

PRODUCT SHEET

BF-X 500

Discover the **components, functions** and **benefits** for your surface finishing production

BRAINWAVE

System operator software
See page 2

COMPLIANCE

Allows to work with a constant force:
▶ Consistent process

SYSTEM DIMENSIONS

For parts up to 500 mm (maximum)

Compact cell - 3.6 x 4.2 x 3.2 m

DRESSING TOOLS

Allows to dress the abrasives:

- ▶ Consistent process
- ▶ Acces to restricted and complex areas

LEAN DESIGN

Closed and modular cell

Allows to simplify use and to limit system maintenance:

- ▶ Cost savings due to less down time and maintenance

Allows to control the environment:

- ▶ Secured operation
- ▶ Easy management of dust

Allows to dissaemle the cell:

- ▶ Easy shipping and transportation

BELT SANDER SYSTEM

Multi-arm, cooling system, force sensor
©FerRobotics

Allows to polish complex parts:

- ▶ Better access to the parts thanks to swivelling function
- ▶ Space and abrasives range optimisation (multi-arm)

Allows abrasives management:

- ▶ Temperature control to avoid part overheating
- ▶ Automated dust dispersion

Allows to control force applied:

- ▶ Higher resolution

REMOTE CONNECTIVITY

Camera, 4G router, touchpad*

Allows our experts to connect remotely to your system:

- ▶ Easy technical support
- ▶ Shorter response time

*You control the equipment connectivity to ensure data protection

ROBOT 25 KG CAPACITY

Allows to handle parts from one station to another:

- ▶ Automated process
- ▶ Repeatability
- ▶ High sensitivity force sensor

MOTORS

Spindle and 2 motors

Allows to compensate abrasives erosion:

- ▶ Consistent process

Allow to automatically change tools (spindle):

- ▶ Flexibility in abrasives choice

Specific and optimized location in the system (spindle):

- ▶ Handling of complex geometric parts

DUST COLLECTION SYSTEM

Flow monitoring - standard NFPA 484

Allows to control dust concentration in the system:

- ▶ Decrease of fire hazards of certain materials (titanium, aluminium)
- ▶ Decrease of maintenance time



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BRAINWAVE

Discover the **functions**
and **benefits** of our software ▶

ROBOT SIM

Allows to visualise paths:

- ▶ Paths optimisation before production
- ▶ Collision avoidance
- ▶ No need to learn other path planning software (e.g. Handling Pro)

OFFLINE PROGRAMMING

Allows programming outside the production environment:

- ▶ Production downtime elimination
- ▶ Test of multiple scenarios before production setting

CONNECTIVITY TO YOUR INTERNAL NETWORK

Allows to centrally manage process recipes:

- ▶ Standardisation of recipes between the robotic systems
- ▶ Tracking of process versions

CAD CAM

Allows to import 3D drawings:

- ▶ Import CAD from other software

Allows to import paths programmed in other software (ATP or NCIC CAM paths):

- ▶ No additional training needed on another software

Allows to create paths directly in BrainWave:

- ▶ No training needed on other software

REPORTS

Allows to monitor production data:

- ▶ Easier identification of potential failures
- ▶ Tracability of parts produced

Allows to collect data:

- ▶ Data security
- ▶ Easier decision-making

PROCESS-SPECIFIC TOOLS

Allows to program complex process recipes:

- ▶ Precise control of process parameters

Allows to adjust ongoing process parameters:

- ▶ Simplified for user

USER INTERFACE

Allows to operate the robotic system:

- ▶ Access to main functionalities in one place without teach pendant
- ▶ Easier learning without programming knowledge

Allows to program and adjust process recipe:

- ▶ Easy to use and to learn
- ▶ Autonomy of use
- ▶ Offline work
- ▶ No need to use CAD software or teach pendant
- ▶ Mask path points to dynamically ignore some features
- ▶ Human errors reduction in process recipe management

Allows to visualise the different parameters:

- ▶ Easy and quick parameters adjustment
- ▶ Data comparison

Allows to manage several users:

- ▶ Protect access to sensitive information (depending on level of training)

Allows to manage and calibrate tools:

- ▶ Tool change anticipation
- ▶ Support operators when changing tools
- ▶ Easy calibration
- ▶ Protection with forced calibration

Allows to manage alarms:

- ▶ Centralized information of robot and systems alarms

Allows to manage system maintenance:

- ▶ Preventive maintenance to limit production stops

Allows to add and modify operations order and software tools:

- ▶ Versatility

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