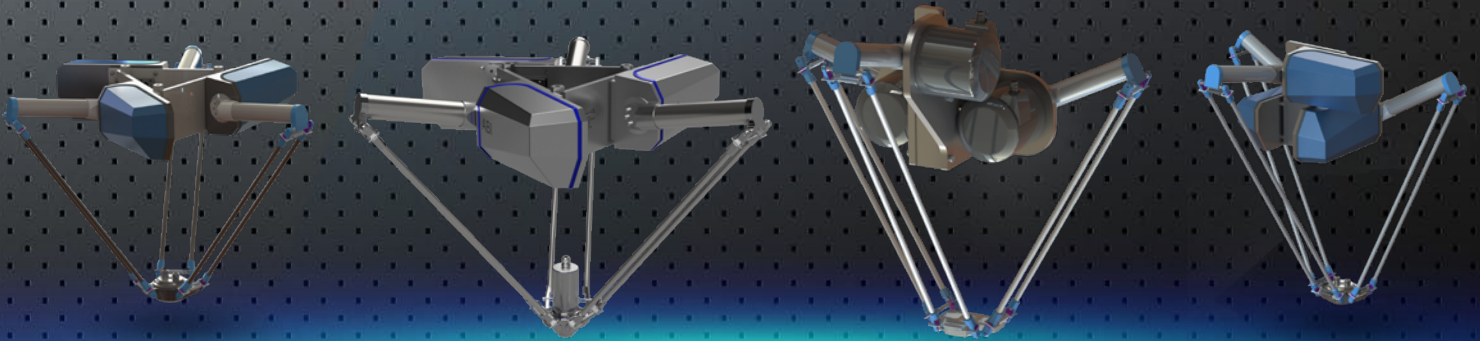


ABI

Managing Motion

ABIFLEXX ROBOTIC SYSTEMS

ENDLESS POSSIBILITIES



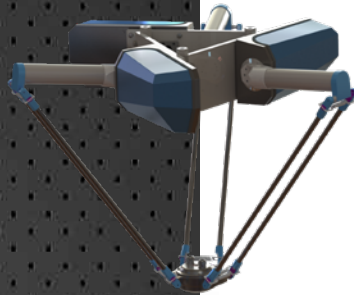
www.abi.nl

Made in Holland

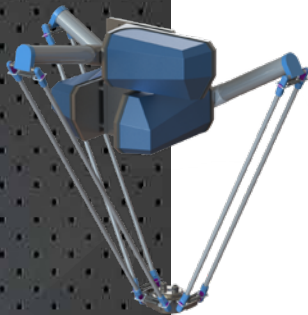
ABIFLEXX
ROBOTIC SYSTEMS

ROBOTIC SYSTEMS

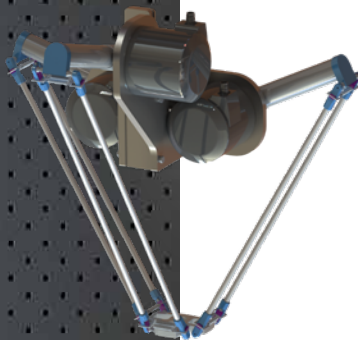
Delta Robot



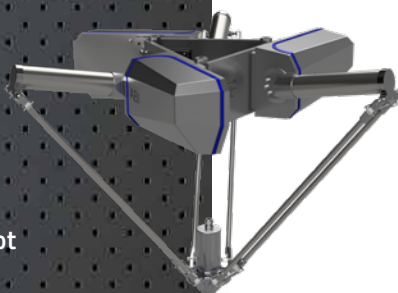
Wide Delta Robot
(patented)



Direct Drive
Wide Delta Robot



Full hygienic stainless
steel & titanium
Delta or Wide Delta Robot



ABiflexx Robotic Systems offer the following advantages

- Available as separate components or as a complete system, ready to use with KEBA Robot Controller (optional)
- Designed to meet FDA and EHEDG specifications for Hygienic Design
- Free choice of dimensions offers you a flexible working range and optimal footprint
- Customization possible for grippers and colours
- No homing necessary with absolute encoders
- Low TCO through:
 - High quality planetary gearboxes guarantee precise position repeatability during the entire lifespan
 - Easily changeable wear parts ensure minimal downtime
 - Lifetime lubrication

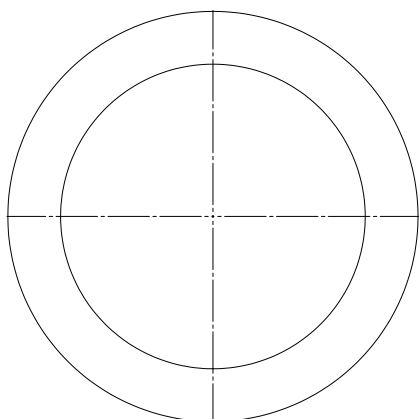
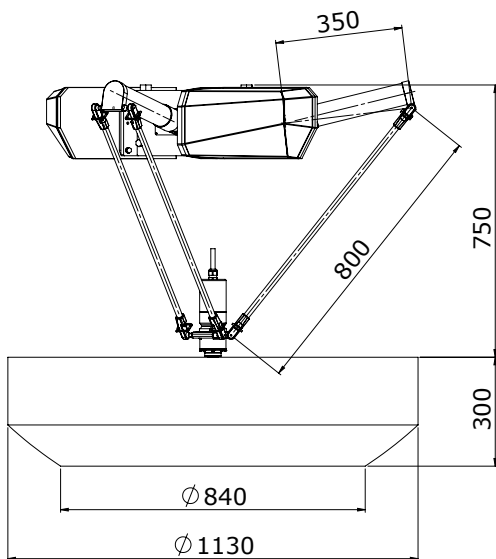
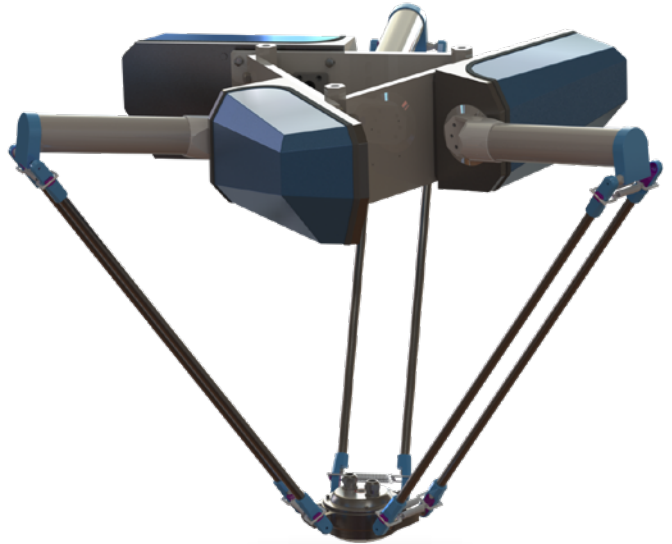
System components

- Titanium cranks and sticks
- Stainless steel mounting base
- Other parts: FDA-approved PTFE impregnated anodized aluminium
- Protection: IP65/IP67
- Optimal wash-down design

advanced systems, efficient solutions

Parallel Kinematic Delta Robot

- Number of parallel axes 3 (drive units)
- Additional axes (directly on gripper plate) 2 (rotation and/or swivel)
- Working range diameter 800 – 1600 mm
- Working range height 200 – 500 mm
- Max. picks/min 230
- Max. handling capacity 12 kg
- Weight 61- 85 kg
- Environment 0°C to +45°C
- Height adjustable frame



Performance

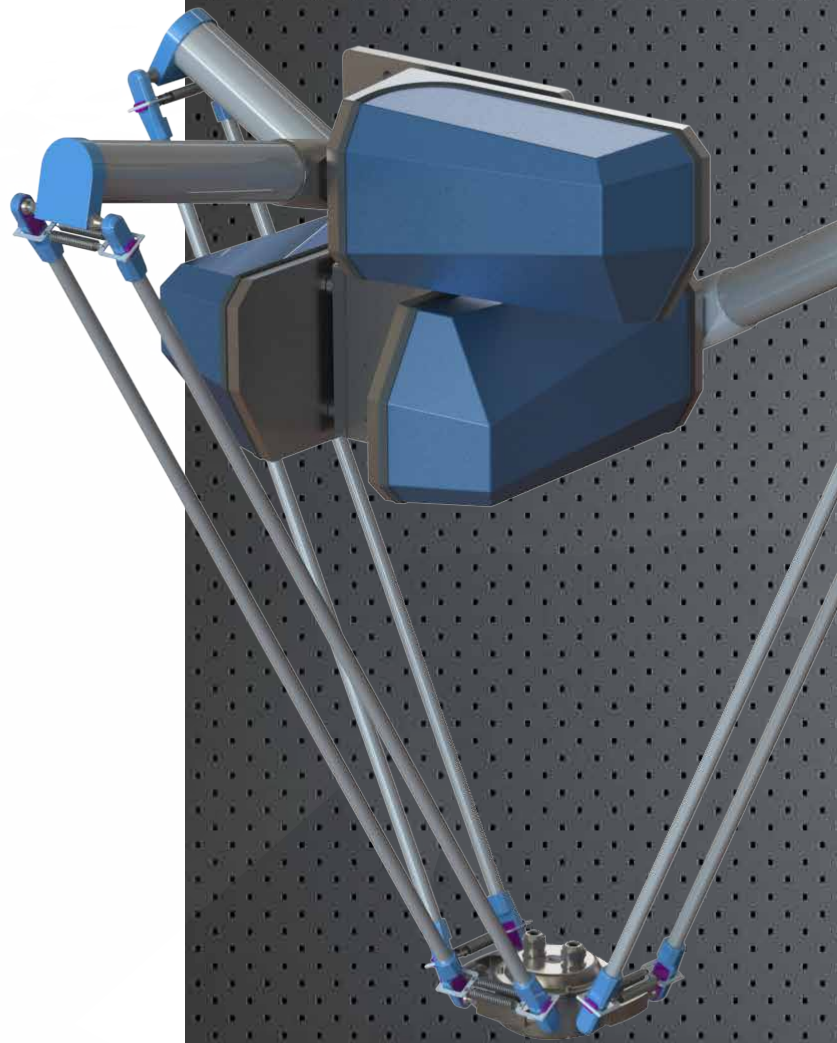
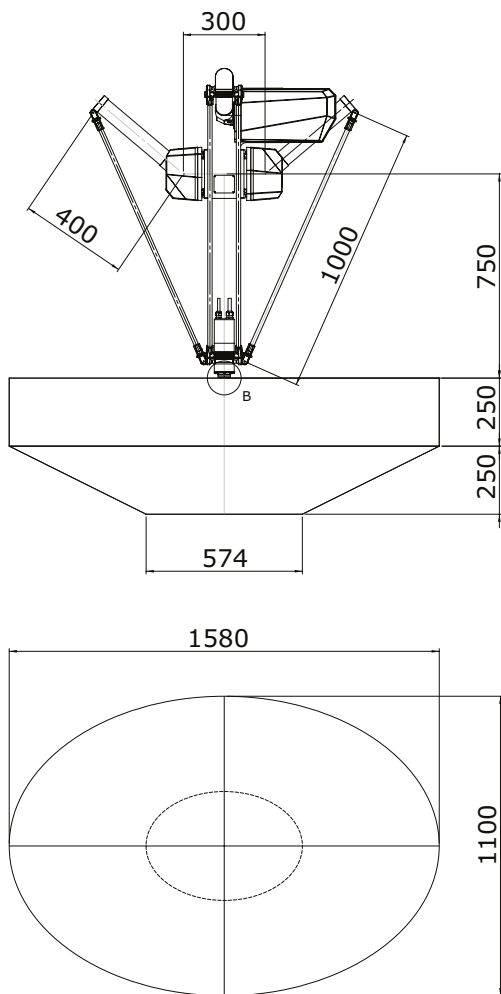
- Position repeatability $\pm 0,2$ mm
- Angular repeatability $0,1^\circ$

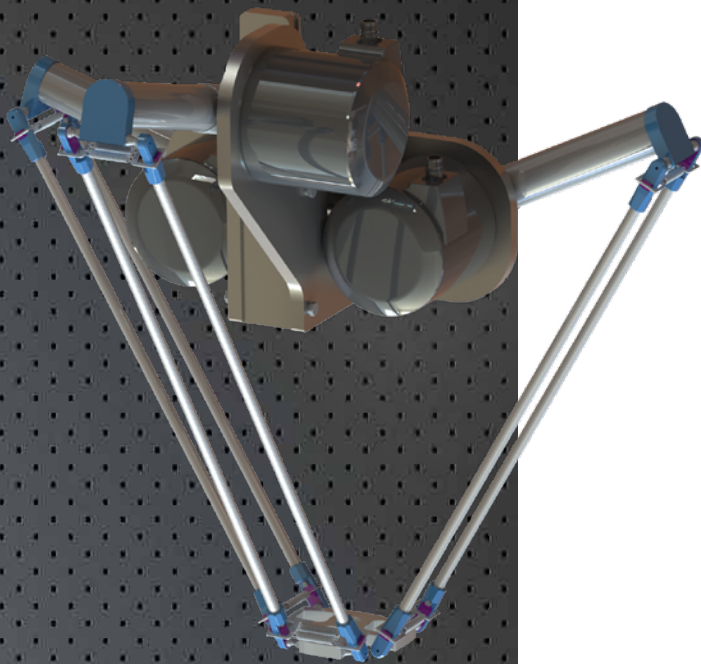
Cycle time 25-305-25 mm

- Payload 0,8 kg 0,27 S
- Payload 3,5 kg 0,50 S

Parallel Kinematic Wide Delta Robot Patented

- Extra wide work area
- 50% reduced footprint
- 2 robots in same space as 1
- Hygienic design
- Flexible working range
- Patented



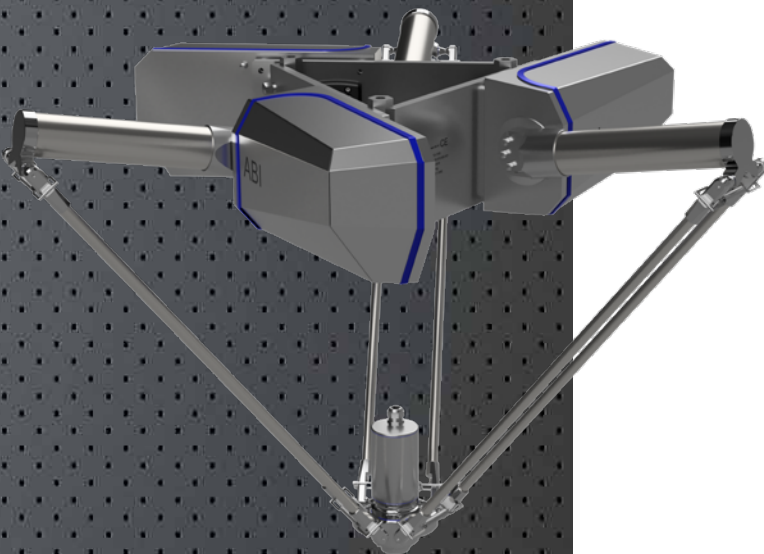


ABIFlexx Delta Robot with Direct Drive offers the following advantages

- Available in Wide Delta and regular Delta configurations
- No homing necessary with absolute encoders
- Very accurate – Zero backlash
- Extremely fast – No limitations in speed and accelerations by gearboxes
- Maintenance free – No mechanical wear – No lubrication
- Low operating noise
- Energy efficient
- Protection IP67

Full hygienic stainless steel & titanium Delta or wide Delta Robot offers the following advantages

- Designed to meet FDA and EHEDG specifications for Hygienic Design
- Stainless steel mounting base
- Optimal wash-down design
- Protection IP67



ABIflexx Robotic Systems

Features

- Modular delta robot implementations
- Open food and high-care environments
- Design according to FDA and EHEDG guidelines
- High speeds, very short cycle times

ABIflexx Robotic Systems

Optional features:

- 4th and 5th axis
- Full hygienic stainless steel & titanium design
- Direct drive
- KEBA robot control system
- Highly customizable



More information?

Our specialists will be happy to help you.
Visit abi.nl/en for more contact information.