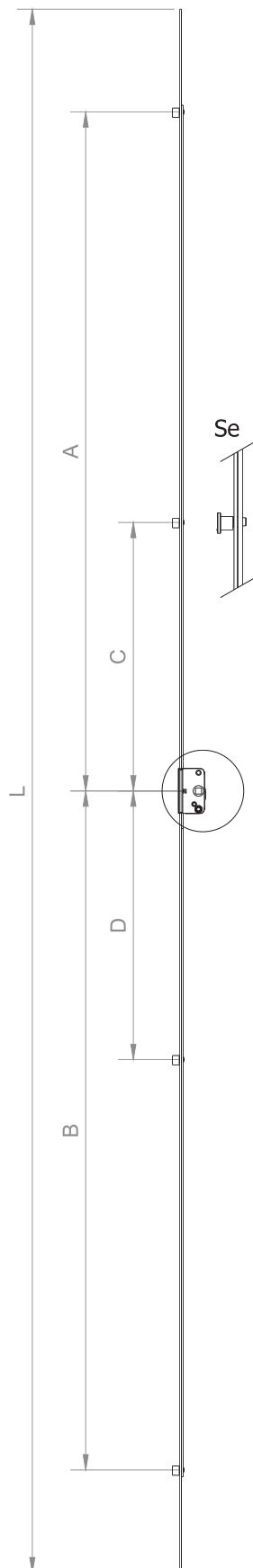
Side hung gear Se 20 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI301.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI301.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI301.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI301.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI301.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI301.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI301.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI301.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI301.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI301.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |





## Side hung gear 22 mm backset, zinc gear box, Variable Handle Position

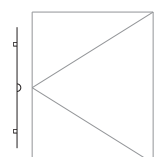
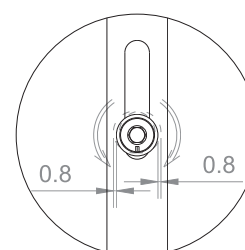
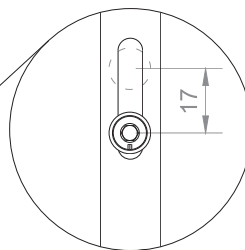
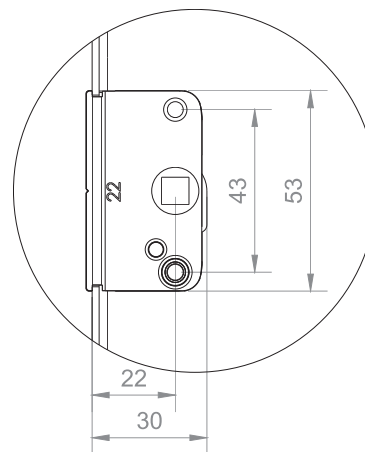


Side hung gear 22 mm backset, zinc gear box

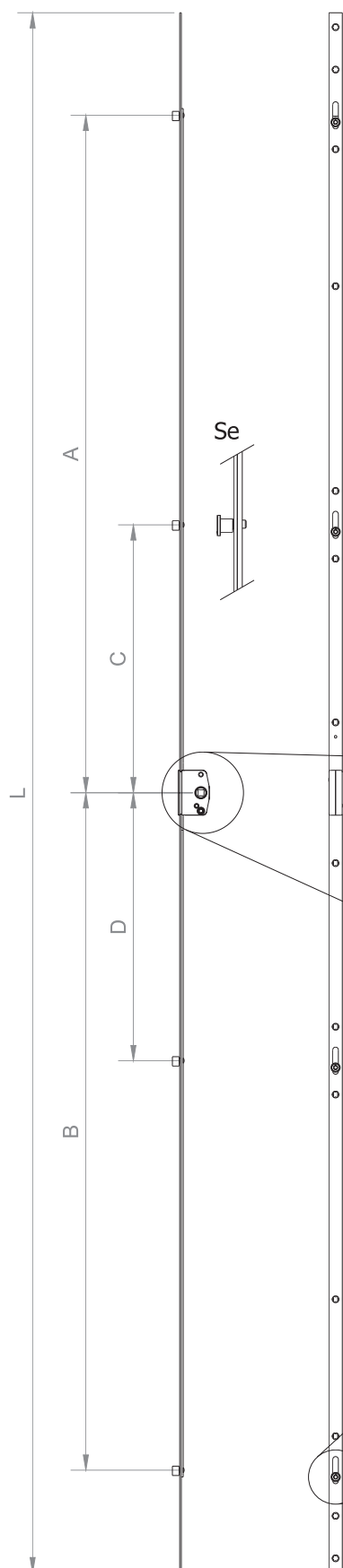
| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI400.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI400.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI400.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI400.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI400.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI400.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI400.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI400.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI400.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI400.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

Side hung gear Se 22 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI401.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI401.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI401.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI401.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI401.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI401.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI401.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI401.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI401.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI401.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |



## Side hung gear 25 mm backset, zinc gear box, Variable Handle Position

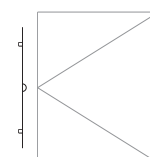
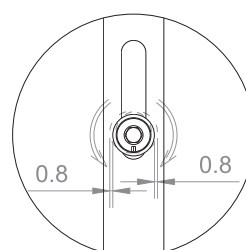
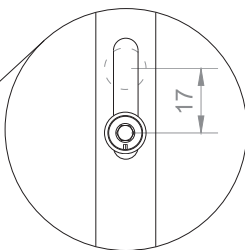
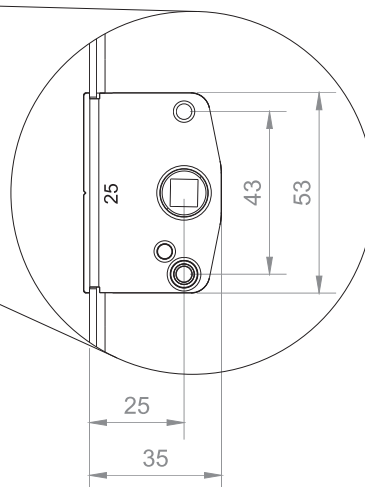


Side hung gear 25 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI500.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI500.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI500.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI500.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI500.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI500.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI500.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI500.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI500.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI500.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

Side hung gear Se 25 mm backset, zinc gear box

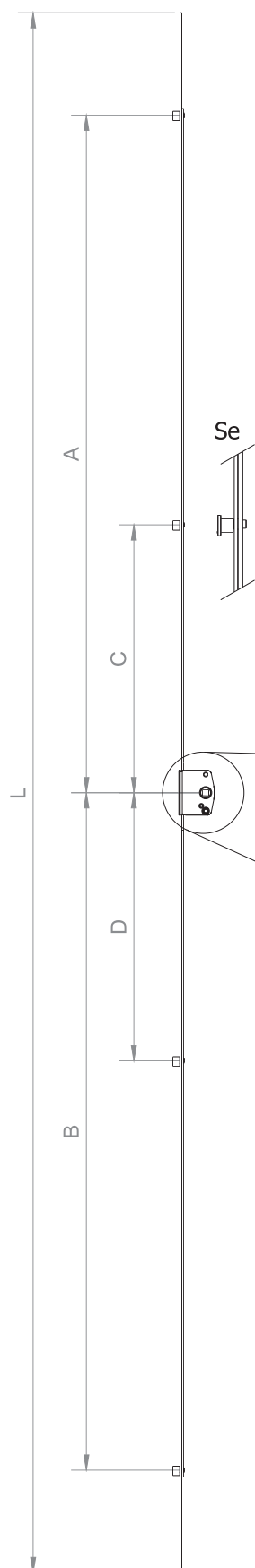
| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI501.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI501.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI501.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI501.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI501.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI501.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI501.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI501.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI501.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI501.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |







## Side hung gear 30 mm backset, zinc gear box, Variable Handle Position

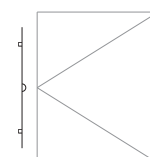
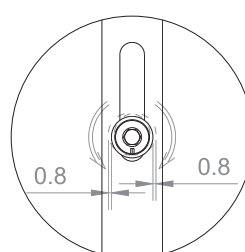
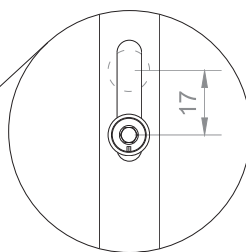
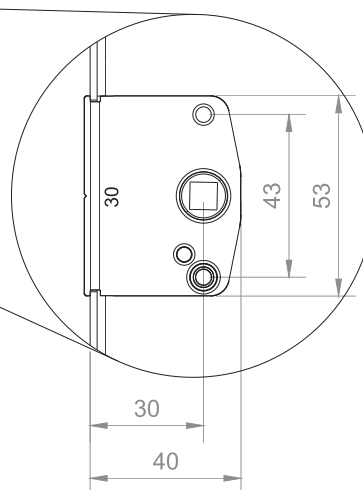


Side hung gear 30 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI700.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI700.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI700.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI700.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI700.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI700.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI700.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI700.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI700.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI700.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

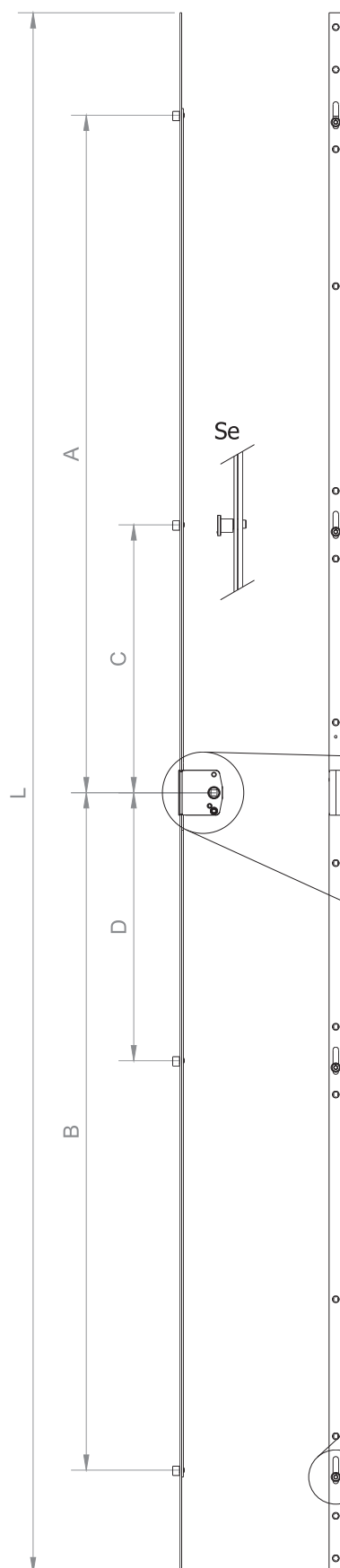
Side hung gear Se 30 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI701.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI701.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI701.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI701.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI701.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI701.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI701.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI701.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI701.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI701.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |





## Side hung gear 40 mm backset, zinc gear box, Variable Handle Position

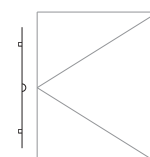
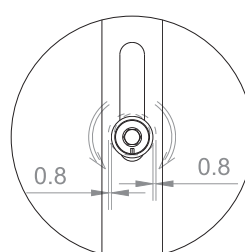
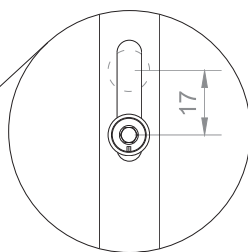
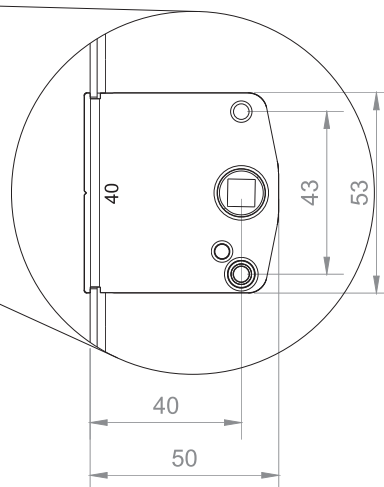


Side hung gear 40 mm backset, zinc gear box

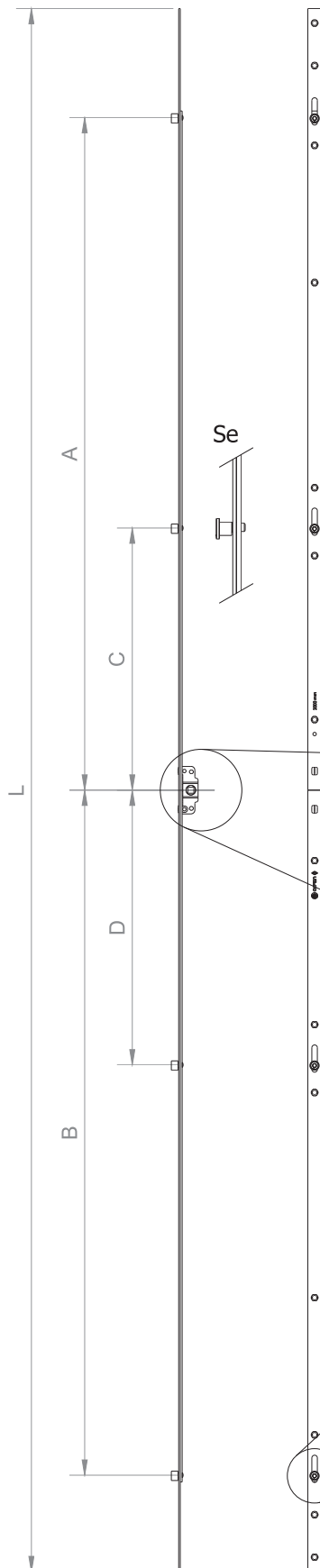
| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI600.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI600.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI600.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI600.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI600.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI600.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI600.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI600.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI600.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI600.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

Side hung gear Se 40 mm backset, zinc gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI601.01.00 | 300 - 400   | 300  | 84  | 102 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI601.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI601.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI601.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI601.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI601.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI601.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI601.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI601.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI601.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |



## Side hung gear 15 mm backset, steel gear box, Variable Handle Position

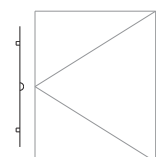


Side hung gear 15 mm backset, steel gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI210.01.00 | 300 - 400   | 300  | 90  | 106 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI210.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI210.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI210.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI210.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI210.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI210.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI210.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI210.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI210.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

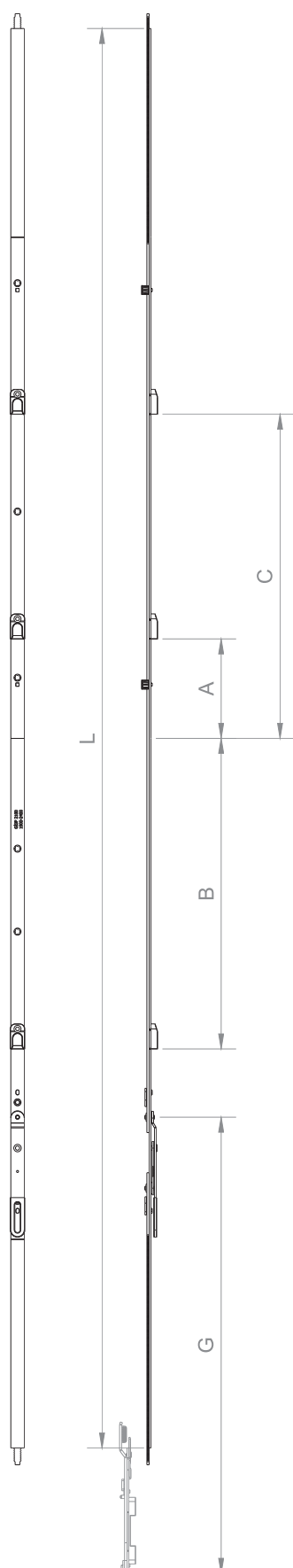
Side hung gear Se 15 mm backset, steel gear box

| ARTICLE NO      | SRH         | L    | A   | B   | C   | D   |  |  |
|-----------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 01.TAI211.01.00 | 300 - 400   | 300  | 90  | 106 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI211.02.00 | 400 - 600   | 400  | 134 | 152 | -   | -   | 4                                                                                   | 20                                                                                  |
| 01.TAI211.03.00 | 600 - 800   | 600  | 171 | 187 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI211.04.00 | 800 - 1000  | 800  | 271 | 287 | -   | -   | 8                                                                                   | 20                                                                                  |
| 01.TAI211.05.00 | 1000 - 1200 | 1000 | 371 | 387 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI211.06.00 | 1200 - 1400 | 1200 | 471 | 487 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI211.07.00 | 1400 - 1600 | 1400 | 571 | 587 | 90  | -   | 11                                                                                  | 20                                                                                  |
| 01.TAI211.08.00 | 1600 - 1800 | 1600 | 671 | 687 | 240 | 258 | 14                                                                                  | 20                                                                                  |
| 01.TAI211.09.00 | 1800 - 2000 | 1800 | 771 | 787 | 273 | 289 | 14                                                                                  | 20                                                                                  |
| 01.TAI211.10.00 | 2000 - 2200 | 2000 | 871 | 887 | 308 | 324 | 14                                                                                  | 20                                                                                  |

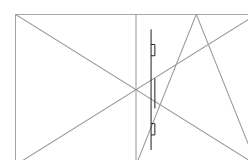


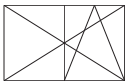


## Double sash gear, Variable Handle Position

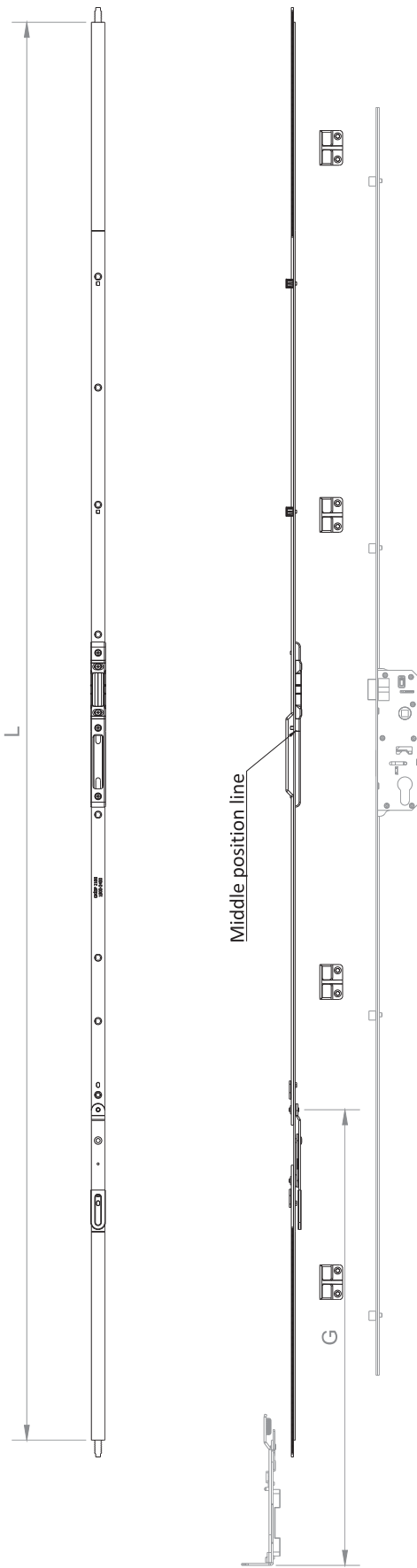


| Double sash gear, variable handle position |             |      |     |     |     |     |                                                                                     |                                                                                     |
|--------------------------------------------|-------------|------|-----|-----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ARTICLE NO                                 | SRH         | L    | G   | A   | B   | C   |  |  |
| 01.TTS500.01.01                            | 550 - 700   | 400  | 391 | -   | -   | -   | 3                                                                                   | 20                                                                                  |
| 01.TTS500.01.02                            | 700 - 1200  | 900  | 685 | 119 | -   | -   | 5                                                                                   | 20                                                                                  |
| 01.TTS500.01.03                            | 900 - 1400  | 1100 | 755 | 119 | -   | -   | 6                                                                                   | 20                                                                                  |
| 01.TTS500.01.04                            | 1200 - 1700 | 1400 | 549 | 256 | 240 | -   | 8                                                                                   | 20                                                                                  |
| 01.TTS500.01.05                            | 1700 - 2200 | 1900 | 549 | 358 | 342 | -   | 9                                                                                   | 20                                                                                  |
| 01.TTS500.01.06                            | 1900 - 2400 | 2100 | 549 | 119 | 492 | 508 | 11                                                                                  | 20                                                                                  |



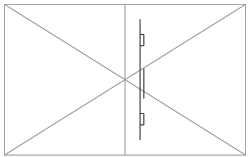


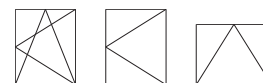
# Double sash gear for lockable doors



| Double sash gear for lockable doors |             |      |     |                                                                                     |                                                                                     |
|-------------------------------------|-------------|------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ARTICLE NO                          | SRH         | L    | G   |  |  |
| 01.TTS500.01.07                     | 1700 - 2200 | 1900 | 549 | 9                                                                                   | 20                                                                                  |
| 01.TTS500.01.08                     | 1900 - 2400 | 2100 | 549 | 11                                                                                  | 20                                                                                  |

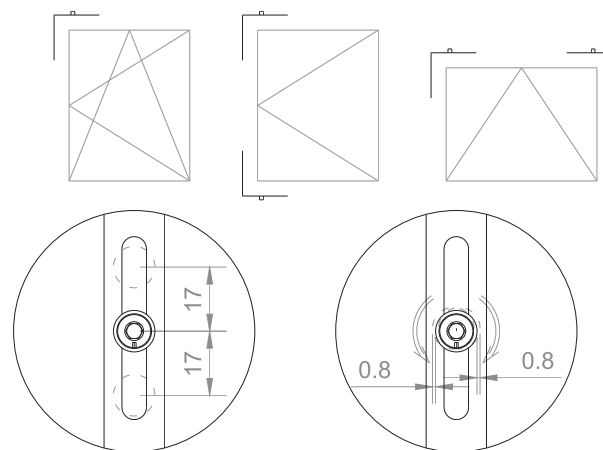
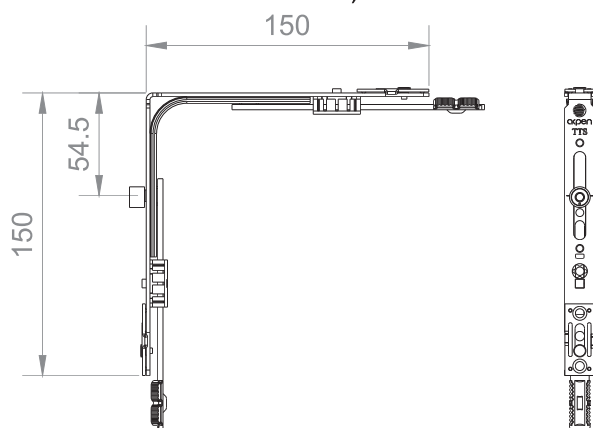
| Striker on double sash gear |  |  |  |  |  |
|-----------------------------|--|--|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ARTICLE NO                  |  |  |  |                                                                                     |                                                                                     |
| 01.TTS800.08.00             |  |  |  | 2                                                                                   | 500                                                                                 |



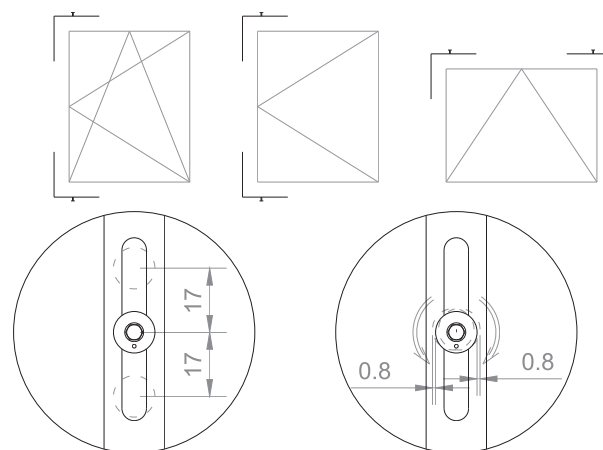
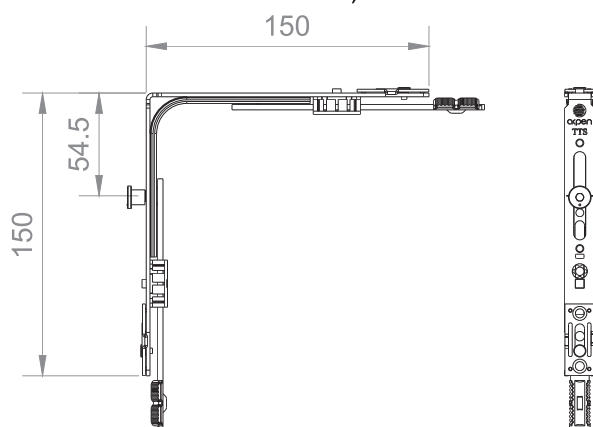


## Corner Transmission

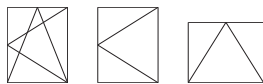
Corner Transmission 150x150, 1 ML



Corner Transmission 150x150, 1 SeML

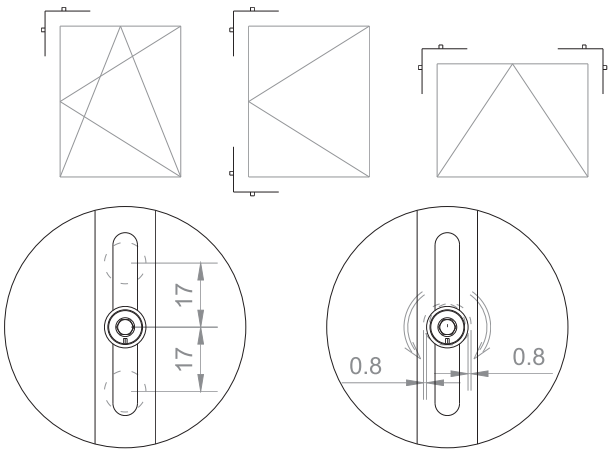
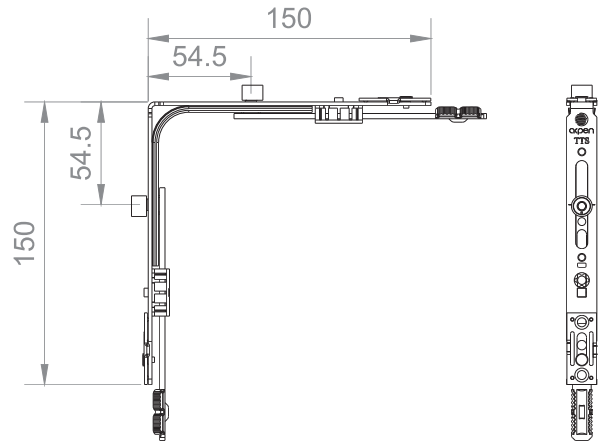


| ARTICLE NO      | DESCRIPTION                | ML | SeML |  |  |
|-----------------|----------------------------|----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS401.00.01 | Corner transmission 1 ML   | 1  | -    | 4                                                                                     | 100                                                                                   |
| 01.TTS401.00.02 | Corner transmission 1 SeML | -  | 1    | 4                                                                                     | 100                                                                                   |

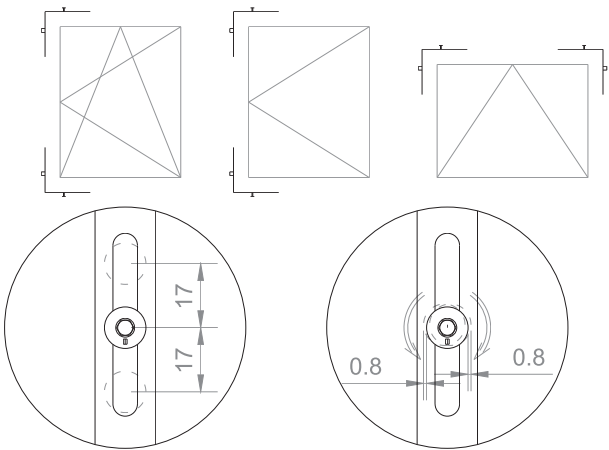
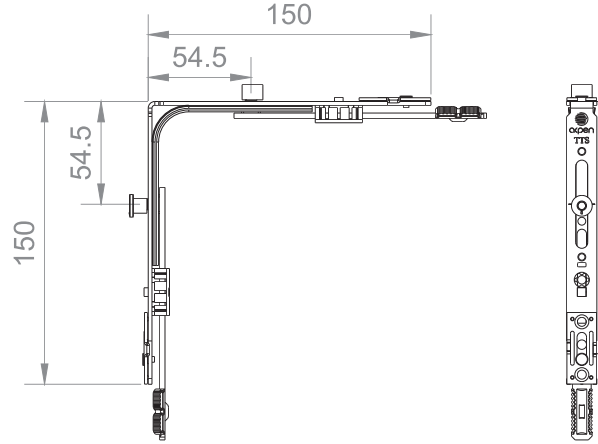


# Corner Transmission

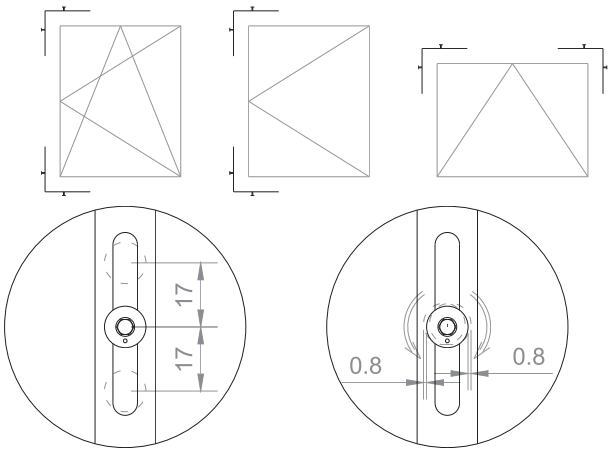
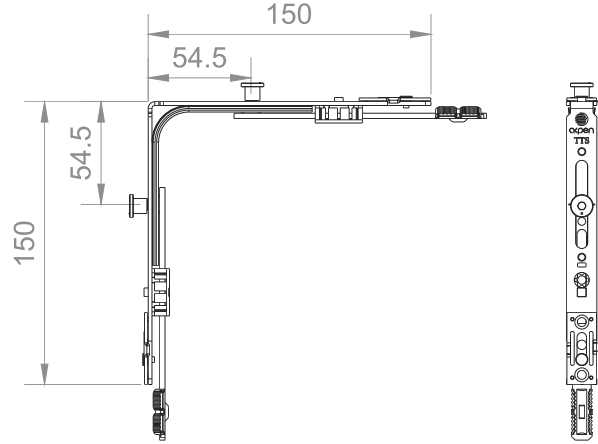
Corner Transmission 150x150, 2 ML



Corner Transmission 150x150, 1 ML, 1 SeML

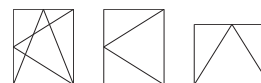


Corner Transmission 150x150, 2 SeML

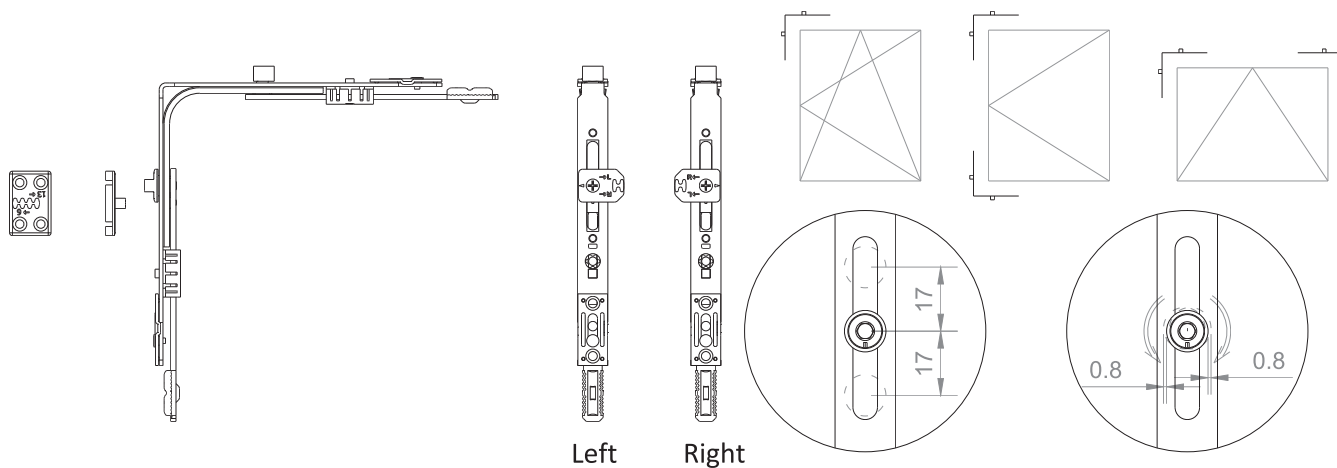


| ARTICLE NO      | DESCRIPTION                      | ML | SeML |  |  |
|-----------------|----------------------------------|----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS401.00.11 | Corner transmission 2 ML         | 2  | -    | 4                                                                                     | 100                                                                                   |
| 01.TTS401.00.12 | Corner transmission 1 ML, 1 SeML | 1  | 1    | 4                                                                                     | 100                                                                                   |
| 01.TTS401.00.22 | Corner transmission 2 SeML       | -  | 2    | 4                                                                                     | 100                                                                                   |

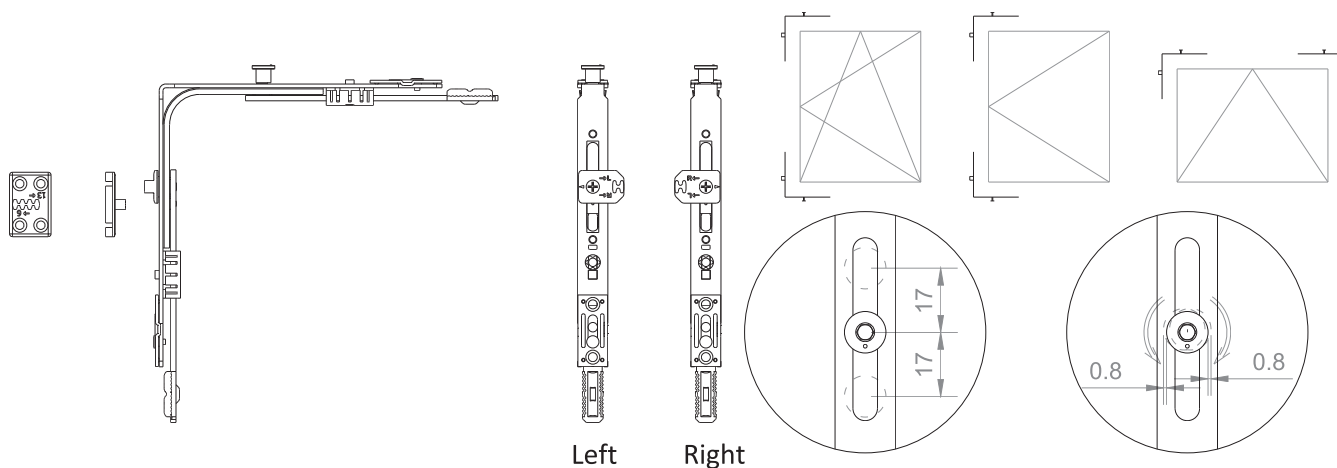
## Corner Transmission



### Corner Transmission venti 150x150, 1 ML

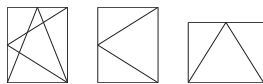


### Corner Transmission venti 150x150, 1 SeML



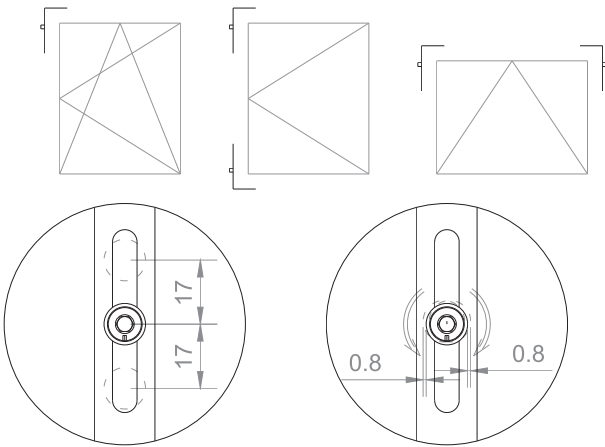
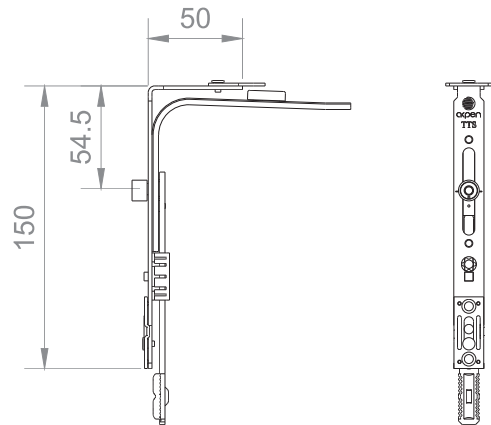
| ARTICLE NO      | DESCRIPTION                      | ML | SeML |  |  |
|-----------------|----------------------------------|----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS401.00.13 | Corner transmission venti 1 ML   | 1  | -    | 4                                                                                     | 100                                                                                   |
| 01.TTS401.00.23 | Corner transmission venti 1 SeML | -  | 1    | 4                                                                                     | 100                                                                                   |



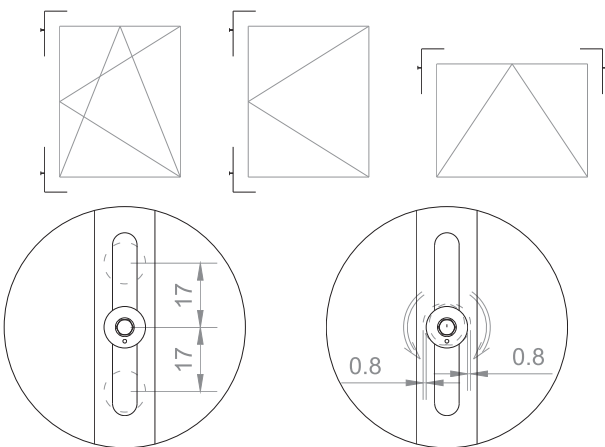
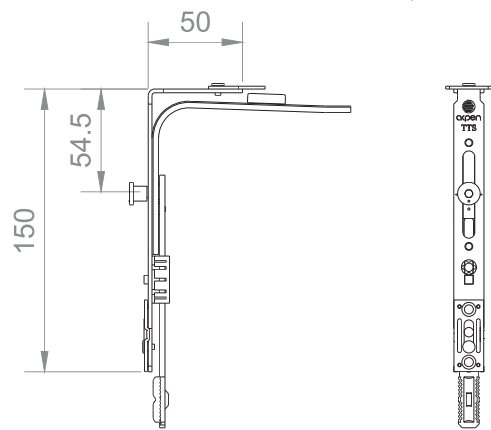


# Corner Transmission

Small Corner Transmission 150x50, 1 ML

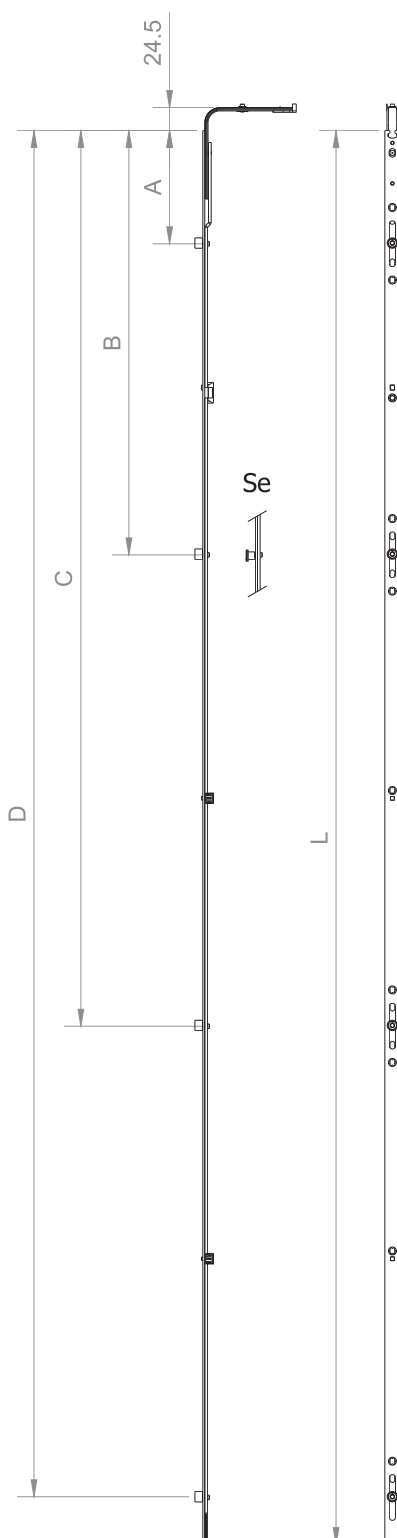
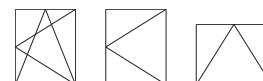


Small Corner Transmission 150x50, 1 SeML



| ARTICLE NO      | DESCRIPTION                      | ML | SeML |  |  |
|-----------------|----------------------------------|----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS401.01.01 | Small Corner transmission 1 ML   | 1  | -    | 4                                                                                     | 100                                                                                   |
| 01.TTS401.01.02 | Small Corner transmission 1 SeML | -  | 1    | 4                                                                                     | 100                                                                                   |

## Middle lock

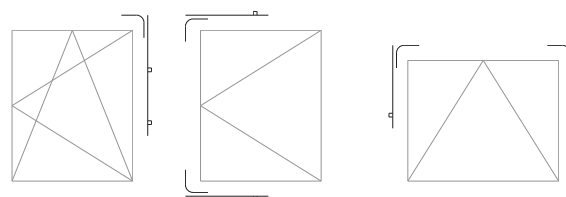


| Middle lock     |             |      |     |     |     |      |                                                                                     |                                                                                     |
|-----------------|-------------|------|-----|-----|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ARTICLE NO      | SRH         | L    | A   | B   | C   | D    |  |  |
| 01.TTS310.01.01 | 450 - 700   | 170  | 120 | -   | -   | -    | 2                                                                                   | 20                                                                                  |
| 01.TTS310.01.02 | 700 - 1200  | 500  | -   | 450 | -   | -    | 5                                                                                   | 20                                                                                  |
| 01.TTS310.01.03 | 900 - 1400  | 700  | -   | 650 | -   | -    | 6                                                                                   | 20                                                                                  |
| 01.TTS310.01.04 | 1200 - 1700 | 1000 | -   | 450 | 950 | -    | 7                                                                                   | 20                                                                                  |
| 01.TTS310.01.05 | 1700 - 2200 | 1500 | -   | 450 | 950 | 1450 | 10                                                                                  | 20                                                                                  |
| 01.TTS310.01.06 | 1900 - 2400 | 1700 | -   | 450 | 950 | 1650 | 11                                                                                  | 20                                                                                  |

| Middle lock Se  |             |      |     |     |     |      |                                                                                     |                                                                                     |
|-----------------|-------------|------|-----|-----|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ARTICLE NO      | SRH         | L    | A   | B   | C   | D    |  |  |
| 01.TTS310.02.01 | 450 - 700   | 170  | 120 | -   | -   | -    | 2                                                                                   | 20                                                                                  |
| 01.TTS310.02.02 | 700 - 1200  | 500  | -   | 450 | -   | -    | 5                                                                                   | 20                                                                                  |
| 01.TTS310.02.03 | 900 - 1400  | 700  | -   | 650 | -   | -    | 6                                                                                   | 20                                                                                  |
| 01.TTS310.02.04 | 1200 - 1700 | 1000 | -   | 450 | 950 | -    | 7                                                                                   | 20                                                                                  |
| 01.TTS310.02.05 | 1700 - 2200 | 1500 | -   | 450 | 950 | 1450 | 10                                                                                  | 20                                                                                  |
| 01.TTS310.02.06 | 1900 - 2400 | 1700 | -   | 450 | 950 | 1650 | 11                                                                                  | 20                                                                                  |

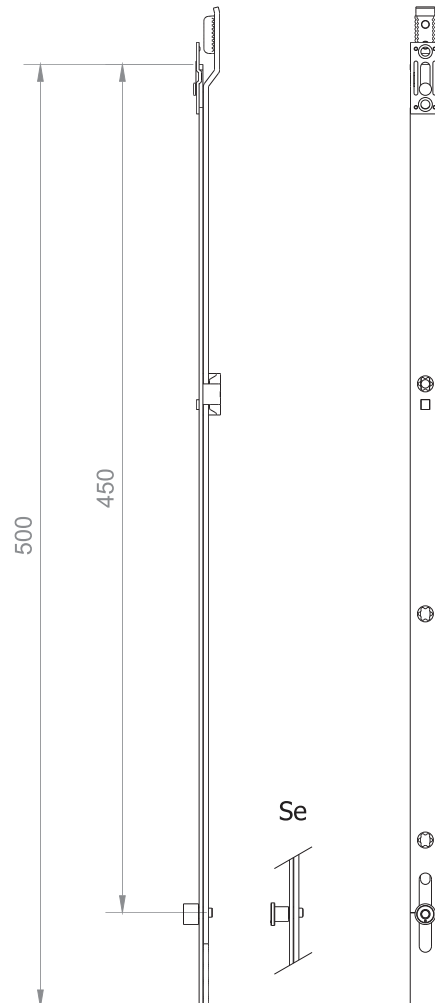
| Middle lock with additional locking pin |             |      |     |     |     |      |                                                                                      |                                                                                      |
|-----------------------------------------|-------------|------|-----|-----|-----|------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ARTICLE NO                              | SRH         | L    | A   | B   | C   | D    |  |  |
| 01.TTS310.03.02                         | 700 - 1200  | 500  | 120 | 450 | -   | -    | 5                                                                                    | 20                                                                                   |
| 01.TTS310.03.03                         | 900 - 1400  | 700  | 120 | 650 | -   | -    | 6                                                                                    | 20                                                                                   |
| 01.TTS310.03.04                         | 1200 - 1700 | 1000 | 120 | 450 | 950 | -    | 7                                                                                    | 20                                                                                   |
| 01.TTS310.03.05                         | 1700 - 2200 | 1500 | 120 | 450 | 950 | 1450 | 10                                                                                   | 20                                                                                   |
| 01.TTS310.03.06                         | 1900 - 2400 | 1700 | 120 | 450 | 950 | 1650 | 11                                                                                   | 20                                                                                   |

| Middle lock Se with additional locking pin |             |      |     |     |     |      |                                                                                       |                                                                                       |
|--------------------------------------------|-------------|------|-----|-----|-----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO                                 | SRH         | L    | A   | B   | C   | D    |  |  |
| 01.TTS310.04.02                            | 700 - 1200  | 500  | 120 | 450 | -   | -    | 5                                                                                     | 20                                                                                    |
| 01.TTS310.04.03                            | 900 - 1400  | 700  | 120 | 650 | -   | -    | 6                                                                                     | 20                                                                                    |
| 01.TTS310.04.04                            | 1200 - 1700 | 1000 | 120 | 450 | 950 | -    | 7                                                                                     | 20                                                                                    |
| 01.TTS310.04.05                            | 1700 - 2200 | 1500 | 120 | 450 | 950 | 1450 | 10                                                                                    | 20                                                                                    |
| 01.TTS310.04.06                            | 1900 - 2400 | 1700 | 120 | 450 | 950 | 1650 | 11                                                                                    | 20                                                                                    |





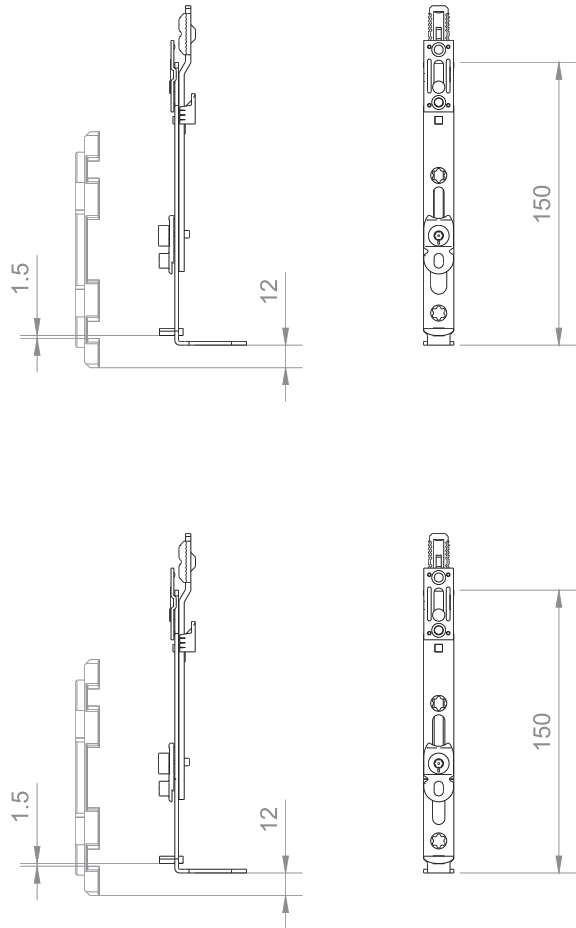
## Extension lock for middle lock



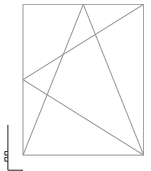
| ARTICLE NO      | DESCRIPTION                       |  |  |
|-----------------|-----------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS410.03.00 | Extension lock for middle lock    | 4                                                                                   | 20                                                                                    |
| 01.TTS410.23.00 | Extension lock for middle lock Se | 4                                                                                   | 20                                                                                    |



# Bottom Extension



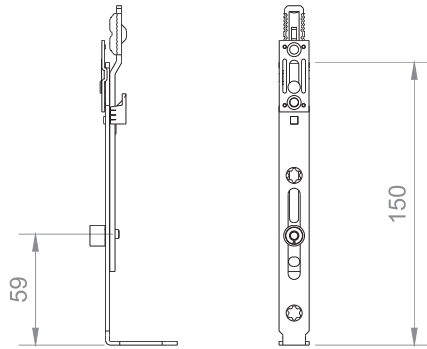
| ARTICLE NO      | DESCRIPTION                  |  |  |
|-----------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS402.00.00 | Bottom extension 450 - 1200  | 4                                                                                     | 100                                                                                   |
| 01.TTS402.03.00 | Bottom extension 1200 - 2400 | 4                                                                                     | 100                                                                                   |



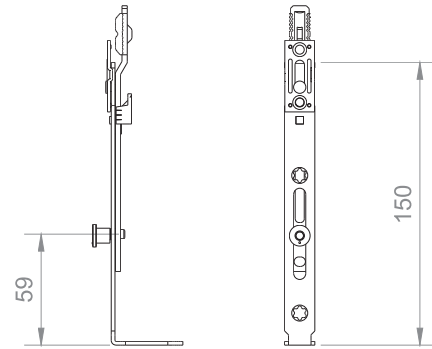


## Bottom Extension

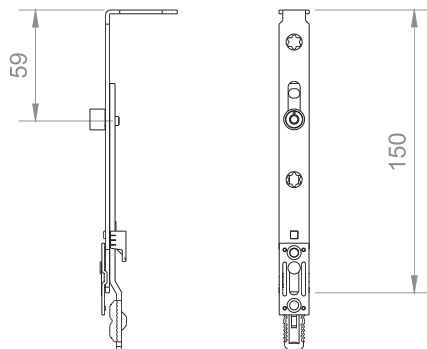
Bottom Extension 180°



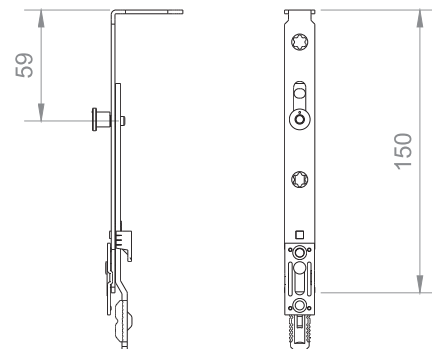
Bottom Extension Se 180°



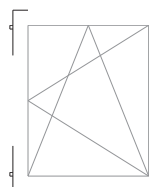
Bottom Extension 90°



Bottom Extension Se 90°



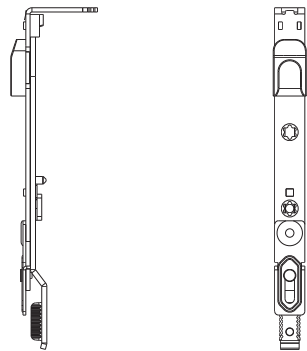
| ARTICLE NO      | DESCRIPTION              |  |  |
|-----------------|--------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS402.01.00 | Bottom extension 180°    | 4                                                                                    | 100                                                                                   |
| 01.TTS402.02.00 | Bottom extension 90°     | 4                                                                                    | 100                                                                                   |
| 01.TTS402.21.00 | Bottom extension Se 180° | 4                                                                                    | 100                                                                                   |
| 01.TTS402.22.00 | Bottom extension Se 90°  | 4                                                                                    | 100                                                                                   |



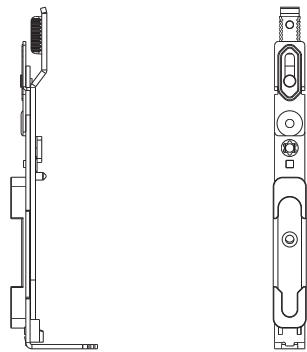


# Shoot bolt

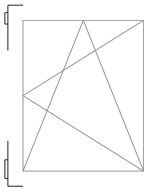
Shoot bolt, top



Shoot bolt, bottom



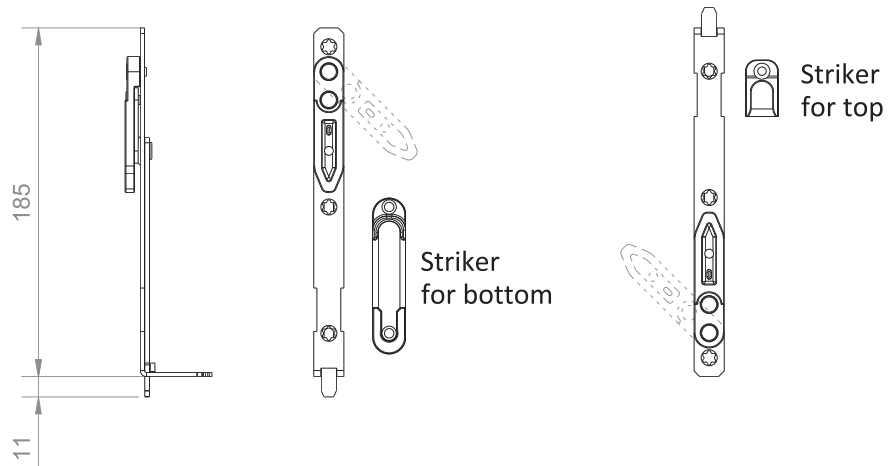
| ARTICLE NO      | DESCRIPTION        |  |  |
|-----------------|--------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS700.02.00 | Shoot bolt, top    | 4                                                                                     | 100                                                                                   |
| 01.TTS700.01.00 | Shoot bolt, bottom | 4                                                                                     | 100                                                                                   |



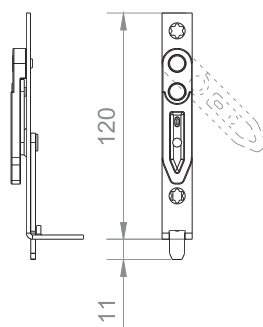


## Shoot bolt

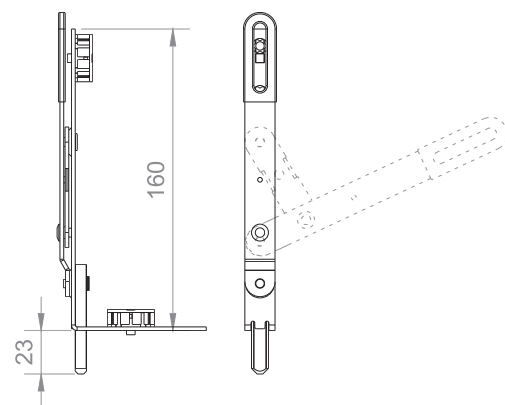
### Shoot bolt with lever



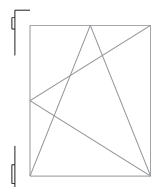
### Shoot bolt with lever small



### Shoot bolt for door



| ARTICLE NO      | DESCRIPTION                 |  |  |
|-----------------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS700.05.00 | Shoot bolt with lever       | 4                                                                                     | 100                                                                                   |
| 01.TTS800.10.00 | Striker for top             |                                                                                       | 100                                                                                   |
| 01.TTS800.11.00 | Striker for bottom          |                                                                                       | 100                                                                                   |
| 01.TTS700.06.00 | Shoot bolt with lever small | 2                                                                                     | 100                                                                                   |
| 01.TTS700.07.00 | Shoot bolt for door         | 4                                                                                     | 100                                                                                   |



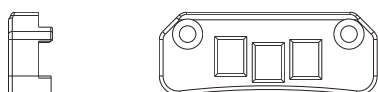


## Shoot bolt

### Shoot bolt strikers

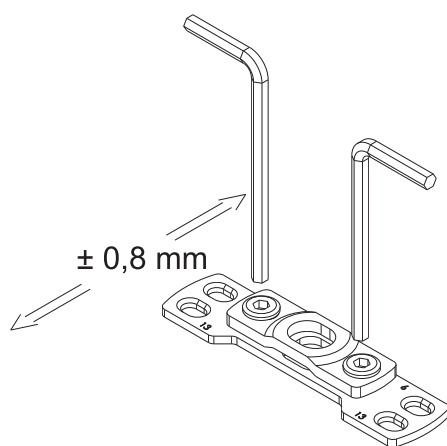


9 mm

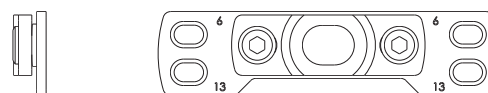


13 mm

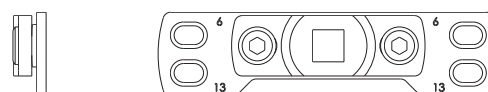
### Adjustments



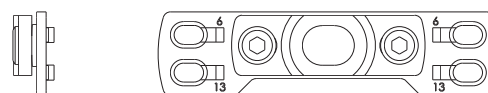
### Adjustable shoot bolt strikers



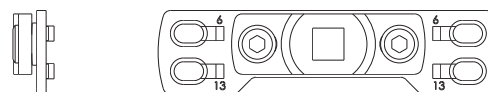
Oval without anchorage



Square without anchorage

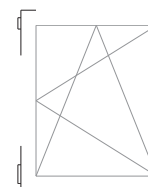


Oval with anchorage



Square with anchorage

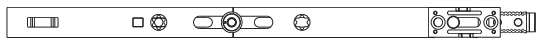
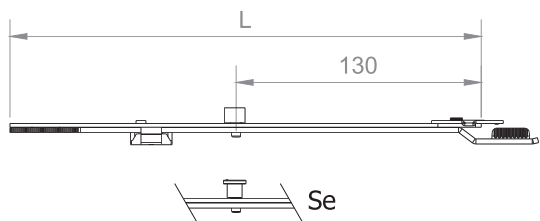
| ARTICLE NO      | DESCRIPTION                                              |  |  |
|-----------------|----------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS800.01.00 | Adjustable shoot bolt striker, oval, without anchorage   | 4                                                                                     | 100                                                                                   |
| 01.TTS800.02.00 | Adjustable shoot bolt striker, square, without anchorage | 4                                                                                     | 100                                                                                   |
| 01.TTS800.03.00 | Adjustable shoot bolt striker, oval, with anchorage      | 4                                                                                     | 100                                                                                   |
| 01.TTS800.04.00 | Adjustable shoot bolt striker, square, with anchorage    | 4                                                                                     | 100                                                                                   |
| 01.TTS800.06.00 | Shoot bolt striker 9 mm                                  | 2                                                                                     | 100                                                                                   |
| 01.TTS800.07.00 | Shoot bolt striker 13 mm                                 | 2                                                                                     | 100                                                                                   |



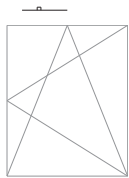




# Extension lock

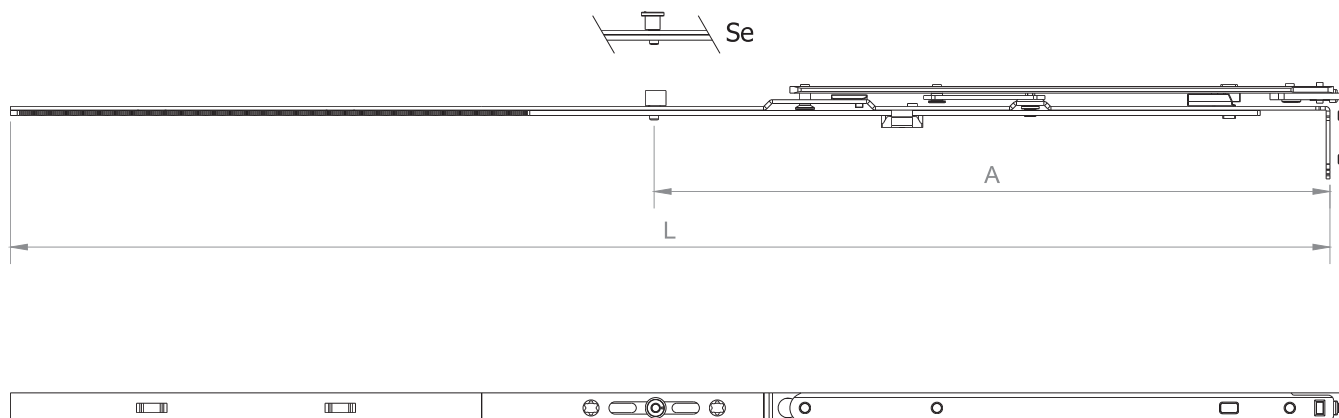


| ARTICLE NO      | DESCRIPTION              | L   |  |  |
|-----------------|--------------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS410.01.00 | Extension lock 250 mm    | 250 | 3                                                                                     | 100                                                                                   |
| 01.TTS410.02.00 | Extension lock 500 mm    | 500 | 4                                                                                     | 20                                                                                    |
| 01.TTS410.21.00 | Extension lock Se 250 mm | 250 | 3                                                                                     | 100                                                                                   |
| 01.TTS410.22.00 | Extension lock Se 500 mm | 500 | 4                                                                                     | 20                                                                                    |





## Stay Arm

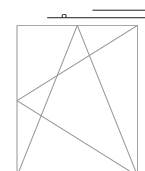


| Stay Arm        |             |      |       |                                                                                       |                                                                                       |
|-----------------|-------------|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO      | SRW         | L    | A     |  |  |
| 01.TTS210.00.01 | 350 - 600   | 450  | -     | 4                                                                                     | 20                                                                                    |
| 01.TTS210.00.02 | 400 - 650   | 500  | -     | 4                                                                                     | 20                                                                                    |
| 01.TTS210.01.03 | 600 - 850   | 700  | 358,5 | 7                                                                                     | 20                                                                                    |
| 01.TTS210.01.04 | 850 - 1100  | 950  | 543   | 8                                                                                     | 20                                                                                    |
| 01.TTS210.01.05 | 1100 - 1350 | 1200 | 653   | 10                                                                                    | 20                                                                                    |

| Stay Arm Se     |             |      |       |                                                                                       |                                                                                       |
|-----------------|-------------|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO      | SRW         | L    | A     |  |  |
| 01.TTS210.02.03 | 600 - 850   | 700  | 358,5 | 7                                                                                     | 20                                                                                    |
| 01.TTS210.02.04 | 850 - 1100  | 950  | 543   | 8                                                                                     | 20                                                                                    |
| 01.TTS210.02.05 | 1100 - 1350 | 1200 | 653   | 10                                                                                    | 20                                                                                    |

| Stay Arm, tilt first |             |      |       |                                                                                       |                                                                                       |
|----------------------|-------------|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO           | SRW         | L    | A     |  |  |
| 01.TTS211.00.01      | 350 - 600   | 450  | -     | 4                                                                                     | 20                                                                                    |
| 01.TTS211.00.02      | 400 - 650   | 500  | -     | 4                                                                                     | 20                                                                                    |
| 01.TTS211.01.03      | 600 - 850   | 700  | 358,5 | 7                                                                                     | 20                                                                                    |
| 01.TTS211.01.04      | 850 - 1100  | 950  | 543   | 8                                                                                     | 20                                                                                    |
| 01.TTS211.01.05      | 1100 - 1350 | 1200 | 653   | 10                                                                                    | 20                                                                                    |

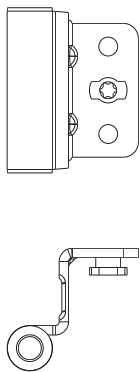
| Stay Arm Se, tilt first |             |      |       |                                                                                       |                                                                                       |
|-------------------------|-------------|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO              | SRW         | L    | A     |  |  |
| 01.TTS211.02.03         | 600 - 850   | 700  | 358,5 | 7                                                                                     | 20                                                                                    |
| 01.TTS211.02.04         | 850 - 1100  | 950  | 543   | 8                                                                                     | 20                                                                                    |
| 01.TTS211.02.05         | 1100 - 1350 | 1200 | 653   | 10                                                                                    | 20                                                                                    |





# Hinges

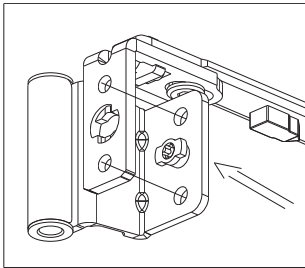
Top sash hinge



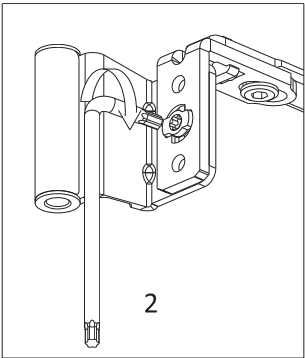
Cover of Top sash hinge



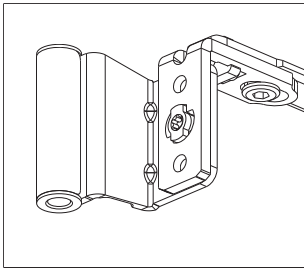
## How to assemble



1



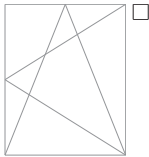
2



3

| Top sash hinge  |                 |                 |                |                 |                                                                                       |                                                                                       |
|-----------------|-----------------|-----------------|----------------|-----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO      | FITTING<br>AXIS | SASH<br>OVERLAP | SASH<br>WEIGHT | OPENING<br>SIDE |  |  |
| 01.TTS403.01.00 | 9               | 20              | 130 kg         | L / R           | -                                                                                     | 100                                                                                   |
| 01.TTS403.02.00 | 13              | 20              | 130 kg         | L / R           | -                                                                                     | 100                                                                                   |
| 01.TTS403.04.00 | 14              | 20              | 130 kg         | L / R           | -                                                                                     | 100                                                                                   |

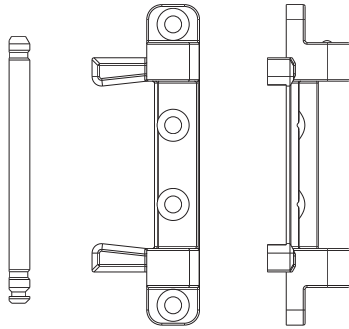
| Cover of top sash hinge |                         |                                                                                       |
|-------------------------|-------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO              | DESCRIPTION             |  |
| 01.TTS408.T1.**         | Cover of top sash hinge | 100                                                                                   |



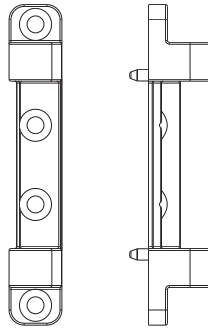


## Hinges

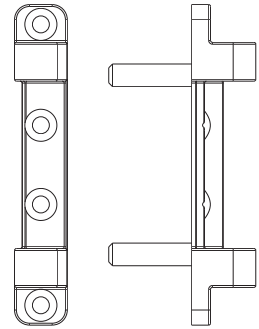
Stay arm bearing  
with anchorage 100 kg



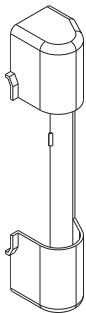
Stay arm bearing 100 kg



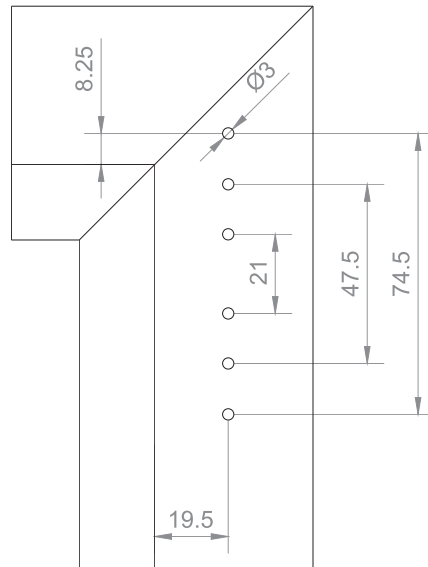
Stay arm bearing 130 kg



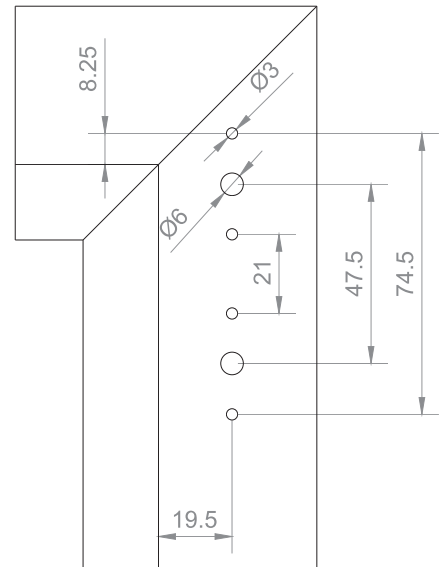
Cover of  
Stay arm bearing



Drilling for  
stay arm bearing 100 kg

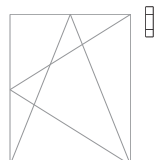


Drilling for  
stay arm bearing 130 kg



| Stay arm bearing<br>ARTICLE NO | DESCRIPTION                     | SASH WEIGHT |  |  |
|--------------------------------|---------------------------------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS405.00.00                | Stay arm bearing with anchorage | 100 kg      | 4                                                                                     | 100                                                                                   |
| 01.TTS405.01.00                | Stay arm bearing 100 kg         | 100 kg      | 4                                                                                     | 100                                                                                   |
| 01.TTS405.02.00                | Stay arm bearing 130 kg         | 130 kg      | 4                                                                                     | 100                                                                                   |

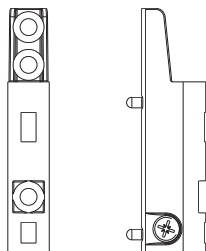
| Cover of stay arm bearing<br>ARTICLE NO | DESCRIPTION               |  |
|-----------------------------------------|---------------------------|---------------------------------------------------------------------------------------|
| 01.TTS408.T2.**                         | Cover of stay arm bearing | 100                                                                                   |



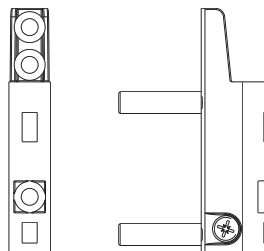


# Hinges

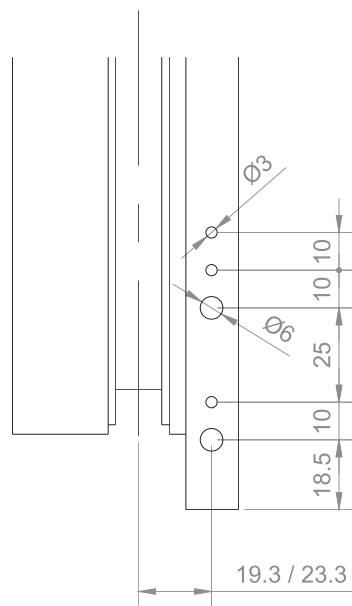
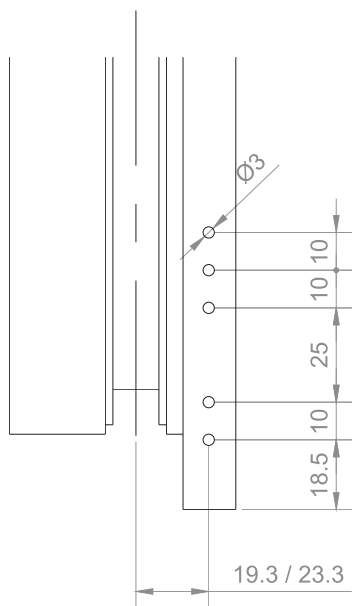
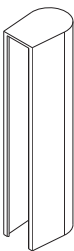
Drill-in corner hinge 100 kg



Drill-in corner hinge 130 kg



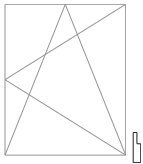
Cover of drill-in corner hinge



| Drill-in corner hinge |                              |             |                                                                                       |                                                                                       |
|-----------------------|------------------------------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO            | DESCRIPTION                  | SASH WEIGHT |  |  |
| 01.TTS404.00.00       | Drill-in corner hinge 100 kg | 100 kg      | 3                                                                                     | 100                                                                                   |
| 01.TTS404.01.00       | Drill-in corner hinge 130 kg | 100 kg      | 3                                                                                     | 100                                                                                   |

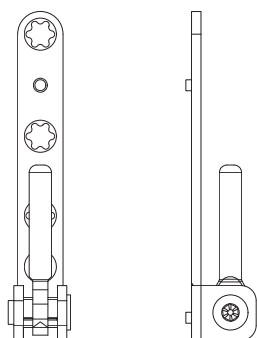
  

| Cover of drill-in corner hinge |                           |                                                                                       |
|--------------------------------|---------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO                     | DESCRIPTION               |  |
| 01.TTS408.T3.**                | Cover of stay arm bearing | 100                                                                                   |

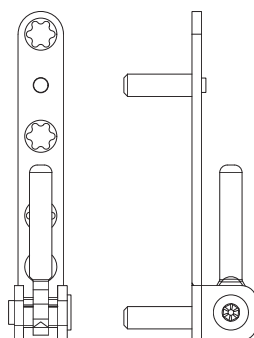




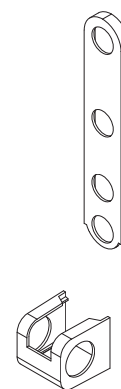
Corner bearing 100 kg



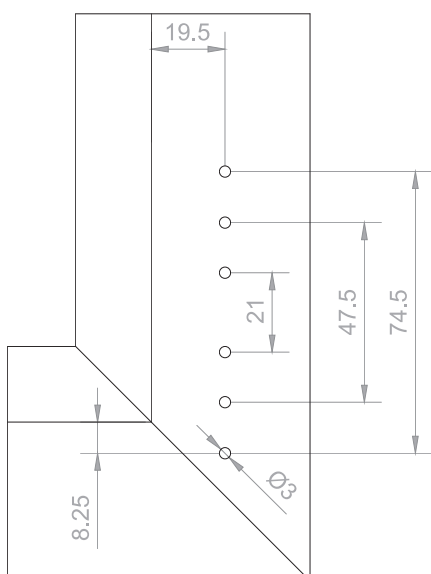
Corner bearing 130 kg



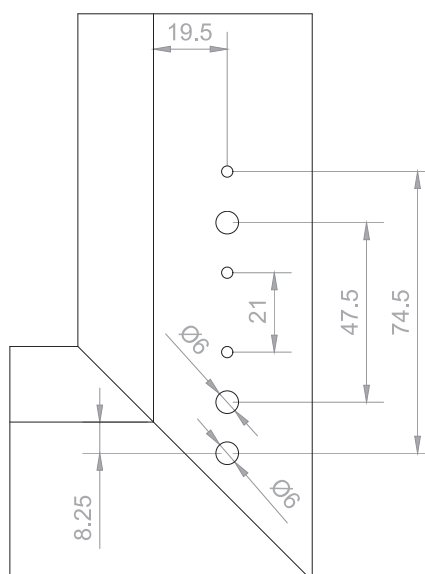
Cover of corner bearing



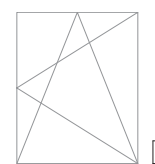
Drilling for  
corner bearing 100 kg



Drilling for  
corner bearing 130 kg



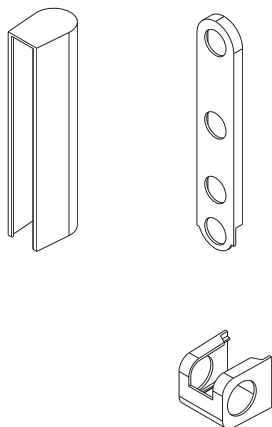
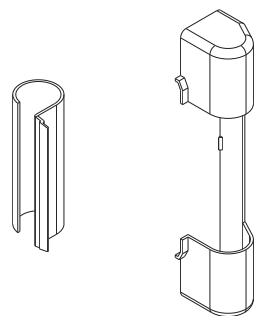
| Corner bearing<br>ARTICLE NO | DESCRIPTION           | SASH WEIGHT |  |  |
|------------------------------|-----------------------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS406.00.00              | Corner bearing 100 kg | 100 kg      | 4                                                                                     | 100                                                                                   |
| 01.TTS406.01.00              | Corner bearing 130 kg | 130 kg      | 4                                                                                     | 100                                                                                   |



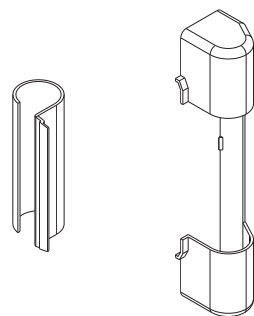


# Hinges

Hinge cover set



Hinge cover set  
for middle hinge

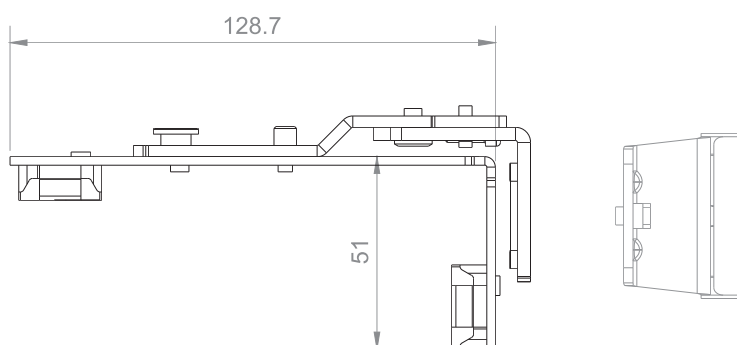


| Cover sets      |                                  |                                                                                       |
|-----------------|----------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO      | DESCRIPTION                      |  |
| 01.TTS408.00.** | Hinge cover set                  | 100                                                                                   |
| 01.TTS408.01.** | Hinge cover set for middle hinge | 100                                                                                   |

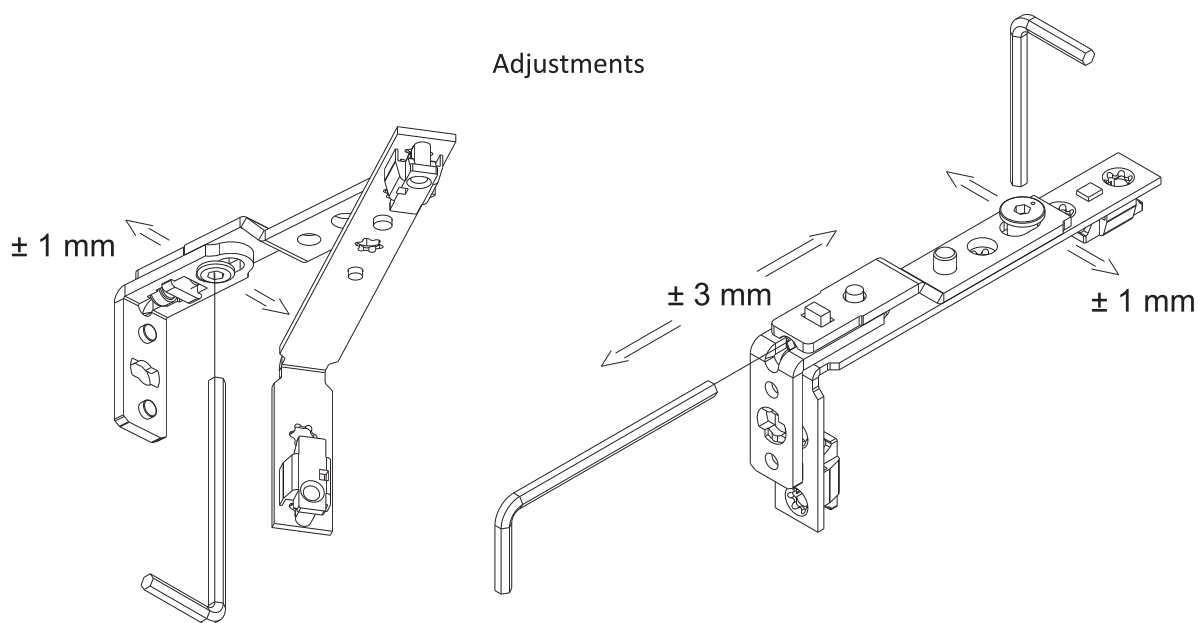


## Hinges

### Adjustable Side Hung Hinge

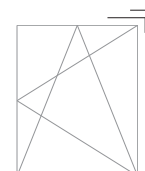


### Adjustments



#### Adjustable side hung hinge

| ARTICLE NO      | DESCRIPTION                | SASH WEIGHT |  |  |
|-----------------|----------------------------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS600.00.00 | Adjustable side hung hinge | 130 kg      | 5                                                                                     | 100                                                                                   |

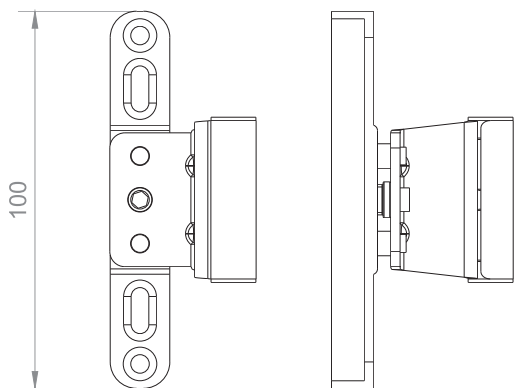




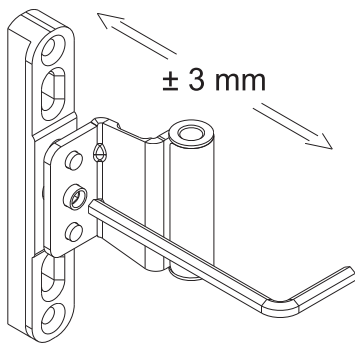
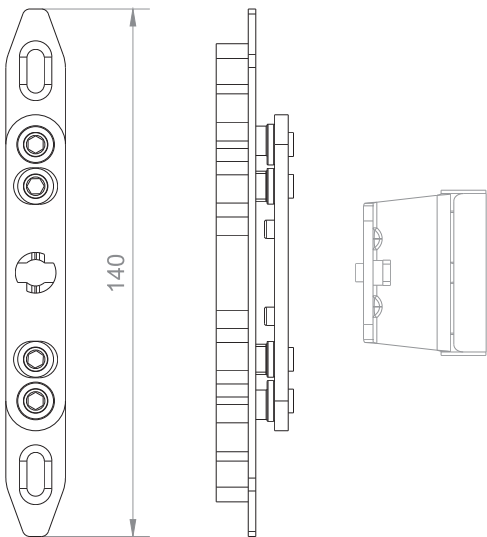


# Hinges

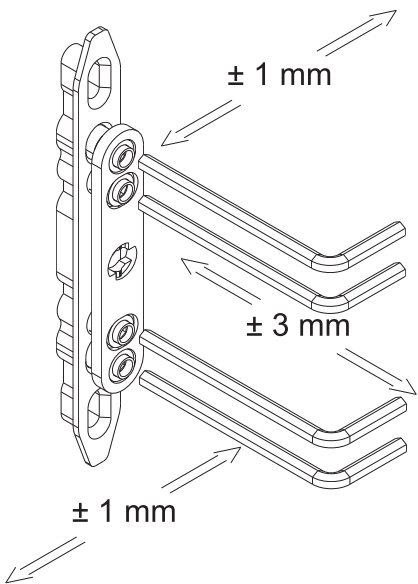
2D Adjustable  
Middle hinge



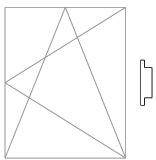
3D Adjustable  
Middle hinge



Adjustments



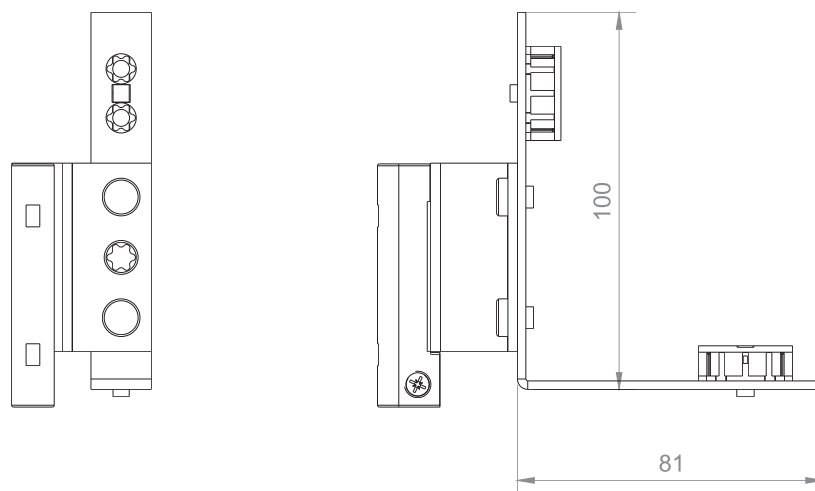
| Middle hinges   |                                  |                                                                                       |
|-----------------|----------------------------------|---------------------------------------------------------------------------------------|
| ARTICLE NO      | DESCRIPTION                      |  |
| 01.TTS600.09.00 | 2D Adjustable middle hinge 9 mm  | 100                                                                                   |
| 01.TTS600.13.00 | 2D Adjustable middle hinge 13 mm | 100                                                                                   |
| 01.TTS600.01.00 | 3D Adjustable middle hinge       | 100                                                                                   |



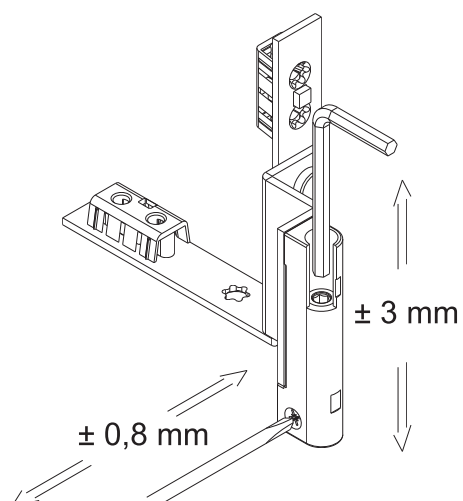


## Hinges

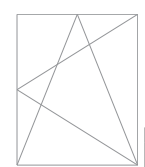
### Rebate Corner Hinge



### Adjustments



| Rebate corner hinge |                                 |     |
|---------------------|---------------------------------|-----|
| ARTICLE NO          | DESCRIPTION                     |     |
| 01.TTS600.L1.00     | Rebate corner hinge 13 mm left  | 100 |
| 01.TTS600.R1.00     | Rebate corner hinge 13 mm right | 100 |
| 01.TTS600.L2.00     | Rebate corner hinge 9 mm left   | 100 |
| 01.TTS600.L1.00     | Rebate corner hinge 9 mm right  | 100 |



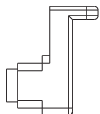
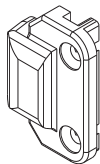
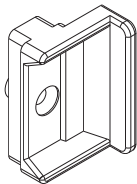


# Hinges

## Concealed Middle Hinge

Sash part

Frame part



Concealed middle hinge

ARTICLE NO

DESCRIPTION



01.TTS600.04.00

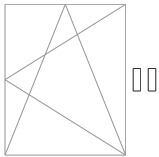
Concealed middle hinge 9 mm

100

01.TTS600.05.00

Concealed middle hinge 13 mm

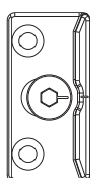
100



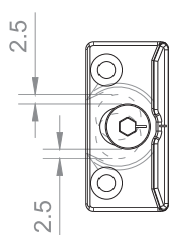
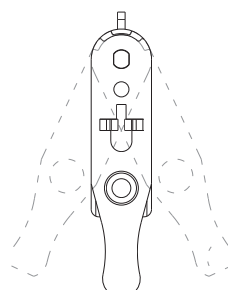


## Wrong operation safety device with sash lifter

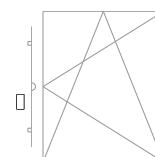
Lifting plate



Wrong operation safety device with sash lifter

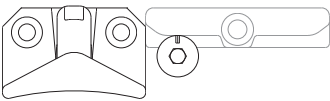


| ARTICLE NO      | DESCRIPTION                                    |  |
|-----------------|------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS409.00.00 | Wrong operation safety device with sash lifter | 100                                                                                   |
| 01.TTS409.01.00 | Lifting plate 9 mm                             | 100                                                                                   |
| 01.TTS409.02.00 | Lifting plate 13 mm                            | 100                                                                                   |

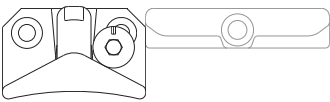




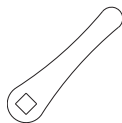
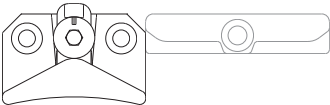
# Microventilation



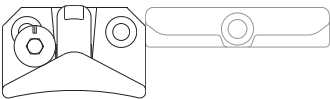
Handle 0° (Closed)



Handle 90° (Turn opening)



Handle 135° (Micro ventilation)



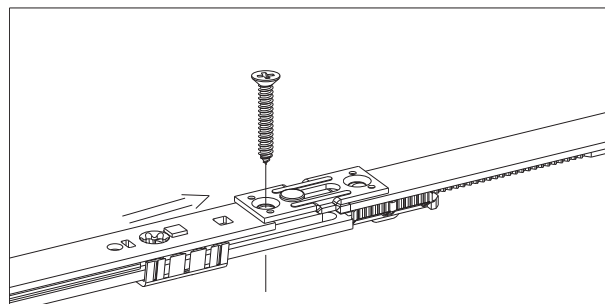
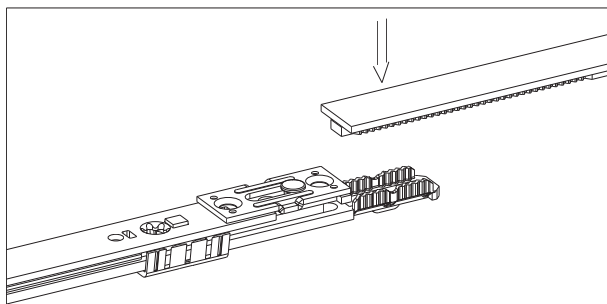
Handle 180° (Micro ventilation)

| ARTICLE NO      | DESCRIPTION                  |  |  |
|-----------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01.TTS407.50.00 | Striker for microvantilation | 2                                                                                     | 100                                                                                   |

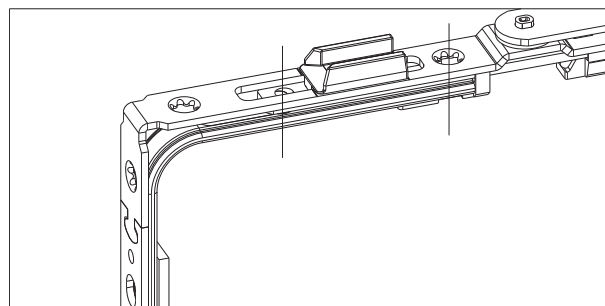
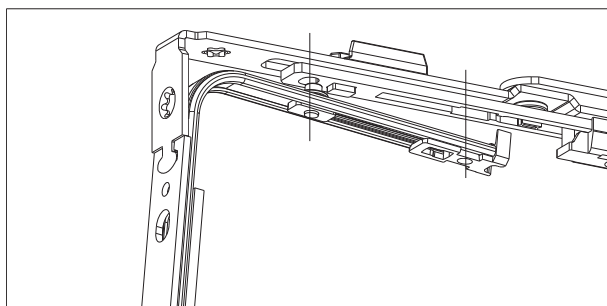


## Installation

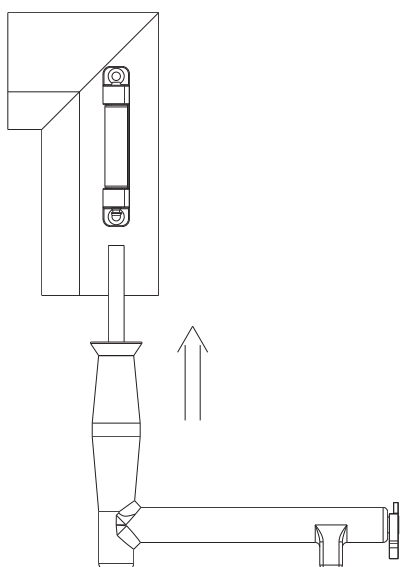
### Teeth connection



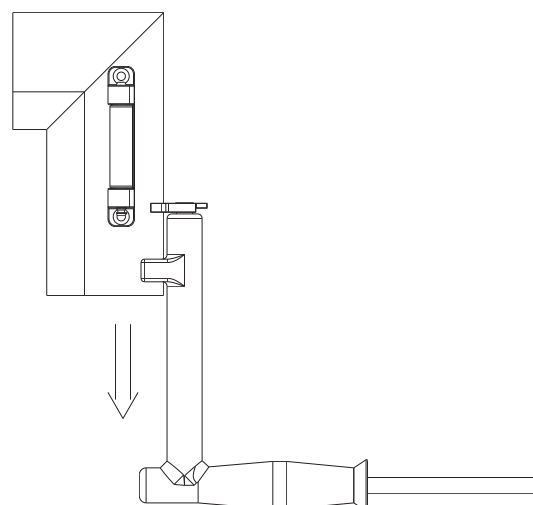
### Stay arm and middle lock connection



### Axle installation



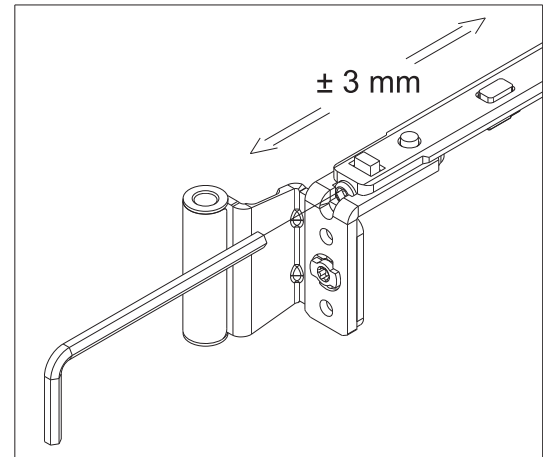
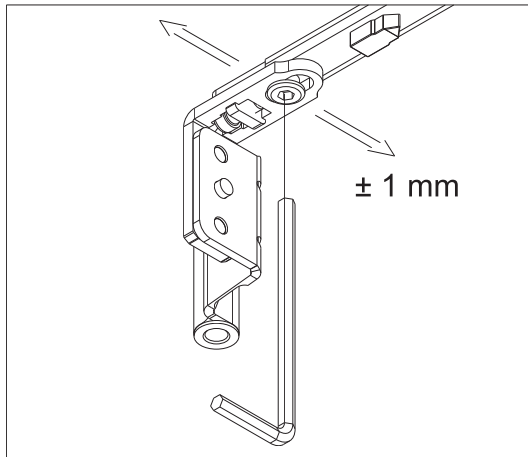
### Axle removal



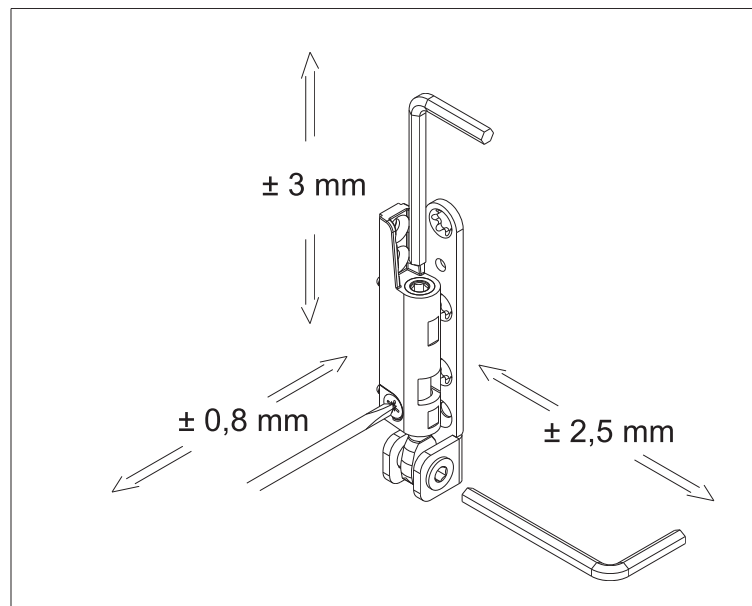


## Adjustments

### Stay arm adjustments



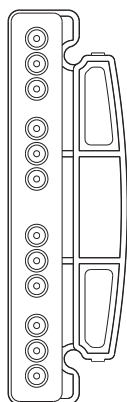
### Bottom hinge adjustments



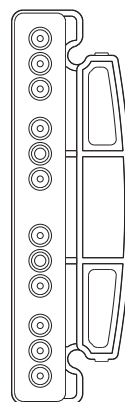


## Drilling Jigs for Hinges

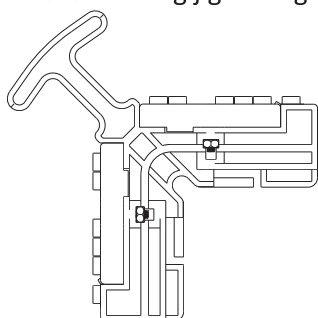
Frame drilling jig 100 kg



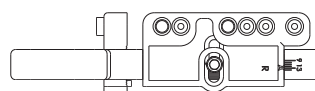
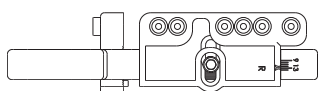
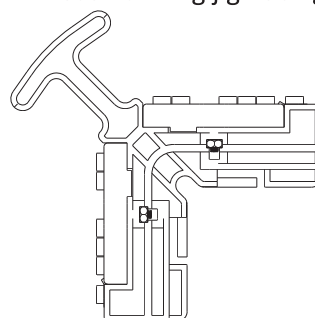
Frame drilling jig 130 kg



Sash drilling jig 100 kg



Sash drilling jig 130 kg



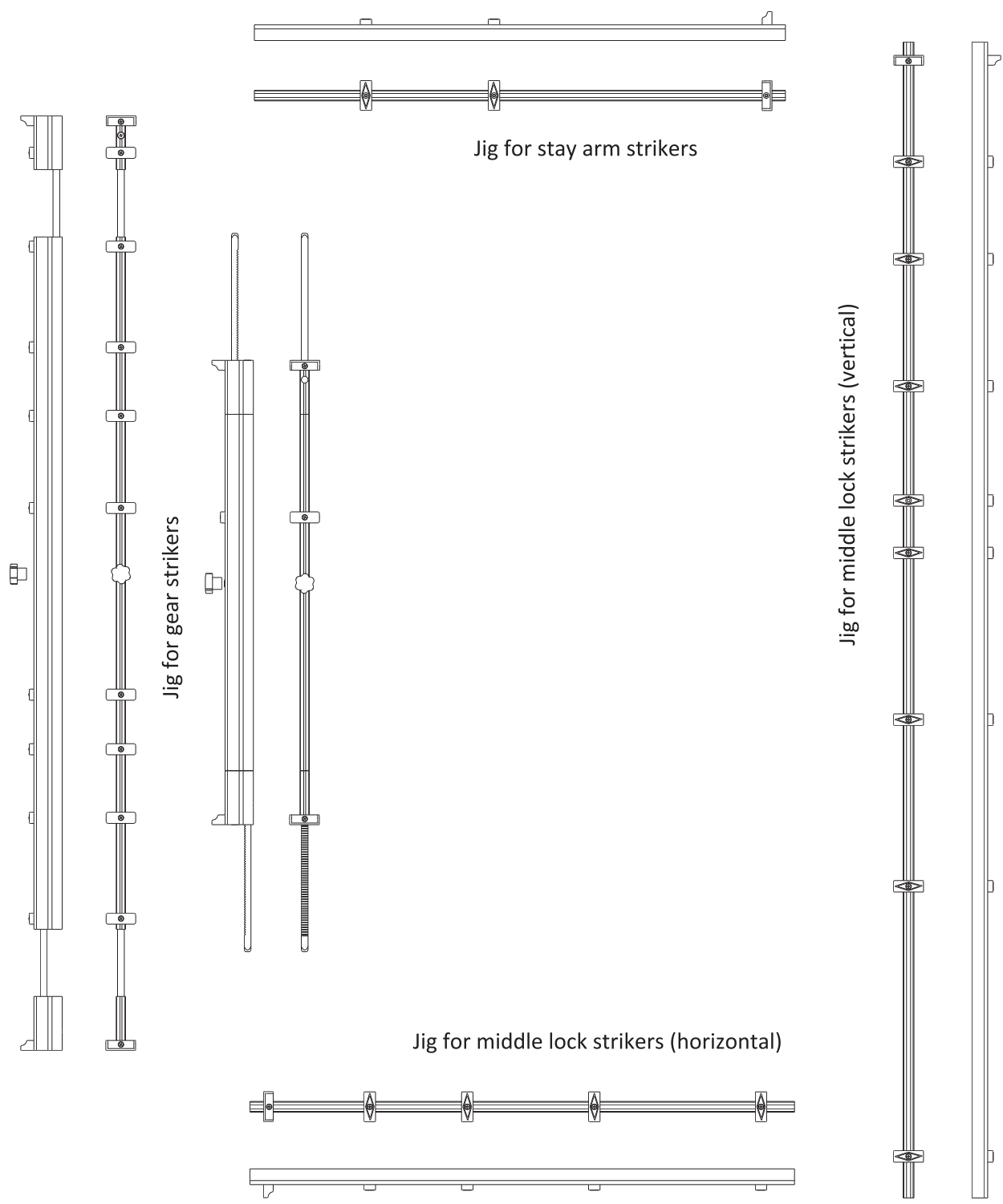
### Drilling jigs for tilt & turn hinges

| ARTICLE NO      | DESCRIPTION               |
|-----------------|---------------------------|
| 00.SBL003.01.00 | Sash drilling jig 100 kg  |
| 00.SBL003.02.00 | Frame drilling jig 100 kg |
| 00.SBL004.01.00 | Sash drilling jig 130 kg  |
| 00.SBL004.02.00 | Frame drilling jig 130 kg |





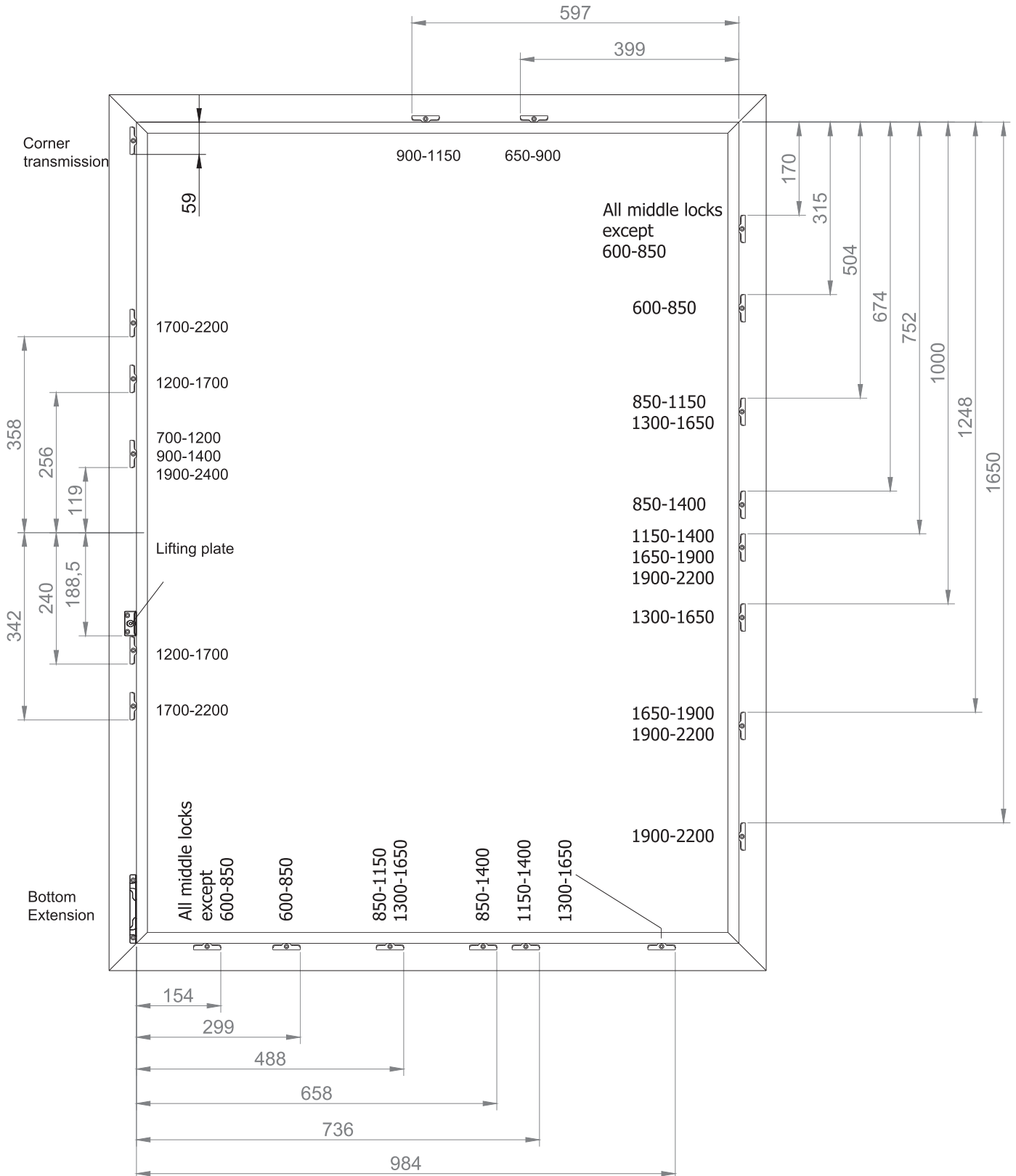
# Jigs for Strikers



| Drilling jigs for tilt & turn hinges |                   |
|--------------------------------------|-------------------|
| ARTICLE NO                           | DESCRIPTION       |
| 00.SBL010.00.00                      | Jigs for strikers |



## Locations of the strikers



## Profile list

| PROFILE NAME                      | FITTING<br>AXIS | OVERLAP<br>HEIGHT | STANDARD<br>STRIKER | TILT STRIKER<br>VERTICAL | TILT STRIKER<br>HORIZONTAL | SECURITY<br>STRIKER | LIFTING<br>PLATE |
|-----------------------------------|-----------------|-------------------|---------------------|--------------------------|----------------------------|---------------------|------------------|
| ADOPEN / 888                      | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ADOPEN / Pasifik 800-860          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ADOPEN / Pasifik 873              | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ADOPEN / Atlantik 777             | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ADOPEN / Atlantik 752-750         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ADOPEN / Atlantik 760             | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ADOPEN / Marmara 632              | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| AKFA 5200 Trio (Özbekistan)       | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| AKFA 5200 Quadro (Özbekistan)     | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| AKFA 6000 Trio (Özbekistan)       | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| AKFA 6000 Quadro (Özbekistan)     | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| AKFA 6000 Eko (Özbekistan)        | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| AKFA 7000 Eko (Özbekistan)        | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ALFAPEN / Armada                  | 9               | 20                | 00.IZK022.00.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| ALFAPEN / Pro 7000                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ALUPLAST / Ideal 2000             | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ALUPLAST / Ideal 4000             | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ALUPLAST / Ideal 5000             | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ALUPLAST / Ideal 8000             | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ASAŞPEN / Bahar Serisi 52 mm      | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| ASAŞPEN / Diamond Serisi 60 mm    | 13              | 20                | 00.IZK043.00.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ASAŞPEN / Elegans Serisi 60 mm    | 13              | 20                | 00.IZK043.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ASAŞPEN / Maxi Royal Sistem 70 mm | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ASAŞPEN / Maxi Plus Sistem 80 mm  | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ASAŞPEN / Empire Sistem 120 mm    | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| BAUPLAST / Noble                  | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| BAUPLAST / Advance                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| BAUPLAST / Bau 500                | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| BAUPLAST / Bau 600                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| BAUPLAST / Bau 700                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| BAUPLAST / Bau 900                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| BAUPLAST / Bau 950                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EGEPEN / Legend                   | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EGEPEN / Legend Art               | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EGEPEN / Zendow                   | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EGEPEN / Zendow Plus              | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EGEPEN / Fusion                   | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EGEPEN / Everest Max              | 13              | 20                | 00.IZK020.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ENDERPEN / Highline               | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ENDERPEN / Vizyonline             | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ENDERPEN / Klasline               | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ERPEN / Extraline 54              | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ERPEN / Smartline 62              | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ERPEN / Combiline 72              | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ERPEN / Multiline 82              | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| ERPEN / Premium Series            | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROLINE / S60 Luxe               | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |

## Profile list

| PROFILE NAME                     | FITTING<br>AXIS | OVERLAP<br>HEIGHT | STANDARD<br>STRIKER | TILT STRIKER<br>VERTICAL | TILT STRIKER<br>HORIZONTAL | SECURITY<br>STRIKER | LIFTING<br>PLATE |
|----------------------------------|-----------------|-------------------|---------------------|--------------------------|----------------------------|---------------------|------------------|
| EUROLINE / S60 Deluxe            | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROLINE / S70 Deluxe            | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROLINE / S70 Luxe              | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROLINE / E60 Luxe              | 13              | 20                | 00.IZK021.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROPEN / Block Profil           | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROPEN / Superdass              | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROPEN / Grande                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROPEN / Dorlion                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| EUROPEN / Ventana                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| FIRATPEN / Selenit 75            | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| FIRATPEN / Gamet 70              | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| FIRATPEN / Elegance 80           | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| FIRATPEN / Redonit 85            | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| FILPEN / Gold 60                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| FILPEN / Gold 70                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| FILPEN / Gold 80                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| GEALAN / S7000                   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| GEALAN / S8000                   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| GEALAN / S9000                   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KBE / AD                         | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| KBE / 70 mm                      | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMMERLING / 70 mm systeme       | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMMERLING / 76 mm systeme       | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMMERLING / 88 mm systeme       | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMPEN / Noble                   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMPEN / Advance                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMPEN / Kom 500                 | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMPEN / Kom 600                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMPEN / Kom 700                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMPEN / Kom 900                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| KOMPEN / Kom 950                 | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| MIROPLAST / 76 AD / MD (Ukrayna) | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| MIROPLAST / 5S (Ukrayna)         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| MIROPLAST / 6S (Ukrayna)         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| MIROPLAST / 7S (Ukrayna)         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| MIROPLAST / 8S (Ukrayna)         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| NATURELPEN / N5400               | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| NATURELPEN / N6000               | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| NATURELPEN / N6400               | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| NATURELPEN / N7000               | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PENSA / Safir                    | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PENSA / Ultra                    | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PENSA / Eco Ultra                | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PENSA / Delüx                    | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PENSA / Lüx                      | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PENSA / Premier                  | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PENSA / Sila                     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |

## Profile list

| PROFILE NAME          | FITTING<br>AXIS | OVERLAP<br>HEIGHT | STANDARD<br>STRIKER | TILT STRIKER<br>VERTICAL | TILT STRIKER<br>HORIZONTAL | SECURITY<br>STRIKER | LIFTING<br>PLATE |
|-----------------------|-----------------|-------------------|---------------------|--------------------------|----------------------------|---------------------|------------------|
| PENSA/Avantaj         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PİMAPEN/Nirvana       | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PİMAPEN/Carisma       | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P80           | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P873          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P790          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P777          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P 750         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P760          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P770          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P632          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PLASPEN/P330          | 9               | 20                | 00.IZK002.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| PROPEN/PRO 60         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PROPEN/PRO 70         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| PROPEN/PRO 80         | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| REHAU/Geneo           | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| REHAU/Brillant        | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| REHAU/Euro-Design 70  | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| REHAU/Euro-Design 60  | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| RESMAN/Safir          | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| RESMAN/Dorado         | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| RESMAN/Dorado Gold    | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| RESMAN/Revotech       | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SALAMANDER/Streamline | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SARAYPEN/S60          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SARAYPEN/S70          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SARAYPEN/S76          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SCHONLINE/LINE 60     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SCHONLINE/LINE 70     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SCHONLINE/LINE 80     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SCHONLINE/LINE 90     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SCHUCO/Corona AS 60   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SCHUCO/Corona CT 70   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| SCHUCO/Corona SI 82   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| TECNOPLAS/Supertec    | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| TECNOPLAS/Grosstec    | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| TECNOPLAS/Startec     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| TECNOPLAS/Extratec    | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| TECNOPLAS/Divatec     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| TECNOPLAS/Megatec     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| TECNOPLAS/Ultratec    | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| UNIPLAST/Superium     | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| UNIPLAST/Premium      | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| UNIPLAST/Optimum      | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| VEKA/Softline 82 AD   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| VEKA/Softline 82 MD   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| VEKA/Softline 76 AD   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |

## Profile list

| PROFILE NAME          | FITTING<br>AXIS | OVERLAP<br>HEIGHT | STANDARD<br>STRIKER | TILT STRIKER<br>VERTICAL | TILT STRIKER<br>HORIZONTAL | SECURITY<br>STRIKER | LIFTING<br>PLATE |
|-----------------------|-----------------|-------------------|---------------------|--------------------------|----------------------------|---------------------|------------------|
| VEKA/Softline 76 MD   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| VEKA/Softline 70 AD   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| VEKA/AluConnect       | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINHOUSE/Selenit 75   | 9               | 20                | 00.IZK004.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| WINHOUSE/Garnet 70    | 9               | 20                | 00.IZK004.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| WINHOUSE/Elegantce 80 | 9               | 20                | 00.IZK004.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| WINHOUSE/Redonit 85   | 9               | 20                | 00.IZK004.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| WINSA/Dorado 76       | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINSA/Revotech Gold   | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINSA/Revotech        | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINSA/Safir 76        | 13              | 20                | 00.IZK005.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/Penwood 750   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/Penwood 760   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/Penwood 632   | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/W800          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/W873          | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/W750          | 9               | 20                | 00.IZK004.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |
| WINTech/760           | 13              | 20                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/750           | 13              | 21                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/777           | 13              | 21                | 00.IZK004.0E.00     | 01.TTS407.12.00          | 01.TTS407.22.00            | 01.TTS407.60.00     | 01.TTS409.02.00  |
| WINTech/790           | 9               | 20                | 00.IZK004.0E.00     | 01.TTS407.11.00          | 01.TTS407.21.00            |                     | 01.TTS409.01.00  |

## Notes





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