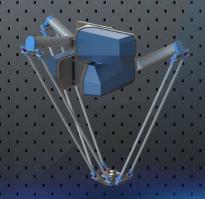
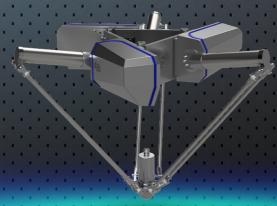


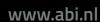
ABIFLEXX ROBOTIC SYSTEMS

ENDLESS POSSIBILITIES













ROBOTIC SYSTEMS

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

Additional axes (rotation)

Working range diameter

Working range height

Max. picks/min

Max. handling capacity

Weight

Environment

Height adjustable frame

3 (drive units)

1 (directly on

gripper plate)

750 - 1600 mm

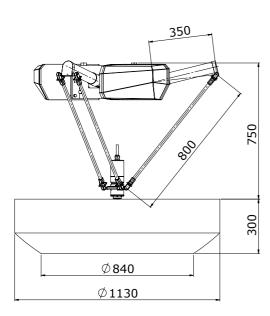
200 – 500 mm

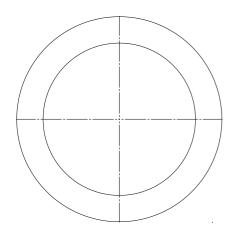
230

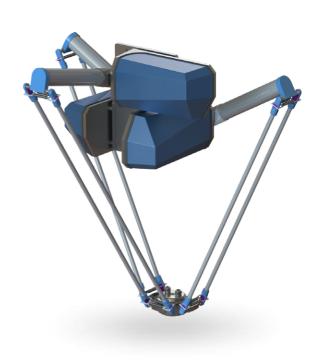
12 kg

61 kg

0°C to +45°C







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**Patented

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

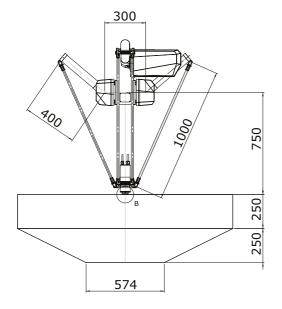
ABIflexx Robotic Systems

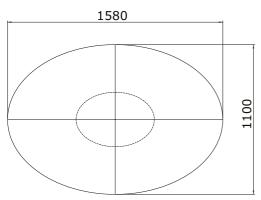
Features

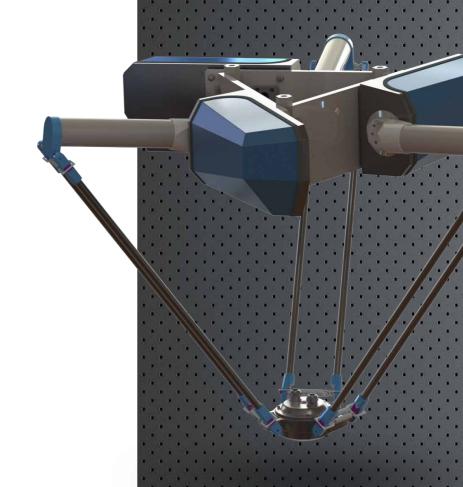
- Modular delta robot implementations
- Open food and high-care environments
- Design according to FDA and EHEDG guidelines
- High speeds, very short cycle times

ABIflexx Robotic SystemsOptional features:

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





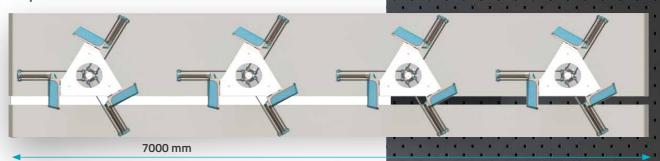




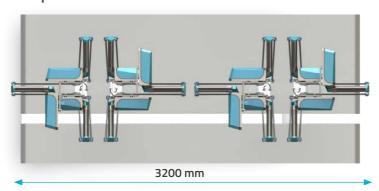
Managing Motion

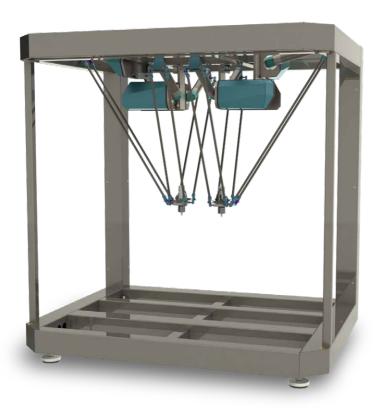
50% REDUCED FOOTPRINT!

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







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