

Origa Division

ORIGA SYSTEM PLUS

Rodless Pneumatic Cylinders and Electric Linear Drives

Origa - simply the first

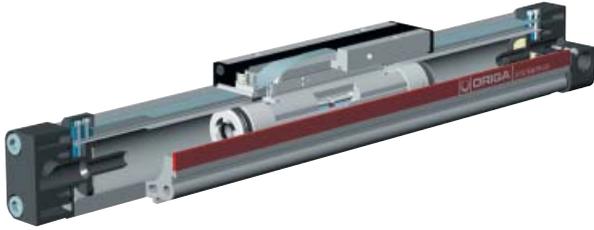
aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

ORIGA SYSTEM PLUS OSP-P

...Simply the first for rodless pneumatic cylinders



Stainless steel sealing system

- Low friction for longest seal life (8,000 km)
- Extreme temperatures (-40°C to +120°C)
- Widest operating speed range (0.005 m/s to 30 m/s)
- Suitable for extremely demanding environments

Broadest size range

- Diameters: 10, 16, 25, 32, 40, 50, 63, 80 mm
- Any length of stroke up to 10,000 mm (up to 41,000 mm on request)

Most choice of integrated options

Mountings, brakes, sensors, encoders, control valves, extended cushioning, shock absorbers, intermediate stops

Special Versions

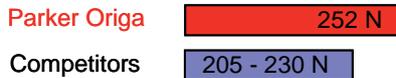
	for use in EX-Areas
	for clean room applications certified to DIN EN ISO 14644-1
	stainless steel version for special applications
	with special pneumatic cushioning system for cycle time optimization, for Ø 16 to 50 mm - on request
	high temperature version for temperatures up to +120°C
	low temperature version for temperatures down to -40°C
	slow speed version v = 0.005 - 0.2 m/s
	high speed version v _{max.} = 30 m/s
	cylinders with extremely long strokes up to 41 m

...Simply the first for choice six guide options for the widest scope of applications

	OSP-P: standard internal guide Single, tandem and duplex formats for low cost, effective guidance
	Slideline: composite plain guide Economical guidance offering rigidity and support at moderate speeds, also with brake versions
	Powerslide: V roller guide Robust guidance for demanding applications and harsh environments
	Proline: roller guide For smooth, quiet operation and for highly dynamic applications, also with brake versions
	Starline: re-circulating ball bearing guide Precision guide for applications where performance precision and rigidity are required, also with variable stops
	HD: heavy duty guide Twin rail, re-circulating ball bearing guide for max. precision, loadings, rigidity and stability, also with variable stops

Why does Origa offer the best Rodless Cylinders?

Action Force [N] values for D.25 mm



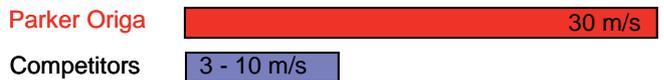
Max. Stroke [mm]



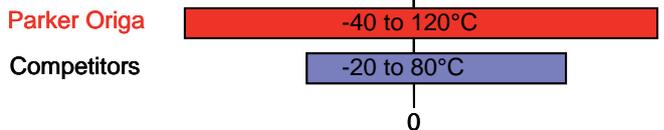
Min. Speed [m/s]



Max. Speed [m/s]



Temp. Range [°C]



ORIGA SYSTEM PLUS OSP-E

Electric Drives

OSP- E Belt Drives



OSP-E..B with toothed belt

- High speed operation
- Low maintainance
- Easy installation

Size range

Diameters: 25, 32, 50 mm
Max. stroke length 5,000 mm

Options

Tandem and Bi-parting versions

Guide Options

Powerslide, Proline



OSP-E..BHD with toothed belt and integrated ball bearing or roller guide

- Heavy duty applications
- High speed operation
- Accurate path and precise position controll
- High force output
- High load capacity
- Ideal for multi-axis applications

Size range

Diameters: 20, 25, 32, 50 mm
Max. stroke length 5,760 mm

Options

Tandem and Bi-parting versions,
integrated planetary gear box



OSP-E.. BHD bi-parting version

OSP-E Screw Drive



OSP-E..ST with trapezoidal screw

- High force output
- Self-locking
- Easy installation
- Ideal for level regulation, lifting and other applications with intermittend operations

Size range

Diameters: 25, 32, 50 mm
Max. stroke length 2,500 mm

Guide Options

Slideline, Powerslide, Proline, Heavy Duty

OSP-E..SB with ball screw

- High force output
- Precise positioning
- Low maintenance
- Excellent slow speed characteristics
- Ideal for accurate traverse operations

Size range

Diameters: 25, 32, 50 mm
Max. stroke length 3,200 mm

Guide Options

Slideline, Powerslide, Proline, Heavy Duty



OSP-E..STR with trapezoidal screw and piston rod

- High force output
- Self-locking
- Ideal for level regulation, lifting and other applications with intermittend operations

Size range

Diameters: 25, 32, 50 mm
Max. stroke length 500 mm

OSP-E..SB with ball screw and piston rod

- High force output
- Precise positioning
- Non-rotating piston rod
- For accurate dispensing, glueing

Size range

Diameters: 25, 32, 50 mm
Max. stroke length 500 mm

ORIGA SYSTEM PLUS

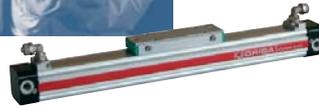
Pneumatic Cylinders and Electric Linear Drives

The ORIGA SYSTEM PLUS is the heart of both standard series and special solutions. Its unique modularity cannot be matched by any other product on the market.



Door operating systems

A complete ready-to-install assembly comprising linear drive and integrated control and safety functions - used on the VT 612.



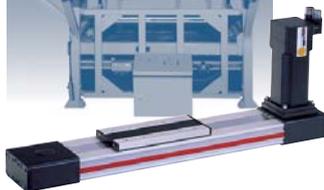
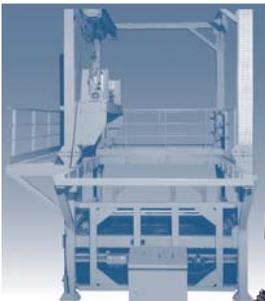
Clean room pneumatic cylinders

These pneumatic cylinders are equipped with wear-resistant components for use in Clean Rooms. Particle emissions from the cylinder are prevented by the integration of an Internal vacuum system.



3D multi-axis system with heavy duty electric linear drives

used in measuring system for various scanning and measuring processes.



Heavy duty linear drive

used in handling and packing machines for concrete paving slabs.



Linear drive for roll cleaning

used in the sheet metal, film, paper, printing and surface coating industries.



Macrocomponents

used in a plastic blowmoulding machine for forming plastic bottles.



Sizing tools

for pneumatic rodless cylinders and electric linear actuators



CAD files

for download in most common file formats

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