

OmniVance™ Machining Cell

Enjoy faster, easier and more flexible machining cell performance



The new OmniVance machining cell takes the time and complexity out of machining cell set up and operation. Available almost completely pre-integrated, the OmniVance Machining cell cuts the time and effort needed to introduce new products. With a standardized design that can handle multiple machining functions, the cell offers the highest levels of flexibility, enabling you to adapt your production quickly and cost-effectively to meet changing market needs. With greatly reduced water and electricity usage, it can also help to make your manufacturing processes more sustainable.

A new solution to meeting changing production demands

Growing consumer expectations are leading to a rising demand for an expanded range of products which need to be manufactured at a faster rate.

Installing and setting up conventional machining tools has been a time-consuming and difficult process, requiring precise calibration and correct programming to run efficiently. Switching between different products or processes has also been difficult, with operators having to recalibrate and reprogram every time a new workpiece or application is introduced.

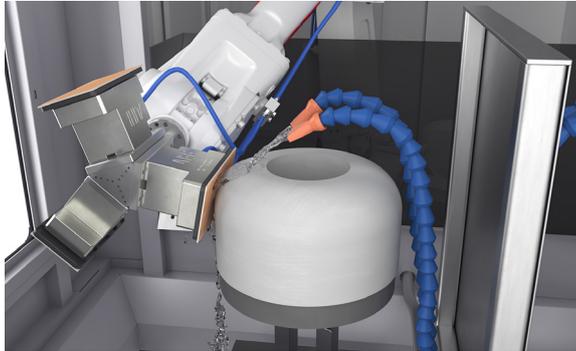
The OmniVance Machining cell solves these challenges. With 90% of the integration already done, set-up can be achieved significantly faster, while the cell-based design minimizes the potential for error. The cell can also help to maximize valuable production space – as well as a compact footprint, the OmniVance Machining Cell can handle up to eight different types of machining applications in a single unit, including sanding, deburring, grinding, dry ice cleaning, milling, gluing, 3D printing and inspection.

Key benefits:

- **Simple set-up** – pre-integrated cell design takes the time and difficulty out of set-up
- **Flexibility** – standardized multi-function design can handle up to 8 different applications and can be easily scaled up to meet changing requirements
- **Compact footprint** – reduced size enables you to make maximum use of your available production space
- **Easy calibration and path tuning** – reduce calibration and path tuning from hours to just minutes using the OmniVance Machining software
- **Improved sustainability** – reduced water and energy consumption improves environmental performance and reduces operational costs

Included in the cell

- IRB 2600
- IRC5 controller
- Machining tools (option)
- Turntable (option)
- Station



Dimensions

Critical Parameters

Critical Parameter Item	Data
Model	MC2600DA/MC2600WA
Cell dimension	1550mm×2900mm×2100mm (width × depth × height)
Typical place dimension	1550mm×2900mm (width × depth)
Max weight	2300Kg (with robot and controller)
Max environment temperature	45 °C

Preconditions

Critical Parameter Item	Data
Power	Three phase five wire 400V +10%/-15% 50Hz 3Kw
Compressed Air	0.6MPa, 50 um air supply without water, 800L/min each working cell promised
Ambient Temperature	5~45°C
Ambient Humidity	~95% (No dewing)
Certificates	Prep. For CE .
Subgrade Bearing Capacity	> 3000Kgf/m ² Floor
Machining tool interface	Safety interface, Digit 24V I/O

Preconditions

Turntable critical parameter item	Data
Model	MTD060 Type A
Rated output	400W
Max payload	40Kg
Max output torque	88NM
Gear ratio	81:1
Max output speed	20 rpm
Max environment temperature	45°C

