

◆ **Epson Deutschland GmbH (2005-08-27)**■ **Precision and speed**

Meerbusch, July 2005. Epson will be presenting the new line-up of their 6-axis robot range at Motek 2005. Two new ProSix models have been especially designed for handling and assembly. Precision movement, without impairing the speed is therefore one of the excellent features of the new robots. The Epson PS3-L is available as a longer version of the well-known PS3 with a range of 949 mm and a payload of 3 or 5 kilos. Its huge operating radius enables particularly wide-ranging manipulations to be undertaken. It is also available as a clean room version under the PS3-LC name. The Epson PS5 has a range of 791 mm and a payload of 5 or 6 kilos. It is easy for the operator to interconnect the machines to existing projects as all three new machines can be fully integrated with existing Epson control systems.

The well-proven Epson RC520 controller is used as the control system. It can control a maximum of two 6-axis robots simultaneously. It is also possible to control a combination of one 6-axis robot and two Scara robots as well as linear axes. Epson Spel+ is used as the programming language. **All of the kinematic controls**, regardless if they are for the 6-axis robot, Scara or a linear module are implemented using this language.

Vision systems as well as **conveyor tracking systems** are available as options that will enable the conveyors to be run at an angle. Extension I/O cards, field bus cards (Profibus / Device-net) and an Epson VB-guide programming interface are available as additional options. These enable all systems to be optimised to meet existing requirements. In addition to this, all of the options can be seamlessly integrated into the programming interface. This makes it very easy to integrate the new machines in existing systems; the resulting incorporating and training times will be considerably reduced.

The so-called 'small' 6-axis robot market is experiencing a continuous growth phase. Particularly productive companies are responsible for stimulating these enquiries and the trend continues uninterrupted so that they can economically reduce their production facilities whilst continuing to increase market flexibility. Nowadays 'small' 6-axis robots are also used in applications that were mainly the reserve of special machines and/or kinematics beforehand. This has been triggered by the enormous further development of drive technology; which has enabled the power density of the motors used here to be considerably increased – and this means increased power at the same weight/volume or more precisely the same power at reduced weight/volume. Newly gained jobs for these machines are mainly in the assembly sector, but also in the handling of small to medium weights. It is precisely the flexibility of the 6-axis robots that the customers use to their advantage.



Epson ProSix PS3-L



Epson ProSix PS5

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■ **About Epson**

Innovative thinking in creative heads – this moulds the culture of the Seiko Epson Corporation. Digital image processing is always the central topic at Epson, when it comes to expanding our own product ranges. This keeps the 3I product strategy at the forefront: Imaging on Paper means transporting the images onto a medium via a printer or scanner; Imaging on Screen refers to projectors for use in the business and the home cinema sectors; Imaging on Glass is fully focused on Epson LC-display technology. Electronic components such as semi-conductors and various quartz products, precision equipment such as clocks and **industrial robots** are also part of Epson's range of products. Epson is known throughout the world for excellent quality, functionality, compactness and economical applications.

Epson is also involved with the environment: The products save power when they are working. The company always strives to protect natural resources during the development process. Epson underlines these ideas with the fact that all products have been produced without using CFC since 1992.

Epson Deutschland GmbH, which is based in Meerbusch, is one of the leading providers of products and solutions in the photo printing and digital imaging sectors. High quality photo printers and scanners are also part of Epson Deutschland's product range as are laser and matrix printers as well as all-in-one units, multi-media projectors and original consumables. The Retail Systems & Devices and Factory Automation divisions further expand the range of products with the addition of checkout printers and systems as well as **precision robots**. Epson Deutschland, which has about 300 employees, is responsible for the sales networks in Germany, the Benelux countries, Switzerland, Austria and distant parts of Eastern Europe.



More Information:
Epson Deutschland GmbH, Factory Automation,
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