

# ROYAL - CONCEALED TILT & TURN GEARING



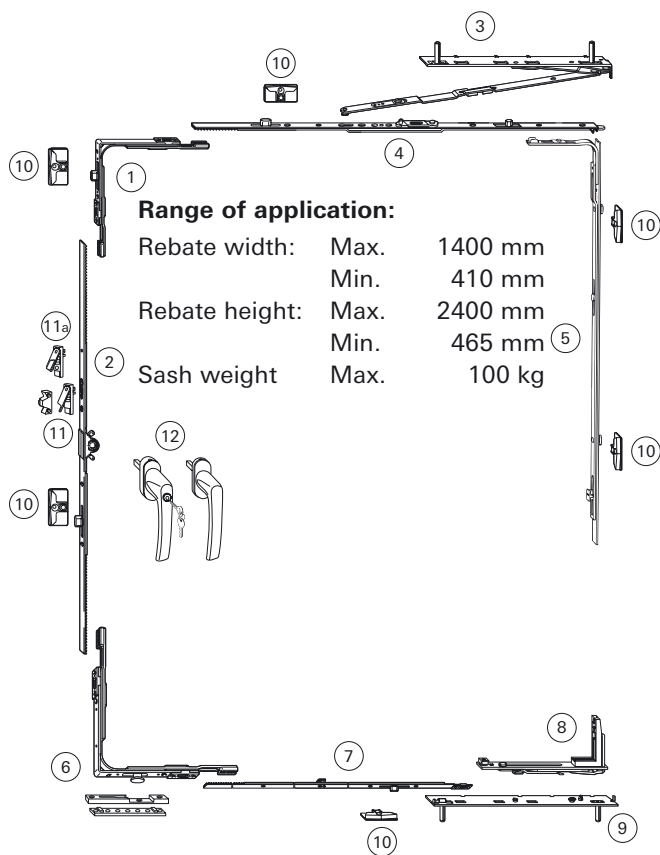
- Fully concealed hinges.
- Can be used on timber, PVC-U and aluminium systems
- Built in anti-slam device & restrictor.
- 16 mm faceplate width.
- Corrosion resistant to DIN 50021 and BS 7479.
- Meets the requirements of BS 7950 (dependant on profile).
- 10 year guarantee.

Roto Royal tilt & turn fittings are compatible with timber, PVC-U and aluminium profiles that have a standard eurogroove. Tilting, turning and locking positions are all achieved via rotation of the handle; available in a variety of finishes. All hinges are concealed, fully adjustable and incorporate an anti-slam device and tilt & 90° turn restrictor.



POLICE PREFERRED SPECIFICATION

# TILT & TURN GEARING



**Range of application:**

Rebate width:	Max.	1400 mm
	Min.	410 mm
Rebate height:	Max.	2400 mm
	Min.	465 mm
Sash weight	Max.	100 kg

**General Overview of Parts**

1. Corner drive
2. Tilt & turn espagnolette
3. Royal stay arm
4. Royal stay guide
5. Royal centre lock (vertical)
6. Tilt first corner drive
7. Additional extension for windows over 900 mm wide
8. Royal corner hinge
9. Royal pivot rest
10. Strikers
11. Mishandling device
- 11a. Alternative mishandling device
12. Locking / non-locking tilt and turn handles



**Fully concealed hinges**

**Standards and Specifications**

Roto Royal components are manufactured to comply with the requirements of the following standards:

- BS 7412** Plastic windows made from PVC-U extruded hollow profiles
- BS 6375** Performance of windows
- BS 7479** Salt spray corrosion tests in artificial atmospheres
- BS EN 12329:2000**  
(Grade 4 = 360hrs) Corrosion protection of metals  
- Electrodeposited coatings of zinc with supplementary treatment on iron or steel
- DIN 50021** Spray tests with different sodium chloride solutions
- BS 7950** Specification for enhanced security performance of casement and tilt & turn windows for domestic applications (profile dependant).
- DIN V 18054**  
(EF 1 and EF 2) Windows: Burglar resistant windows: terms, requirements, tests, marking and labelling.
- DIN 18055** Windows: air permeability of joints, water tightness and mechanical strain, requirements and testing.
- RAL-RG 607/3**  
Inclusive of life cycle testing to 60,000 cycles
- BBA** No. 99/3579 inclusive of weather performance, security, cycle testing and corrosion resistance.

The general design description lists characteristics of the Royal tilt and turn window.

- Designed for use on all timber, PVC-U and aluminium windows with a eurogroove and 12 mm fittings clearance.
- Faceplate width 16 mm.
- All parts are pre-set for easy fitting. Initial operation of the handle releases the mechanism.
- Compression strikers are adjustable by +/-1 mm, meaning fine adjustments can be made on site. (The R605 B6700 corner drive is adjustable through the cam on the base).
- Precision design ensures smooth performance in all applications.
- All hinges are concealed and fully adjustable.
- Anti slam device is built in.
- A standard tilt and 90° turn restrictor is built in.

For further information please refer to the Royal Tilt & Turn Brochure (rfgb015) available from our office.



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