

Introduction

Origa Corporation, the US operation of Hoerbiger International's Origa Division, is the principle manufacturer of rodless pneumatic cylinders for the United States, South American and Canadian markets.

As part of a global organization, Origa's world wide sales and service network is supported by manufacturing and assembly locations in Europe, Australia and Asia. The parent company, Hoerbiger International, is a worldwide manufacturer and developer of industrial products, including pneumatic and hydraulic automation components.

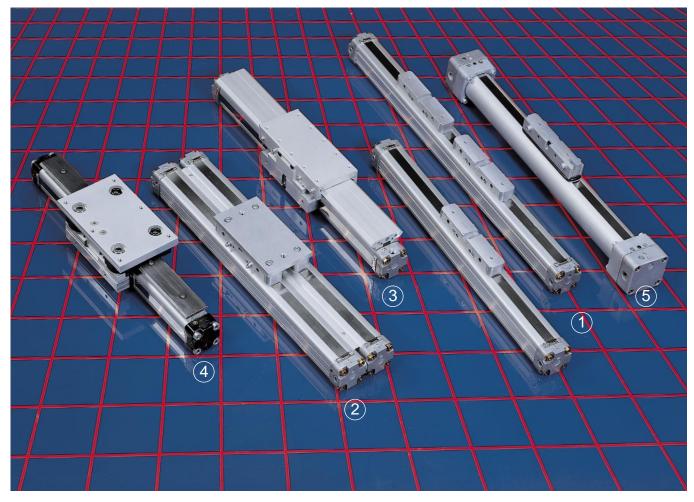
Origa is committed to developing the rodless cylinder technology with innovations that can facilitate greater penetration into the linear motion market. In particular, new developments have reduced or eliminated the need for additional support and secondary engineering associated with alternative systems.

Through market specialization Origa dominates the international market for rodless cylinders and has cultivated unparalleled expertise in their application. The company operates with an extensive distributor network, a worldwide sales force, and a complete application engineering staff dedicated to customer and technical services.

Origa strives to provide customers with products tailored to their needs, with consistent high quality and reliability. If you require further information or assistance, please complete the attached business reply card or contact us directly at any of the locations listed in section 1 page 1.1/7

HOFREGER Origa

The Pneumatic Rodless Cylinder



The following cylinder types are available:

- 1. Series 2000 Basic Cylinder Available in the following bore sizes: 10mm, 16mm, 25mm, 32mm, 40mm, 50mm Single Piston and Double Piston configurations
- 2. Series 2000 Joint Clamp Available in the following bore sizes: 25mm, 32mm, 40mm, 50mm Single Piston and Double Piston configurations
- **3.** Series 2000 NR50 Available in the following bore sizes: 16mm, 25mm, 32mm, 40mm, 50mm Single Piston and Double Piston configurations
- Series 2000 Powerguide[™] Available in the following bore sizes: 25mm, 32mm, 50mm
- 5. Series P120 Basic Cylinder Available in the following bore sizes: 40mm, 63mm, 80mm Short and Long Piston configurations

HOFRE GER

The ORIGA Principle

Features

1. The cylinder barrel of extruded anodized aluminum has a slot along its entire length. To provide rigidity the bore is eccentric to the outside diameter.

2. A flexible hardened stainless steel inner band running the entire length of the bore and passing through the piston provides a near-zero-leakage metal to metal seal. An outer band of the same material acts as a cover over the slot preventing foreign particles from entering into the cylinders interior.

3. The aluminum piston is fitted with synthetic bearing rings. The power transmission outward takes place through a positive, physical connection through the slot to the external piston mounting. This solid guide permits the acceptance of external forces and moments and minimizes frictional losses.

4. The extensive experience in the development and production of rodless cylinders, as well as the use of high quality components and materials, ensure a very service-able design lending itself to high operating safety and optimum performance.

5. This unique design, using only 4 main components, makes ORIGA cylinders reliable in operation and simple to maintain, providing long trouble free service.

6. ORIGA is the specialist in the rodless cylinder field. ORIGA has the largest range of bore diameters and can offer the longest stroke lengths with application oriented accessories for cost effective designs. ORIGA has experience in all conceivable areas of industry, attributable to the thousands of applications in which ORIGA rodless cylinders are used.

The ORIGA system is protected by worldwide patents.



Technical Benefits

Design Options

ORIGA cylinders can be supplied as a basic model, or as a basic model with external guides depending on the application requirements.

Cylinder Mountings

Various types of piston mounting are available including one which allows the cylinder to be inverted under adverse operating conditions thus protecting the sealing bands. End mounting brackets and mid-section supports are also available.

Operating Pressure

Max. 120 P.S.I.

End Of Stroke Cushioning

Adjustable cushioning is provided as standard and ensures the piston stops smoothly - even at high speeds. (10 mm not adjustable.)

Oil Free Operation

The ORIGA permanent lubricating grease eliminates the need for regular oil mist lubrication and provides long service life.

Cylinders can be used in applications where maximum cleanliness is required. (e.g. electronics pharmaceutical and food processing industries).

Slow Speed Applications

The construction of the ORIGA rodless cylinder allows for a low friction characteristic permitting extremely slow traversing speeds. For speeds below 4 inches/second we recommend that ORIGA "slow speed" lubrication is specified.

Temperature Range/Piston Speed

Standard Buna-N seals are suitable for temperatures from 15° F to +175° F. Viton seals are required for higher temperatures as well as for use when piston speeds exceed 5 ft./sec. Please contact the ORIGA Technical Department if the required operating temperature is above 175° F.

Magnetic Pistons

All Series 2000 cylinders are supplied as standard with magnetic pistons for proximity switch actuation.

Proximity Switches

Magnetically operated Hall Effect switches (IS) or Reed switches (RS) are available to sense piston position at any point over the entire stroke length.

Corrosive Environments

All screws are plated. In extreme applications stainless steel can be supplied. Special aluminum coatings are available for added protection against chemical or caustic wash down of equipment or in environments where corrosive gases are present.

Cylinder Loading

Values are based on shock-free duty and should not be exceeded during piston accelleration.

Note:

Seal life can be significantly influenced by extremes of speed, load and temperature which exceed the approved limits. Contact the ORIGA Technical Department for assistance with special applications.

All specifications are subject to change without notice.

Ordering Procedure Series 2000 32-2020/20X50-B-M Cylinder Bore Size: Prelube Specification (optional): 10, 16, 25, 32, 40 or 50 M = Standard C = CleanroomConfiguration: F = Food Grade - = Single Cylinder S = Slow SpeedJ = Joint Clamp Unit Seal Type: C=Clean Room Cylinder B = Buna-N**Piston Quantity:** V = Viton20 = Single Piston22 = Double Piston *Stroke Length: Enter metric strokes followed by "mm" (i.e. 200MM) End Cap Cushion Placement: 20 = Standard Cushion Location (21 for Ø25 & 50mm) Piston Mounting Type: 30 = Cushion at Rear of Cap (31 for Ø25 & 50mm) 20 = Standard Mount 35 = Inverted Floating Mount Note: Rear cushions are available on Ø25mm - Ø50mm only. 25 = Floating Mount 50 = External Guided Mount 30 = Inverted Mount(Not available for 10mm) *Note: When entering total stroke length for 2220/2230 PG = Powerquide(double piston) cylinders be sure to first add the "CL" distance to For Joint Clamp Cylinders: the actual, effective stroke length. Enter this total in the cylinder 24 = Platform Mount 34 = Inverted Platform Mount part number. Follow the same procedure for pricing. Series P120 P124-S/20X50-B-M Cylinder Series P120 -Prelube Specification (optional): M = Standard C = CleanroomCylinder Bore Size: -F = Food Grade 4 = 40mm S = Slow Speed - Seal Type: 6 = 63mm B = Buna-N8 = 80 mmV = Viton**Piston/Mount Configuration:** Stroke Length: Short Piston Long Piston L/26 = Standard Mount S/20 = Standard Mount Enter metric strokes followed L/28 = Platform Mount by "mm" (i.e. 200MM) S/22 = Platform Mount S/25 = Floating Mount L/36 = Inverted Mount S/30 = Inverted Mount L/38 = Inverted Platform Mount S/32 = Inverted Platform Mount Series 2000 Series P120 S/35 = Inverted Floating Mount SP32-B-1 X S-M SP124-B-S X S-M Service Packs Service Pack Service Pack Bore Size=10, 16, 25, 32, 40, 51 (Use "50" for 2020 versions) Bore Size: 124=40mm, 126=63mm, 128=80mm B= Buna-N, V= Viton B= Buna-N, V= Viton 1 = Single Piston 2 = Double Piston S = Short PistonL = Long Piston Enter Stroke Length Enter Stroke Length Grease Requirements M= Standard S= Slow Speed Grease Requirements M= Standard S= Slow Speed

ORIGA

ORIGA International Representation

(AR) Argentina (GB) Great Britain Automación Micromecánica S.A.I.C. Mariano Moreno 6546 - 1875 Wilde Pcia. de Buenos Aires Argentina Tel. 54-1-207-5808 FAX: 54-1-206-0228 GR) Greece Α Austria ORIGA Prinz-Eugen-Strasse A-1040 Wien (Vienna) Tel. 43-1-501510 FAX: 43-1-50151300 (AUS) Australia ORIGA A Division of EHI 605 Burwood Drive Knoxfield, Victoria 3180 Tel. 61-3801-2223 FAX: 61-3801-8556 (IND) India B) Belgium ORIGA B.V. Verkoop Belgie-Luxemburg Helleweide 1 B-2930 Brasschaat Tel. 32-3-6521815 FAX: 32-3-6521847 (DK) Denmark L ATLAS COPCO AUTOMATION A/S Brogrenen 3 DK-2635 ISHOG Tel. 45-427-38800 FAX: 45-437-38431 Eastern European Countries ORIGA Prinz-Eugen-Strasse A-1040 Wien (Vienna) Tel. 43-1-501510 FAX: 43-1-50151300 SF) Finland E-LINE ORIGA AB Kungsgatan 10 Box 67 S-73600 Kungsör Tel. 46-227-41100 FAX: 46-227-41129 F J France ORIGA sarl **BP 29** F-91121 Palaiseau Tel. 33-1-6919-2069 FAX: 33-1-6447-1175 ٦D (ROK) Korea Germany ORIGA GmbH Pneumatik Industriestrasse 8 Postfach 1248 70773 Filderstadt Sielmingen Tel. 49-7158-17030

FAX: 49-7158-64870

ORIGA Limited Tewkesbury Industrial Estate TEWKESBURY GB-Gloucestershire GL20 8ND Tel. 44-684-850000 FAX: 44-684-850555

ORIGA PNEUMATIK AG Libern 24 CH-8112 Otelfingen Tel. 41-1-845-1330 FAX: 41-1-845-1333

(HK) Hong Kong PACK PAL INDUSTRIAL COMPANY G/FL - 3/FL Tung Shing Mansion 950-954 Canton Road, Mongkok Kowloon Tel. 852-782-3222 FAX: 852-385-6198

AMBARATI 501 A/B Niranjan 99 Marine Drive Bombay 400002 Tel 91-22-2030141 FAX: 91-22-2062937

Italy ORIGA S.r.I. Via Martiri Della Liberta' 4/6 I-20060 Liscate Milano Tel. 39-2-95350307 FAX: 39-2-95350513

(IRL) Ireland Irish Pneumatic Services Ltd. Unit 55E Stillorgan Ind. Park Blackrock IRL-CO Dublin Tel. 353-1-952672 FAX: 353-1-954903

IL) Israel BACCARA Automation Control Kvutzat Geva 18915 Tel. 972-6-531606 FAX: 972-6-531445

Japan

HOWA Machinery Ltd. Shinkawa - Cho Hishikasugai - Gun Aichi 452 Japan Tel. 81-52-408-1200 FAX: 81-52-400-7107

WU SUNG Pneumatic Company Ltd. 14 L/T. 98 B/L Namdong Industrial Complex 662-13 Kojan-Dong Namdong-Ku Incheon Tel. 82-32-816-2100-7 FAX: 82-32-816-2108-9

L Luxembourg

ORIGA B.V. Verkoop Belgie-Luxembourg Helleweide 1 B-2930 Brasschaat Tel. 352-3-6521815 FAX: 352-3-6521847

(MAL) Malaysia

ALLAN Automation and Pneumatics Block 5012 Ang Mo Kio Ave 5, 05-01 Techplace II Singapore 2056 Tel. 65-483-2959 FAX: 65-483-2979

(MEX) Mexico MICRO PNEUMATIC, S.A. DE C.V. Marte 103-207 Col. Guerrero 06300 México, D.F. Tel. 52-5-597-3043 FAX: 52-5-597-2980

(NL) Netherlands

ORIGA B.V. PB 3543 NL-5203 DM's Hertogenbosch Tel. 31-73-441771 FAX: 31-73-441897

(NZ) New Zealand AUTOMATION PRODUCTS LTD. P.O. Box 100350 North Shore Mail Centre NZ-Aukland 1330 Tel. 64-479-3582 FAX: 64-479-3586

Ν Norway

E-LINE ORIGA AB Kungsgatan 10 Box 67 S-73600 Kungsör Tel. 46-227-41100 FAX: 46-227-41129

Ρ Portugal

ORIGA Handelsges. AG Birkenstrasse 49 CH-6343 Rotkreuz

Tel. 042-643858

FAX: 042-643432

(SGP) Singapore

ALLAN Automation and Pneumatics Block 5012 Ang Mo Kio Ave 5, 05-01 Techplace II Singapore 2056 Tel. 65-483-2959 FAX: 65-483-2979

(ZA) South Africa

HOERBIGER S.A. (pty) LTD. 9 Fuchs Street Alrode 1449 Tel. 27-11-864-1736 FAX: 27-11-864-4733



Avda P1 i Margall 27-31 08930 Sant Adria Del Besos Barcelona Tel. 34-3-381-2000 FAX: 34-3-381-58081

S Sweden

E-LINE ORIGA AB Kungsgatan 10 Box 67 S-73600 Kungsör Tel. 46-227-41100 FAX: 46-227-41129



ORIGA PNEUMATIK AG Libern 24 CH-8112 Otelfingen Tel. 41-1-845-1330 FAX: 41-1-845-1333

RC Taiwan

DA ING ENTERPRISE CO. LTD. No. 43, Lane 244 Tun Hwa N. Rd. RC- Taipei/Taiwan Republic of China Tel. 886-2-7131292 FAX: 886-2-7172640

Т Thailand

ALLAN Automation and Pneumatics Block 5012 Ang Mo Kio Ave 5, 05-01 Techplace II Singapore 2056 Tel. 65-483-2959 FAX: 65-483-2979

TR) Turkey

ORIGA GmbH Pneumatik Industriestrasse 8 Postfach 1248 D/W-7024 Filderstadt 1 Tel 49-7158/17030 FAX: 49-7158/64870

(USA) United States of America

HOERBIGER-ORIGA CORPORATION 100 West Lake Drive Glendale Heights, Illinois 60139 USA Tel. 630-871-8300 FAX: 630-871-1515

NOTE: All listings include country codes and city codes.

Information