

Electric height adjustment  
for workplaces



# Ergonomics at the workplace

Flexibly adapt industrial systems, workbenches, conveyor belts and all types of industrial work tables to the needs of your employees and production – not the other way around. SUSPA height adjustments help you do it, efficiently and uniquely.

## Extension force

max. 1,200 kg  
with an 8-leg system

## Travel speed

16 mm/s or 8 mm/s  
(see table on pages 4 and 5)

## Movotec SMS

The electromechanical Movotec SMS (spindle motor system) lift systems offer continuous, fully electric, space-saving height adjustment for heavy loads. Choose between two systems:

### Movotec SMS Bolt-On

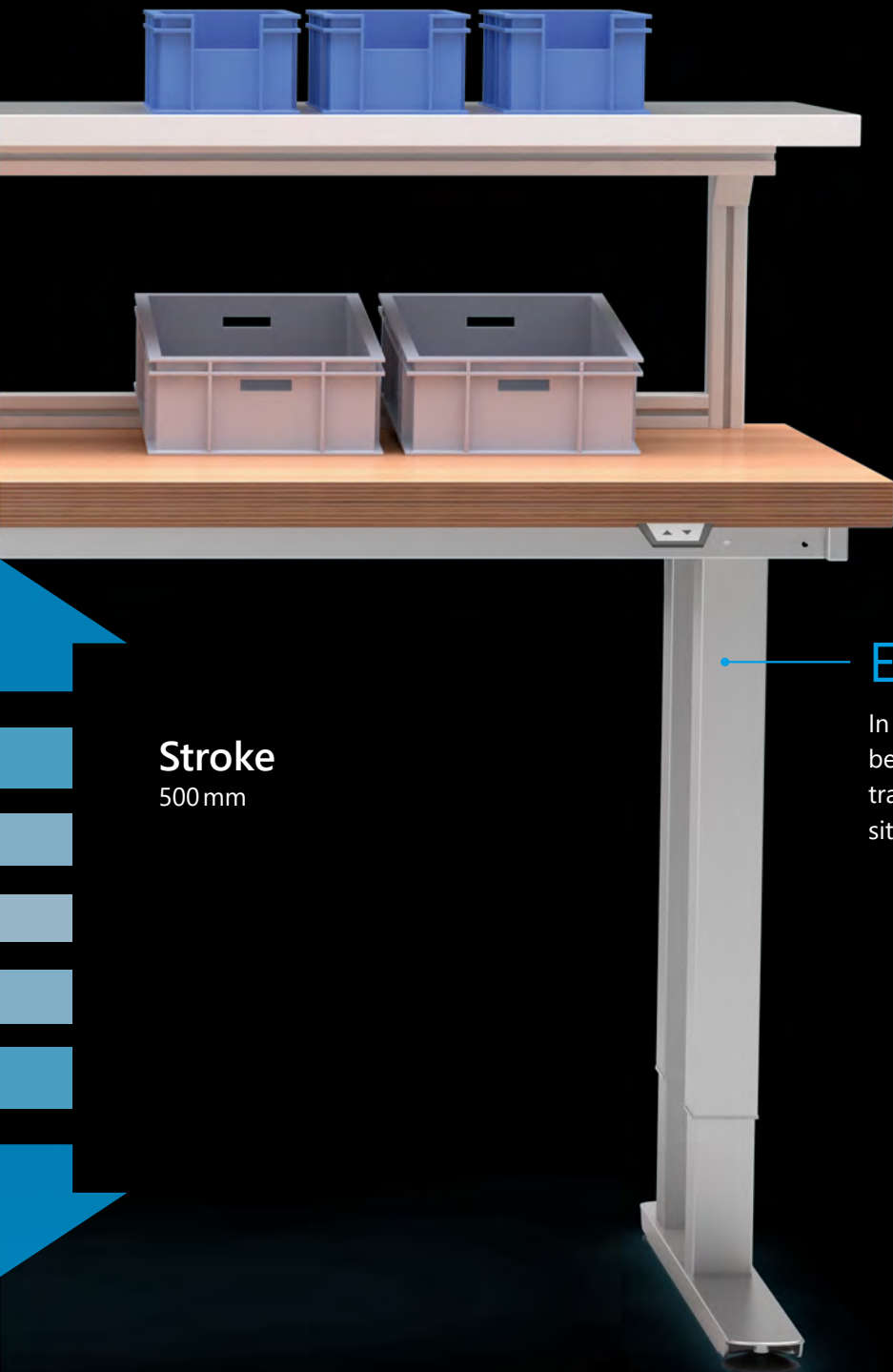
The actuators can be installed as upgrades to existing workplace systems, assembly systems or workbenches.

### Movotec SMS assembly profile

This very compact solution has the actuators already integrated into the profiles. With standard dimensions of 45 x 90 mm and 40 x 80 mm, the systems are compatible with many commonly sold profiles and fastening systems such as angle brackets or direct connectors.

**Stroke**  
up to 400 mm





## Extension force

max. 400 kg  
on a table with 4 lifting columns

## Travel speed

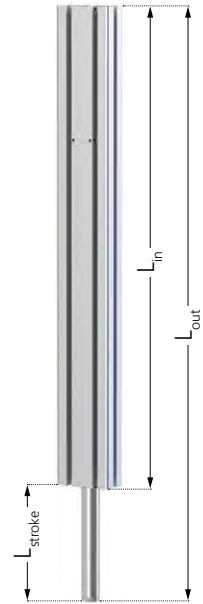
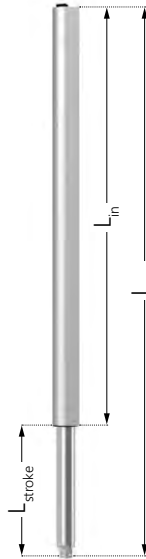
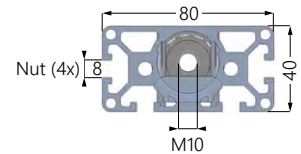
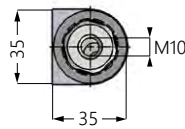
20 mm/s

**Stroke**  
500 mm

## ELS3 HeavyDuty

In many offices, height-adjustable desks have become standard. An ELS3 HeavyDuty system transforms your workbench into a modern sit/stand station for ergonomic work.

# Product overview



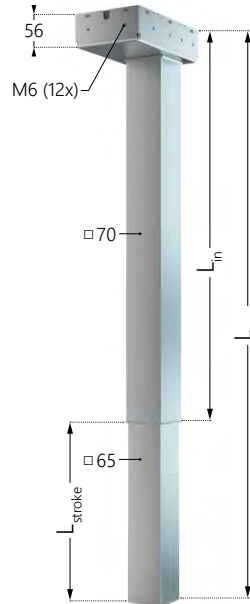
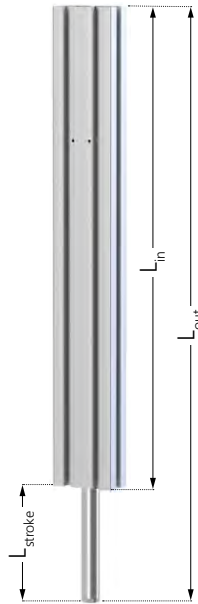
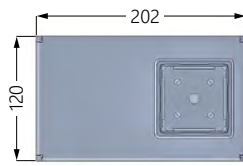
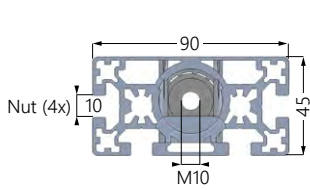
Installation dimensions	Movotec SMS	Movotec SMS-I-40x80
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## Installation dimensions

Dimensions of external profile/pipe	CB profile 35 mm				Installation profile 40 x 80 mm			
External tube material	Aluminium, silver anodized				Aluminium, silver anodized			
Internal tube dimensions	Ø 25 mm				Ø 25 mm			
Internal tube material	Aluminium, anodized				Aluminium, anodized			
Motor housing dimensions	Motor integrated into profile				Motor integrated into profile			
<b>Order number</b>	<b>004 10211</b>	<b>004 10212</b>	<b>004 10213</b>	<b>004 10214</b>	<b>004 10268</b>	<b>004 10269</b>	<b>004 10270</b>	<b>004 10271</b>
Stroke ( $L_{stroke}$ )	150 mm	200 mm	300 mm	400 mm	150 mm	200 mm	300 mm	400 mm
Retracted length ( $L_{in}$ )	485 mm	535 mm	635 mm	735 mm	510 mm	560 mm	660 mm	760 mm
Extended length ( $L_{out}$ )	635 mm	735 mm	935 mm	1135 mm	660 mm	760 mm	960 mm	1160 mm
Fastening structure	4 x M5 (screw-in depth max. 7 mm)				4 grooves 8 mm wide			
Fastening on foot stabilizer	1 x M10 (internal thread)				1 x M10 (internal thread)			

## Performance data

Max. extension force per lifting element	150 kg		75 kg		150 kg		75 kg	
Max. extension force with 4-leg system	600 kg		300 kg		600 kg		300 kg	
Max. extension force with 8-leg system	1,200 kg		600 kg		1,200 kg		600 kg	
Travel speed	~ 8 mm/s		~ 16 mm/s		~ 8 mm/s		~ 16 mm/s	
Functional operating range	+5°C to +40°C				+5°C to +40°C			
Protection class	IP 40				IP 40			



Movotec SMS-B-45x90

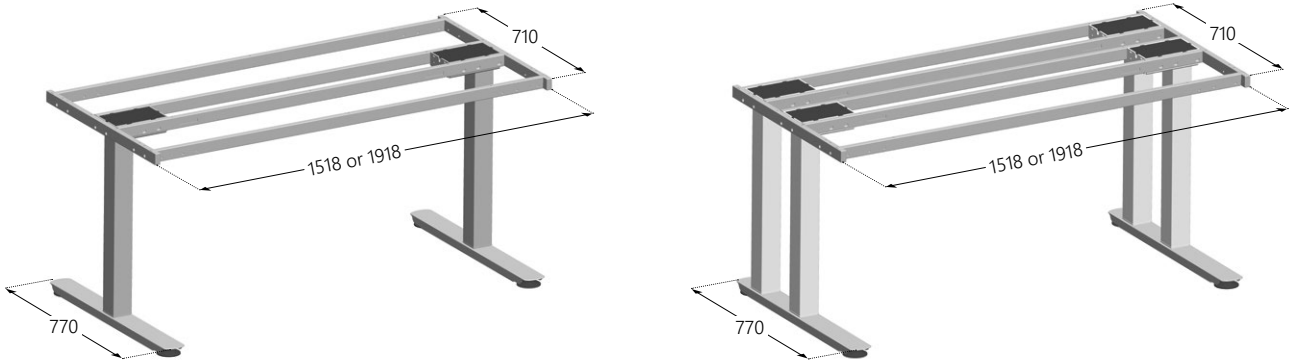
ELS3-500S-BTU-Q-HeavyDuty

Installation profile 45 x 90 mm				70x70 mm
Aluminium, silver anodized				Steel profile, painted silver-gray
Ø 25 mm				65x65 mm
Aluminium, anodized				Steel profile, painted silver-gray
Motor integrated into profile				202x120x56 mm
<b>004 10272</b>	<b>004 10273</b>	<b>004 10274</b>	<b>004 10275</b>	<b>004 10267</b>
150 mm	200 mm	300 mm	400 mm	500 mm
510 mm	560 mm	660 mm	760 mm	680 mm
660 mm	760 mm	960 mm	1160 mm	1,180 mm
4 grooves 10 mm wide				12 x M6 (screw-in depth max. 5 mm)
1 x M10 (internal thread)				4 x M8 (internal thread)
150 kg	75 kg	100 kg		
600 kg	300 kg	400 kg		
1,200 kg	600 kg	800 kg (on request)		
~ 8 mm/s	~ 16 mm/s	~ 20 mm/s		
+5°C to +40°C				+5°C to +40°C
IP 40				IP 20

# Accessories

## ELS3 HeavyDuty table subframe

We offer a complete table subframe made of steel profile (silver-gray color RAL 9006) for two or four ELS3 HeavyDuty lifting columns, with screws and adjustable bases (for the lifting column specification, see the table on page 5). The table subframe is suitable for table tops with the dimension 1600 x 800 mm or 2000 x 800 mm.



## Controller for ELS3 HeavyDuty and Movotec SMS

### SCT4 controls

- Input voltage: 230V/50Hz
- Output rating: 340VA (28VDC at 10% switch-on duration)
- Four actuator outlets per control, extendable to eight actuators with link cable
- Load-independent actuator synchronization
- Switch-on duration 10% (2 min operation / 18 min pause)
- Standby use: < 4W (on request < 0.4W)
- Soft start and soft stop
- Travel monitoring to protect the system
- Weight (typical): approx. 3.2 kg (toroidal transformer)
- Dimensions: 257 x 120 x 60 mm
- Protection class II (protective insulation)



### Link cable

Order No. 198 10134

- Connection of two controller (necessary for 6- or 8-actuator systems)
- 4 m cable length

## Hand switch for ELS3 HeavyDuty and Movotec SMS

- Base table hand switch with 2 m cable length



**Simple Up/Down switch**  
**UBM F02-p**

Order No. 098 10087



**Memory switch with display**  
**UBS/6-s-LCD**

Order No. 098 10088

Additional digital display with three programmable memory positions

## Glides and brackets for Movotec SMS



**Standard sliding feet**

Order No. 079 01031



**Installation feet**

Order No. 079 00003



**Sliding polyamide feet**

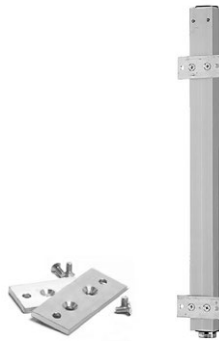
Order No. 079 01037

- Standard with anti-skid function
- Polyamide base with non-skid TPE pad with M10 x 1.5 threaded steel bolts with locknut for adjustment
- For fastening the actuators to the floor or to work surfaces
- Aluminum base with M10 x 1.5 threaded steel bolts with locknut for adjustment
- Standard sliding feet without anti-skid function
- Polyamide base with M10 x 1.5 threaded steel bolts with locknut for adjustment



**Small mounting bracket set**

Order No. 079 00002A



**Large mounting bracket set**

Order No. 079 00001



**L mounting bracket set**

Order No. 079 00018



**Creform® bracket adaptor set**

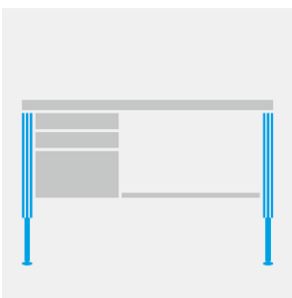
Order No. 079 11027\*

- Mounting fasteners can be used if the threaded holes of the SMS CB actuators are not at an optimal place for the application
- One bracket set order for each SMS actuator used

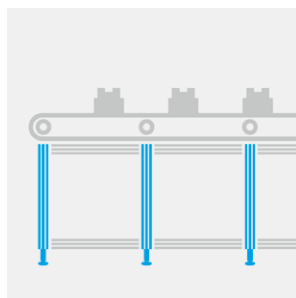
\* for easy fastening of Creform® connectors (connectors not included)

## Examples of applications in the industry

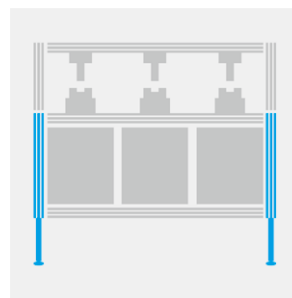
We offer you solutions that are best suited to installation in plant and assembly workstations, for system construction or workplace systems. Because the electro-mechanical lifting columns work without oil, the height adjustments are also suitable for areas where hydraulic systems are not desirable.



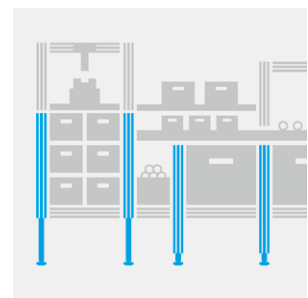
Workbench



Conveyor belt



System construction



Workplace systems

## Ergonomics at the workplace

Height adjustable workplaces don't just offer health advantages, but they also minimize harmful improper load stresses on employees, thereby minimizing illness-related absences due to physical wear. They are an important prerequisite for optimal use of workbenches, conveyor belts, assembly tables or equipment.

Thanks to flexibly adjustable workstations, equipment and workplaces can not only be used by different employees, but also used for a variety of tasks. This gives a company a great deal of flexibility in controlling work procedures.



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