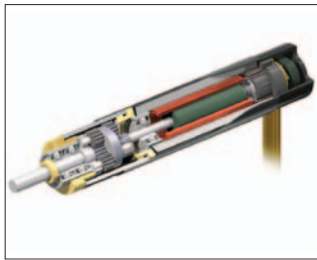


Micro-Drives

electronic rather than mechanical commutation

Compact, efficient and durable: these attributes are a well suited description of motors in the 'maxon micro drive' product range. They include brushless and brush DC motors with diameters of between 6 - 10 mm, the design of which brings substantial benefits to customers. DC motors with maxon's ironless winding are characterised by the absence of magnetic detent, rapid acceleration thanks to a low moment of inertia, low electromagnetic interference, low inductance and high efficiency. This group includes the RE 8 with an external diameter of 8mm and 0.5 watt assigned power rating and now its new little brother, the RE6 at 0.3 watt. Both have high-tech ceramic shafts which are superior to steel ones in many respects. At 0.8mm in diameter, their motor shafts are as thin as a pencil lead.



At 0.8mm in diameter, their motor shafts are as thin as a pencil lead.

MAXON MOTOR AG,

Tel. +41-41-6661500 • Fax +41-41-6661650

enter IEN06813 or Hot line at www.ien-online.com

Shaft Collars

handle bores up to 80mm

A complete line of Nomar shaft collars in aluminium, black oxide carbon steel and stainless steel are available in one- and two-piece clamp-style designs with bore sizes from 1/8" to 6" in the inch series and 3mm to 80mm in the metric series.



All Ruland shaft collars are single point faced to ensure perpendicularity and proper alignment. The manufacturer uses forged socket hardware in all its shaft collars, which allows for higher screw torque and increased holding power. The clamp-style shaft collars featured do not mar the shaft like traditional set-screw types. Clamp-style collars also have higher holding power because they wrap around the shaft when tightened thus applying compressive stress nearly uniformly on the circumference of the shaft. Two-piece clamp-style collars have an additional advantage since they can be installed on the shaft without removing other components.

RULAND MANUFACTURING CO INC.,

Tel. +1-508-485-1000 • Fax +1-508-485-9000

enter IEN06851 or Hot line at www.ien-online.com

Mobile Printer

with Bluetooth wireless technology



Nearly all modern handhelds, PDAs, and cell phones have Bluetooth interfaces. Therefore, printing with the portable Bluetooth printer GeBE FLASH means maximum freedom in all fields of application. Within a range of up to 10m, data can be received and printed fast and with energy-savings. The battery saving power management of the GeBE FLASH is perfectly tuned to the transfer mode and keeps the printer in a permanent state of readiness. In free space, the transfer range can reach up to 10m, while infrared is limited to about 1m. The Bluetooth data transfer rate is 721Kbps maximum. The GeBE FLASH prints with a speed of up to 50mm/s, even with full graphics. Equipped with intelligent power management, the GeBE FLASH remains ready to receive and operate at all times. During inactive periods, the printer frequently switches to the so-called sniff mode, in which the energy saving receiver can react to calls that are coming in.

The Bluetooth data transfer rate is 721Kbps maximum. The GeBE FLASH prints with a speed of up to 50mm/s, even with full graphics. Equipped with intelligent power management, the GeBE FLASH remains ready to receive and operate at all times. During inactive periods, the printer frequently switches to the so-called sniff mode, in which the energy saving receiver can react to calls that are coming in.

GEBE ELEKTRONIK GMBH,

Tel. +49-89-8941410 • Fax +49-89-8402168

enter IEN06869 or Hot line at www.ien-online.com

Seals for extreme service conditions

To suit your specific industry needs, Saint-Gobain Performance Plastics offers unique sealing solutions that maintain the highest standards of quality, manufacturing and product excellence.

- extreme-temperature service (from -270°C up to +300°C)
- vacuum up to +3.000 Mpa
- superior wear resistance
- virtually inert to chemical attack
- controlled friction applications
- handling surface speeds of +40 m/s
- high pressure and temperature combination
- sizes from 1 mm to 3 meter



OmniSeal®

High Performance Spring Energised Seals



OmniLip™

High Performance Lipseals

- Sizes to DIN3760 dimensions

Saint-Gobain Performance Plastics High Performance Seals Belgium + 32(3)458 28 28 Americas + 1(714)995 1818 Asia + 81(266)796400 infoproducts.kontich@saint-gobain.com www.omniseal.com BSTB-1003

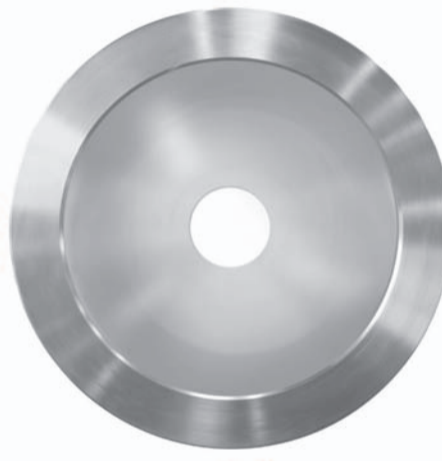


info IEN06774 or www.ien-online.com/IE06774

WORLDWIDE

ALL AROUND THE WORLD

we are at home! Worldwide we work with well known, leading cylinder manufacturers. We own and operate Europe's best organized warehouse, with cylinder tubes, piston tubes and piston rods and we can deliver specially manufactured items in no time at all! Nevermind in which direction – we deliver quickly and safely.



Schierle Stahlrohre KG
Phone + 49 (0) 2131 3665-0
Fax + 49 (0) 2131 3665-107
Branch Leipzig
Phone + 49 (0) 342 05 735-0
Fax + 49 (0) 342 05 735-20
www.schierle.de · info@schierle.de

info IEN04796 or www.ien-online.com/IE04796

Mobile Printer
with Bluetooth wireless technology

Nearly all modern handhelds, PDAs, and cell phones have Bluetooth interfaces. Therefore, printing with the portable Bluetooth printer GeBE FLASH means maximum freedom in all fields of application. Within a range of up to 10m, data can be received and printed fast and with energy-savings. The battery saving power management of the GeBE FLASH is perfectly tuned to the transfer mode and keeps the printer in a permanent state of readiness. In free space, the transfer range can reach up to 10m, while infrared is limited to about 1m. The Bluetooth data transfer rate is 721Kbps maximum. The GeBE FLASH prints with a speed of up to 50mm/s, even with full graphics. Equipped with intelligent power management, the GeBE FLASH remains ready to receive and operate at all times. During inactive periods, the printer frequently switches to the so-called sniff mode, in which the energy saving receiver can react to calls that are coming in.

GEBE ELEKTRONIK GMBH,
Tel. +49-89-8941410 • Fax +49-89-8402168
enter IEN06869 or Hot line at www.ien-online.com

SPS/IPC DRIVES / Electric Automation Systems and Components Exhibition & Conference Nürnberg 23 - 25 Nov. 2004

How about you?

Your free entry voucher: www.mesago.com/sps

Mesago Messemanagement GmbH, Postfach 10 32 61, 70028 Stuttgart, Germany, e-mail: sps@mesago.de, phone +49 711 61946-59

info IEN06779 or www.ien-online.com/IE06779