Dynamic Systems



ERGOSWISS

Portrait



Ergonomics in the system



Ergoswiss AG develops and produces lift systems of the highest quality and precision.

Our flexible and efficient systems are used worldwide by manufacturers of office furniture, assembly and laboratory workbenches, and engineering office environments. We also produce furniture for home or health and wellness use.

Our goal is to develop products that adjust the workstation environment to the individual's physical and postural needs. This creates a workstation designed to facilitate optimal health for the employee. For industrial applications our products offer a cost-efficient alternative to conventional drives, an increase in efficiency and simplified machines.

Our trained personnel offer the best consultation by responding quickly to fulfill quotation requests and deliver products. Our worldwide distribution network ensures qualified support by providing dedicated follow-up service for after-sales service and shipping questions.

We gladly support our customers during the set-up of their products and invite you to visit our website for ongoing support and product updates.

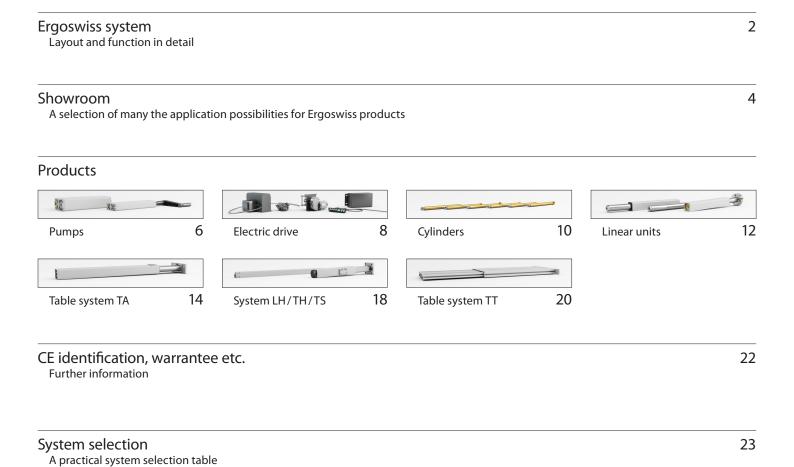
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Overview





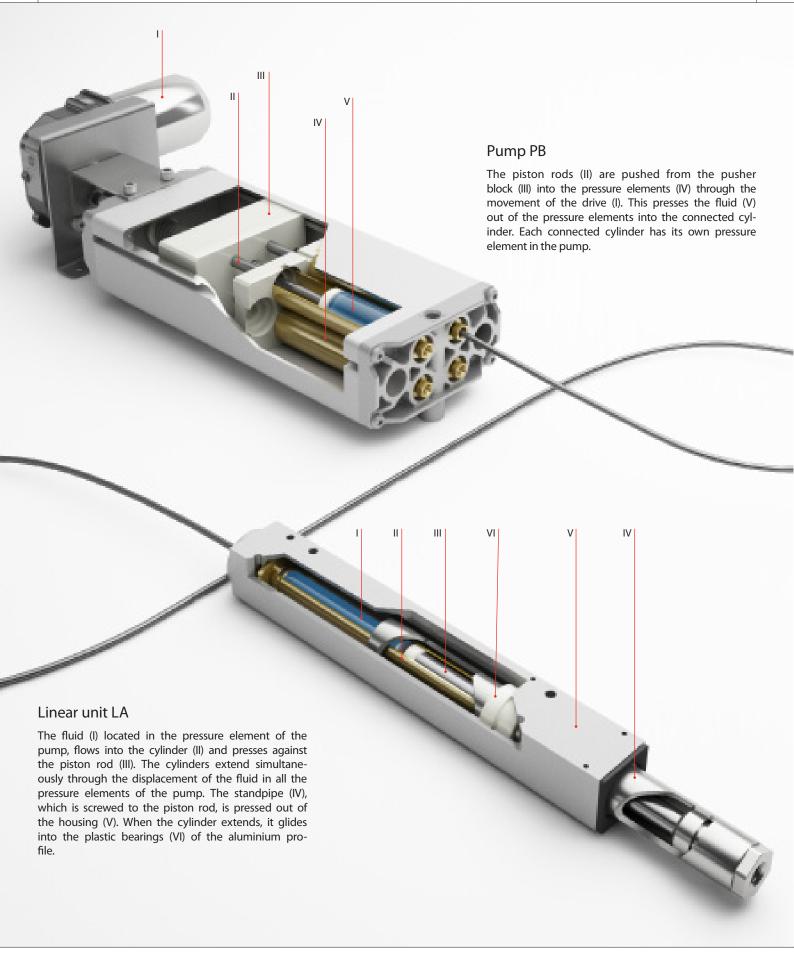
System design

The fluid is pressed from the pump (II) by the drive (I) into up to 10 cylinders (III), which extend. The simple hydraulic principle requires a reset force of at least 50 N (5 kg) to press the fluid back into the pump.

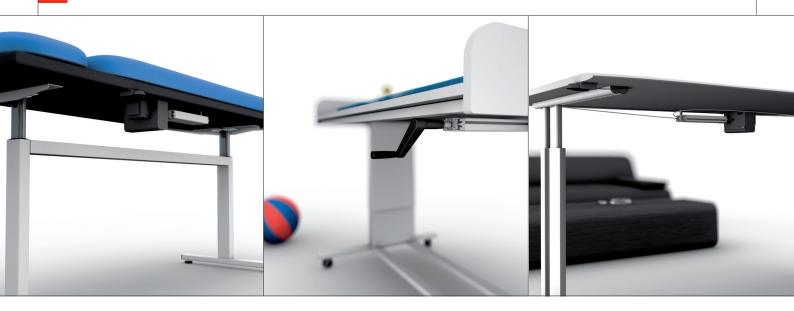
The Ergoswiss system is installed functional, loadindependent and fully synchronized through flexible connecter hoses. Our system has a decisive advantage over conventional systems due to its small size, high load capacity and quiet drive.



System details



Showroom



systems are almost unlimited. Tables (office, CAD, assembly, PADkaging and laboratory tables, plane and workbenches) and work surfaces (cashier stations, check-in counters) can be adjusted in height as well as tilt degree. This allows for individual adjustment to different employees.

An optimum adjusted workplace eliminates an employee's tired- The Ergoswiss systems are also a cost-effective and efficient alter-

The application possibilities of the Ergoswiss lift and positioning ness, which increases productivity and reduces injuries and accidents. Health problems, especially back pain, are also reduced. Due to these factors the systems pays for itself within a few months.

Whether in the office, in industry or in the household, care homes or medical clinics, there are many possibilities for creating an easier, more comfortable and productive environment.



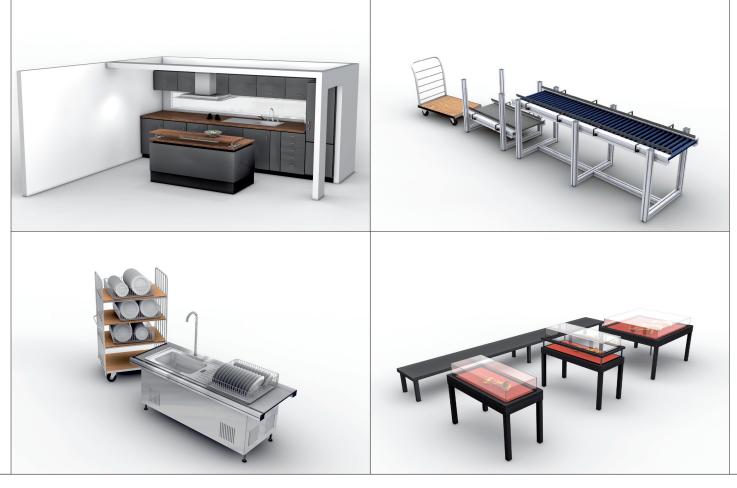


covers or glass covers of curio cabinets, height adjustment of platforms or the adjustment of conveyor belts or roller tables to different work positions.

The systems can be used in the home to lower mirrors or upper cabinets. Height-adjustable kitchen islands or sinks ease the work for seniors, different-size people or handicapped people. Installed in a

native for moving heavy loads. Examples would be lifting of machine bed or in a bathtub, the lift system aids people getting in and out. Even baby changing tables, cots, sewing machines and washers can be supplemented with our systems.

Do you plan another use for it? Contact us! We are glad to work with you to find a solution.



ERGOSWISS

Pumps



The core parts of our adjustable systems are the pumps PA and PB. The flexible connections, which need only minimal sPADe, as well as the possibility of attaching the pumps in any position even outside a system, gives the designer the possibility of installing the Ergoswiss-System in very thin or complex objects.

Our pumps lift weights up to 1000 kg quietly, and are step less and completely synchronous – even with an asymmetrical load. They are powered by an electric drive or a hand crank.

You have the choice of two pump types:

- Pump PA to control one or two cylinders with a max. load of 300 kg.
- Pump PB to control three to ten cylinders with a max. load of 1,000 kg.

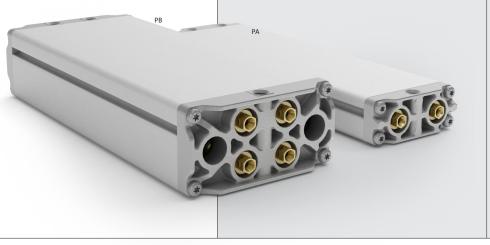
A reset force of at least 50 N (5 kg) per cylinder should be available to push the oil back into the pump during retraction (single acting system).

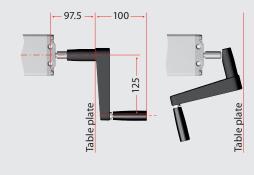
The pumps and cylinders are connected by a hydraulic hose (Ø 4 mm). The max. hose length is 8 m. The minimal bending radius is 25 mm. Three attachment holes are provided for the installation of the pumps. The pump housing is made of an extruded aluminum sheath and is colorless anodized.



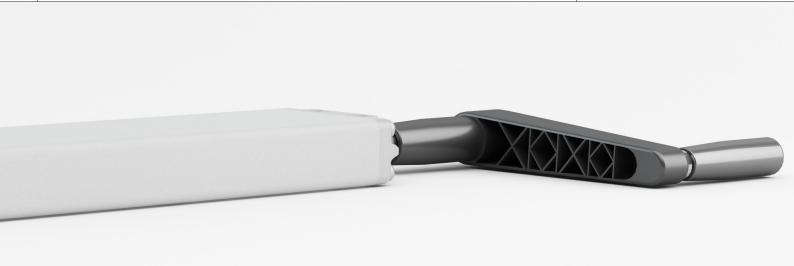
The hand crank completely disappears under the table if it is folded together. The dowel pin that attaches the crank to the pump protects the pump from overloading.

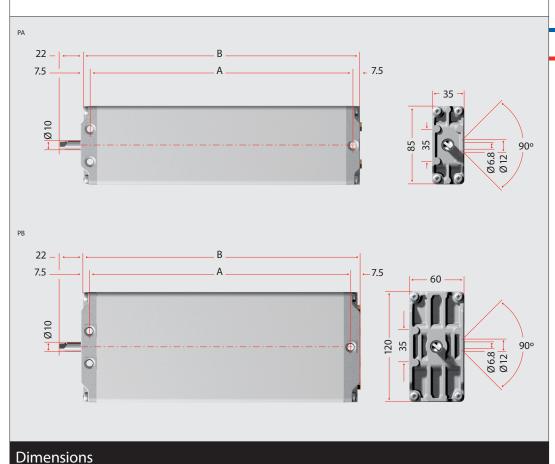
Crank radius 125 mm. A detachable crank is also available.





Type PA/PB





D	_				
120 kg Pump type	A mm]	B [mm]	350 kg Pump type	A [mm]	B [mm]
PX n615	283.5	298.5	PX n815	283.5	298.5
PX n620	283.5	298.5	PX n820	343.5	358.5
PX n630	283.5	298.5	PX n830	465.5	480.5
PX n640	465.5	480.5	PX n840	585.5	600.5
PX n650	465.5	480.5	PX n850	707.5	722.5
PX n660	465.5	480.5	PY n860	827.5	842.5

ո]	B [mm]	600 kg Pump type	A [mm]	B [mm]
	298.5	PB n415/18	465.5	480.5
	358.5	PB n 420	585.5	600.5
	480.5	PB n 430	707.5	722.5
	600.5	PB n440	908.5	923.5
	722.5			
	842.5			

- X = Pump type A or B
- n = Number of controllable cylinders (1–10 cylinders)

TECHNICAL DATA

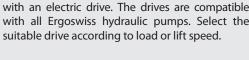
- Type PA to control 1 or 2 cylinders
 Type PB to control 3 to 10 cylinders
- Type PA max. load 300 kg
 Type PB max. load 1.000 kg
- Maximum lift speed 10 mm per crank turn, with electric motor max. 30 mm/s
- There is also the possibility to use food-friendly fluids
- Other models upon request

ERGOSWISS

Electric drive



The pumps are operated with a hand crank or with an electric drive. The drives are compatible with all Ergoswiss hydraulic pumps. Select the





This drive type is controlled by a simple cable remote control with up/down keys. We recommend Type D for high loads. The engine and the control are built into the housing. The transformer (230 VAC, optionally 110 VAC) is attached on the outside of the housing. The cable remote control (2 m cable length) is installed be-low the table edge at the desired location, and can be pushed under the table top.

Type D

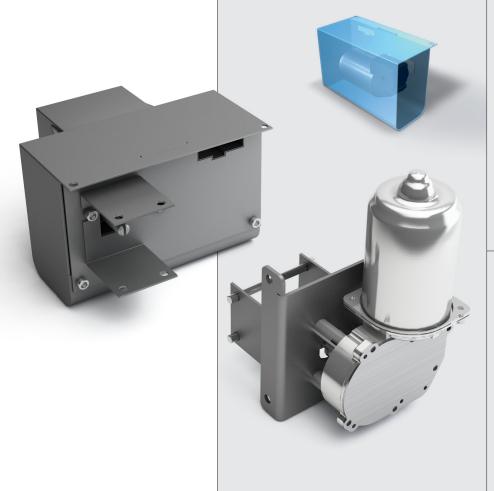
On drive Type D different heights can be memorized and automatically selected. The memory board also has a digital height indicator. The infrared remote control is available as an alternative to the memory board. The power supply (230 VAC, optionally 110 VAC) is integrated into the control unit. The memory board (2.5 m cable length) is installed below the table edge at the desired location, and can be pushed under the table top.

A power and thermal control protects the drive and the entire system against overload. Please consider the options.

The system comprises all parts as well as installation of the drive to the pump. The drive is installed on the holes provided.

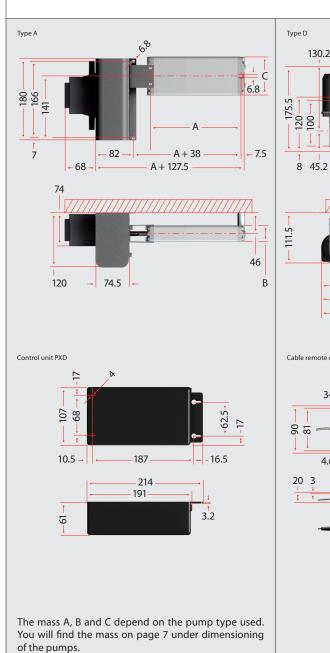
The drives are not suitable for continuous operation. After a run-time of one minute the drive needs a rest of approx. 20 minutes (OT 5%).

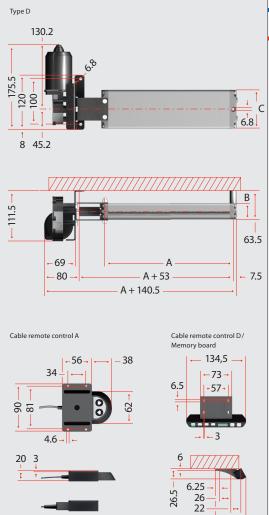
The motor drive lessens the nominal lift by approx. 15 mm.



Type A/D







TECHNICAL DATA

Type A

- CE/SEV-tested
- Dimensions 180 x 120 x 127.5
- System voltage 230/110 VAC
- Engine voltage 29 VDC
- Nominal rating approx. 160 VA
- Nominal speed 140 min⁻¹
- Nominal torque 1.7 Nm
- Fastening torque 17 Nm

Type D

- CE/TÜV/UL-certified
- 4 memory positions
- Digital display of height
- System voltage 230/110 VAC
- Engine voltage 24 VDC
- Nominal rating approx. 240 VA
- Nominal speed 160 min-1
- Protection type IP30
- · Overload protection
- Thermal protection

Options

- safety protection
- squeeze line
- customer-specific software
- diagnostic function

75.5

ERGOSWISS | Cylinders



Our cylinders are very suitable to adjust structures as quietly, quickly and precisely as possible. Due to the simultaneous control of up to 10 cylinders even highly complex structures are feasible.

The cylinder is constructed for installation in existing guides and should only be exposed to small side loads. It is used for height and tilt adjustments.

The cylinder consists of brass parts and a piston rod made of stainless steel.

The clamping ring and screws are there only to connect the hose to the pump and the cylinder (clamp ring screwing). The amount needed for assembly is included with the system.

• Attachment screw thread M8 x 1

The flexible pressure hose has the following properties:

- Exterior diameter 4 mm
- Minimum bending radius 25 mm
- Max. operating pressure 100 bar



The Brackets D6 and D8 are accessories for Cylinders with side drilled hole in the piston rod or connecting head.

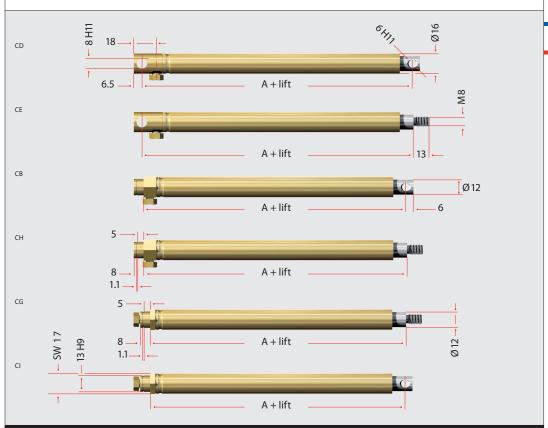
(please check our CAD Drawings under www.ergoswiss.com)





Type CB/CD/CE/CG/CH/CI





Cylinder dimension (A) in mm Lift (mm) CE CG CH CI 150 205 211.5 206.5 194 200 199 200 255 261.5 256.5 244 250 249 355 361.5 356.5 350 300 344 349 456.5 400 455 461.5 444 450 449 500 555 561.5 556.5 544 550 549 600 655 661.5 656.5 650 644 649

Brief description:

Explanation using CE 1440 as an example

CE = Cylinder type E, 14 = Piston diameter 14 mm, 40 = Cylinder lift 40 cm

TECHNICAL DATA

- Please adhere to the max. load of the complete system given in the selection table
- · Load max. 1500 N per cylinder
- Cylinders up to 2500 N load upon request
- Lift length up to 600 mm; greater length upon request
- The cylinders should not be exposed to traction
- The cylinders are made for the installation into existing guides
- There is also the possibility to use food-friendly fluids
- Other models (e.g. special piston rod length) upon request

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Linear units

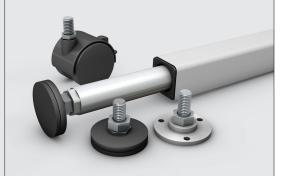


The linear unit, consisting of a cylinder and a linear guide, is a comPADt, stable lift element. It can be directly installed onto or into existing objects. A multitude of tables or other components can be retrofitted with a lift system without problems.

Four M5 threads are provided to install the linear units LA and LD. As a built-in solution we offer the type LB, which can be directly installed into an existing profile.

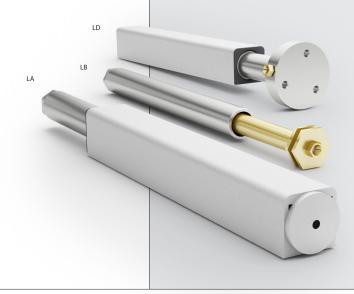
The linear unit housing consists of a colorless anodized aluminum profile. The standpipe made of stainless steel is positioned in plastic bushings.

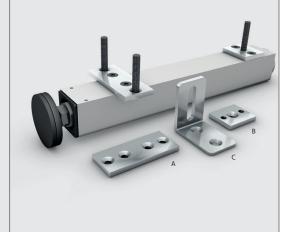
The rubber foot made of stainless steel is screwed into the linear unit. It serves to fine-tune/adjust floor unevenness. The aluminum foot can be bolt down directly at the floor.



The attachment plates permit linear units to be installed if they cannot be directly attached to the M5 holes.

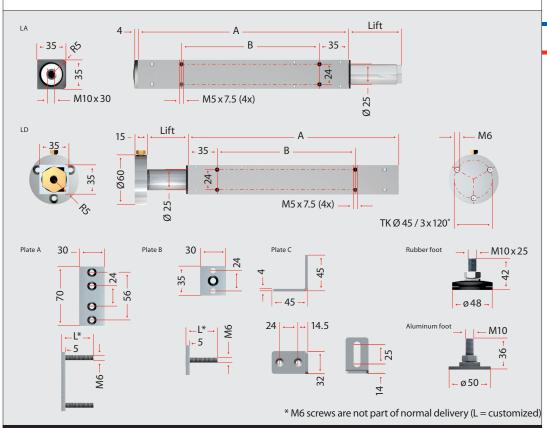
(please check our CAD Drawings under www.ergoswiss.com)





Type LA/LB/LD





Dimensions			
Type LA/LD	Lift [mm]	Dimension A [mm]	Dimension B [mm]
LA/LD 1415	150	252	165
LA/LD 1420	200	317	240
LA/LD 1430	300	442	340
LA/LD 1440	400	542	340
LA/LD 1450	500	667	450
LA/LD 1460	600	767	145 /450

Brief description:

Explanation using LA 1430 as an example

LA = Linear unit type A, 14 = Piston diameter 14 mm, 40 = Cylinder lift 30 cm

TECHNICAL DATA

- Please observe the max. load of the complete system given in selection table
- Load max. 1.500 N per cylinder
- Lift length up to 600 mm; greater length upon request
- Stainless steel designs are also available for use in food areas
- There is also the possibility to use food-friendly fluids
- Linear Units LA with a radial tubing connection are available from stock
- Linear Units LA with an integrated restoring spring on request
- Castors for the LA Units upon request
- No additional guide is necessary
- The linear units should not be exposed to traction
- Other models upon request

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Table system



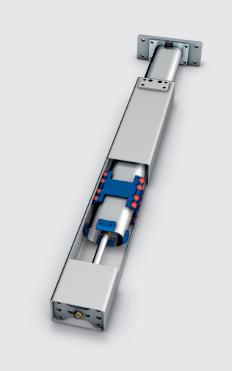
The table system is ideal for assembly work-places, office desks, workbenches or hobbies. The table leg TA ensures great balance and stability of the table even at the highest work position. The tables can be adjusted to any height, which is good for the health of the user. The tables can also be operated while standing due to the large lift length.

The system TA is modular and consists of the table leg TA (I), the plate carrier (II), a crossbar (III) and the table feet (IV).

The crossbars are positioned so that a roll container can be moved under the table (height 590 mm).

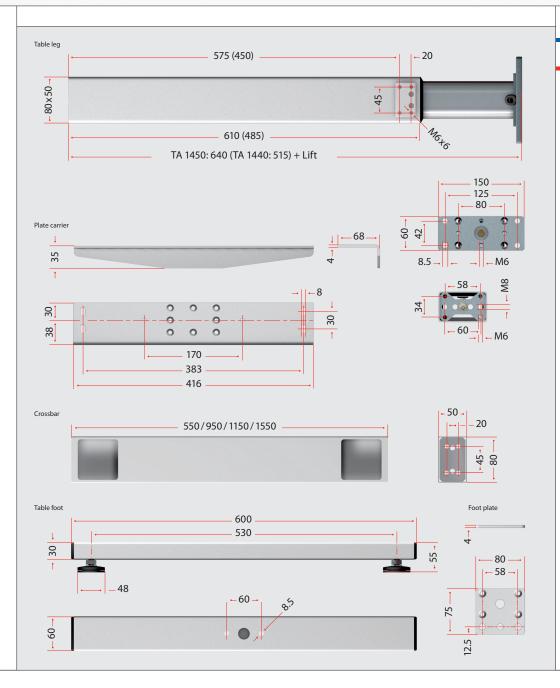
In combination with Ergoswiss pump, up to 10 legs can be adjusted in synchrony. It is possible to implement table frames with a lift length of 150, 200, 300, 400 and 500 mm and a load of 1.000 kg. The table system TA is can be operated by hand crank or an electric motor.





Type TA



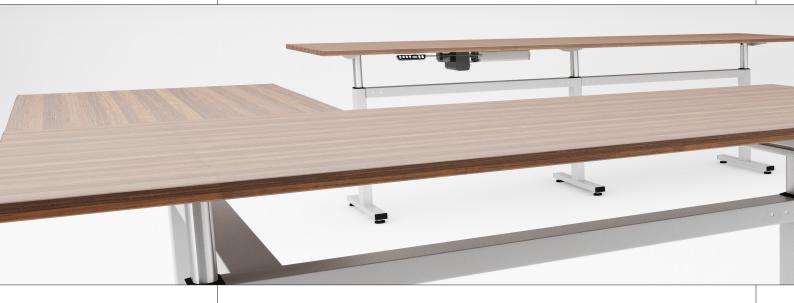


TECHNICAL DATA

- Load max. 1.500 N per leg
- Higher ultimate load upon request
- Please observe the max. load of the complete system
- All TA legs have pre installed tubing with a length of 3 m.
 Other length upon request
- Retracted length 640 mm (TA 1450) and 515 mm (TA 1440)
- Lift 150 to 500 mm (short version up to 400)
- Max. static bending moment Mb = 1.000 Nm
- Max. dynamic bending moment Mb = 150 Nm
- Color: RAL 9006 white aluminum
- Other models and accessories upon request



ERGOSWISS | Table system TA



Due to its modular design the TA system can be used in a versatile and flexible way. With just a few elements, different applications are pos-

TA-2: A two-leg system for seated and standing workplaces in the office or at assembly workplaces. Consisting of two table legs, two carrier plates, two table feet and a crossbar for the stabilization of the system. Different table widths can be implemented with the crossbars from the standard program.

TA-3: A three-leg system for corner combinations in the office and at assembly areas. Here the two-leg system with an additional crossbar is extended by a third leg.

TA-4: A four-leg system for maximum stability, such as workbenches, plane benches and assembly workplaces. The crossbars in the longitudinal direction can be placed in three depth positions.

Special: On tables for cable PADkaging or assembly of long components, the two-leg system can be controlled in serial synchrony. This also permits height adjustment on very long tables.

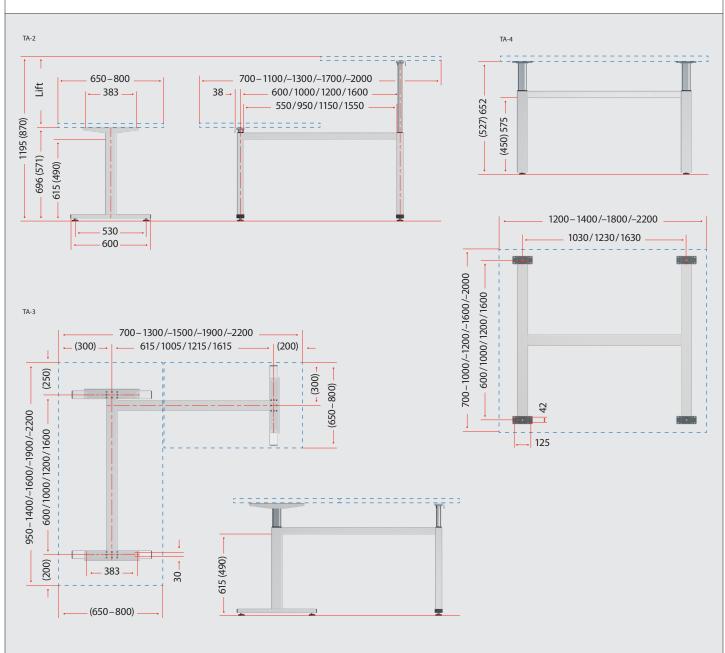
Up to 10 table legs can be connected at once and adjusted with the PB pump. Examples are large textile tables, multi-leg tables for the assembly of large components, as well as the adjustment of any size surface.





Table versions





System LH/TH





TECHNICAL DATA

Linear unit LH

- Load max. 1500 N per linear unit
- Lift length max. 500 mm (638 – 1138 mm)
- Steel profile 34x34 powder coated RAL 9006 white aluminium
- incl. premounted tubing with a length of 4m
- Please note also further details on our homepage

Frame TH

- Load max. 1500 N
- Available in stainless or chrome plated steel
- Lift range: 710 max. 1210 mm
- incl. 4 rubber feet to adjust uneven floors
- Cross bars 30x60 mm
- Simple assembly with only 4 screws

System TS



The system TS is designed primarily for the height adjustment of beds, but can also be used for working platforms and kitchens. It can be fitted to existing beds or forms the

basis for a new development of a resting place. It also presents an elegant design with its silm and shapely legs.



Mounting bracket A

The bracket type A is mounted directly at the bed frame. The lath floor can be laid on it.

Mounting bracket B

Alternative to bracket type A. It is made especially to retrofit an existing bed frame.

Cross bar TS 750

For a maximum of stability the cross bar can be screwed between the legs. The dimension of the center lines is 800 mm.

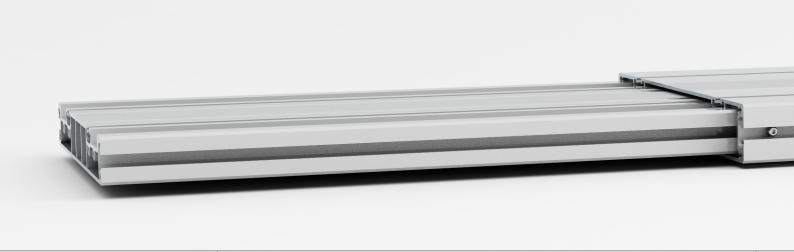


TECHNICAL DATA

System TS

- Load max. 1500 N per leg
- higher lift capacity upon request
- Lift length max. 200 mm (340 – 540 mm)
- Steel profile 50x50 powder coated RAL 9006 white aluminium
- incl. rubber foot and premounted tubing with a length of 4m
- Please note also further details on our homepage

ERGOSWISS | Table system



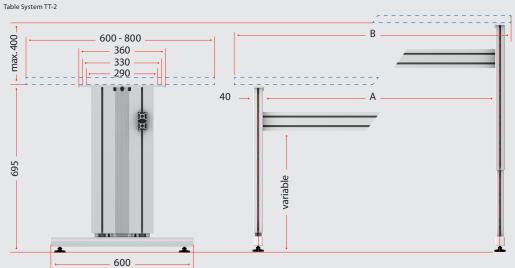
The newly developed guiding System TT is extremely suitable for assembly workplaces, assembly machines, office desks, workbenches, height adjustable beds or for general use in the machine and furniture industry.

The strong aluminum guiding System guarantees high stability and can be easily connected to any kind of aluminum profile.

Based on the T-Nuts on 3 sides of the guides, the TT System is very flexible to design any kind of structure. In combination with the PB pump, corner combinations and linked workplaces up to 10 legs can be realized. For heavy loads, 2 Cylinders can be mounted in each guide.

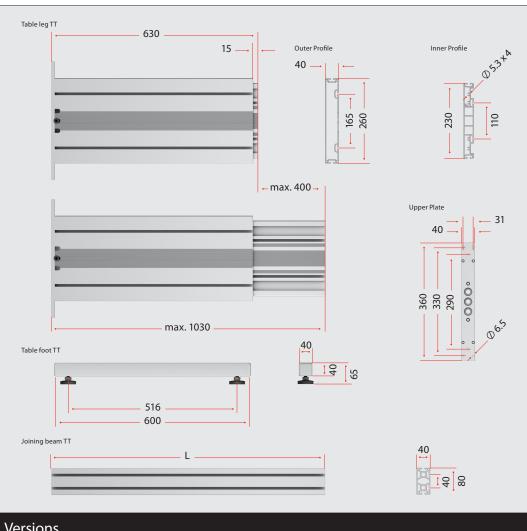






Type TT





Versions Frame Part - No.: A (mm) B (mm) Joining beam L (mm) TT-2 590 108.00181 550 650 - 850 119.00171 550 TT-2 990 108.00182 950 1050 - 1250 119.00172 950 TT-2 1190 108.00183 1150 1250 - 1650 119.00173 1150 TT-2 1590 108.00184 1550 1650 - 2050 119.00174 1550

TECHNICAL DATA

- Load max. 1500 N per guiding
- 3'000 N by using 2 Cylinder per guiding
- Please observe the max. load on the complete system
- Retracted length 630 mm
- Lift up to 400 mm
- Max. static bending moment Mb = 1500 Nm
- Max. dynamic bending moment Mb = 150 Nm
- Color: aluminum colorless anodized
- Other models upon request

Further information

Guarantee The guarantee is valid for 2 years after delivery of the systems. We guarantee the proper functioning of the system within its limits. The following points must be observed by the buyer:

- · The system must be installed and used according to the manufacturer's directions.
- The system must be used under normal conditions.
- The system or parts thereof cannot be utilized beyond its limits (max. load/side load).
- The system must be used within the prescribed temperature range (-15 to +45 °C).
- The system should not be exposed to any chemicals or other aggressive agents.

The guarantee covers production and material faults on Ergoswiss AG's part. For faulty operation by the customer, or during attempt to disassemble the system, the guarantee becomes null and void.

CE identification Since the Ergoswiss-System needs an external force to retract the cylinder; the system is not considered a "Machine" and therefore does not have CE identification. All relevant European guidelines are maintained. A "Manufacturer Statement" can be obtained from us at any time.

> The electronic drive must be labeled and tested according to EN guidelines for electrical products and CEidentified. Test certificates can be obtained from us.

Scope of delivery

The necessary screws and clamp rings are delivered for each hose connection. These are included in the price. Exact operating and assembly instructions are part of the delivery.

Please note that systems with a pre-assembled pressure hose need to have the hose length indicated.

PADkaging is included in the price. All parts are delivered direct from the factory.

CAD Technical drawings in a PDF or a step Form could be downloaded under www.ergoswiss.com. If another Form is needed, please contact our Sales Department.

Comments Our terms and conditions are exclusively valid. The material delivered by us stays our property until complete payment is received, even if no special retention of title has been stipulated.

> We reserve the right for any technical and content changes.

System selection tables

Using the necessary lift force, the number of drive cylinders and the necessary lift height, you can assemble the right system for you with the help of the tables below.

The tables show a selection of possible combinations. We will gladly advise you on further possible combinations.

For pumps with 7, 9 or 10 connections the tables are valid analogously to the selection table for 8 cylinders.

120 kg 250 lbs	Cylinder type ¹	Pump type for 1 cylinder*	Pump type for 2 cylinders	Pump type for 3 cylinders	Pump type for 4 cylinders	Pump type for 5 cylinders	Pump type for 6 cylinders	Pump type for 8 cylinders
150 mm/6" lift	1415	PA 1815	PA 2615	PB 3615	PB 4615	PB 5615	PB 6615	•••
200 mm/8" lift	1420	PA 1820	PA 2620	PB 3620	PB 4620	PB 5620	PB 6620	•••
300 mm/12″ lift	1430	PA 1830	PA 2630	PB 3630	PB 4630	PB 5630	PB 6630	•••
400 mm/15.5" lift	1440	PA 1840	PA 2640	PB 3640	PB 4640	PB 5640	PB 6640	•••
500 mm/19.5" lift	1450	PA 1850	PA 2650	PB 3650	PB 4650	PB 5650	PB 6650	•••
600 mm/23.5" lift	1460	PA 1860	PA 2660	PB 3660	PB 4660	PB 5660	PB 6660	•••
lift per rotation		5 mm 13/64″	10 mm 3/8″	•••				
Electric drive type speed in mm	",	PAA, 10 PAD, 10	PAA, 20 PAD, 20	PBA, 20 PBD, 20	PBA, 20 PBD, 20	PBA, 20 PBD, 20	PBA, 20 PBD, 20	•••
Electric drive type speed in inches	",	PAA, 3/8″ PAD, 3/8″	PAA, 25/32" PAD, 25/32"	PBA, 25/32″ PBD, 25/32″	PBA, 25/32″ PBD, 25/32″	PBA, 25/32″ PBD, 25/32″	PBA, 25/32" PBD, 25/32"	•••

350 kg 750 lbs	Cylinder type ¹	Pump type for 1 cylinder	Pump type for 2 cylinders	Pump type for 3 cylinders	Pump type for 4 cylinders	Pump type for 5 cylinders	Pump type for 6 cylinders	Pump type for 8 cylinders
150 mm/6" lift	1415	•••	PA 2815	PB 3815	PB 4815	PB 5815	PB 6815	PB 8815
200 mm/8" lift	1420	•••	PA 2820	PB 3820	PB 4820	PB 5820	PB 6820	PB 8820
300 mm/12″ lift	1430	•••	PA 2830	PB 3830	PB 4830	PB 5830	PB 6830	PB 8830
400 mm/15.5" lift	1440	•••	PA 2840	PB 3840	PB 4840	PB 5840	PB 6840	PB 8840
500 mm/19.5" lift	1450	•••	PA 2850	PB 3850	PB 4850	PB 5850	PB 6850	PB 8850
600 mm/23.5" lift	1460	•••	PA 2860	PB 3860	PB 4860	PB 5860	PB 6860	PB 8860
lift per rotation		•••	5 mm 13/64″					
Electric drive type speed in mm	",	•••	PAA, 10 PBD, 10	PBA, 10 PBD, 10	PBA, 10 PBD, 10	PBA, 10 PBD, 10	PBA, 10 PBD, 10	PBD, 15
Electric drive type speed in inches	II ,	•••	PAA, 3/8″ PBD, 3/8″	PBA, 3/8″ PBD, 3/8″	PBA, 3/8″ PBD, 3/8″	PBA, 3/8″ PBD, 3/8″	PBA, 3/8″ PBD, 3/8″	PBD, 19/32"

600 kg 1300 lbs	Cylinder type ¹	Pump type for 1 cylinder	Pump type for 2 cylinders	Pump type for 3 cylinders	Pump type for 4 cylinders	Pump type for 5 cylinders	Pump type for 6 cylinders	Pump type for 8 cylinders
180 mm/7" lift	1420	•••	•••	•••	PB 4418	PB 5418	PB 6418	PB 8418
300 mm/12″ lift	1430	•••	•••	•••	PB 4430	PB 5430	PB 6430	PB 8430
400 mm/15.5" lift	1440	•••	•••	•••	PB 4440	PB 5440	PB 6440	PB 8440
lift per rotation		•••	•••	•••	3 mm 1/8″	3 mm 1/8″	3 mm 1/8″	3 mm 1/8″
Electric drive type speed	",		•••	•••	PBD, 9 mm/s PBD, 3/8"/s			

^{*} During the use of just one cylinder the max. load is 100 kg

1 kg = 2.2 Lbs / 1" = 25.4 mm

¹ Cylinder CB, CD, CE, CG, CH, CI, linear unit LA, LB, LD or table leg TA

 $^{^{\}mbox{\tiny II}}$ With the electric drive $\,$ the max. lifting power is 80% of the nominal load.

Distribution network



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