

Robotic Abrasive Belt Polishing and Buffing

Pinnacle Technologies is the world leader in robotic deburring, abrasive belt polishing and buffing systems for orthopaedic components. We provide powerful solutions through unparalleled service, support and training. When you work with us, you will tap into decades of innovations and advancements.

System Design and Advantages

- Heavy duty double walled platform precision welded structure
- Laser Cut Reference Housings
- No Floor Bolting Required with our leveling system
- Integrated safety cabin and dust collection
- Assembled size 2430mm x 3353mm (fits 20ft Container)
- Easy factory relocation without reprogramming
- Extremely accurate references
- Electrical wiring inside double walled platform
- Easy cleaning and wire free footprint
- Easy to retrofit for future developments
- Single and double stacked belt units
- Free belt and deburring attachment options
- Large diameter shaft and bearings (for continuous duty cycles and very low maintenance cost)
- Dust extraction hoods with 2 or 3 outlets

ABRASIVE BELT UNIT FEATURES

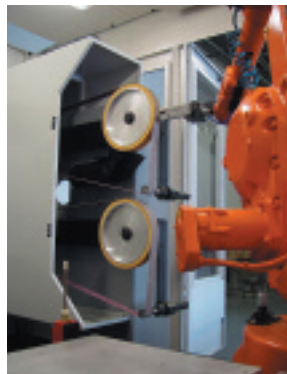
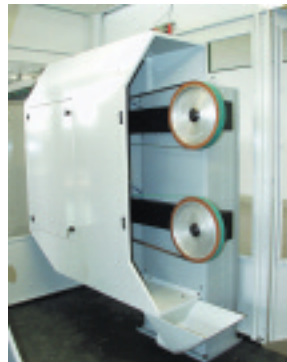
- The contact wheel is direct driven (facilitates use of non-woven abrasive wheels, buffing wheels etc.)
- One inverter per electric drive motor
- Contact wheel protection system
- Easy adjustment system for different belt lengths from 3200 mm up to maximum 4000 mm.
- Maximum contact wheel face width of 120 mm.
- Precision belt tracking and tensioning
- Fully programmable pressure control system with belt cooling and lubricating system which increases belt life up to 300%

BUFFING UNIT

- Direct driven spindle with large diameter shaft
- Large diameter buffing wheels, up to 1000 mm and 8-10 weeks buff life
- Low heat generation
- Closed loop feed back system for buff wear compensation using brushless motors and high precision ball screw components.
- System automatically maintains constant SFM and a constant programmed pressure while following the part contour

SOFTWARE, HARDWARE and SERVICE

- System software access supplied
- Remote troubleshooting via Internet
- Ability to download software files, part programs and parameters from service website
- Rapid response to service calls
- Spare parts list for all commercial and Pinnacle components
- Pinnacle components dispatched within 24 hours
- Instruction and maintenance manuals provided (also available online)
- Robotic Offline Programming System
- Unique calibration software - robot programs can be transferred from one robotic cell to another without requiring touch up
- Laser gauging system for part recognition and measurement
- Universal tooling design with heavy duty construction specifically for abrasive polishing and buffing applications



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Facility
 40,000 sq.ft. manufacturing facility



Founded
 1989

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