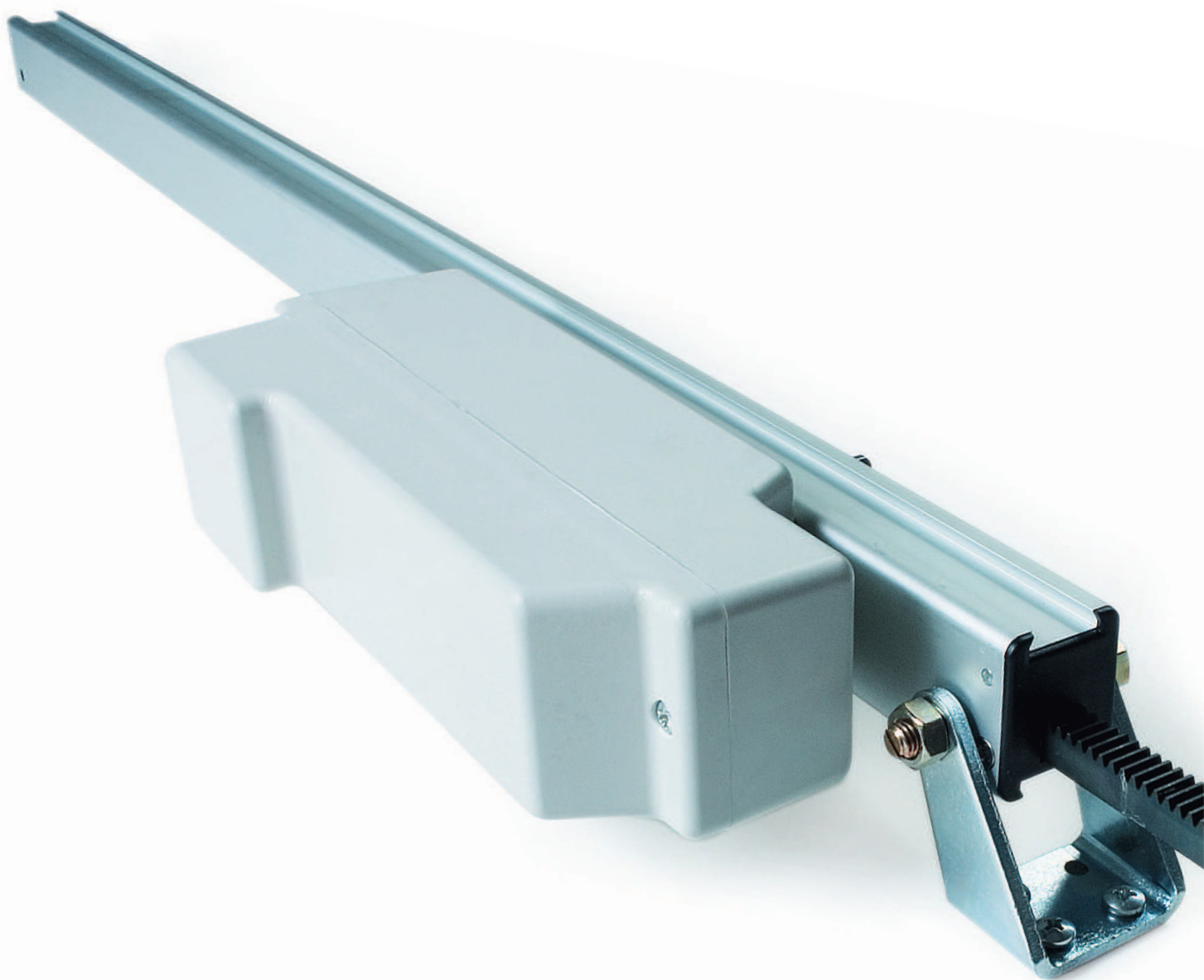


# RACK, DUAL RACK and DOUBLE RACK

Linear rack actuators - Force in push action 650/1500 N - Stroke 180, 350, 550, 750 and 1000 mm



- 10 mm square rack transmission for stroke 180 mm, 350 mm, 550 mm and 12 mm square rack transmission for stroke 750 mm e 1000 mm.
- Supplied with 1,5 m cable.
- Available end brackets or sliding brackets (to be ordered separately); the dovetail slide allows the fixing on the whole length of the rack actuator.
- 24 Vdc version is suitable for installation on smoke and heat extraction systems in conformity to UNI EN 12101-2.
- (\*) RACK 24 Vdc approved by **Istituto Giordano** (test report 243341) and TÜV NUM: KH 00.1.2.

## MULTIPLE SYSTEMS

- To guarantee more push points on the same vent the rack actuator can be used either in the Dual Rack version with rack groups or in the Double rack version with auxiliary rack actuators; these systems, since guarantee stability, are particularly adapt to open domes and very large top hinged windows.
- **Dual Rack:** push force 650 N (230 Vac) - 750 N (24 Vdc) For each system assembly are necessary 1 Rack actuator, 1 Rack group, 1 connecting rod and 2 end brackets (part No. 40234E see following accessories)
- **Double Rack:** push force 1300 N (230 Vac) - 1500 N (24 Vdc) For each system are necessary 1 Rack actuator, 1 Auxiliary Rack actuator in parallel connection, 1 connecting rod, and 2 end brackets (part No. 40234E see following accessories)
- **Other multiple systems:**  
It is also available a rack group double pivot for 3 or more push - points systems.

VOLTAGE SUPPLY  
ELECTRIC CONNECTION  
OPERATION  
FORCE IN PUSH ACTION  
FORCE IN PULL ACTION  
SPEED  
CURRENT ABSORPTION (with max load)  
PARALLEL CONNECTION  
LIMIT STOP  
SAFETY STOP  
FEEDBACK SIGNAL  
PROTECTION CLASS

#### RACK 230 V AC

230 Vac  $\pm$  10%  
3 wires + earth

650 N  
350 N  
~ 8 mm/s  
0,1 A  
YES  
Electronic  
Electronic

IP 55

COLOUR

SILVER ANODIZED

#### RACK 24 V DC \*

24 Vdc  $\pm$  10%  
2 wires + signalling  
by polarity inversion  
750 N  
650 N  
~ 8 mm/s  
1 A  
YES  
Electronic  
Electronic  
open/close  
IP 55

SILVER ANODIZED

#### PART No.

STROKE 180 mm (A = 400 mm)  
STROKE 350 mm (A = 570 mm)  
STROKE 550 mm (A = 770 mm)  
STROKE 750 mm (A = 970 mm)  
STROKE 1000 mm (A = 1220 mm)

40209F  
40211T  
40213V  
40789D  
40790E

40400A  
40217D  
40219H  
40791F  
40792G

Note: A = lenght of the actuator  
(see next page)

#### Part. No

STROKE 180 mm  
STROKE 350 mm  
STROKE 550 mm  
STROKE 750 mm  
STROKE 1000 mm

#### RACK GROUP

40223B  
40225D  
40227F  
40754U  
40755V

#### RACK GROUP DOUBLE PIVOT

40379W  
40380U  
40381V  
40851N  
40852O

#### AUXILIARY RACK 230 VAC

40631P  
40632S  
40633U  
40847J  
40848K

#### AUXILIARY RACK 24 VDC

40636A  
40637C  
40638E  
40849L  
40850M

#### CONNECTING ROD:

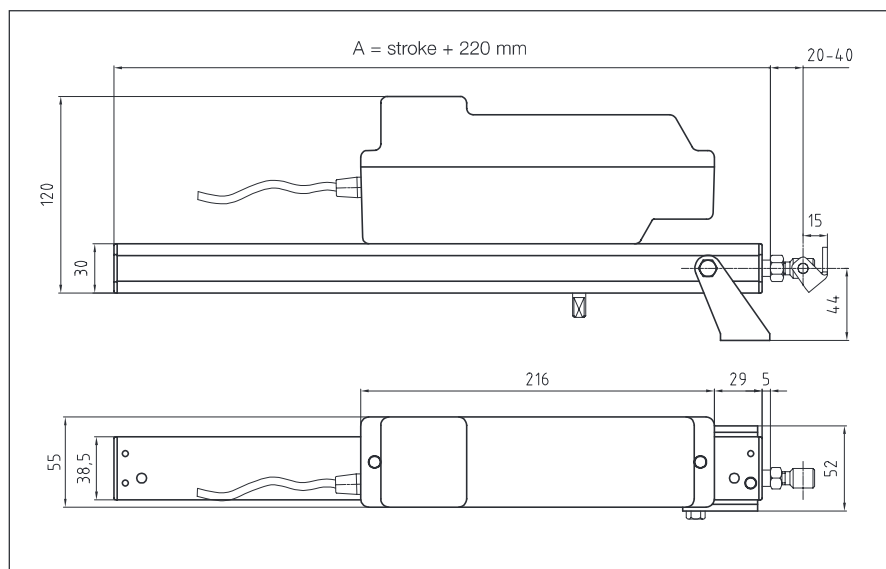
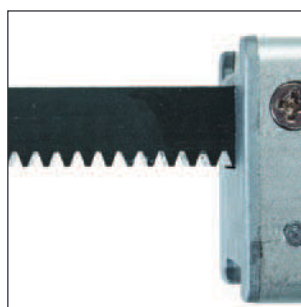
Diameter 12 mm in stainless steel. Quick clutch: fixing accessories are not necessary.  
Available lengths (distance between racks) are:

#### PART No.

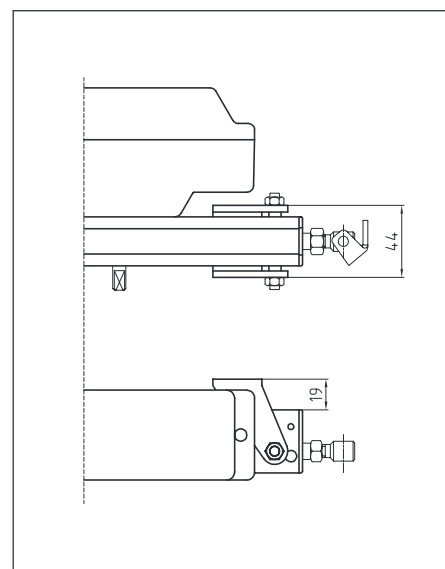
1000 mm  
1500 mm  
2000 mm

40231B  
40232C  
40233D



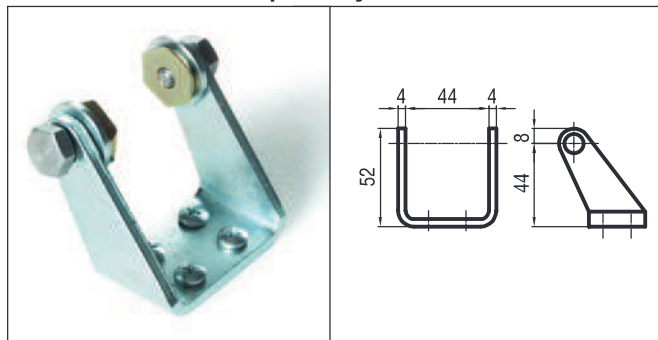
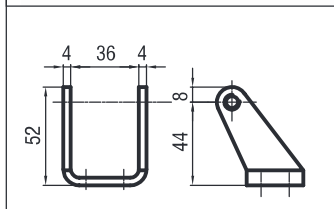


Rack actuator with sliding bracket part No. 40235F



Rack actuator with end bracket part No. 40234E

## Accessories: the brackets have to be ordered separately



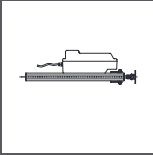
Galvanized steel sliding bracket part No. 40235F. It allows the fixing for the whole length of the actuator. To use only for single Rack.

Galvanized steel end bracket part No. 40234E. To use for Dual Rack and Double Rack system or single Rack.

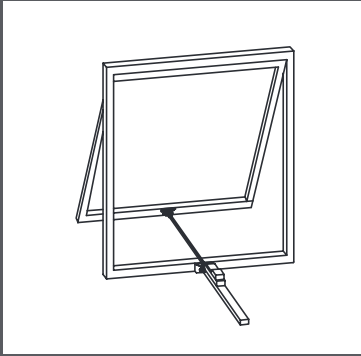


Galvanized steel connector kit to fix the rack on the vent.

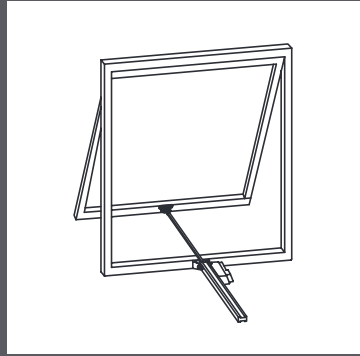
## Installation examples



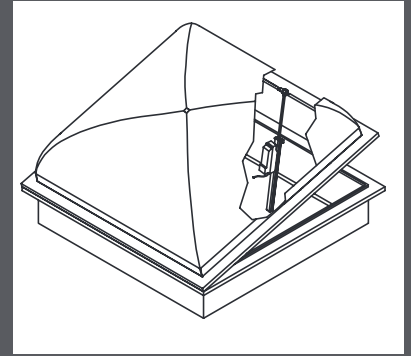
Single rack



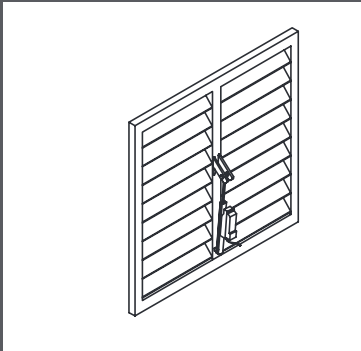
On top hinged window without windowsill with front fixing through sliding bracket part No. 40234E



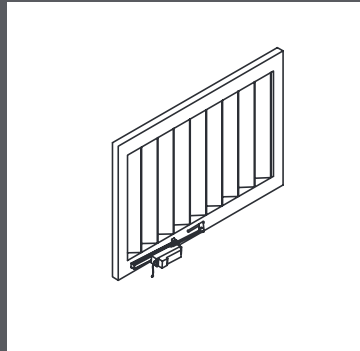
On top hinged window without windowsill with front fixing through end bracket part No. 40234E



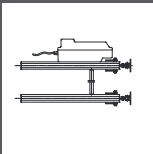
On domes with front fixing through sliding bracket part No. 40235F



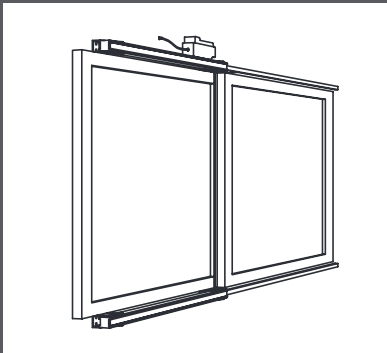
On horizontal louvers with back fixing through sliding bracket part No. 40235F



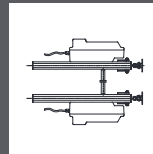
On vertical sun blades with back fixing through sliding bracket part No. 40235F



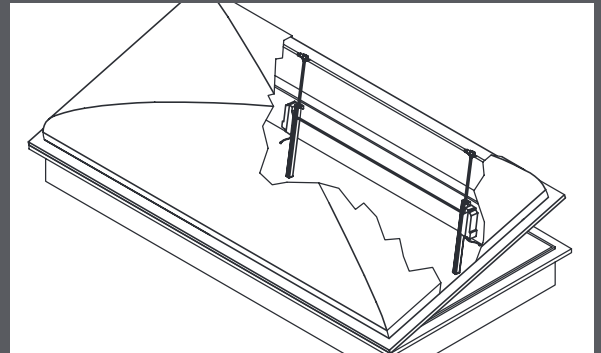
Dual Rack



Installation of the Dual Rack on sliding windows with end bracket part No. 40234E and connection of the two actuators through rod



Double Rack



Installation of the Double Rack on domes with end bracket part No. 40234E and connection of the two actuators through rod

 The instructions for a safe installation are included in the section "SECURITY WARNINGS"

### SPECIFICATION PROSPECTS

#### RACK

Electric linear actuator Ultraflex Control Systems. Available strokes 180, 350, 550, 750 or 1000 mm. Voltage supply: 230 Vac or 24 Vdc. Electronic safety limit stop and electronic stop in the intermediate positions. Parallel connection. Colour: silver anodized.

#### DUAL RACK

System with a second push point composed by one Rack Actuator, one Rack Group, and a connecting rod. Force 650 N/750 N

#### DOUBLE RACK

System with a second push point composed by one Rack Actuator, one auxiliary Rack and a connecting rod. Force 1300 N/1500 N. Systems with more than two push points can be obtained putting a Rack Group double pivot. Rack 230 Vac and Rack 24 Vdc are conform to 2004/108/CE directive, the 230 Vac version is also conform to 2006/95/CE directive.

