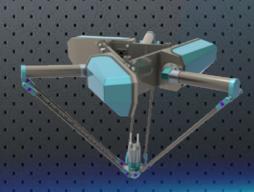
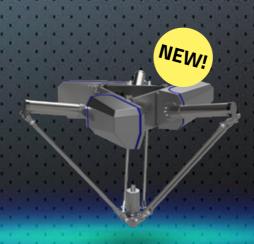


ABIFLEXX ROBOTIC SYSTEMS

ENDLESS POSSIBILITIES









Delta Robot

Full hygienic stainless steel & titanium Delta or Wide Delta Robot

Wide Delta Robot (patent pending)



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 multi-turn 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

Additional axes (rotation)

Working range diameter

Working range height

Max. picks/min

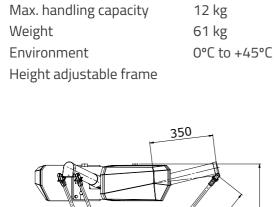
3 (drive units)

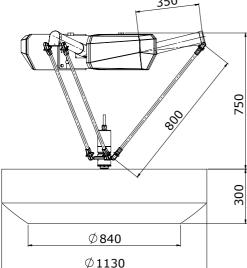
1 (directly on gripper plate)

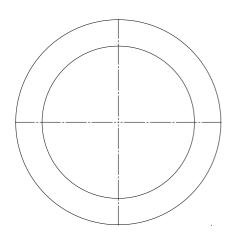
750 - 1600 mm

200 - 500 mm

230







Performance

Position repeatability ± 0,2 mm Angular repeatability 0,1°

Cycle time 25-305-25 mm

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

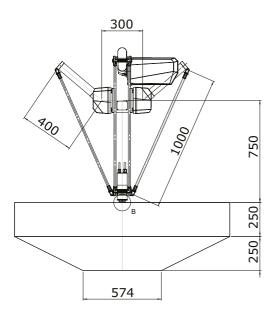
Parallel Kinematic Wide Delta Robot Patent pending

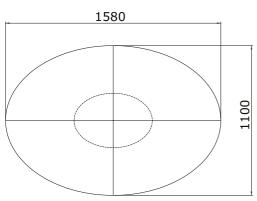
- Extra wide work area
- 50% reduced footprint
- 2 robots in same space as 1
- Hygienic design
- Flexible working range
- Patent pending

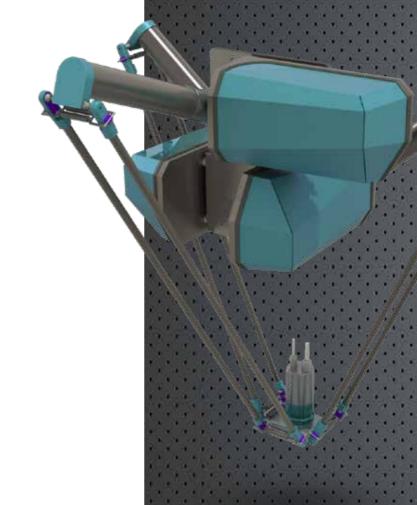


ABIflexx Robotic SystemsFeatures

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





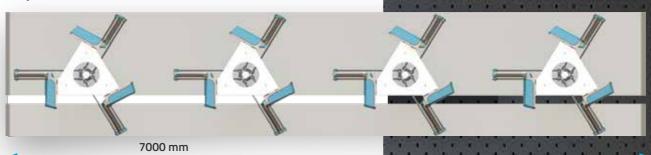




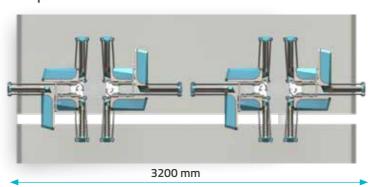
Managing Motion

50% REDUCED FOOTPRINT!

Top view of 4 ABIflexx Delta D4-1600



Top view of 4 ABIflexx Wide Delta WD4-1580





KEBA ROBOT CONTROL SYSTEM

KeMotion Packaging

The KeMotion application software provides efficient solutions for robots in packaging systems. Pick & Place permits the simple configuration and programming of the entire machine and robot application. Palletizing is focused on typical applications with fixed and/or flexible pallet patterns.

Robot controls

- KAIRO robot programming language
- Online teach-in with KeMotion TeachView and offline programming using KeStudio KAIROEdit
- Predictive collision recognition
- Multiple robot tools with online modification
- Over 20 pre-defined robotic kinematics

PLC / robot interface

- Operational type management
- Robot program management
- Exchange of vision and palletizing data, diagnoses, system reports, etc.
- Robot application development with real-time simulation

SPS Motion

- IEC 61131-3 programming and language environment based on CoDeSys 3.x
- Comprehensive motion function blocks library
- Freely programmable machine sequence
- Complete control of the robot peripherals (conveyors, etc.) up to the entire system

Visualization

 Adjustable HMI for mobile and stationary panels with KeStudio ViewEdit

Pick & place specifications

- Free spatial arrangement of the conveyor belts
- Dynamic monitoring of the working and exclusion areas
- Guided robot, conveyor belt and vision system installation
- Statistical overview of the products on the conveyor belt
- Easy integration of application specific vision systems







ABI b.v.

Motion & Robotics
A. Hofmanweg 60
2031 BL Haarlem
The Netherlands

Tel. +31 23 531 92 92 Fax +31 23 532 65 99 info@abi.nl www.abi.nl

