

# Lifting column



technology<sup>?</sup>

**A-series**

A13

A23


Max 3000N




## Description

A13 and A23-columns are very robust columns that are efficient when a highly reliable column is desired to lift centric or offset loads. 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  
Build in hall sensor  
Limit switch  
Cable out large tube

### Options

Potentiometer  
Cable through  
Cable out small tube

## Technical data

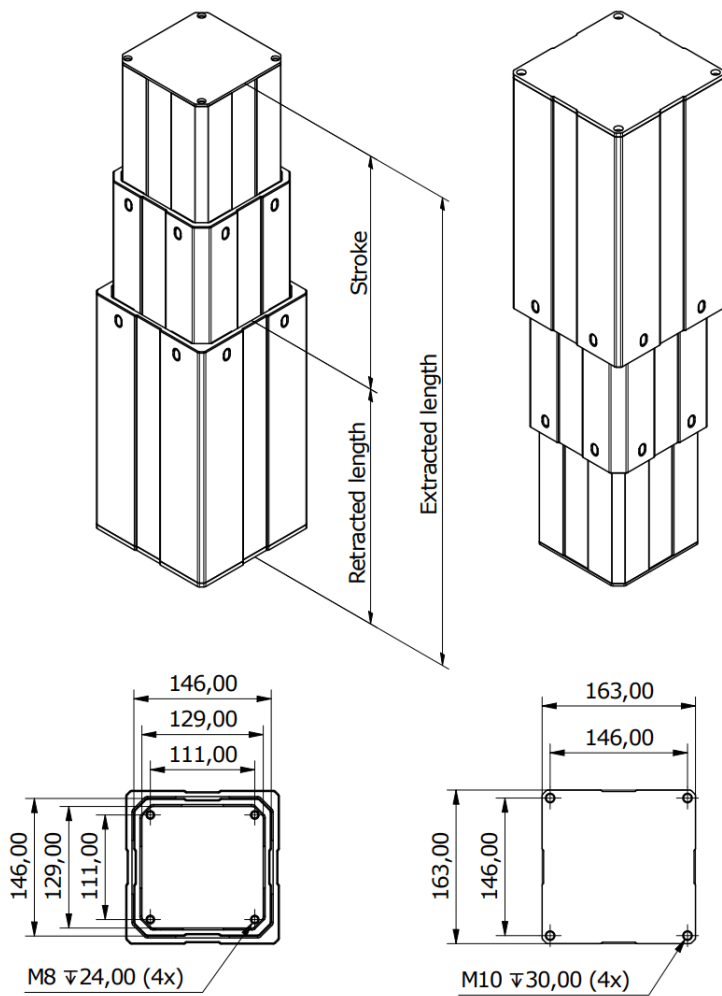
	DA-SJ13	DA-SI13	DA-SH13	SA-SF13 SA-SF23	DA-SG13	SA-SD13 SA-SD23	SA-SE13 SA-SE23
Force, max push*	1.000 N	1.400 N	1.500 N	1.750 N	2.000 N	2.250 N	3.000 N
Self-locking force**	1.000 N	1.400 N	1.500 N	1.000 N	2.000 N	1.750 N	2.750 N
Speed @max load	31 mm/s	23 mm/s	18 mm/s	21 mm/s	10 mm/s	16 mm/s	10 mm/s
Stroke, S (longer strokes on request)	50 mm to 1.000 mm			50 mm to 700 mm	50 mm to 1.000 mm	50 mm to 700 mm	
Retracted length, R***	R = S/2 + 175 mm			R = S + 120 mm	R = S/2 + 175 mm	R = S + 120 mm	
Duty cycle [%]	1 min / 9 min (10%)						
Voltage	24 VDC						
Ambient temp	+10°C to +40°C						
Current @max load	5,5 A				5 A	5,5 A	
IP Class	IP 30						
Safety factor Static centric load @ max stroke & load*	5	3,5	3,25	4	2,5	1,2	3,5

\* See diagrams on page 3

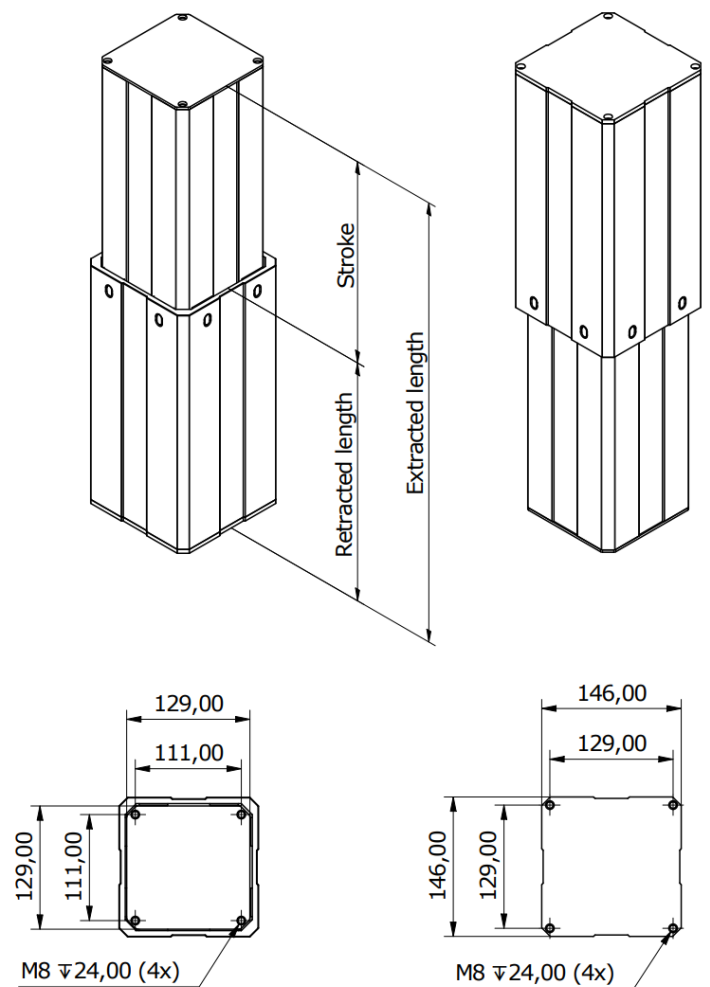
\*\* Only applied when connected by short circuit

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

## Technical drawing A13



## Technical drawing A23



## Pin layout



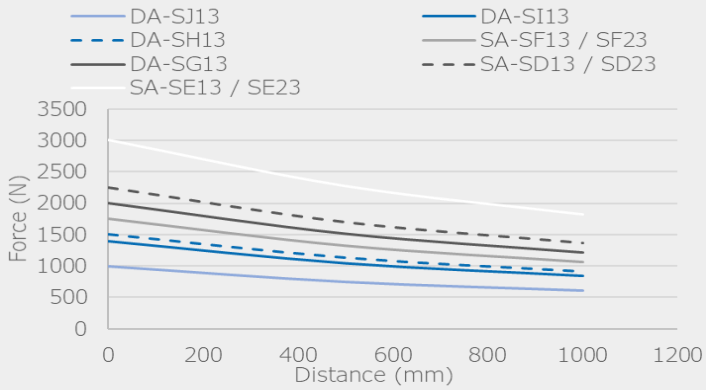
8 pin JS-1149-08 Male

## Connectors

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

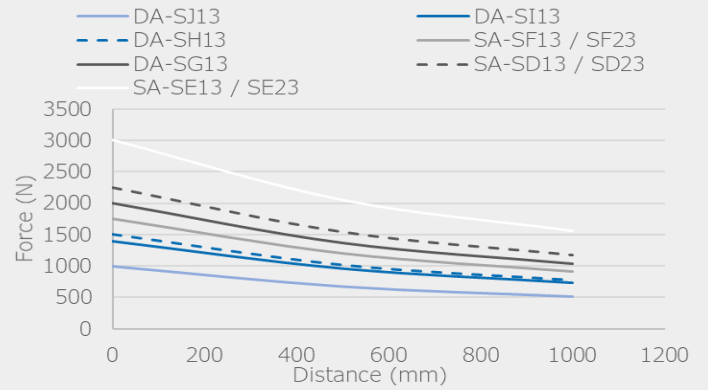
## Offset load diagrams

Long retracted length



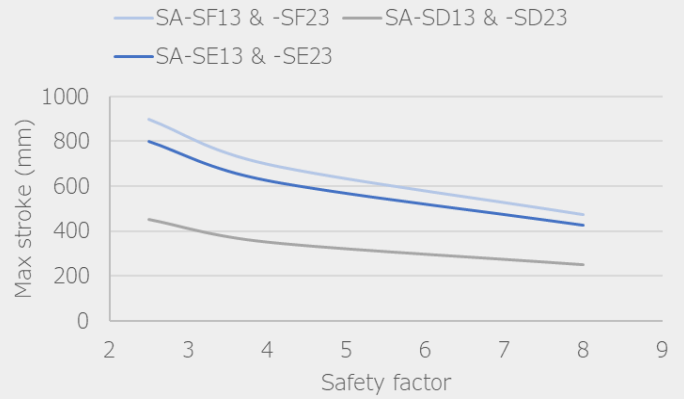
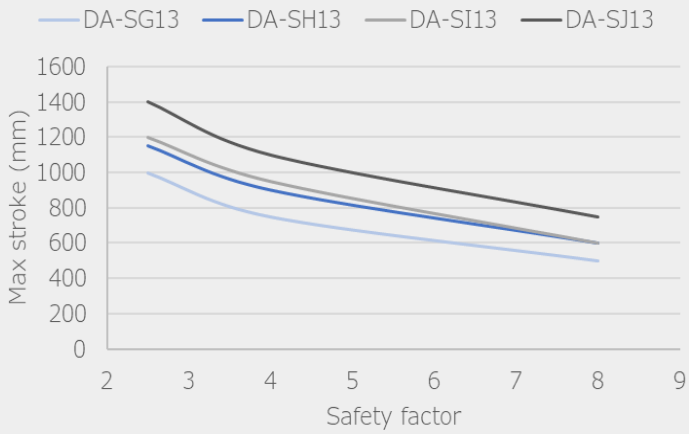
Retracted length:  $R = \text{Stroke} + 270 \text{ mm}$

Short retracted length

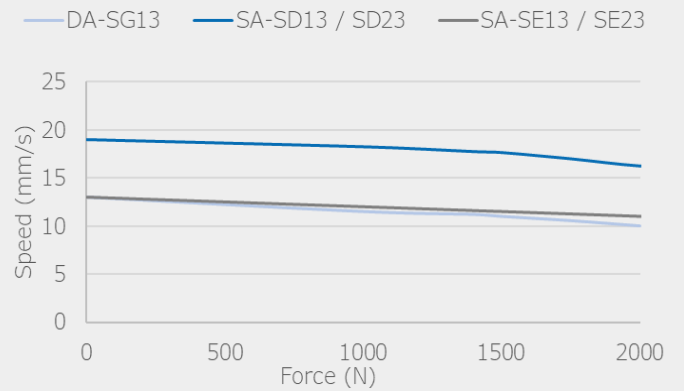
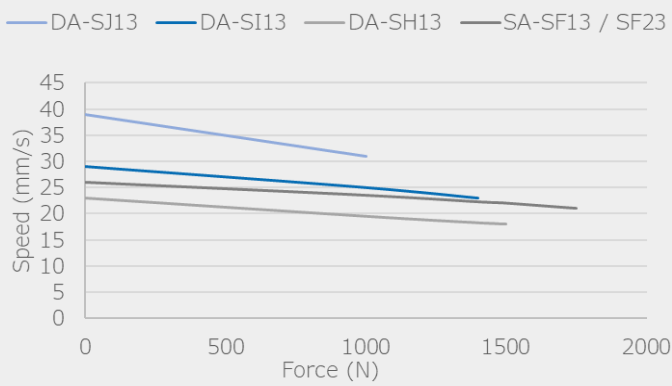


Retracted length:  $R = \text{Stroke} + 195 \text{ mm}$

## Safety factor diagrams



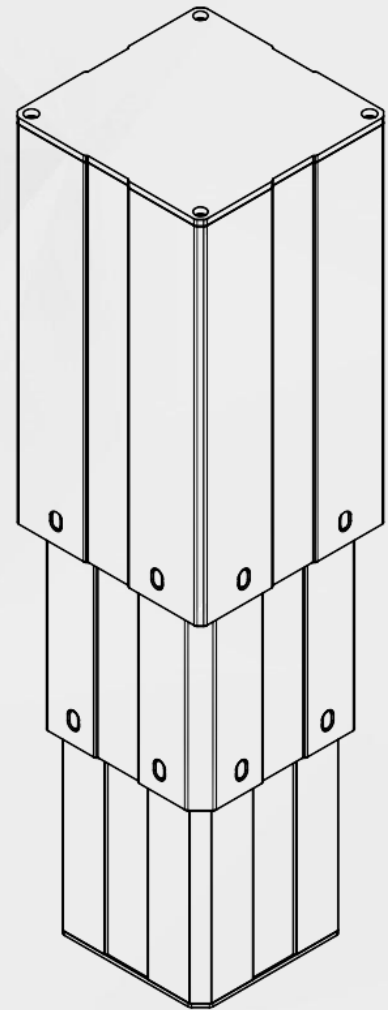
## Speed diagram



# X2 Technology – The Customizer

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