

SCARAFLEX® safe motion – an innovation made in Austria

Introducing **SCARAFLEX®**, an innovative safety feature for industrial robots that will forever change the automated production area. After nearly 4 years of development, **Economa Engineering** from Vienna has successfully introduced the **SCARAFLEX®** to the market – an innovation made in Austria.

The problem to date: Handling processes in industrial automation (like pick & place, joining or assembly) need space for their movements in order to ensure a safe working environment – to date, this could only be achieved by fencing the corresponding area. And that's exactly where **SCARAFLEX®** comes in: makes a fenceless environment for industrial robots possible for the first time (particularly for the Scaras from EPSON).

SCARAFLEX® works because it guarantees safety – with three certified key functions:

First of all: Soft **sensor pads** envelop the Scara robot and continuously measure the inner air pressure. If the inner air pressure changes, for example, when touched by a person, **SCARAFLEX®** will stop the robot in an instant – before a collision can even occur.

Second of all: **SCARAFLEX® Speedguard** (a patented development of Economa) continuously measures the speed of the robot with its 3-axis sensor system. If a defined maximum speed is exceeded, the **SCARAFLEX® Speedguard** also triggers a stop.

Third of all: The **SCARAFLEX® safety flange** as a mechanical interface between the robot and the gripper and/or vacuum cup. It also triggers the immediate stop of the robot in the event of a collision.

SCARAFLEX® can be installed in just 30 minutes and can also be retrofitted in existing robots. The application can be quickly and easily deinstalled if it is no longer needed. **SCARAFLEX®** enables and extends the possibilities of using the Scara robots in an entirely unique manner. You can find more information about **SCARAFLEX®** on www.scaraflex.com.

Economa Engineering is an automation specialist in southern Vienna specialising in the development of high-tech solutions. The family-owned and family-operated company currently employs a workforce of 25 at its location in Vienna.

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