

PRODUCT SHEET

BF-X 800

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

BRAINWAVE

System operator software
See page 2

SYSTEM DIMENSIONS

For parts up to 800 mm (maximum)

Compact cell - 5.7 x 3.5 x 3.5m

DRESSING TOOLS

Allows to dress the abrasives:

- Consistent process
- Acces to restricted and complex areas

ROBOT 70 KG CAPACITY

Allows to handle parts from one station to another:

- Automated process
- Repeatability

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 dissaemble the cell:

- Easy shipping and transportation

COMPLIANCE TOOL

Allows to work with a constant force:

- Consistent process

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*

LOADING CARTS

Allows to work in batches:

- Better autonomy thanks to simultaneous parts loading

Allows to work in hidden time:

- Time saver

MOTORS

Spindle and 3 motors

Allows to compensate abrasives erosion:

- Consistent process

Allows to automatically change tools (spindle):

- Flexibility in abrasives choice

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

MEASURING EQUIPMENT

Profilometer, optical micrometer

Allows to measure parts, before and after:

- Tracking system performance
- Identification of rejects
- Part sampling measurement
- Parts sorting to avoid work on non-compliant input
- Faster, repeatable, and more accurate than the manual process

Allows to measure without contact:

- Fast measurement

Allows to obtain feedback:

- Automatically adjustable process

Allows dimensional measuring:

- Faster and more accurate than manual measuring

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PRODUCT SHEET 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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