



508 Creske Avenue  
Rothschild, WI 54474  
P: 715-355-0534  
F: 715-355-0775  
[Sales@millspec.com](mailto:Sales@millspec.com)

July 29, 2021

**We propose to ship the following:**

**Quote #200223**

**LOEWER DiscMaster 3DBBP**

The LOEWER DiscMaster 3DBBP offers an amazing combination of sanding technology to provide the most flexible brush sanding system on the market. The 3DBBP features a combination of excentric sanding discs (patent pending), sanding brush rollers and a planetary disc system. This unique system leads to a greater combination of results in finish and sealer sanding.



The excentric rotating discs orbital movement (patent pending) applies a complete sanding action to the entire work piece. Every point of the work piece is sanded from all angles and all directions. All four edges of the work piece are sanded equally and consistently. The rotating discs sand across the grain as well as with the grain. This kind of cross-sanding provides an exceptional finish on profiled and flat surfaces.

The rotating sanding rollers, which follow the discs, sand in the direction of the through feed thus giving a straight finish in one direction.

The planetary disc station yields a completely diffused, random scratch pattern on the surface. The rotation of the disc, the overlapping head rotation and transversal oscillating movement creates a very uniform finish without a discernible cross grain scratch.

This combination of excentric discs, rollers and planetary discs makes the DiscMaster 3DBBP the ideal finishing solution for furniture, doors, cabinet doors and components, window components and more in whitewood sanding, denibbing and sealer sanding. All in all, the machine provides the best possible finish for solid wood doors with the greatest flexibility available.

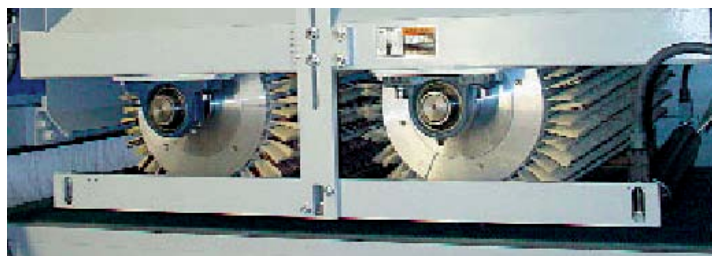
### Disc-Station:

- 16 sanding discs 250mm (10") diameter, each with 24 keyways 75mm (3") long
- Gearmotor 2 x 1.5 kW (2HP)
- Variable disc speed 50-300 rpm by frequency converter
- Eccentric orbital disc movement (patent pending)
- Separate height adjustment of the disc-station (to run discs only or rollers only or everything together)
- Electronic digital display to show height of disc-station



### Rotating Roller Spindles:

- Two spindles 90° to the feed, spindle diameter 50mm (2"), for maximum brush diameter 400mm (16")
- Strong gearmotor each 2.2 kW (3HP) with external coolers
- Variable spindle speed 14-300 rpm by frequency converter each spindle, separately adjustable
- First spindle turning with the feed, second spindle against the feed



### Planetary Disc-Station:

- 3 overlapping planetary rotating heads each with 3 rotating discs for a total of 9, 250mm (9.8") sanding discs
- 0.75kW (1 HP) Gear motor with tooth belt drives for planetary head rotation by frequency converter, 20 – 40 rpm
- Each planetary head equipped with 0.75kW (1 HP) drive motor and tooth belt drives for the 3 sanding discs, variable disc rotation of 50 – 400 rpm by frequency converter
- Oscillation of the complete planetary station 90° to the feed by a gear motor 0.37kW (0.5 HP)
- Motorized height adjustment of the planetary station by gear motor and spindle
- Center head rotating clockwise, outside heads rotating counter-clockwise

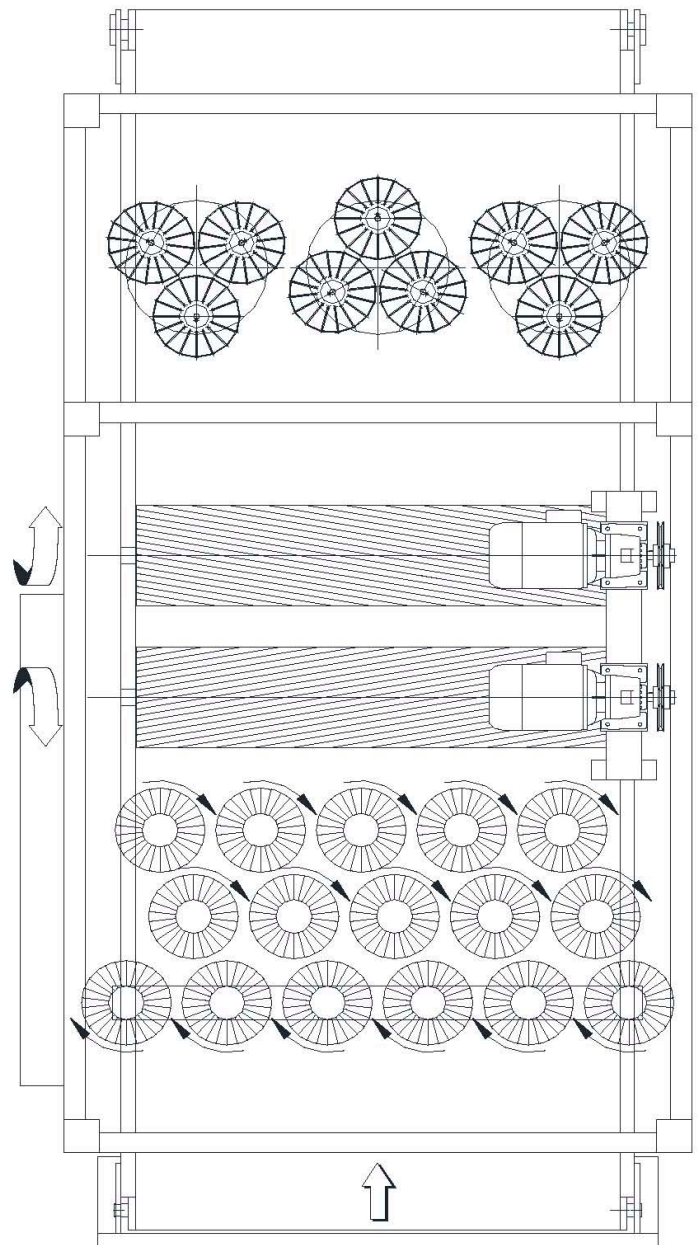


- One 7.5kW (10 HP) drive motor with toothed belt drives for the 9 sanding discs
- Variable disc rotation, 400 – 900 rpm by frequency converter
- Oscillation of complete planetary station, 150mm (6") stroke 90° to the feed by 0.55kW (0.75 HP) gear motor with 15 – 30 variable rpm by frequency converter.



### Basic Machine:

- **PLC** - Power-Panel Control, colored touch panel, strong PLC, menu controlled functions like manual mode – creating a program, storing a program, loading a program, different pin-areas, choice of pin, service-function, connection card for connecting machine to PLC of finishing line
- Spring loaded hold down rollers for holding down narrow work pieces, pre-adjustable in height, linked to height adjustment of spindles
- Vacuum feed belt to hold down small work pieces with two strong vacuum motors 7.5 kW (10HP)
- Through feed by feed belt with variable speed 3-15m/min (8-50 ft/min) by gearmotor 1.5 kW (2HP)
- Automatic centering of feed belt, pneumatically controlled
- Constant height of through feed, possible to put machine in finishing line
- Maximum height of work piece 100mm (4")
- Motorized height adjustment of sanding units by gearmotor 0.37 kW (0.5HP)
- Sensor activated pneumatic oscillating blowing device for cleaning the work piece at the end of the machine
- Antistatic brush strip device
- Control panel at left side
- Emergency off pull line at infeed and outfeed
- Infeed control with emergency stop if work piece is too thick
- Four access doors with plexi glass windows



### Technical Data:

Max. working width	1350mm (53")
Max. thickness of work piece	100mm (4")
Motor disc station	2 @ 1.5kW (2 HP)
Motor sanding roller	2 @ 2.2kW (3 HP)
Motor Planetary Station	4 @ 0.75kW (1 HP)
Diameter sanding roller	Max. 400mm (max. 16")
Speed of feed belt	3-15m/min (8-50 ft/min)
Length/width/height	3700mm/2150mm/1950 (146"/86"/77")
Weight	2,800kg (6,160 lbs.)

US standards in measurement are an approximation

