X2 TECHNOLOGY
A Phoenix Mecano Brand

Lifting column

F-series

F13

F23

Max 2.500 N

Made in Sweden

Description

The F13 and F23 models are designed with asymmetric tubes for a softer design compared to traditional lifting columns. 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
Build in Hall Sensors
Limit switch

Options

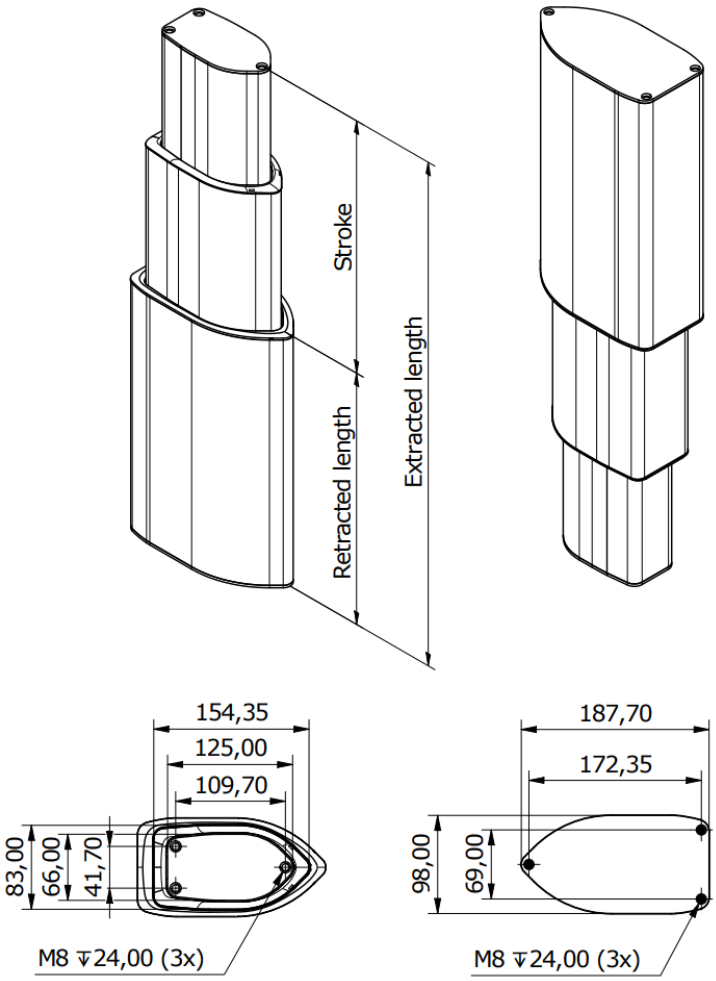
Pull
Potentiometer
Cable out small tube
Cable through
Customizable top/bottom plates

Technical data

	DF-UZ13	DF-VE13	DF-VD13	SF-VF13 SF-VF23	SF-VD13 SF-VD23	SF-VE13 SF-VE23
Force, max push*	600 N	800 N	1.000 N	1.500 N	1.900 N	2.500 N
Self-locking force**	700 N	500 N	800 N	700 N	1.500 N	2.000 N
Speed @max load	35 mm/s	26 mm/s	18 mm/s	26 mm/s	20 mm/s	13 mm/s
Stroke, S (longer strokes on request)	50 mm to 800 mm			50 mm to 700 mm		
Retracted length, R***	R = S/2 + 187 mm			R = S + 120 mm		
Duty cycle [%]	10 % (1 min ON / 9 min OFF)					
Voltage	24 VDC					
Ambient temp	+10°C to +40°C					
Current @max load	5 A	6 A	5A	6 A		
IP Class	IP 30					
Safety factor Static centric load @ max stroke & load*	-	-	-	4,5	2,5	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 F13



Technical drawing F23

Pin layout

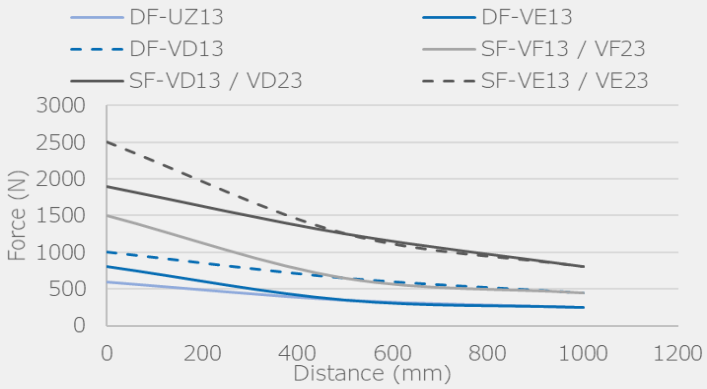
8 pin JS-1149-08 Male

Connectors

	Description
1.	Hall sensor 1
2.	+5V
3.	Limit switch 2
4.	Motor+
5.	Hall sensor 2
6.	Limit switch 1
7.	GND
8.	Motor-

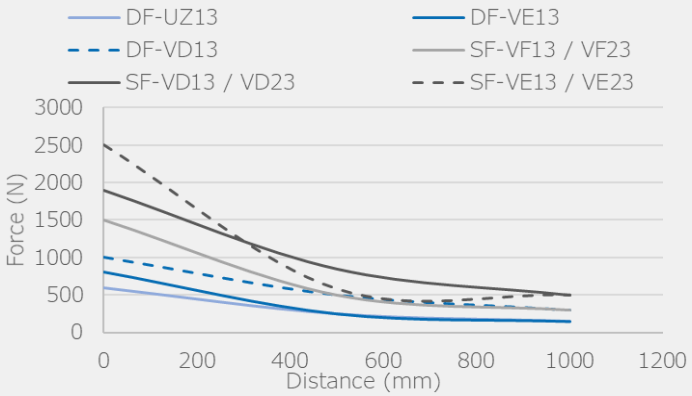
Offset load diagrams

Long retracted length



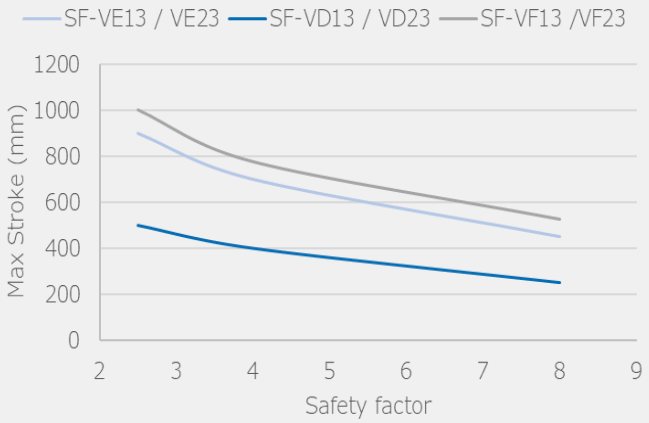
Retracted length: R = Stroke + 270 mm

Short retracted length

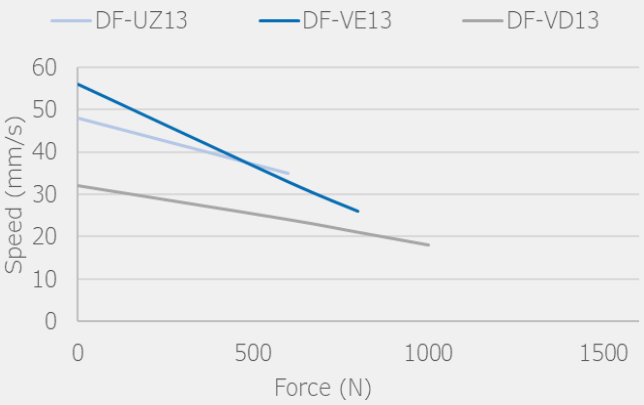


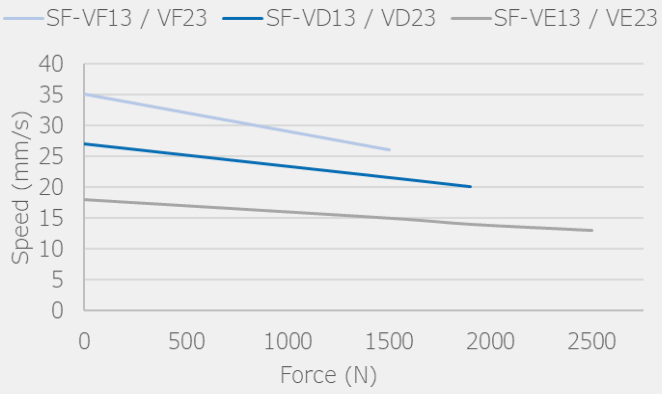
Retracted length: R = Stroke + 170 mm

Safety factor diagram

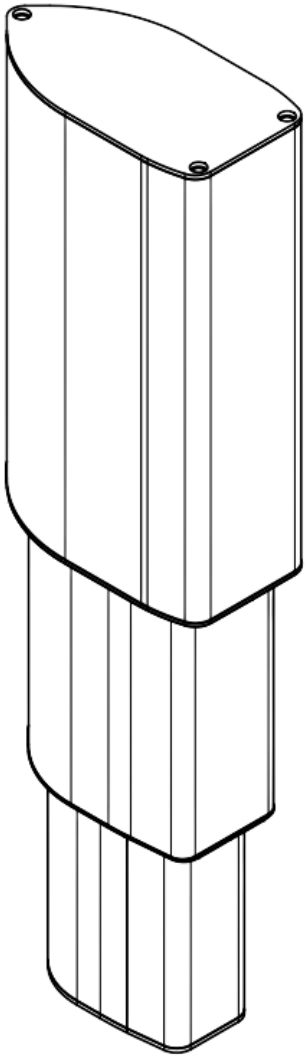


Speed diagram





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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