

Electric height adjustment for workplaces





SUSPA - Your strong industrial partner

For more than 60 years, SUSPA products have been present in your daily life - at home in furniture, refrigerators and washing machines, in means of transport like buses, trains and planes, in modern office furniture, in leisure and fitness equipment, but also in hospitals and rehab centers.

Although you may not be able to see our products, we are always there – increasing the comfort and safety level for all of you.

Major players in the automobile, office furniture, industrial, transportation, appliance, health care, leisure, and gaming industries depend on SUSPA as a developmental and systems solution partner. Our engineers and technical sales team will work seamlessly with your staff on a wide variety of projects, committed to providing the most effective solution for your organization. SUSPA has production facilities in Germany, the United States, China, India and the Czech Republic.

Reliability as highest standard

Requirements on quality are increasing in the automotive industry as well as in other industry sectors. SUSPA certifications according to IATF 16949 have therefore been an integral part.

Effective quality management from purchasing to production and sales and on to final application secures the worldwide great reputation and reliability of SUSPA products.

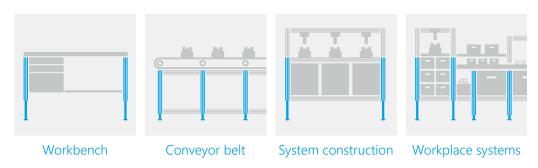
Height Adjustment Industry

Ergonomics at the Workplace

Adjust industrial facilities, workbenches, conveyor belts and all types of industrial worktables flexibly to the requirements of your employees and production – and not vice versa. SUSPA height adjustments support you efficiently and individually.

Туре	Characteristics	Drive
Movotec SMS Bolt-On	 as an upgrade system for exisiting workplaces load performance 150 kg/lift element adjustable range up to 400 mm 	electrical
Assembly profile Movotec SMS	 actuators built in profiles load performance 150 kg/lift element dimensions 40x80 mm or 45x90 mm adjustable range up to 400 mm 	electrical
Lifting Columns ELS3 HeavyDuty	 elegant solution for heavy loads load performance 100 kg/lift element square guiding tube adjustable range up to 500 mm 	electrical
Movotec Lift Systems	 drive via hand crank or electric motor load performance 150 kg/lift element adjustable range up to 400 mm 	hydraulic

Applications



Our solutions for your ergonomic workstation



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

Travel speed

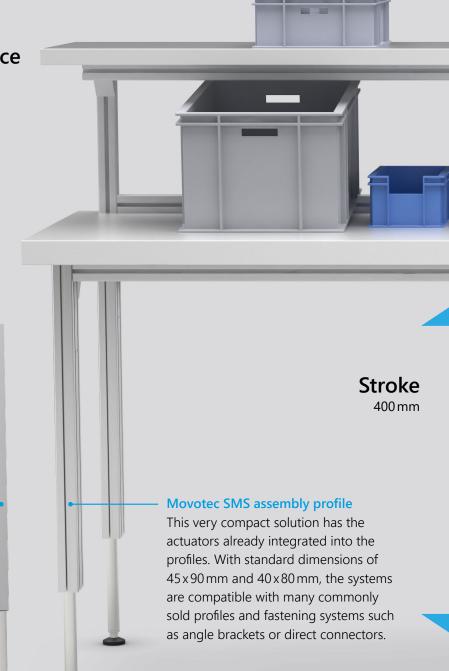
16 mm/s or 8 mm/s (see table on pages 6-7)

Movotec SMS

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

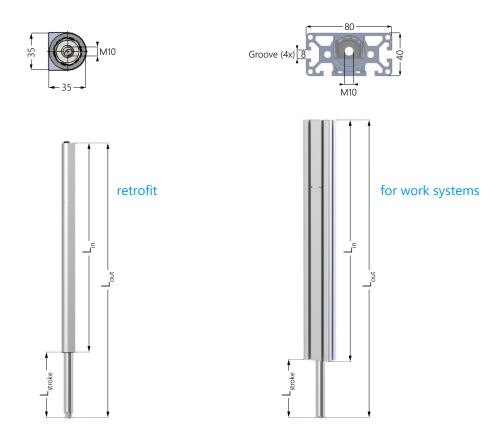
Movotec SMS Bolt-On

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

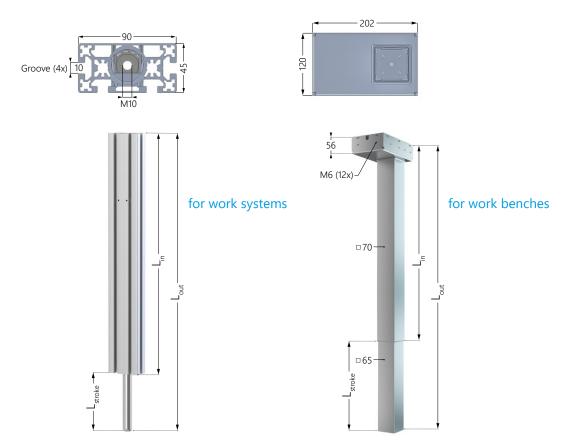




Product overview



	Movotec SMS			Movotec SMS-I-40x80				
Installation dimensions								
Dimensions of external profile/pipe		CB profil	le 35 mm		Installation profile 40×80 mm			
External tube material	F	Aluminium, si	ilver anodize	d	Aluminium, silver anodized			
Internal tube dimensions		Ø 25	5 mm		Ø 25 mm			
Internal tube material		Aluminium	n, anodized		Aluminium, anodized			
Motor housing dimensions	N	Notor integrat	ted into prof	ile	Motor integrated into profile			
Order number	00410211	00410212	00410213	00410214	00410268	00410269	00410270	00410271
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	1,135 mm	660 mm	760 mm	960 mm	1,160 mm
Fastening structure	4 x M5 (screw-in depth max. 7 mm)			4 x 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				



ELS3-500S-BTU-Q-HeavyDuty

Installation profile 45 x 90 mm			m	70 x 70 mm	
A	Aluminium, si	lver anodize	d	Steel profile, painted silver-gray	
	Ø 25	mm		65 x 65 mm	
	Aluminium	ı, anodized		Steel profile, painted silver-gray	
M	lotor integra	ted into profi	le	202 x 120 x 56 mm	
00410272	00410273	00410274	00410275	00410267	
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	1.160 mm	1,180 mm	
4 x 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		mm/s	~ 20 mm/s		
+5°C to +40°C			+5°C to +40°C		
IP 40			IP 20		

Movotec SMS-B-45x90

Accessories for Movotec SMS



Controller SCT4

- Input voltage: 230V/50Hz
- Output rating: 340 VA (28 VDC 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: 257x120x60mm
- Protection class II (protective insulation)

Order numbers for control boxes with max. extension force $150 \, \text{kg/Actuator}$, Travel speed $v = 8 \, \text{mm/s}$

SMS-System	Stroke in mm				
	150	200	300	400	
1-Actuator-System	19810225	19810230	19810234	19810238	
2-Actuator-System	19810224	19810229	19810233	19810237	
4-Actuator-System	19810221	19810259	19810099	19810101	
6-Actuator-System	2x 19810223 *)	2x 19810228 *)	2x 19810232 *)	2x 19810236 *)	
8-Actuator-System	2x 19810222 *)	2x 19810227 *)	2x 19810231 *)	2x 19810235 *)	

^{*)} For the use of 6- to 8- actuator systems two controllers are required, which are connected with a link cable (order number 19810134)

Order numbers for control boxes with max. extension force $75 \, \text{kg/Actuator}$, Travel speed $v = 16 \, \text{mm/s}$

SMS-System	Stroke in mm				
	150	200	300	400	
1-Actuator-System	19810185	19810190	19810195	198 10200	
2-Actuator-System	19810184	19810189	19810194	19810199	
4-Actuator-System	19810181	19810186	19810191	19810196	
6-Actuator-System	2x 19810183 *)	2x 19810188 *)	2x 19810193 *)	2x 19810198 *)	
8-Actuator-System	2x 19810182 *)	2x 19810187 *)	2x 19810192 *)	2x 19810197 *)	

^{*)} For the use of 6- to 8- actuator systems two controllers are required, which are connected with a link cable (order number 19810134)

Glides and brackets for Movotec SMS



Standard sliding feet Order No. 07901031

- Standard with anti-skid function
- Polyamide base with non-skid TPE pad with M10x1.5 threaded steel bolts with locknut for adjustment



Installation feet Order No. 07900003

- 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



Sliding polyamide feet Order No. 07901037

- 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. 07900002A



Large Mounting Bracket Set

Order No. 07900001



L Mounting **Bracket Set** Order No. 07900018



Creform® Bracket Adaptor Set Order No. 07911027*

- 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

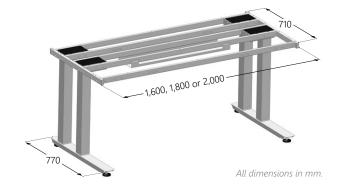
* for easy fastening of Creform® connectors (connectors not included)

Accessories for ELS3 HeavyDuty

Subframe

We offer a complete table subframe made of steel profile (silver-gray color RAL9006) for two or four ELS3 HeavyDuty lifting columns, with screws and adjustable bases (for the lifting column specification, see the table on page 7). The table subframe is suitable for table tops with the dimension $1,600 \times 800 \, \text{mm}$, $1,800 \times 800 \, \text{mm}$.





2-Leg HeavyDuty subframe				
Table frame length	Order number	Description		
1,600 mm	15311964	EAT3-HD-1600-002-01-S		
1,800 mm	15311965	EAT3-HD-1800-002-01-S		
2,000 mm	15311966	EAT3-HD-2000-002-01-S		

4-Leg HeavyDuty subframe				
Table frame length	Order number	Description		
1,600 mm	15311967	EAT3-HD-1600-004-01-S		
1,800 mm	15311968	EAT3-HD-1800-004-01-S		
2,000 mm	15311969	EAT3-HD-2000-004-01-S		



 ${\bf Please\ find\ the\ assembly\ instruction\ online\ www.suspa.com/suspa-downloads/}$

Connection set

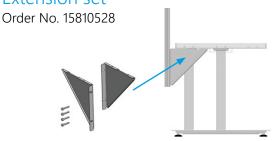
Order No. 19710174

- Mechanical connection of two HeavyDuty tableFrames (mechanic coupling).
- Please take into consideration that two tableframes must be connected eletrically with a link cable and that the max. permitted load of each HeavyDuty table frame is observed.





Extension set



- Enables the installation of commercially available extension elements (e.g. aluminum profiles, support rails, shelves, die plates) at the rear side of the ESL3 HeavyDuty tableframe.
- Please take into consideration that the installation of additional loads at the rear does not cause a risk of tipping for the Heavy Duty tableframe and that the max. permitted load of each HeavyDuty tableframe is observerd.

Controller SCT4 for ELS3 HeavyDuty

- Input voltage: 230 V/50 Hz
- Output rating: 340 VA (28 VDC 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: 257x120x60mm
- Protection class II (protective insulation)



Order numbers for control boxes with max. extension force 100kg/actuator, stroke 500mm, travel speed v=20mm/s

ELS3-HeavyDuty-System	Order No. Controller
1-lifting column-system	19810246
2-lifting column-system	19810247
3-lifting column-system	19810248
4-lifting column-system	19810249
6-lifting column-system	2x 19810250 *)
8-lifting column-system	2x 19810251 *)

^{*)} For the use of 6- to 8- actuator systems two controllers are required, which are connected with a link cable (order number 19810134)

Link cable for ELS3 HeavyDuty and Movotec SMS

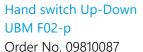
Order No. 19810134

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

Hand switches for ELS3 HeavyDuty und Movotec SMS

• for installation below the table (cable length: 2 m)







Hand switch memory UBS/6-s-LCD

Order No. 09810088

Additional digital display with three programmable

memory positions

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.

Technical Note

The SUSPA height adjustment systems are defined as an incomplete machine and are only destined to be installed into other machines or into other incomplete machines or equipment or to be combined with those, in order to form a complete machine together with them in the sense of the machine regulation. Only after having passed a conformity process for the complete machine, it is permitted to be put into operation.



Please find the assembly instruction for all adjustment systems online at www.suspa.com/suspa-downloads/

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