Lifting column

B-series

B13

Max 5.000 N

Made in Sweden

Description

The DB-13 columns are very stable and robust columns with two screws that enables short retracted lengths. With its stiff aluminum tubes and long-life pads, it offers a stable and reliable guiding system that is maintenance free.

⏰ Long lifetime

⚠️ Great offset load

🛡️ Very robust

Features

Push
Cable out small tube
Build in Hall Sensors
Limit switch

Options

Potentiometer
Cable through
Customizable top/bottom plates

Technical data

|	DB-EL13	DB-EL13	DB-EL13	DB-ML13	DB-NL13
Force, max push*	800 N	1.800 N	3.000 N		5.000 N
Self-locking force**	800 N	1.800 N	3.000 N		5.000 N
Speed @max load	60 mm/s	32 mm/s	16 mm/s	10 mm/s	14 mm/s
Stroke, S (longer strokes on request)	50 mm to 1.000 mm			50 mm to 600 mm	50 mm to 500 mm
Retracted length, R***	R=S/2+150 mm	R=S/2+100 mm	R=S/2+150 mm	R=S/2+175 mm	R=S/2+225 mm
Duty cycle [%]	10 % (1 min ON / 9 min OFF)				
Voltage			24 VDC		
Ambient temp			+10°C to +40°C		
Current @max load	10 A			5 A	10 A
IP Class	IP 30				
Safety factor Static centric load @ max stroke & load*	15	7	6	-	-

See diagrams on page 3
*** Only applied when connected by short circuit*
**** Longer retracted length enables more offset load, see diagrams on page 3*
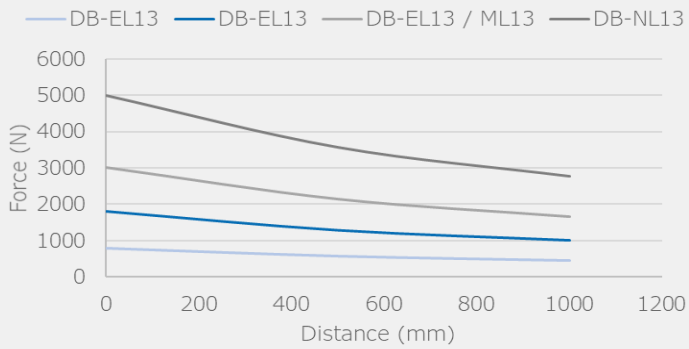
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Technical drawing G13
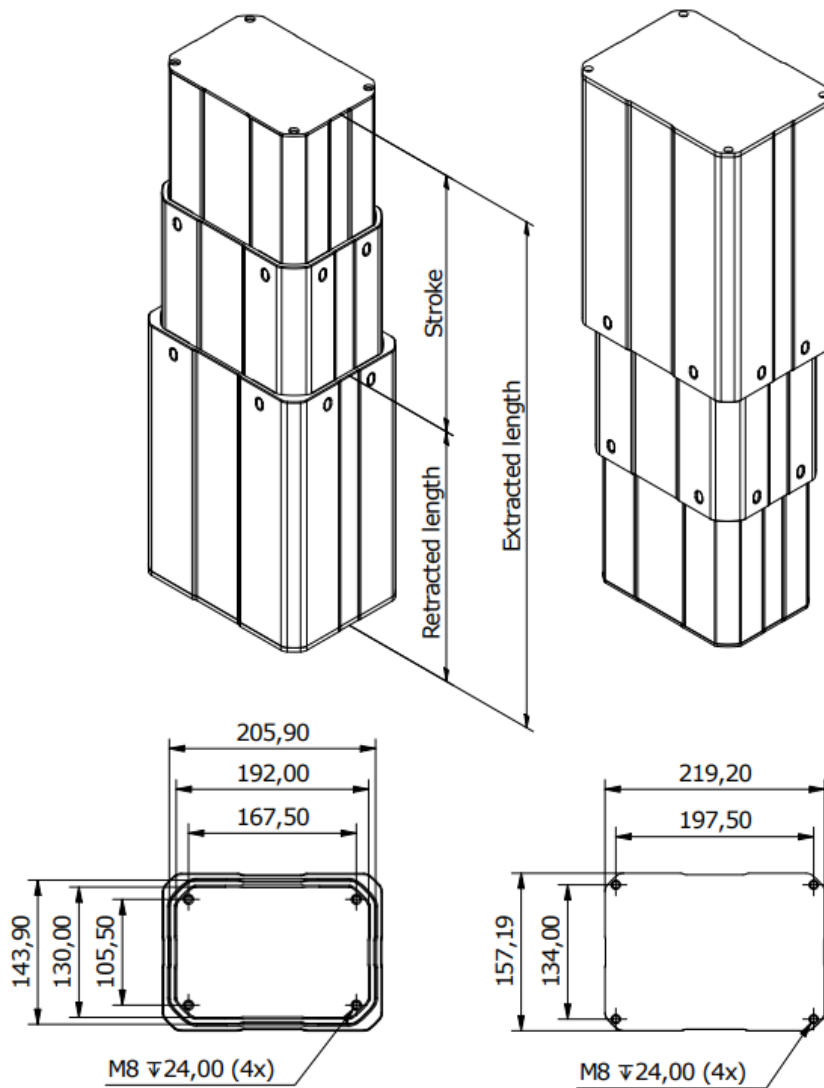
Pin layout
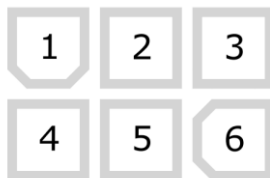
6 pin 172160-1 Male

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

Offset load diagrams

Long retracted length

Legend: DB-EL13 — DB-EL13 — DB-EL13 / ML13 — DB-NL13

Force (N) vs Distance (mm)

Retracted length: R = Stroke + 270 mm

Short retracted length

Legend: DB-EL13 — DB-EL13 — DB-EL13 / ML13 — DB-NL13

Force (N) vs Distance (mm)
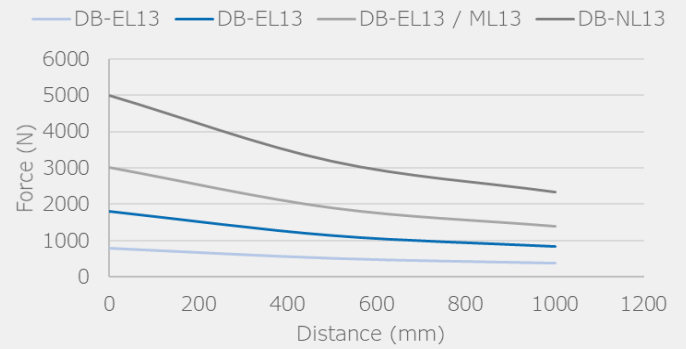
Retracted length: R = Stroke + 195 mm

Speed diagram

Legend: DB-EL13 — DB-EL13 — DB-EL13 — DB-ML13 — DB-NL13

Speed (mm/s) vs Force (N)

Safety factor diagram

Legend: DB-EL13 — DB-EL13 — DB-EL13

Max stroke (mm) vs Safety factor
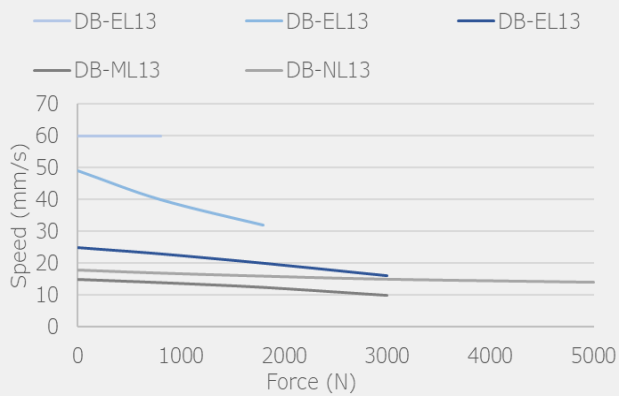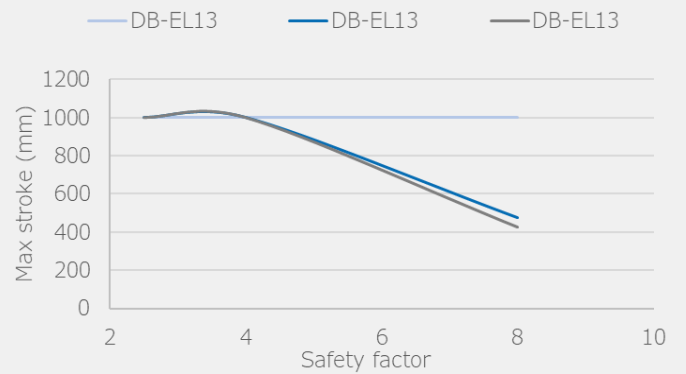
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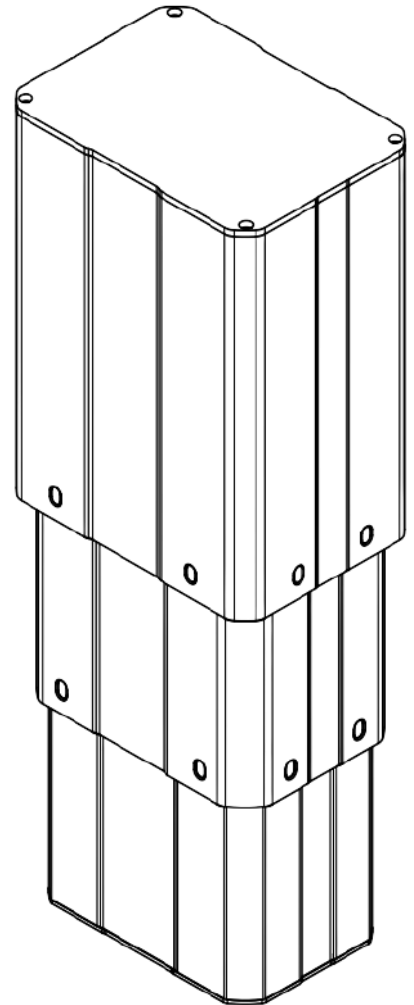
Phoenix Mecano AB

☎   +46 470 717950

✉   info@x2technology.se

🔗   www.x2technology.se

🇸🇪 Made in Sweden

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