



ORIGA SYSTEM PLUS "Simply the First"

for pneumatic and electric linear drive systems

aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding



ENGINEERING YOUR SUCCESS.



ORIGA SYSTEM PLUS Pneumatic Linear Drives, the "ORIGINAL"

The Unique Modularity of the ORIGA SYSTEM PLUS is the Heart of

Rodless Pneumatic Cylinder OSP-P and OSP-L

- Completely modular design
- Compact design
- Lowest leakage values
- Service intervals up to 8,000 km
- Equal force in both directions
- Widest capability for speed, load and movement profiles
- Low maintenance
- Easy to install
- Wiper system with automatic re-adjustment
- High side loads possible
- Integral dove tail rails on three sides provide many adaptation possibilities, e.g. linear guides, magnetic switches etc.
- Integral air passages enable both air connections at one end for easy mounting
- Stroke length up to 6,000 mm*
- Extensive range of attachements and accessories from the OSP Modular System

*strokes up to 41 m on request

Corrosion-resistant steel outer sealing band and robust wiper system on the carriage for use in aggressive environments

Integral air passages enable both air connections to be positioned at one end, if desired

Combined clamping for inner and outer sealing band with dust cover

End caps can be rotated 4 x 90° (before and after delivery) so that the air connection can be in any desired position

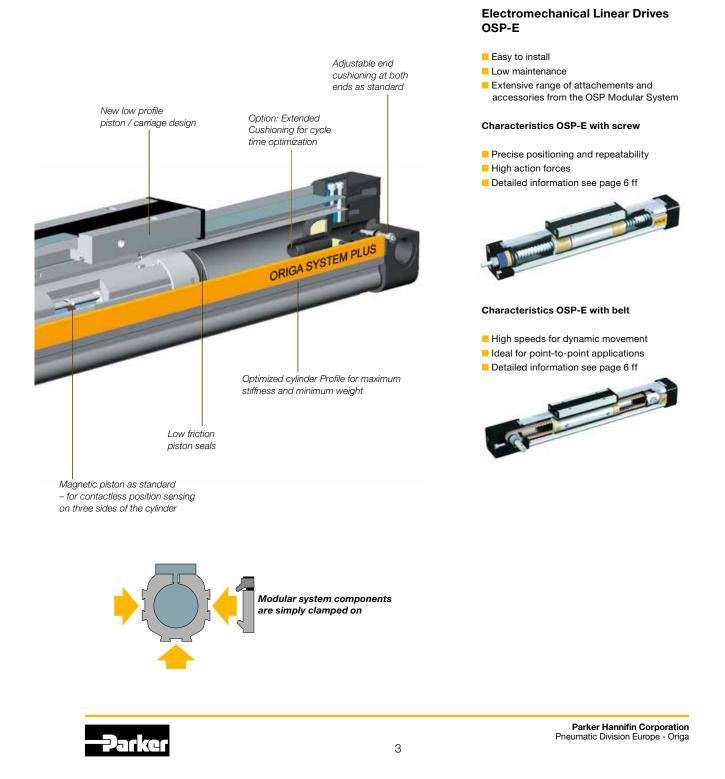
Proven corrosion-resistant steel inner sealing band (OSP-P) or PU inner sealing band for optimum sealing and extremely low friction and low leakage (OSP-L)





Electromechanical Linear Drives

Both Standard Series and Special Solutions





OSP-P and OSP-L: The Multitalents



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Also with Numerous Variants

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OSP-E

Electromechanical Linear Actuators for High Dynamics, Reliability an

Ball Screw Actuator OSP-ESB		Trapezoidal Screw Actuator OSP-EST		Belt Actuator OSP-EB	
				T	
 Precise positioning and repeatablility High force output Excellent slow speed Complete motor and control packages Diverse range of accessories and mountings Integrated drive and guidance system Easy installation Low maintenance Clean Room Version on request 		 Precise positioning and repeatablility High force output Complete motor and control packages Diverse range of accessories and mountings Integrated drive and guidance system Easy installation Low maintenance 		 High speed and dynamic Ideal for precise point-to-point applications Long available strokes Complete motor and control packages Diverse range of accessories and mountings Integrated drive and guidance system Easy installation Low maintenance 	
Characteristics	Description	Characteristics	Description	Characteristics	Description
0	25, 32, 50 mm	Size	25, 32, 50 mm	Size	25, 32, 50 mm
Size Pitch	5, 10, 25 mm depen- ding on diameter	Pitch	4, 6 mm depending on diameter		

0120	
Pitch	5, 10, 25 mm depen- ding on diameter
Max. Action force F_{A}	up to 1,500 N depen- ding on diameter and speed
Speedy	max. 1.25 m/s depen-
Speed v _{max}	ding on diameter
Stroke lengths	ding on diameter up to 3,200 mm de- pending on diameter

Temperature range -20 to +80°C

Gilaracteristics	Description
Size	25, 32, 50 mm
Pitch	4, 6 mm depending on diameter
Max. Action force F_A	up to 2,500 N depen- ding on diameter and speed
Speed v _{max}	max. 0.15 m/s depending on diameter
Stroke lengths	up to 2,500 mm de- pending on diameter
Temperature range	-20 to +70°C

Characteristics	Description
Size	25, 32, 50 mm
Max. Action force F_{A}	425 N depending on diameter and speed
Speed v _{max}	5 m/s depending on diameter
Stroke lengths	max. 5,000 mm (max. 2x2,500 mm BP Version)
Temperature range	-30 to +80°C

OSP-E..SB





OSP-E..ST

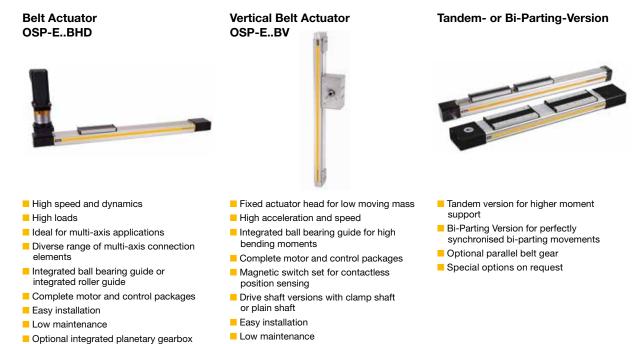


OSP-E..B





Id Accurate Positioning



Characteristics	Description	С	haracteristics
Size	20, 25, 32, 50 mm		Size
Max. Action force F_A	up to 3,120 N depen- ding on diameter and speed	_	Max. Action force F_A
Speed v _{max}	5 m/s recirculating ball bearing guide 10 m/s roller guide	_	Speed v _{max}
Stroke lengths	up to 5,700 mm recirculating ball bearing guide up to 7,000 mm roller guide		Stroke lengths
Temperature range	-30 to +80°C	-	Temperature range

OSP-E..BHD





OSP-E...BV



OSP-E..Bi-Part





Guide Systems

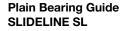
Extensive Product Range for a Variety of Applications

NEW

Compact Plain Bearing Guide BASIC GUIDE BG

- Compact: Guide rail integrated in cylinder tube profile
- Robust plain bearing guide for long lifetime
- Wiper system and grease nipples for long lifetime integrated in the guide carriage
- Simple to (re-) adjust
- Optional corrosion-resistant version
- ATEX version is also available

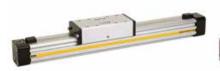




- For medium loads
- Anodized aluminium guide rail
- Low friction, adjustable plastic sliding elements
- Active and passive brake options
- Optional corrosion-resistant version
- ATEX version is also available

Roller Guide POWERSLIDE PS

- For tough application conditions
- Anodised aluminium guide carriage with v-rollers having 2 rows of ball bearings
- Hardened steel guide rail
- Several guide sizes can be used on the same drive
- Robust roller cover with wiper and grease nipple
- Optional corrosion-resistant version





* longer strokes on request

Basic Guide



Characteristics	Description
Size Ø	16 to 80 mm
Stroke lengths *	up to 5,500 mm
Max. load	up to 2,500 N
Max. moments	up to 260 Nm
Speed	up to 2 m/s
*	

* longer strokes on request

Slideline





Characteristics	Description	
Size Ø	16 to 50 mm	
Stroke lengths *	up to 3,500 mm	
Max. load	up to 4,000 N	
Max. moments	up to 350 Nm	
Speed	up to 3 m/s	
* longer strokes on request		

Powerslide





Aluminium Roller Guide PROLINE PL

- For high velocities
- Smooth operation low noise
- High load and moment capacity in all directions
- Crosswise arranged rollers on needle bearings
- High precision through ground and calibrated tracks
- Integrated wiper system
- Optional with active or passive brake
- Compatible with SLIDELINE plain bearing guide

Recirculating Ball Bearing Guide STARLINE STL

- For very high loads in all directions
- High precision
- Precision-ground, hardened steel guide rails
- Integrated wiper system
- Mounting dimensions of guide carriage are compatible with SLIDELINE and PROLINE
- Optional with variable stop for simple stroke limitation

Recirculating Ball Bearing Guide HEAVY DUTY GUIDE HD

- For highest loads in all directions
- Highest precision
- Guide with 4-row recirculating ball bearing system
- Precision-ground, hardened steel guide rail
- Integrated wiper system
- Mounting dimensions of guide carriage are compatible with GUIDELINE
- Optional with variable stop for simple stroke limitation
- Optional with Intermediate stop module for HD25



Characteristics	Description
Size Ø	16 to 50 mm
Stroke lengths	up to 3,750 mm
Max. load	up to 3,111 N
Max. moments	up to 249 Nm
Speed	up to 10 m/s



Characteristics	Description
Size Ø	16 to 50 mm
Stroke lengths *	up to 3,700 mm
Max. load	up to 7,500 N
Max. moments	up to 580 Nm
Speed	up to 5 m/s
* langer strokes on	raguaat

longer strokes on request

Starline





Characteristics	Description	
Size Ø	25 to 50 mm	
Stroke lengths *	up to 3,700 mm	
Max. load	up to 18,000 N	
Max. moments	up to 1,400 Nm	
Speed	up to 5 m/s	
* longer strokes on request		

" longer strokes on reque

Heavy Duty Guide



Option: Variable Stop - provides simple stroke limitation for STARLINE STL and Heavy Duty Guide HD

- Steplessly adjustable over the whole stroke length
- For each cylinder diameter, two types of shock absorber are available



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Proline

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OSP: Brakes for High Loads and Forces

Dynamic Braking out of the Motion, Safe Maintaining Positions Even with Changing Loads

Integrated Active Brake

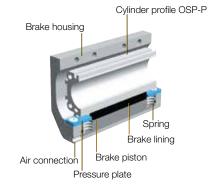
For standard cylinders, with "SLIDELINE" plain bearing guide and with "PROLINE" aluminium roller guide

- Brake actuation by compressed air
- Brake return by spring force
- Completely corrosion-resistant
- Maintaining position even with changing loads

Characteristics	Description
Size Ø	25 to 80 mm
Max. braking force	up to 4,000 N at 6 bar
Braking surface	dry

Active Brake





Integrated Passive Brake

For cylinders with SLIDELINE plain bearing guide and with PROLINE aluminium roller guide

- Blocking function for energy failure
- Actuation by spring force
- Release by compressed air
- Can stop at any intermediate position during movement

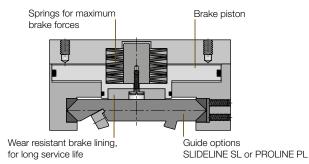
Characteristics	Description
Size Ø	25 to 80 mm
Max. braking force	up to 2,900 N
Operating pressure	4.5 to 8 bar

Passive Brake









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HMR

Electromechanical Linear Actuator with Screw or Toothed Belt

NEW

Toothed Belt for Highly Dynamic Movements HMR-B

Screw for Precise Positioning



Characteristics	Description
Size	85, 110, 150, 180, 240 mm
Motor orientation	4 x 90°
Max. action force F_{A}	up to 4,000 N depending on diameter and torque
Speed v_{max}	max. 5 m/s depending on diameter
Stroke length	up to 6,000 mm depending on diameter
Temperature range	-20 to +80°C

Characteristics	Description
Size	85, 110, 150, 180, 240 mm
Pitch	5, 10, 16, 20, 25, 32 mm depending on diameter
Max. action force F_A	up to 5,500 N depending on diameter and torque
Speed v _{max}	max. 1.6 m/s depending on diameter
Stroke length	up to 4,000 mm depending on diameter
Temperature range	-20 to +80°C

Basic profile for assembling directly to the machine base

- Reinforced profile for self-supporting assembly
- Integrated T-slots for attaching from below and from the side
- Central lubrication via externally accessible lubricating nippels
- Integrated, adjustable position switch for end positions and homing
- Integrated shock absorbers for both end positions

Optional cover for protection class IP54

HMR







RL-Sizing / EL-Sizing / Easy-Drive

Userfriendly Sizing and Commissioning

RL-Sizing Configuration software for pneumatic linear drives EL-Sizing Configuration software for electromechanical linear drives Easy-Drive Configuration and parameterization for electromechanical drive systems



The RL-Sizing software provides the sizing for pneumatic linear drives in a matter of seconds.

The user simply inputs his technical operating conditions, e.g. installation position, travel distance or weight for the motion task.

RL-sizing independently calculates static and dynamic motion conditions according to the input information.

In a matter of seconds, the suitable linear drives are ready for selection.



Time-consuming calculations of static and dynamic movement parameters are carried out automatically by the program.

EL-Sizing saves valuable time by avoiding complex recalculations.

As soon as all your values have been entered, one button click brings up a list of all suitable linear drives in seconds.

Complete linear drive / motor packages can also be selected.



Software for the configuration and parameterization of electromechanical linear actuators also for programming of motion profiles, individual and interlinked sequences.





ORIGA Service

Fast, Efficient, Cost-Effective



Service Packs, Seal Kits and Spare Parts

Due to the simple design of ORIGA rodless cylinders, you can readily carry out your own maintenance and repair using original spare parts.

- At www.parker-origa.com you will find the service partner nearest to you; provide them with the type designation of your cylinder (type plate under the labelled cover strip), and within 2 to 3 working days you can receive the relevant service packs,seal kits or spare parts by express delivery.
- The fitting instructions show you, in simple steps, how to repair the cylinder yourself using standard tools, to restore its original performance characteristics.



Premium Service

We recommend our Standard Service: The complete, expert reconditioning with original replacement parts.

- Simply send your cylinder to your nearest service partner. You will find the contact details at www.parker-origa.com.
 We undertake to recondition your cylinder and to return it to you within 2 to 3 working days of the date of receipt.
- An emergency same-day service is available on request.
- ORIGA Service the cost-effective solution.



Cylinder Service in the Field

For cylinders running under critical conditions and for those with extremely long strokes, it is sometimes more convenient to have them serviced in the field.

- Contact us and arrange an appointment. At www.parker-origa.com you will find the service partner nearest to you.
- Our service team can carry out all standard service work on site - preferably during the routine general overhaul of your machine or production line.



ORIGA-Cylinder Expertise and Quality for more than 40 years !



Contact





Application-Specific System Solutions

ORIGA SYSTEM PLUS OSP:

Basic Concept of Intelligent and Multifunctional Solutions





Durability Test Bench Durability test of switch actuators and gear simulation



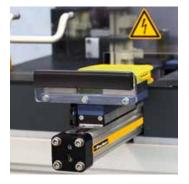


Food Processing Handling and conveying of dough pieces in a lye application machine





Deburring of Alloy Wheels Vertical and horizontal movement of sawing units





Handling of Electronic Components Feeding components into a laser inscription and functional test unit





Assembly of a Modular Steering Kit Feeding components to be assembled on a carrier pallet







Quality Inspection Approaching ultrasonic testing heads to the testee



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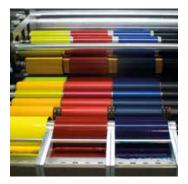


Door Operating System A complete ready-to-install assembly comprising linear drive and integrated control and safety functions





Sub-System-Component Used in a plastic blowmoulding machine for forming plastic bottles





Linear Drive for Roll Cleaning Used in the sheet metal, film, paper, printing and surface coating industry





Overhead Thrust Unit Used to distribute items on a conveyor, e. g. in airport intallations



Clean Room Pneumatic Cylinders An integrated vacuum system prevents particle emissions from the inside of the actuator



Customized Cylinders with Integrated Valve Technology Used for external doors and sliding step activation



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