



X2 TECHNOLOGY

A Phoenix Mecano Brand

Lifting column

B-series

B13

Max 2.000 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



Very robust



Great offset capacity

Features

Push
Cable out large tube
Build in Hall Sensors
Limit switch

Options

Potentiometer
Cable out small tube
Cable through
Customizable top/bottom plates

Technical data

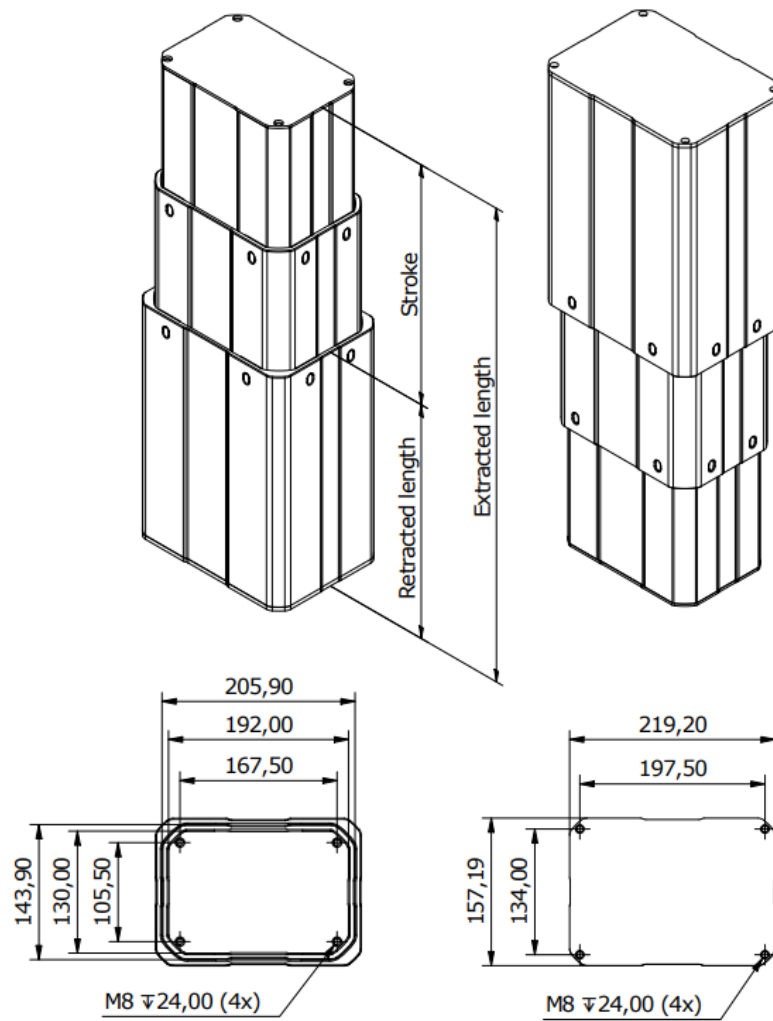
	DB-SJ13	DB-SI13	DB-SH13	DB-EJ13	DB-EI13	DB-SG13	DB-EH13
Force, max push*	1.000 N	1.400 N	1.500 N	1.500 N	1.800 N	2.000 N	2.000 N
Self-locking force**	1.000 N	1.400 N	1.500 N	1.500 N	1.800 N	2.000 N	2.000 N
Speed @max load	31 mm/s	23 mm/s	18 mm/s	48 mm/s	36 mm/s	10 mm/s	28 mm/s
Stroke, S (longer strokes on request)	50 mm to 1.000 mm						
Retracted length, R***	R = S/2 + 175 mm						
Duty cycle [%]	10 % (1 min ON / 9 min OFF)						
Voltage	24 VDC						
Ambient temp	+10°C to +40°C						
Current @max load	5,5 A			10 A		5 A	10 A
IP Class	IP 30						
Safety factor Static centric load @ max stroke & load*	5	3,5	3,25		2,5		

* 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 (SB-E)



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 (SB-S)



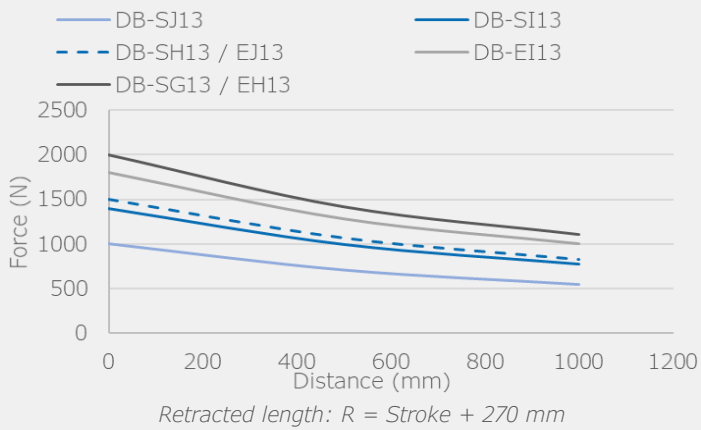
8 pin JS-1149-08 Male

Connectors

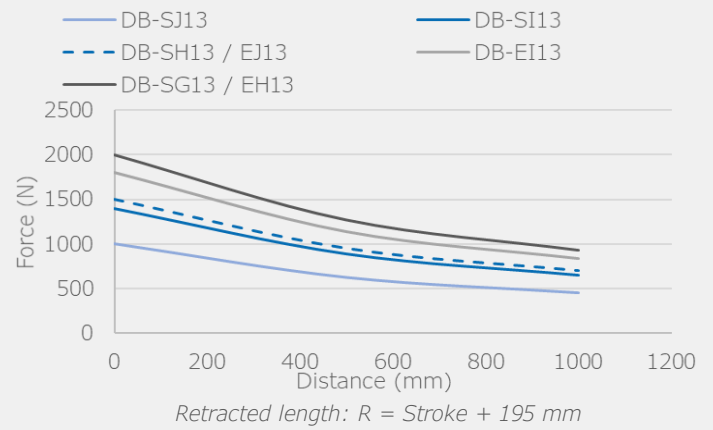
	Description	Colour
1.	Hall sensor 1	White
2.	+5V	Red
3.	Limit switch 2	-
4.	Motor+	Green (motor: White)
5.	Hall sensor 2	Blue
6.	Limit switch 1	-
7.	GND	Black
8.	Motor-	Yellow

Offset load diagrams

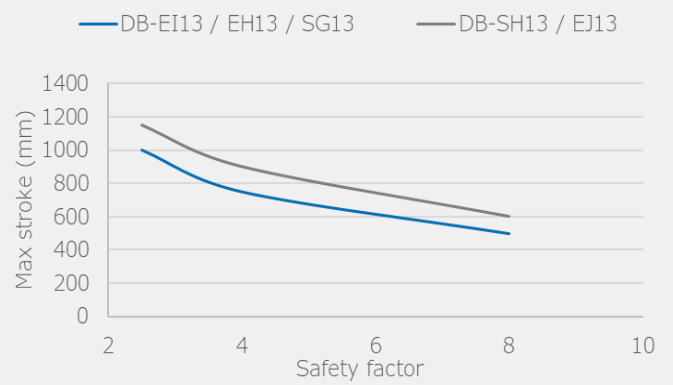
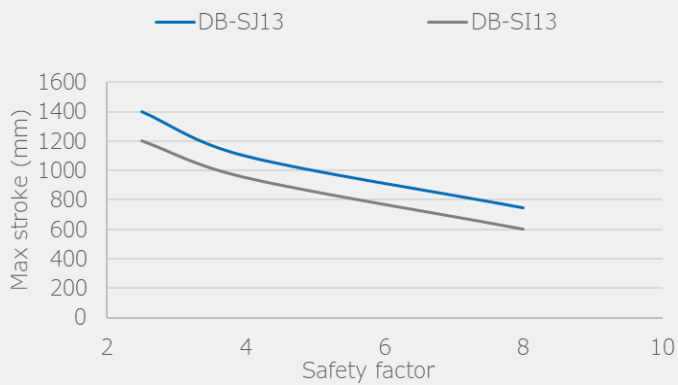
Long retracted length



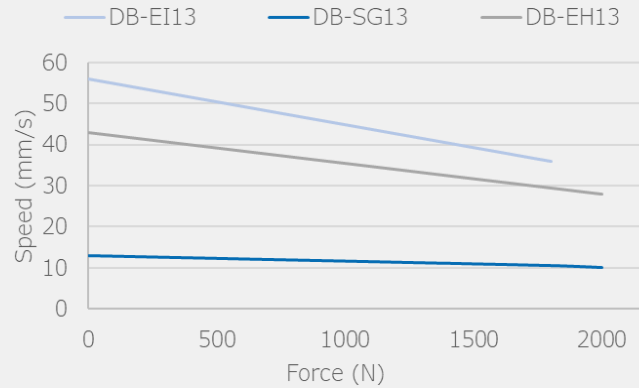
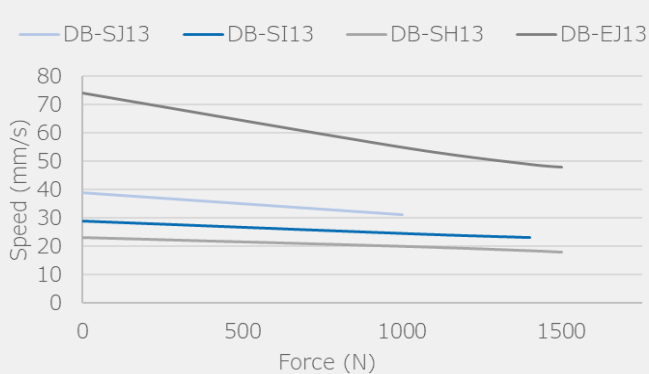
Short retracted length



Safety factor diagrams



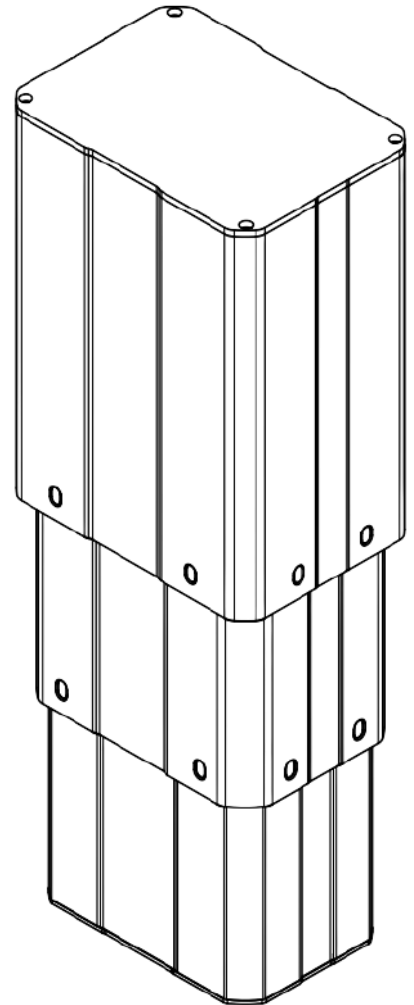
Speed diagrams



X2 Technology – The Customizer

Before use of products, see general terms & conditions and operating manuals. Lifetime and suitability are depending on application and must therefore be tested by each user. Specifications subject to change without prior notice. All components in this datasheet are property of X2 Technology and may therefore not be used without permission.

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