

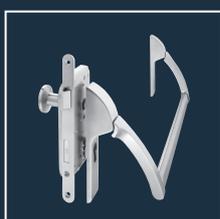
ECO **Newton** TS-61



Product information

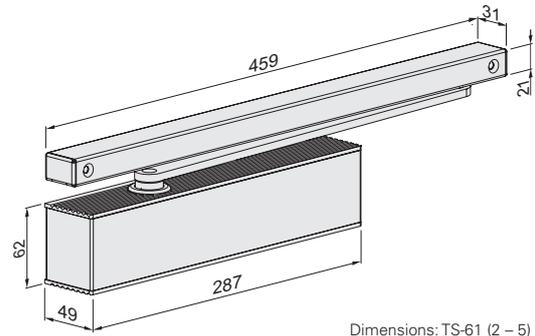


■ SYSTEM TECHNOLOGY FOR THE DOOR

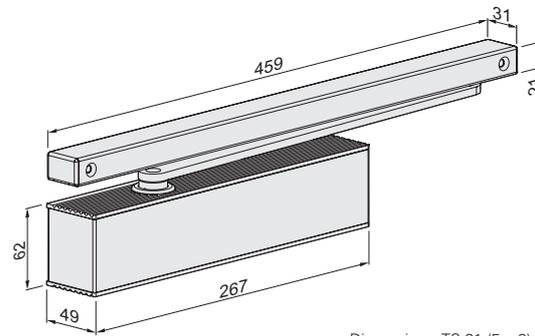


Product characteristics

	Size acc. to EN	2 – 5	2 – 5	5 – 6
Closing force (continuously adjustable)		F	SV	F
Door width	≤ 1.250 mm	■	■	■
acc. to EN	≤ 1.400 mm	-	-	■
Dimensions (incl. mounting plate)	Length in mm	287	287	267
	Depth in mm	49	49	49
	Height in mm	62	62	62
Mounting plate acc. to EN 1154 (supplementary sheet 1)		■	■	■
Hinge side and hinge-opposite side		□	□	□
DIN left / right		■	■	■
Latching speed (continuously adjustable)		■	■	■
Closing speed (continuously adjustable)		■	■	■
Back-check (continuously adjustable)		■	■	■
Delayed action (continuously adjustable)		-	■	-
Tested acc. to EN		EN 1154		
Suitable for fire- and smoke control doors		F	-	F
Certified according to EU-Directive		CE	-	CE



Dimensions: TS-61 (2 – 5)



Dimensions: TS-61 (5 – 6)



- Yes
- No
- Option

ECO Newton TS-61 ■ Highlights at a glance

ECO UNITY

ECO PHYSIS

ECO CLIC

ECO MOUNT

ECO VALVE

ECO COVER²

ECO GREEN

ECO LINE

ECO VARIO

Details regarding the ECO Newton Highlights can be found in the intro of this chapter.

Body: Silver RAL 9006
 ECOcllic: Stainless steel polished or satin

Body + ECOcllic: White RAL 9016

Body + ECOcllic: Black RAL 9005

Body + ECOcllic: Brown RAL 8014

Slide rail and arm are always delivered in the same colour as the ordered door closer body.

Under-lintel angle for door closer

Under-lintel angle for slide rail

Adaptor profiles

Applications for the ECO Newton TS-61

The ECO **Newton TS-61** is designed for middle and heavy function doors (**EN 1154** up to size 5 resp. 6) and can be used everywhere, where elegant design, functionality, ease of opening and cost-conscious building need to be combined. Closing speed, back-check and latching speed can be adjusted continuously. Delayed action (only for size EN 2-5, up to 70°) is an option.

Due to its gearing design, the ECO **Newton TS-61** achieves a high degree of efficiency and thereby an optimal ratio between opening and closing act. This makes the ECO **Newton TS-61** the perfect problem solver on standard and function doors. Especially for the object area.

The ECO **Newton TS-61** (2 – 5) meets the **DIN 18040** (Construction of accessible buildings with requirements for smooth-running doors with high efficiency) up to closing force EN 4. The maximum opening moment at closing force EN 4 is just about 42 Nm (the standard **DIN 18040** requires an opening moment of 47 Nm for fire resistant doors with door closers).

Germany:
DIN 18040 – Barrier free building

France:
PMR



Extracts from DIN 18040-1:2010-10

4.3.3.3 Requirements on the design of the door

It must be possible to open and close doors with a low force (max. 25 Nm), otherwise, automatic door systems are required, see **DIN 18650-1** and **DIN 18650-2**, according to table 1 in this standard, from line 12. If door closers are required, then they must be set so that the opening torque does not exceed size 3 according to **DIN EN 1154** (max. 47 Nm).

It is recommended to use door closers with smoothly adjustable closing force.

So that people with restricted mobility have enough time to pass safely through the door, closing delays may be necessary.

For fire and smoke safety doors, holding systems (e.g. magnets or a free swing door closer) should be used.

Order information

ECO **Newton** TS-61 ■ Door closer with slide rail

Product information

Closing force 2 – 5 (5 – 6) tested acc. to **EN 1154** (for door width up to 1.250 mm (1.400 mm) continuously adjustable. Latching speed, closing speed and back-check continuously adjustable. **Delayed action as option (only for closing force EN2-5)**. Same version DIN left and DIN right. Mounting height with mounting plate only 49 mm. Door opening angle: 180°

- **ECOunity**: The ECO **Newton** closer portfolio covers all door dimensions with only two basic closer units.
- **ECOphysics**: Door closer and slide rail build a unit in aluminium and stainless steel
- **ECOcllic**: The stainless steel cover encloses the aluminium body with the power of spring steel and conceals all of the adjusting elements, thus securing the closer against unauthorized access.
- **ECMount**: Mounting plate according to **EN 1154** is completely covered by the door closer.
- **ECOvalve**: Simple, high-precision and permanently secure adjustment of all parameters of the closing process with one conventional allen key.
- **ECOgreen**: The intelligent construction and carefully planned use of materials help considerably to save resources.
- **ECOcover²**: Optional stainless steel cover for the ECO **Newton** door closers and related slide rails. Please order the lever arm in stainless steel look for the perfect overall appearance.
- **ECOline**: The mounted slide rail and door closer are flush when the door is closed. The colours of all materials are perfectly matched- right down to the end caps of the slide rail.
- **ECOvario**: Allows the use of all slide rail door closers and can even be combined with different door leaf widths. In this way, optimum value for money can be achieved for each individual door situation.

New packaging:

Set incl. door closer body, slide rail B, arm for slide rail B, allen key, mounting plate, mounting instructions, paper template and fixing material.



Hinge side

Without delayed action

TS-61 B (5 – 6) **EN 1154 F CE**



Closer body with arm and slide rail B	Colour	Article number	Closer body with arm, without slide rail B	Colour	Article number
TS-61 B (5 – 6)	Silver RAL 9006*	306153CB1A01010	TS-61 B (5 – 6)	Silver RAL 9006*	356153CB1A00210
TS-61 B (5 – 6)	White RAL 9016	306153CB3E01010	TS-61 B (5 – 6)	White RAL 9016	356153CB3E00210
TS-61 B (5 – 6)	Brown RAL 8014	306153CB3D01010	TS-61 B (5 – 6)	Brown RAL 8014	356153CB3D00210
TS-61 B (5 – 6)	Black RAL 9005	306153CB3G01010	TS-61 B (5 – 6)	Black RAL 9005	356153CB3G00210

TS-61 B (2 – 5) **EN 1154 F CE**



Closer body with arm and slide rail B	Colour	Article number	Closer body with arm, without slide rail B	Colour	Article number
TS-61 B (2 – 5)	Silver RAL 9006*	306153AB1A01010	TS-61 B (2 – 5)	Silver RAL 9006*	3516153AB1A00210
TS-61 B (2 – 5)	White RAL 9016	306153AB3E01010	TS-61 B (2 – 5)	White RAL 9016	3516153AB3E00210
TS-61 B (2 – 5)	Brown RAL 8014	306153AB3D01010	TS-61 B (2 – 5)	Brown RAL 8014	3516153AB3D00210
TS-61 B (2 – 5)	Black RAL 9005	306153AB3G01010	TS-61 B (2 – 5)	Black RAL 9005	3516153AB3G00210

With delayed action

TS-61 B-SV (2 – 5) **EN 1154**



Closer body with arm and slide rail B	Colour	Article number	Closer body with arm, without slide rail B	Colour	Article number
TS-61 B-SV (2 – 5)	Silver RAL 9006*	306154AB1A01010	TS-61 B-SV (2 – 5)	Silver RAL 9006*	356154AB1A00210
TS-61 B-SV (2 – 5)	White RAL 9016	306154AB3E01010	TS-61 B-SV (2 – 5)	White RAL 9016	356154AB3E00210
TS-61 B-SV (2 – 5)	Brown RAL 8014	306154AB3D01010	TS-61 B-SV (2 – 5)	Brown RAL 8014	356154AB3D00210
TS-61 B-SV (2 – 5)	Black RAL 9005	306154AB3G01010	TS-61 B-SV (2 – 5)	Black RAL 9005	356154AB3G00210

Hinge-opposite side

Without delayed action

TS-61 G (5 – 6) EN 1154 F CE



Closer body with arm and slide rail B	Colour	Article number	Closer body with arm, without slide rail B	Colour	Article number
TS-61 G (5 – 6)	Silver RAL 9006*	306163CB1A01010	TS-61 G (5 – 6)	Silver RAL 9006*	356163CB1A00210
TS-61 G (5 – 6)	White RAL 9016	306163CB3E01010	TS-61 G (5 – 6)	White RAL 9016	356163CB3E00210
TS-61 G (5 – 6)	Brown RAL 8014	306163CB3D01010	TS-61 G (5 – 6)	Brown RAL 8014	356163CB3D00210
TS-61 G (5 – 6)	Black RAL 9005	306163CB3G01010	TS-61 G (5 – 6)	Black RAL 9005	356163CB3G00210

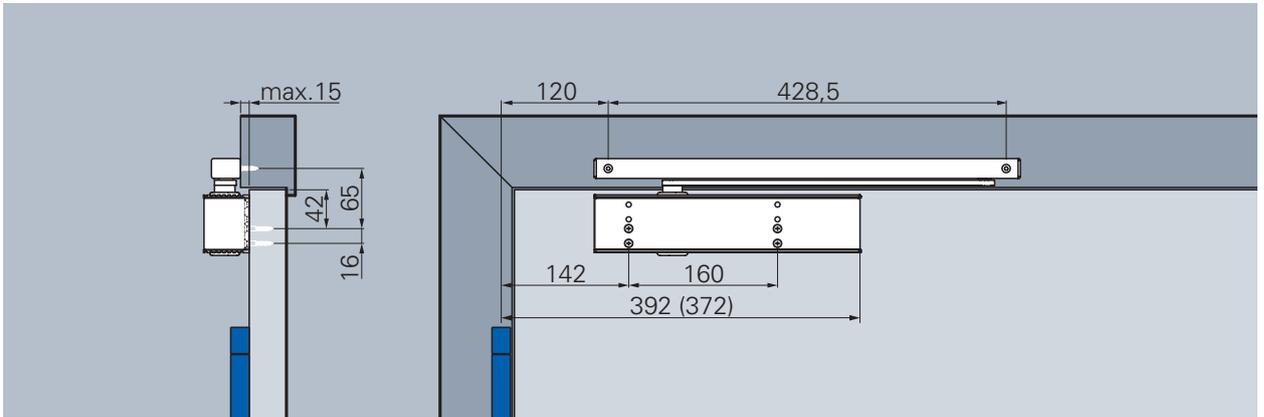
TS-61 G (2 – 5) EN 1154 F CE



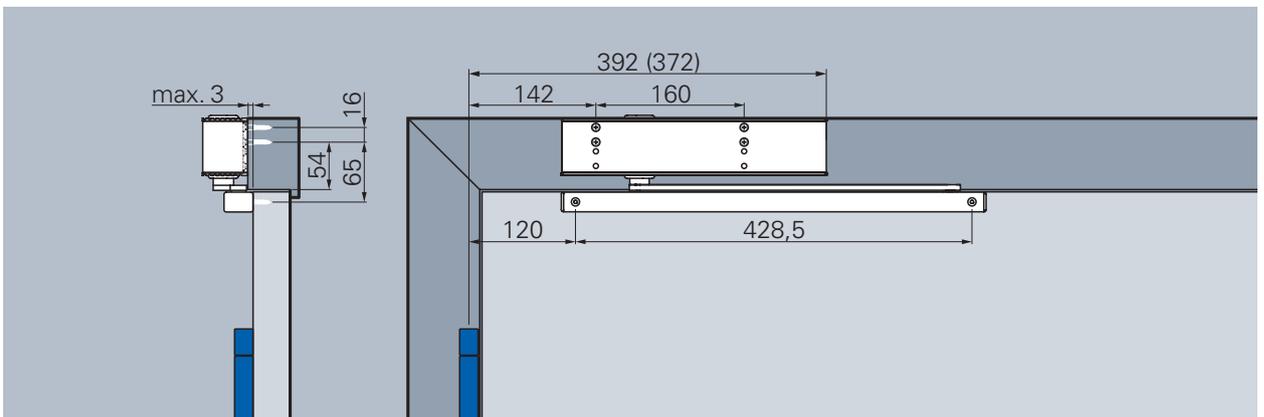
Closer body with arm and slide rail B	Colour	Article number	Closer body with arm, without slide rail B	Colour	Article number
TS-61 G (2 – 5)	Silver RAL 9006*	306163AB1A01010	TS-61 G (2 – 5)	Silver RAL 9006*	356163AB1A00210
TS-61 G (2 – 5)	White RAL 9016	306163AB3E01010	TS-61 G (2 – 5)	White RAL 9016	356163AB3E00210
TS-61 G (2 – 5)	Brown RAL 8014	306163AB3D01010	TS-61 G (2 – 5)	Brown RAL 8014	356163AB3D00210
TS-61 G (2 – 5)	Black RAL 9005	306163AB3G01010	TS-61 G (2 – 5)	Black RAL 9005	356163AB3G00210

Hinge side

Mounting with slide rail B, illustration DIN left door, DIN right laterally reversed



Standard mounting TS-61 with slide rail B, hinge side



Head mounting TS-61 G with slide rail B, hinge side

Closing speed

Continuously adjustable closing speed from approx. 180° to 0°

Latching speed

Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10 to 0°

Back-check

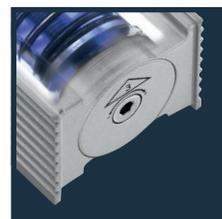
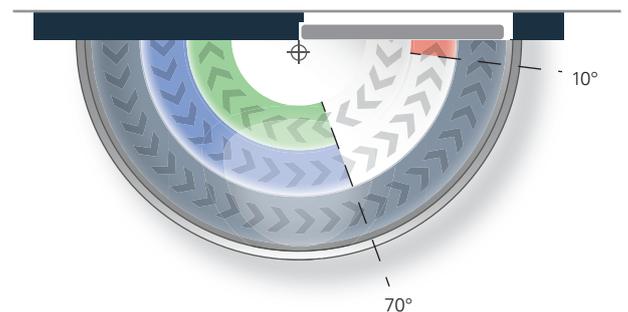
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check continuously adjustable

Delayed action (only for TS-61 SV)

Not suitable for fire-and smoke control doors!
Not certified according to EU directives!

Reduces the closing speed and allows a safer passing for people and transports. Especially suitable for the use in nursing homes and hospitals. Delay action continuously adjustable. Works between 180° to 70°.

Closing force diagram ECO Newton TS-61, Hinge side



Closing force:

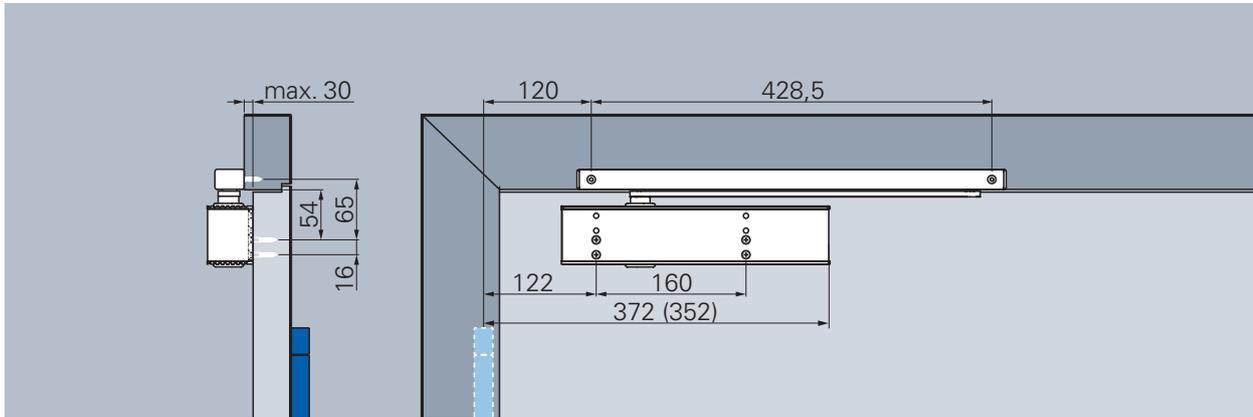
Continuously adjustable TS-61 (5 – 6) min. size 5 max. size 6

Continuously adjustable TS-61 (2 – 5) min. size 2 max. size 5

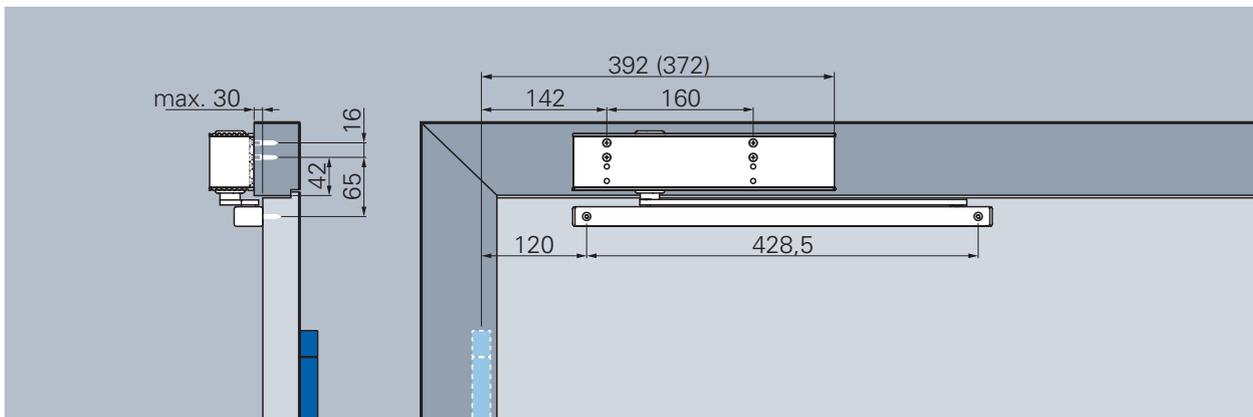
Default delivery condition: size 3

Hinge opposite side

Mouting with slide rail B, illustration DIN right door, DIN left laterally reversed



Standard mounting TS-61 G with slide rail B, hinge-opposite side



Head mounting TS-61 with slide rail B, hinge-opposite side

Closing speed

Continuously adjustable closing speed from approx. 140°* to 0°

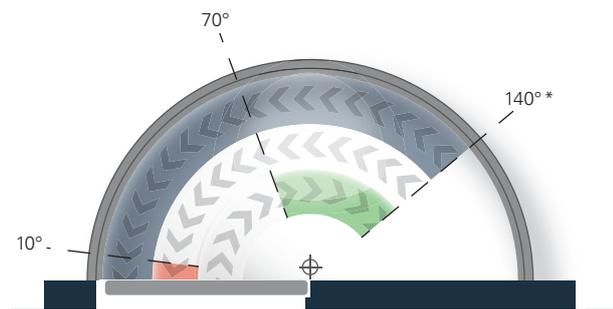
Latching speed

Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10 to 0°

Back-check

Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check continuously adjustable

Closing force diagram ECO Newton TS-61, Hinge opposite side



*Varies according to door thickness and type of hinge

A door stopper for opening limit is a must!



Back-check is not working when using head mounting

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