

Economa Engineering from Austria introduces **SCARAFLEX®** *safe motion* to the market

Introducing a product that combines many of the things manufacturers often wish they had for their industrial applications: More safety. More flexibility. And that ideally in combination with an **EPSON robot**.

Equipped with decades of experiences in the field of robot applications and a close partnership with EPSON, **Economa Engineering** from Vienna has, after nearly four years of development, successfully introduced the innovative safety feature **SCARAFLEX®** to the market, which will forever change the production area – 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: It 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 by means of a measuring chamber. 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 in the application, the **SCARAFLEX® Speedguard** also triggers a stop.

Third of all: The **SCARAFLEX® safety flange** acts 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® enables and extends the possibilities of using the Scara robots in an entirely unique manner.

SCARAFLEX® can be installed in just 30 minutes and can also be retrofitted in existing robots (also in combination with proven EPSON features such as image processing, etc.). The application can be quickly and easily deinstalled if it is no longer needed.

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.

(as of May 2022)