

## 压电电子选针器

### *Piezoelectric actuators*

by JOHNSON MATTHEY PIEZOPRODUCTS

鑫来尔公司很荣幸成为JOHNSON MATTHEY压电电子选针器的全球代理商之一，此产品广泛应用于电子选针领域。

SIGNAL is proud to distribute the Piezoelectric actuators manufactured by JOHNSON MATTHEY Piezoproducts, for electronic needle selection.

位于德国的压电产品部门，40年来，一直致力于根据全球客户的个性化需求及各种特殊应用，研发和生产压电陶瓷，压电元件和压电模块。

Since 40 years the Piezoproducts Division, located in Germany, is developing and producing piezoelectric ceramics, piezo components and piezo modules in accordance with the individual requirements and kinds of application specified by customers world-wide.

这些知名的产品，已经被使用多年并且有2条生产线：

These well-known products are already in use since many years and available in two product lines:

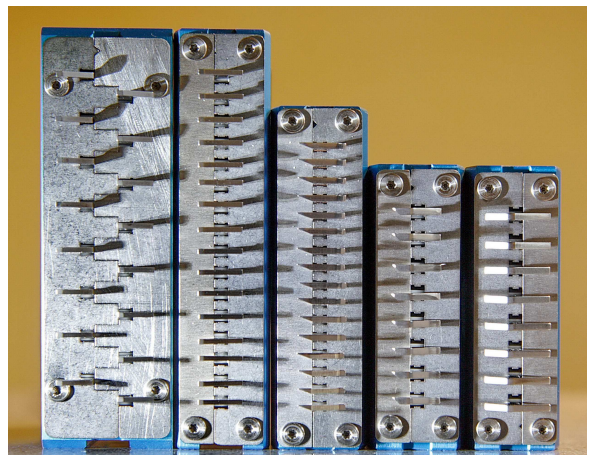
- 直接驱动型选针器，应用于袜机、无缝机。  
**direct drive actuators**, for Socks and Seamless machines application
- 智能型选针器，带有数据总线连接的电路板。  
**smart actuators**, with onboard electronic module for bus connection management.

智能型选针器有2个模块，符合最广泛的现场总线的标准：西门子类型及WAC数据总线兼容 (RECAM 类型)

The smart type actuators are available in two models, compliant with the most diffused fieldbus standard: SIEMENS® type, WAC® BUS COMPATIBLE (RECAM type)

这些选针器应用在众多的针织机器上，对于那些需要依靠电子选针系统进行高速运转的针织大圆机来说（大尺寸机器），更是不二选择。

Applied on many type of knitting machines, these actuators are the best choice for the electronic needle selection system on Circular knitting Machine with an high number of working feed (big diameter machines).



Front view of actuators

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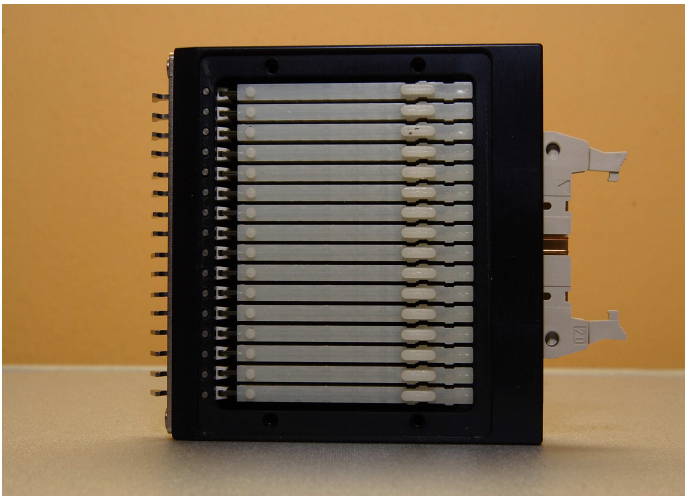
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## 产品特性 (Product features):

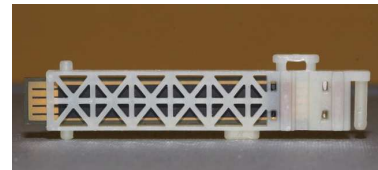
- 3线技术可以阻止去极化超时  
Proven 3-wires technology prevents depolarization over time
- 快速重复的反应时间；针脚运行时间为2.5毫秒，整个工作时间为4.4毫秒  
Fast and repeteable response time; flaps fly time is 2,5 ms, complete process is 4,4ms.
- 大部分的针脚配置文件可以在目录中找到;一些特殊的针脚配置文件可以根据客户的图纸，利用高硬度及高韧性的钢上进行设计加工。  
A wide range of flaps profiles is available on catalogue; specific flaps profiles can be machined on customer drawing, using high hardness steel and toughness
- 为所有的选针器配备可更换的零件(陶瓷片，针脚及电路板等)  
Field replaceable parts (ceramics, flaps, card if any) for all actuators model.
- 一排或两排的针脚都有3个工作位  
One line flaps or two line flaps 3-way knit technique selection.
- 针脚间距：长度为3.2，一般的标准有4mm和5mm(特殊的)  
Flaps pitch: fine 3.2, standard 4 mm and 5 mm (special)
- 所有的选针器都有金属外壳保护  
All metallic housing

所有的产品利用压电陶瓷技术，可以实现机器高速运转，能耗最小化及无发热现象。尺寸设计方面也是精巧节约。

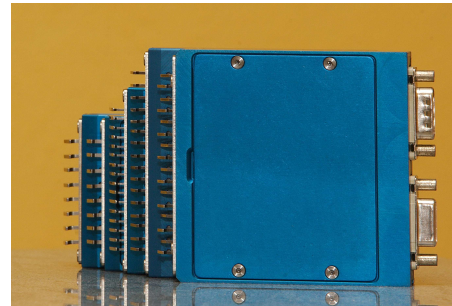
All products use piezo ceramic technology that allows high working speed with minimum consumption of energy and no heating. Also the sizes are decidedly low.



Side view of the stacked piezo-bender



The "core" of the actuator - the piezo ceramic (bender)



Front, side and rear view of actuators.

鑫来尔电子还为这种选针器配置一整套的电控箱，可适用于大圆机及袜机。同时可以为用户在相关的问题上(设计，设置，相位及维修)提供全方位的服务与支持。

**SIGNAL** deliveries also a complete line of Electronic Controller taylored for this actuators and suited for Circular knitting and Socks knitting machines and can support the customer in all related problems (designing, set-up, phasing, repairing).

**Signal s.r.l.** industrial electronics  
Via Galvani, 6/F  
25010 San Zeno Naviglio (BS)  
ITALY  
Tel +39 030.3512511  
Fax +39 030.3539296

**Signal Electronics (SuZhou) co.,ltd**  
Block 6 Unit1, Linhu Avenue 1508,  
Fenhu Economic Dev. Zone, Wujiang,  
Suzhou, Jiangsu Province,  
215211 CHINA  
Tel +86 0512 81559033  
Fax +86 0512 81559036

**鑫来尔电子（苏州）有限公司**  
苏州市吴江临沪大道北侧1508  
号腾飞临沪工业坊第6栋第一单元  
邮编 215211  
电话 +86 0512 81559033  
传真 +86 0512 81559036

Signal is ISO 9001:2008 certified

<http://www.signalchina.cn/> - [china@signal-elettronica.it](mailto:china@signal-elettronica.it)

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