

Lifting column



technology[?]

E-series

E23

Max 2.500 N



Description

The E23 columns are our smallest column that suits medical, industrial, and ergonomic applications where a very small and robust lifting column is needed. With its stiff aluminum tubes and long-life pads, it offers a stable and reliable guiding system that is maintenance free.



 Long lifetime

 Low noise

 Robust

Features

Push
Cable out large tube (SE-V)
Cable out small tube (SE-B)
Build in Hall Sensors
Limit switch

Options

Potentiometer
Cable out small tube (SE-V)
Cable out large tube (SE-B)
Customizable top/bottom plates

Technical data

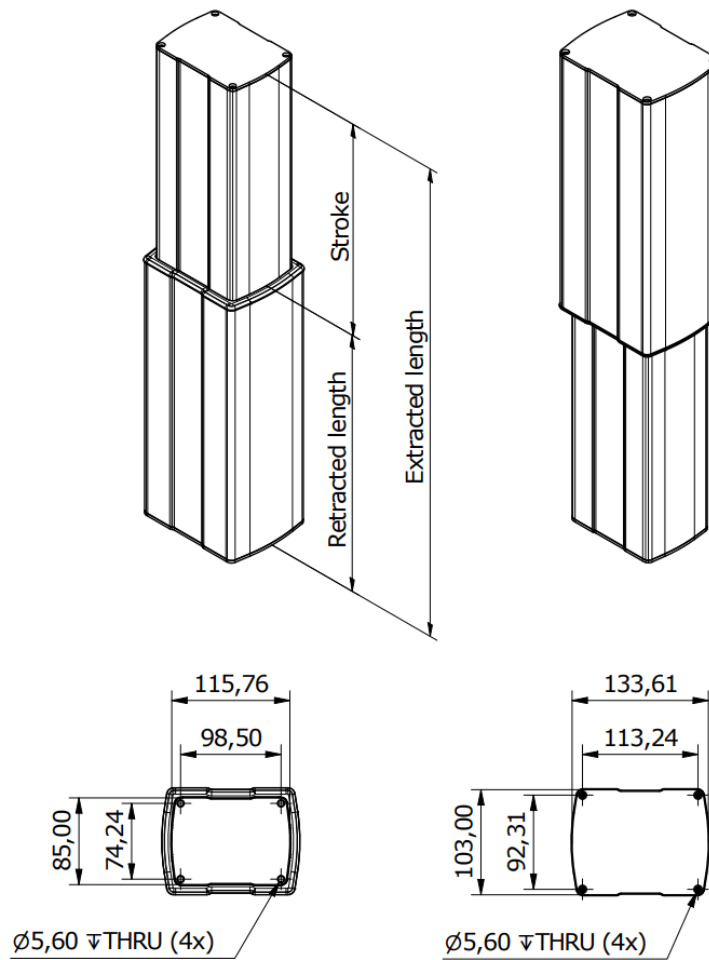
	SE-BF23	SE-VF23	SE-BD23	SE-VD23	SE-BE23	SE-VE23
Force, max push*	1.100 N	1.500 N	1.500 N	1.900 N	2.000 N	2.500 N
Self-locking force**	1.100 N	700 N	1.500 N	1.500 N	2.000 N	2.000 N
Speed @max load	25 mm/s	26 mm/s	23 mm/s	20 mm/s	16 mm/s	13 mm/s
Stroke, S (longer strokes on request)	50 mm to 700 mm					
Retracted length, R***	$R = S + 120$					
Duty cycle [%]	10 % (1 min ON / 9 min OFF)					
Voltage	24 VDC					
Ambient temp	+10°C to +40°C					
Current @max load	7 A	6 A	7 A	6 A	7 A	6 A
IP Class	IP 30					
Safety factor Static centric load @ max stroke & load*	7	4,5	1,8	2,5	5	4

* See diagrams on page 3

** Only applied when connected by short circuit

*** Longer retracted length enables more offset load, see diagrams on page 3

Technical drawing



Pin layout (SE-B)

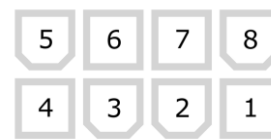


6 pin 172160-1 Male

Connectors

	Description	Colour
1.	Motor -	Black
2.	Motor +	Blue
3.	Hall sensor +5V,	Red
4.	Hall sensor output 2	Violet
5.	Hall sensor -	Black
6.	Hall sensor output 1	Green

Pin layout (SE-V)



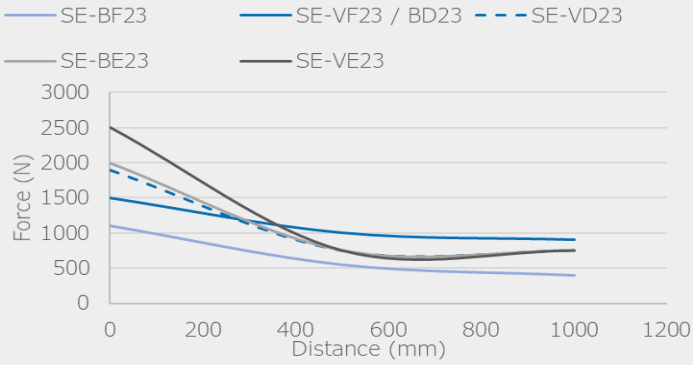
8 pin JS-1149-08 Male

Connectors

	Description	Colour
1.	Hall sensor 1	White
2.	+5V	Red
3.	Limit switch 2	-
4.	Motor+	Green (motor: White)
5.	Hall sensor 2	Blue
6.	Limit switch 1	-
7.	GND	Black
8.	Motor-	Yellow

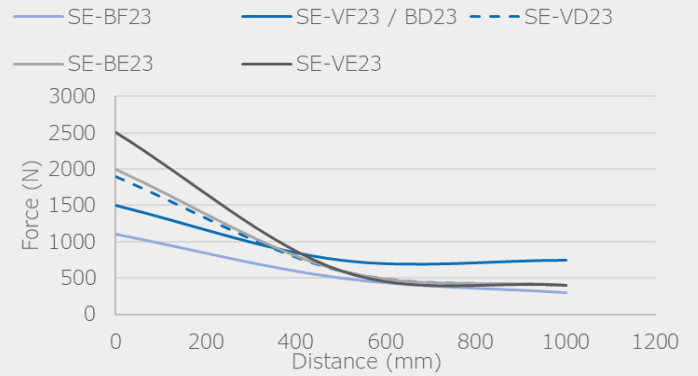
Offset load diagrams

Long retracted length



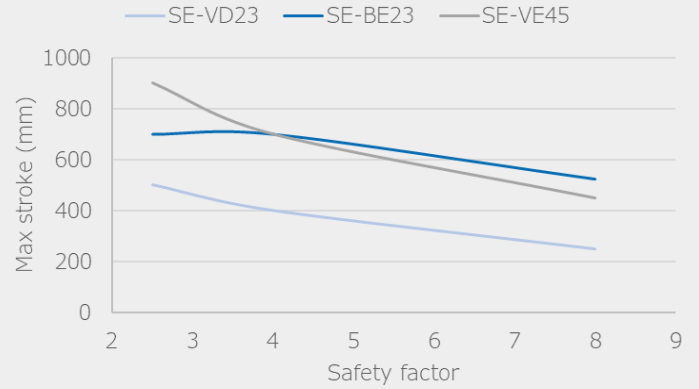
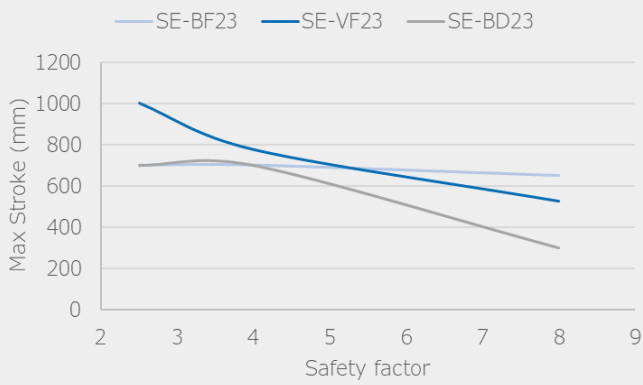
Retracted length: $R = \text{Stroke} + 270 \text{ mm}$

Short retracted length

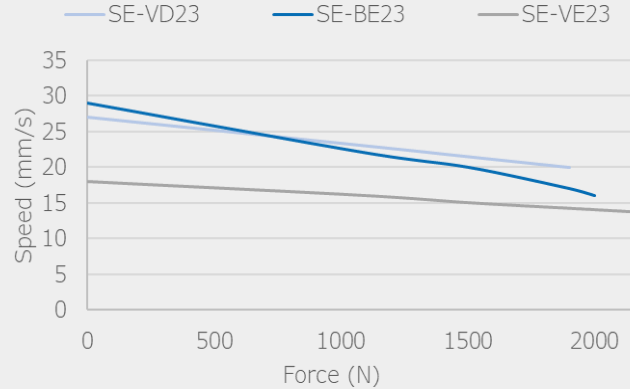
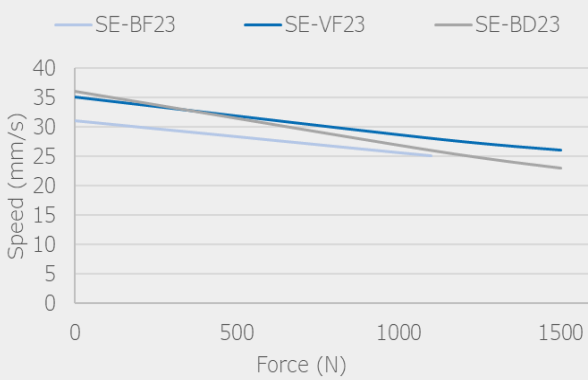


Retracted length: $R = \text{Stroke} + 190 \text{ mm}$

Safety factor diagrams



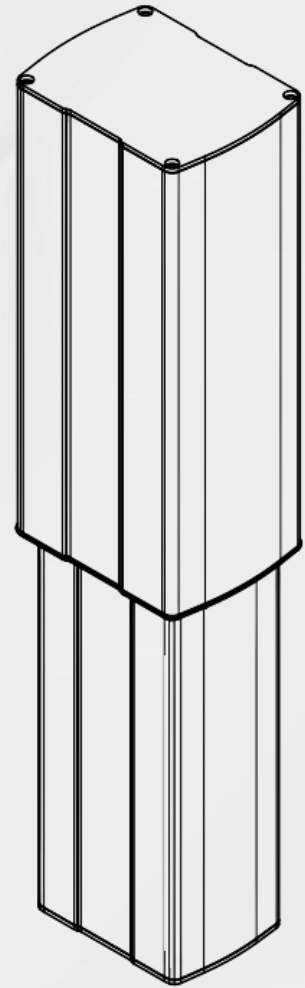
Speed diagrams



X2 Technology – The Customizer

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