

SUR5 | SUR15 | SUR35 ROBOTS

Looking forward to stimulate growth in your business?
Discover your opportunities with us!

A designed series of SUR, 6-axis robots, equipped with vision system for features' recognition and products' identification in production processes.

THE NUMBER OF APPLICATIONS IS LIMITED
ONLY BY THE NEEDS OF THE USERS!

APPLICATIONS:

User -friendly and intuitive software of manipulators enables smooth integration in accordance with current production needs.

Depending on the applied gripper, SUR robots can be successfully used in food, chemical or electromechanical sector for versatile applications, for example:

- pick and place operations,
- packing and palletizing,
- cutting,
- drilling,
- assembling (gluing, soldering, welding),
- polishing and painting.

ADVANTAGES:

- high speed and precision
- significant cost reduction of production
- elimination of heavy, yet precise work, which so far had to be performed by humans
- easy, user-friendly and intuitive graphical interface
- short preparation time and technological line adaptation for work due to innovative programming of proprietary Sorter's vision system ViSort
- customized servo drivers solutions
- each SUR robot has different kinematic structure optimized by its designation



SUR5 Robot

The lifting capacity of 5 kg in the entire operating range within the radius of 1000 mm.

The robot can operate either fixed to the floor, the wall or the ceiling.

- high speed and precision in positioning and repeatability of maneuvers
- modular construction for fast adaptation to customers' expectations



SUR15 Robot

The lifting capacity of 15 kg in the entire operating range within the radius equalling 1250 mm, for pick and place of larger items.

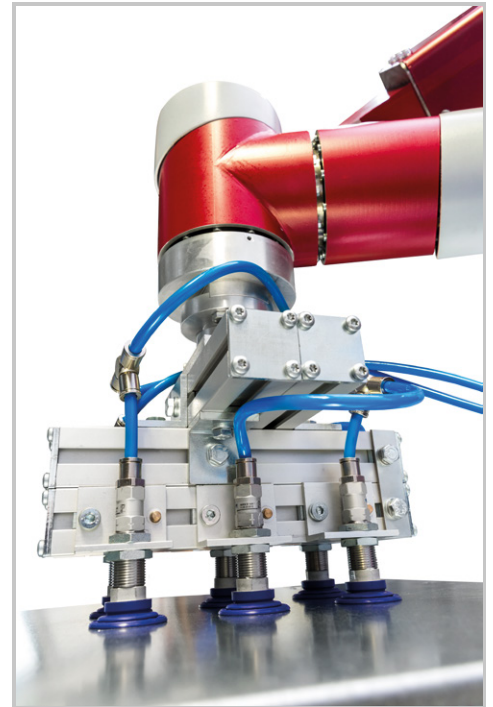
- the speed in the range of ½ rotations per second in the particular joints
- rotary absolute, magnetic or optical, encoders in servo drivers
- highly precise SPINEA cycloidal gear units

SUR 35 Robot

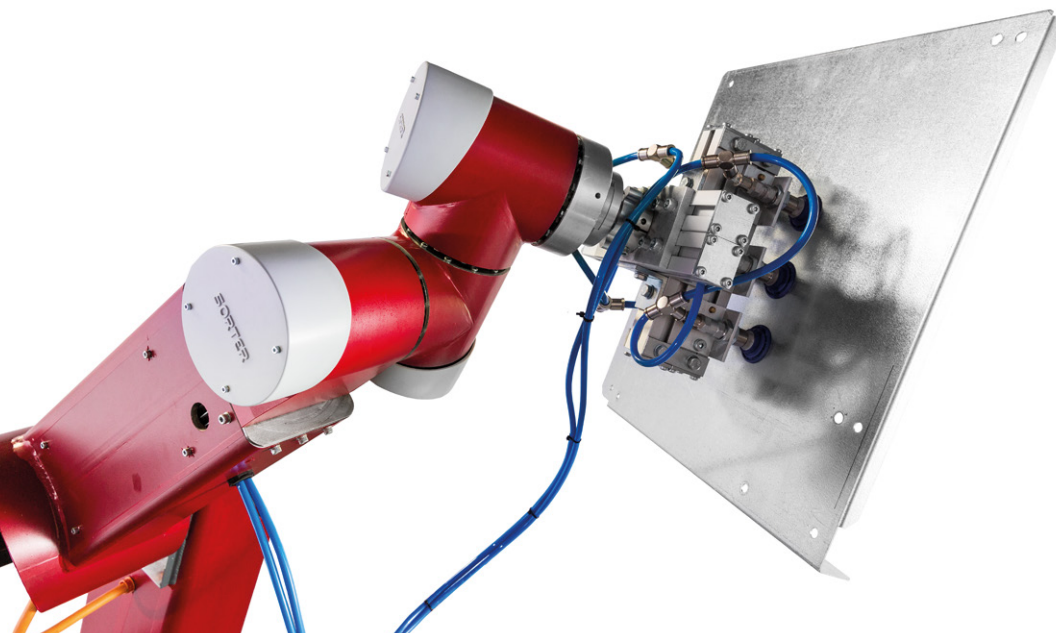
The largest of the robots, SUR35 has a high lifting capacity equalling 35 kg and operating range within the radius up to 1750 mm.

It can pick and place collective packages and operate using large equipment.

- a dedicated movable basis for linear (up to 2 meters) robot's movement
- various grippers for palletizing
- absolute encoders of high resolution
- cycloidal gears characterized by minimum angle backlash



The production of a series of 6-axis industrial robots confirms the declaration made in 2012 during the Ernst & Young Entrepreneur of the Year competition. When the owners of the company SORTER Grzeszczyk K. and Ziomek M. received the award in the category of new business for the implementation of innovative solutions for traditional branches of Polish industry and the passion and extraordinary effectiveness in the pursuit of goals, they promised the creation of robotic manipulators.



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