

ALPHA-BRUSH PERFECTION BBD

Details and Benefits

STILES | HC

YOUR SOLUTION

ALPHA-BRUSH PERFECTION BBD



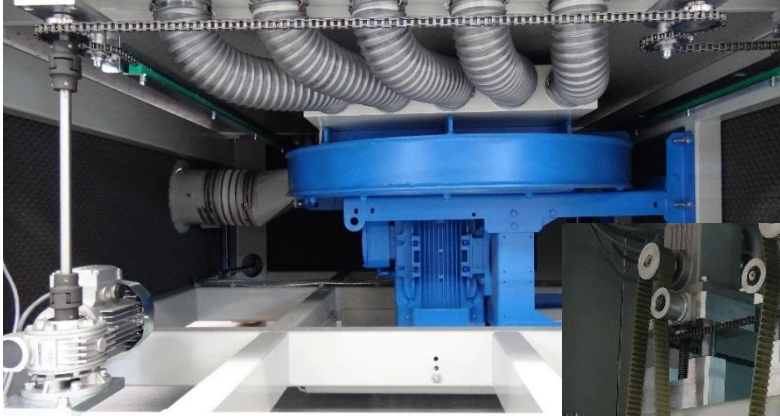
BASIC SPECIFICATIONS

- Sanding Width: 53" (1350mm)
- Sanding Thickness: 0-100mm (4")
- Station 1: Helical Barrel Brushes
 - Head 1: 250mm Helical Barrel Brush
 - Head 2: 250mm Helical Barrel Brush
- Station 2: Oscillating Disc Station
 - Head 3: 1 Row of 250mm Discs
 - Oscillation for uniform coverage
 - Hybrid Discs Design (Angled strips)
- Variable Speed and Direction on all Heads
- Turbo Blower Part Cleaning
- 14" Color Touchscreen Control
- Vacuum Bed with automatic variable control
- Fixed Passline Height (35")

APPLICATIONS

- Edge Breaking / Denibbing
- Whitewood Surface Preparation
- Sealer & Intermediate Sanding

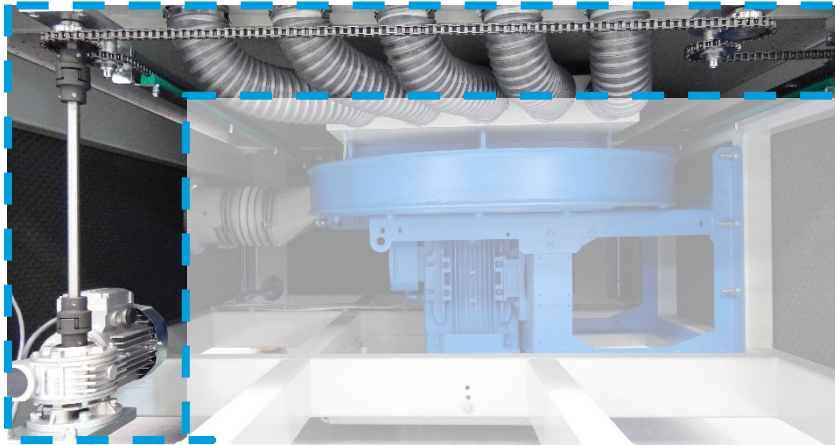
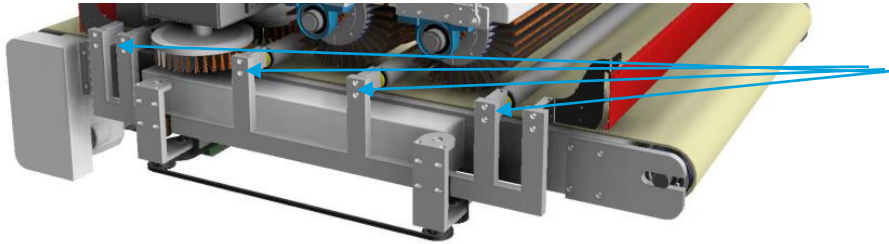
STABLE MACHINE FRAME & CONSTRUCTION



DETAILS

- **Stable & Clean Machine Construction**
 - Heavy welded frame for longevity and stability
 - Heads Mounted on Structural Cross Beams
 - Height Height Adj, Drives mounted in upper housing
 - Easy access for service
- **Machine weight**
 - Perfection BBD: ~4,600 lbs

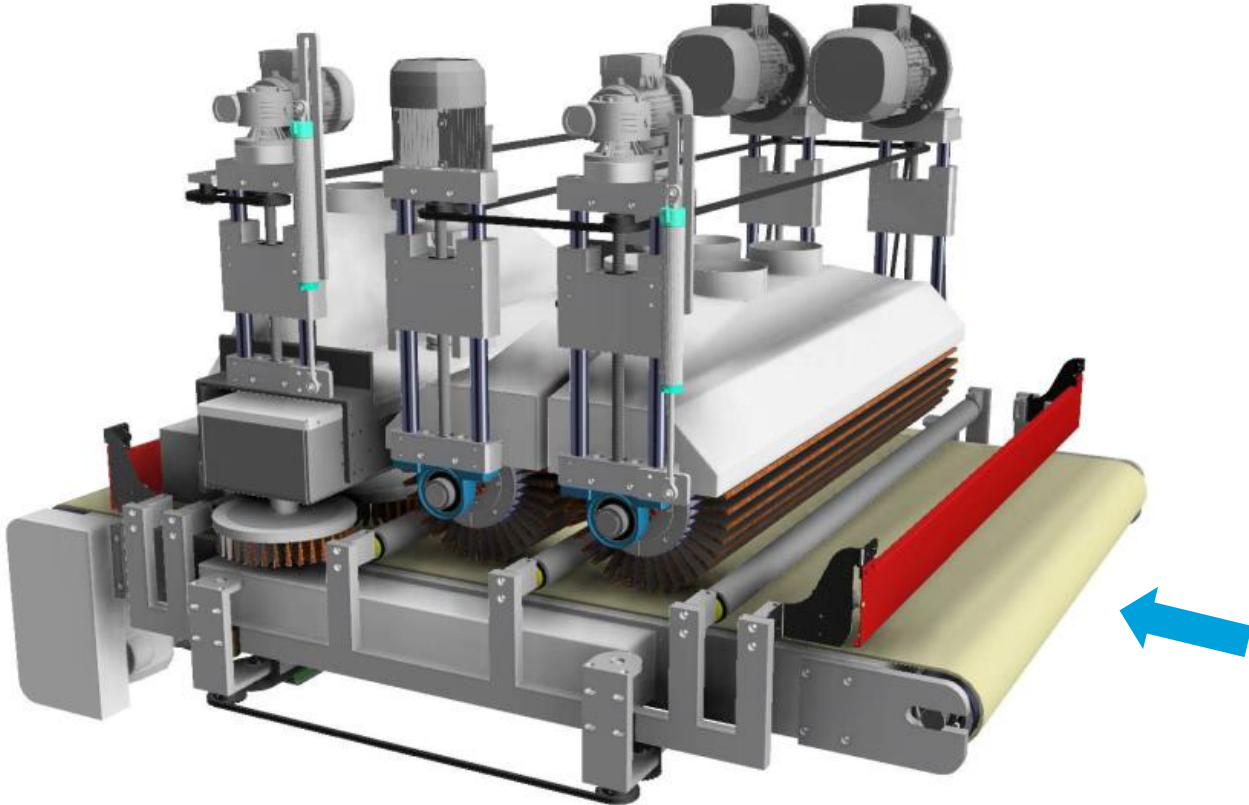
INDEPENDENT THICKNESS ADJUSTMENT & HOLD DOWN



DETAILS

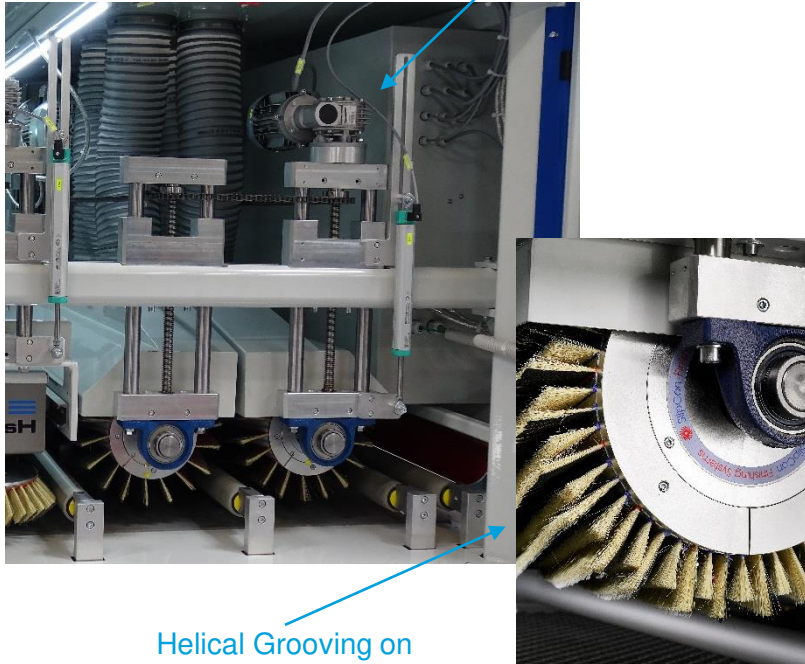
- Workpiece thickness adjustment independent of head adjustment
- Hold-down roller adjustment from the bottom for ALL sanding heads
 - Robust yet simple adjustment system in base of machine
 - Easily adjusted from control without impacting brush projection
- Optimal workpiece hold down regardless of head configuration

SANDING HEAD CONFIGURATION



STATION 1: HELICAL BARREL BRUSHES

Brush Height
Adjustment

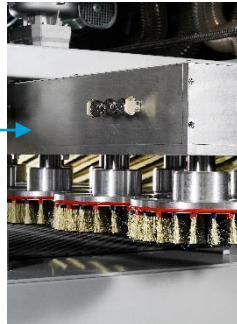
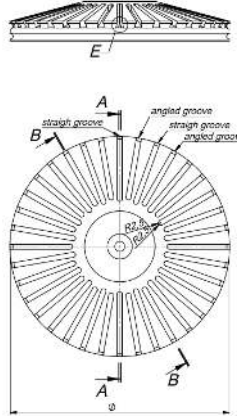
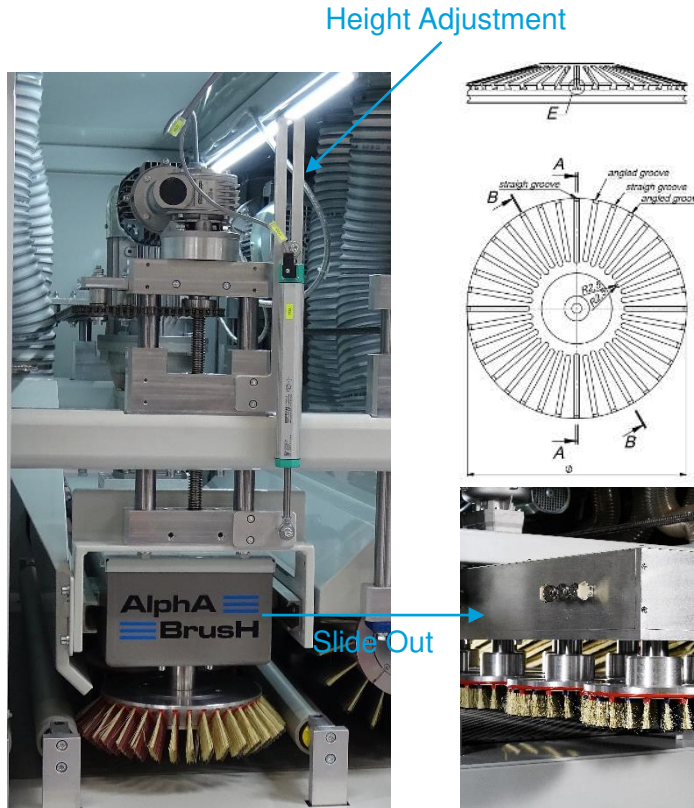


Helical Grooving on
Brushes

DETAILS

- **Helical Barrel Brush Sanding Station**
 - 2 Helical Barrel Brushes
 - 250mm Diameter
 - 2.2kw (3HP) Per Brush
 - Variable Speed & Direction
 - Variable Brush RPM
 - Bi-Directional and Counter Rotating
 - Double Side Strips Possible (sealer / whitewood)
 - Ideal for Inner Panels – Centrifugal force
 - Helical Brush Pattern
 - Contact point at angle
- **Height Adjustable Via Controller**
 - Brush Projection independent of workpiece thickness
 - Station Independent from other stations
- **Hold Down Rollers**
 - Before, between and After Heads
 - Holds down lightweight parts like face frames

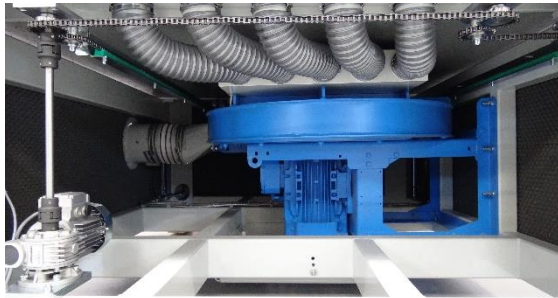
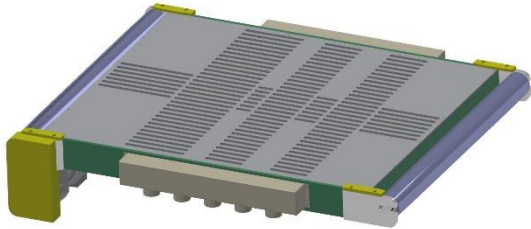
STATION 3: OSCILLATING DOUBLE DISCS



DETAILS

- Oscillating Disc Sanding Station
 - 1 Row Oscillating Discs
 - 250mm Diameter Discs for Excellent Dwell Time
 - Special Angled Disc Pattern (Flat / Angled)
 - 2.2kw (3HP) and 0.37kw (0.5HP) for Oscillation
 - Variable Speed & Direction
 - Variable Brush RPM
 - Bi-Directional and Counter Rotating
 - Double Side Strips Possible (sealer / whitewood)
 - Ideal for Inner Panels – Centrifugal force
- Slide Out Mechanism for Easy Brush Changes
 - Slides out Left and Right
- Height Adjustable Via Controller
 - Brush Projection independent of workpiece thickness
 - Station Independent from other stations
- Hold Down Rollers
 - Before and After Heads
 - Holds down lightweight parts like face frames

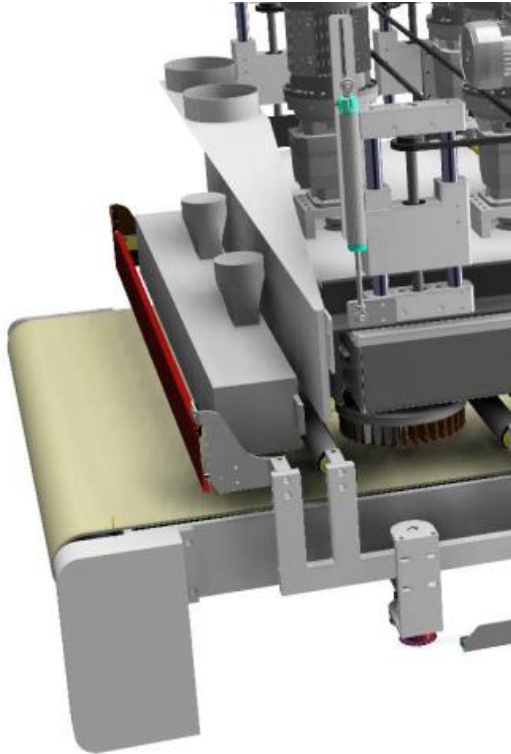
VACUUM BED & DRIVE SYSTEM



BENEFITS

- **Heavy Duty Fabricated Steel Conveyor Bed**
 - Slotted hole pattern for optimal hold down
 - Vacuum concentrated under each station
- **Integrated High Performance Vacuum**
 - Integrated into machine base
 - 7.5kw (10 HP) Vacuum Blower
 - Flat conveyor belt
- **Automatic Variable Vacuum**
 - Atomically Adjusted Pressure
 - Controlled Via Damper based on Amp Load
 - Ensures Optimal Vacuum whether feed belt is full or if just running single pieces
- **Robust Conveyor Drive System**
 - Rubberized drive roller = no slipping
 - Frequency driven gearbox for feed drive

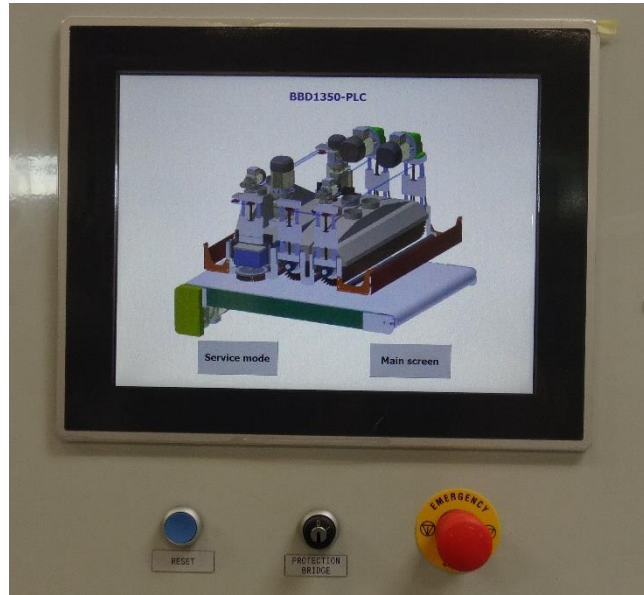
TURBO BLOWER PART CLEANING SYSTEM



BENEFITS

- Turbo Blower Cleaning
 - Air jets blast surface clean
 - Ideal for profiled or flat surfaces
 - Non wearing cleaning system
 - Operate only when parts are present
- Keep Conveyor Belt Clean
- Located at Machine Outfeed

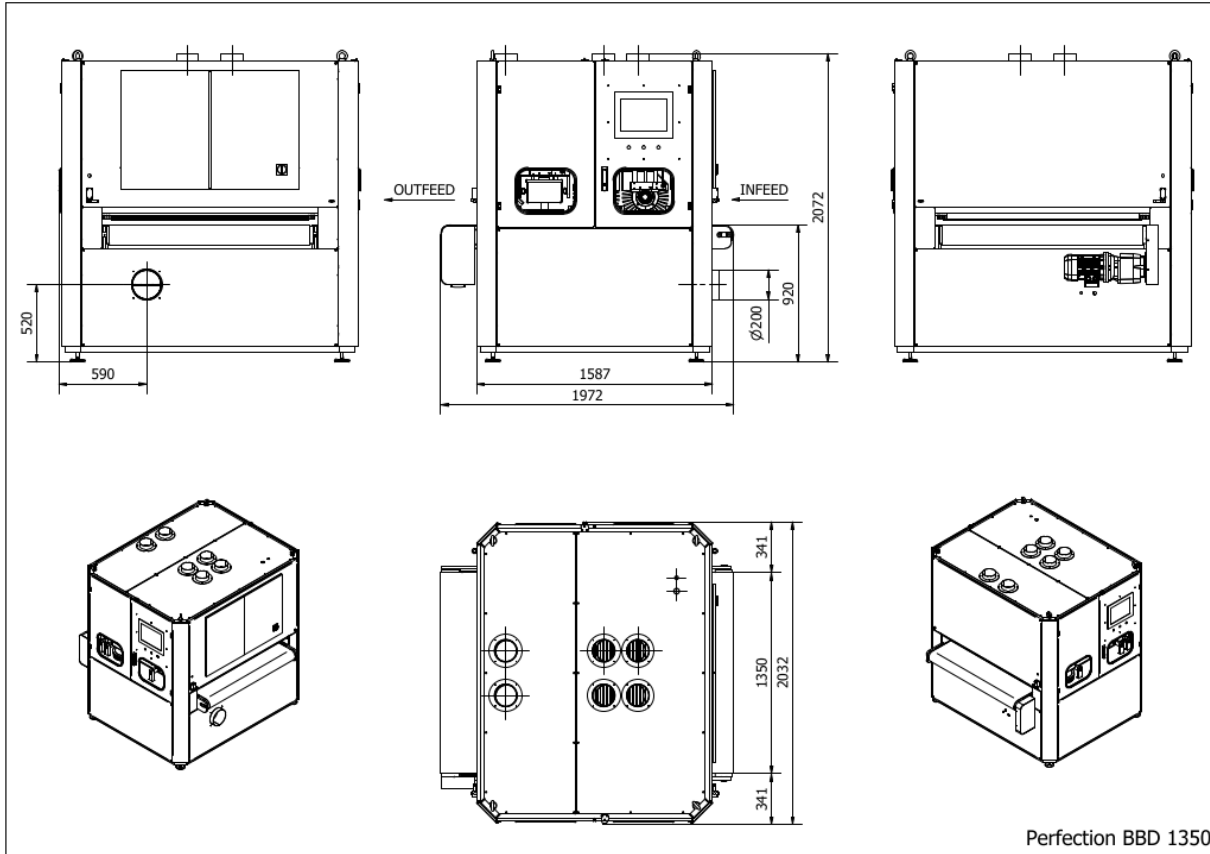
TOUCH SCREEN CONTROLLER



BENEFITS

- **14" Color Touchscreen Control**
 - Easy to Navigate Display
 - Remote Diagnostics
- **Full Machine Programmability**
 - Height, Heads, Functions
 - Programs for saving parameters and recipes
- **Single Button Starting**
 - Automatic star delta motor starting in sequence to prevent power spikes at startup
- **Integrated Error Messaging and Troubleshooting**
 - Fast diagnostics

MACHINE FOOTPRINT



Perfection BBD 1350

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