

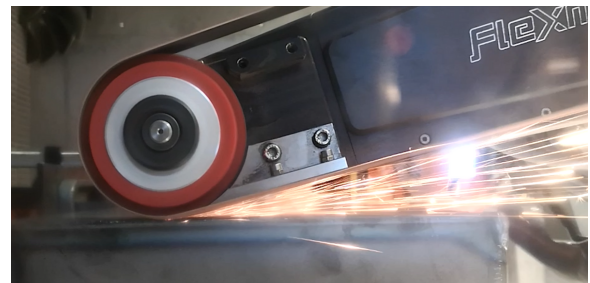
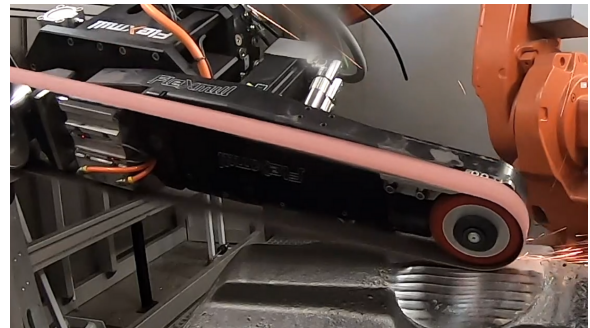


## Flexmill FlexGrinder BT-1750

HIGH PERFORMANCE ELECTRIC BELT TOOL

Flexmill FlexGrinder BT-1750 is designed and manufactured for the most demanding applications and environments. The built-in force compliance system and a patented automatic belt exchange function make the BT-1750 an unbeatable tool for long unmanned grinding operations.

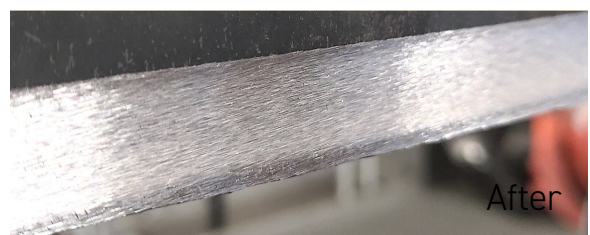
A compact and robust chassis with easy to access belt change. The modular design allows selection of contact wheel types to each application for optimum reachability and belt size. The AC servo motor with closed loop speed control provides reliable and constant grinding belt speed over a large torque area. Recommended for robots with handling capacities >50 kg and IP67, if wet processes are used.



### Benefits

- High reliability and process quality
- Accurate belt speed control
- PLC controlled grinding force
- Belt brake monitoring
- Built-in compliance system
- Automatic belt exchange feature available
- Cutting fluid nozzles included
- Changeable contact wheel types
- Guidance wheel for surface follow up

Before



After





## Plug and Process by Flexmill

REVOLUTIONARY PROCESS PACKAGES FOR ROBOTIZED MATERIAL REMOVAL

Easy and fast to setup. Long unmanned production times. Total process control.

- ✔ Easy and modern digital robot interface with fieldbus. Just plug and process.
- ✔ Tool control can be equipped with multiple tool kits and accessories as required by application
- ✔ Patented automatic belt exchange enables long unmanned operation times



**PlugNProcess**  
by **Flexmill**

### Technical data BT-1750

- Motor: 2 kW /6000 rpm
- Torque 1,3 Nm
- Belt length: 1750 mm
- Belt width: 30 mm
- Max. belt speed 28,3 m/s
- Tool weight: 26 kg (without tool changer)
- Force compliance max. 205 N
- Tool compliance area from center line +/- 8 mm
- Power: 3x400V VAC 32 A
- 15 or 90 degree adapter to robot arm
- Tool size 900 x 450 x 350 mm

### Plug and Process - package

- FlexGrinder BT-1750
- Tool changer with: tool side flange and robot side flange equipped with energy and signal modules
- Robot 6th axis specific adapter flange
- Flexmill Tool Control Cabinet
- Communication interface as required (Ethernet, ProfiNet, DeviceNet, Profibus etc.)
- Cable assembly
- Belt exchange BE-1750 unit(s), patented
- Storage rack elements for tool change unit

