ORIGA SYSTEM PLUS
„Simply the First“
for pneumatic and electric linear drive systems
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 attachments 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

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)

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

Corrosion-resistant steel inner sealing band
Electromechanical Linear Drives

Both Standard Series and Special Solutions

Electromechanical Linear Drives OSP-E

- Easy to install
- Low maintenance
- Extensive range of attachments and accessories from the OSP Modular System

Characteristics OSP-E with screw

- Precise positioning and repeatability
- High action forces
- Detailed information see page 6 ff

Characteristics OSP-E with belt

- High speeds for dynamic movement
- Ideal for point-to-point applications
- Detailed information see page 6 ff

New low profile piston / carriage design

Adjusted end cushioning at both ends as standard

Optimized cylinder Profile for maximum stiffness and minimum weight

Low friction piston seals

Option: Extended Cushioning for cycle time optimization

Magnetic piston as standard – for contactless position sensing on three sides of the cylinder

Modular system components are simply clamped on
OSP-P and OSP-L: The Multitalents

ORIGA Cylinders Set the Standards

**NEW**

Rodless Pneumatic Cylinder OSP-L

- PU-Inner sealing band
- Lowest leakage values
- Low slight friction force
- Ø 25, Ø 32, Ø 40 mm

**NEW**

Compact Plain Bearing Guide BASIC GUIDE

- Compact: guide rail integrated in the cylinder profile
- Robust Plain Bearing Guide for high lifetime

**NEW**

Bi-Part Version OSP-P 40

- Accurate bi-parting movement through toothed belt synchronization
- Adjustable polymer slide units
- Optimum slow speed performance

Rodless Pneumatic Cylinder OSP-P

- Proven stainless steel innerband
- Outstanding lifetime
- Temperature range -40 to 120°C
- Speed 0.005 m/s - 30 m/s
- Ø 10 - 80 mm
- For EX-Area 2 GD

Tandem Cylinder OSP-P /OSP-L

- Higher load capacity
- Increased support
- Any stroke length

SENSOFLEX SFI-plus measuring system

- Contactless magnetic displacement measuring system
- Resolution 0.1 mm or 1 mm
- Displacement speed up to 10 m/s
- Suitable for almost any control or display unit with a counter input
- Also available for series OSP-E

VOE version with integrated valves, for OSP-P, OSP-L and BASIC GUIDE
Also with Numerous Variants

Clean Room Cylinder certified to DIN EN ISO 14644-1, OSP-P

- Clean Room Classification
  ISO Class 4 at \( v_m = 0.4 \text{ m/s} \)
  ISO Class 5 at \( v_m = 0.5 \text{ m/s} \)
- Ø 16, 25, 32 mm
- Suitable for smooth slow speed operation down to \( v_{min} = 0.005 \text{ m/s} \)
- Also available for OSP-E

The first rodless cylinder certified to ATEX, Category 2GD, OSP-P

- Classification:
  \( \text{II 2GD c T} 135^\circ\text{C} -10^\circ\text{C} \leq Ta \leq 60^\circ\text{C} \)
- Also available for Basic Guide and Slideline
- Ø 10 to 80 mm
- Action force 3,470 N at 8 bar
- Service interval 8,000 km
- Temperature Range -10 bis +80°C

Special Versions*

- For use in EX-Areas
- For Clean Room applications certified to DIN ISO 14644-1
- Stainless Steel version for special applications
- High temperature version for temperatures up to +120 °C
- Low temperature version for temperatures down to -40 °C
- Slow speed version \( v = 0.005 \text{ to } 0.2 \text{ m/s} \)
- High speed version \( v_{max} = 30 \text{ m/s} \)
- Extremely long cylinders, stroke lengths up to 41 m
- Cushioning system for cycle time optimization

* Special Versions are not available for all series

Qualification Certificate on request

OSP-P Cleanroom
OSP-P..Atex

Active and Passive Brakes see page 10
Guide Systems see page 8, 9
Magnetically Coupled P1Z Ø 16 to 40 mm
## OSP-E

**Electromechanical Linear Actuators for High Dynamics, Reliability and Accurate Positioning**

### Ball Screw Actuator
OSP-E..SB

- Precise positioning and repeatability
- 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

**Characteristics Description**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>25, 32, 50 mm</td>
</tr>
<tr>
<td>Pitch</td>
<td>5, 10, 25 mm depending on diameter</td>
</tr>
<tr>
<td>Max. Action force $F_a$</td>
<td>up to 1,500 N depending on diameter and speed</td>
</tr>
<tr>
<td>Speed $v_{max}$</td>
<td>max. 1.25 m/s depending on diameter</td>
</tr>
<tr>
<td>Stroke lengths</td>
<td>up to 3,200 mm depending on diameter</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20 to +80°C</td>
</tr>
</tbody>
</table>

### Trapezoidal Screw Actuator
OSP-E..ST

- Precise positioning and repeatability
- High force output
- Complete motor and control packages
- Diverse range of accessories and mountings
- Integrated drive and guidance system
- Easy installation
- Low maintenance

**Characteristics Description**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>25, 32, 50 mm</td>
</tr>
<tr>
<td>Pitch</td>
<td>4, 6 mm depending on diameter</td>
</tr>
<tr>
<td>Max. Action force $F_a$</td>
<td>up to 2,500 N depending on diameter and speed</td>
</tr>
<tr>
<td>Speed $v_{max}$</td>
<td>max. 0.15 m/s depending on diameter</td>
</tr>
<tr>
<td>Stroke lengths</td>
<td>up to 2,500 mm depending on diameter</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20 to +70°C</td>
</tr>
</tbody>
</table>

### Belt Actuator
OSP-E..B

- 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**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>25, 32, 50 mm</td>
</tr>
<tr>
<td>Max. Action force $F_a$</td>
<td>425 N depending on diameter and speed</td>
</tr>
<tr>
<td>Speed $v_{max}$</td>
<td>5 m/s depending on diameter</td>
</tr>
<tr>
<td>Stroke lengths</td>
<td>max. 5,000 mm (max. 2x2,500 mm BP Version)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-30 to +80°C</td>
</tr>
</tbody>
</table>
OSP-E..BHD
• High speed and dynamics
• High loads
• Ideal for multi-axis applications
• Diverse range of multi-axis connection elements
• Integrated ball bearing guide or integrated roller guide
• Complete motor and control packages
• Easy installation
• Low maintenance
• Optional integrated planetary gearbox

OSP-E..BV
• Fixed actuator head for low moving mass
• High acceleration and speed
• Integrated ball bearing guide for high bending moments
• Complete motor and control packages
• Magnetic switch set for contactless position sensing
• Drive shaft versions with clamp shaft or plain shaft
• Easy installation
• Low maintenance

OSP-E..Bi-Part
• Tandem version for higher moment support
• Bi-Parting Version for perfectly synchronised bi-parting movements
• Optional parallel belt gear
• Special options on request

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>20, 25, 32, 50 mm</td>
<td>Size</td>
<td>20, 25 mm</td>
</tr>
<tr>
<td>Max. Action force $F_a$</td>
<td>up to 3,120 N depending on diameter and speed</td>
<td>Max. Action force $F_a$</td>
<td>up to 1,000 N</td>
</tr>
<tr>
<td>Speed $v_{max}$</td>
<td>5 m/s recirculating ball bearing guide</td>
<td>Speed $v_{max}$</td>
<td>up to 5 m/s</td>
</tr>
<tr>
<td>Stroke lengths</td>
<td>up to 5,700 mm recirculating ball bearing guide up to 7,000 mm roller guide</td>
<td>Stroke lengths</td>
<td>up to 1,500 mm</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-30 to +80°C</td>
<td>Temperature range</td>
<td>-30 to +80°C</td>
</tr>
</tbody>
</table>
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

Characteristics
<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Ø</td>
</tr>
<tr>
<td>Stroke lengths *</td>
</tr>
<tr>
<td>Max. load</td>
</tr>
<tr>
<td>Max. moments</td>
</tr>
<tr>
<td>Speed</td>
</tr>
<tr>
<td>25 to 50 mm</td>
</tr>
<tr>
<td>up to 6,000 mm</td>
</tr>
<tr>
<td>up to 2,000 N</td>
</tr>
<tr>
<td>up to 165 Nm</td>
</tr>
<tr>
<td>up to 2 m/s</td>
</tr>
<tr>
<td>* longer strokes on request</td>
</tr>
</tbody>
</table>

Plain Bearing Guide
SLIDELINE SL

- 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

Characteristics
<table>
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<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Ø</td>
</tr>
<tr>
<td>Stroke lengths *</td>
</tr>
<tr>
<td>Max. load</td>
</tr>
<tr>
<td>Max. moments</td>
</tr>
<tr>
<td>Speed</td>
</tr>
<tr>
<td>16 to 80 mm</td>
</tr>
<tr>
<td>up to 5,500 mm</td>
</tr>
<tr>
<td>up to 2,500 N</td>
</tr>
<tr>
<td>up to 260 Nm</td>
</tr>
<tr>
<td>up to 2 m/s</td>
</tr>
<tr>
<td>* longer strokes on request</td>
</tr>
</tbody>
</table>

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

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

Basic Guide
Slideline
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

<table>
<thead>
<tr>
<th>Size Ø</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 to 50 mm</td>
<td>Stroke lengths up to 3,750 mm</td>
</tr>
<tr>
<td>Max. load</td>
<td>up to 3,111 N</td>
</tr>
<tr>
<td>Max. moments</td>
<td>up to 249 Nm</td>
</tr>
<tr>
<td>Speed</td>
<td>up to 10 m/s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size Ø</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 to 50 mm</td>
<td>Stroke lengths up to 3,700 mm</td>
</tr>
<tr>
<td>Max. load</td>
<td>up to 7,500 N</td>
</tr>
<tr>
<td>Max. moments</td>
<td>up to 580 Nm</td>
</tr>
<tr>
<td>Speed</td>
<td>up to 5 m/s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size Ø</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 to 50 mm</td>
<td>Stroke lengths up to 3,700 mm</td>
</tr>
<tr>
<td>Max. load</td>
<td>up to 18,000 N</td>
</tr>
<tr>
<td>Max. moments</td>
<td>up to 1,400 Nm</td>
</tr>
<tr>
<td>Speed</td>
<td>up to 5 m/s</td>
</tr>
</tbody>
</table>

**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
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

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Ø</td>
<td>25 to 80 mm</td>
</tr>
<tr>
<td>Max. braking force</td>
<td>up to 4,000 N at 6 bar</td>
</tr>
<tr>
<td>Braking surface</td>
<td>dry</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Ø</td>
<td>25 to 80 mm</td>
</tr>
<tr>
<td>Max. braking force</td>
<td>up to 2,900 N</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>4.5 to 8 bar</td>
</tr>
</tbody>
</table>

Passive Brake

Wear resistant brake lining, for long service life

Guide options SLIDELINE SL or PROLINE PL

Springs for maximum brake forces

Brake piston
HMR

**Electromechanical Linear Actuator with Screw or Toothed Belt**

**NEW**

**Toothed Belt for Highly Dynamic Movements**

**HMR-B**

**NEW**

**Screw for Precise Positioning**

**HMR-S**

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

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>85, 110, 150, 180, 240 mm</td>
</tr>
<tr>
<td>Pitch</td>
<td>5, 10, 16, 20, 25, 32 mm depending on diameter</td>
</tr>
<tr>
<td>Max. action force $F_a$</td>
<td>up to 5,500 N depending on diameter and torque</td>
</tr>
<tr>
<td>Speed $v_{max}$</td>
<td>max. 1.6 m/s depending on diameter</td>
</tr>
<tr>
<td>Stroke length</td>
<td>up to 4,000 mm depending on diameter</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20 to +80°C</td>
</tr>
</tbody>
</table>

- 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 nipples
- Integrated, adjustable position switch for end positions and homing
- Integrated shock absorbers for both end positions
- Optional cover for protection class IP54
RL-Sizing / EL-Sizing / Easy-Drive

Userfriendly Sizing and Commissioning

**RL-Sizing**
Configuration software for pneumatic linear drives

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.

**EL-Sizing**
Configuration software for electromechanical linear drives

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.

**Easy-Drive**
Configuration and parameterization for electromechanical drive systems

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

1 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.

2 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.

3 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.

The type label is under the imprinted cover strip.

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

1. Durability Test Bench
   Durability test of switch actuators and gear simulation

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

3. Deburring of Alloy Wheels
   Vertical and horizontal movement of sawing units

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

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

6. Quality Inspection
   Approaching ultrasonic testing heads to the testee
ORIGA SYSTEM PLUS - Simply the First

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.

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

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 installations.

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