



NICHOLAISEN
BALTIC OÜ

Presenting new range of
machines



NICHOMACHINES.COM



notmac

Sanding technology

MT segment pad Sanding machine

Main products:

Wide belt sander	Brush sander	Planer sander
Lacquer sander	Segment pad sander	Metal sander

Brand:

Motimac®

MT



3-year warranty*
ensuring no hassle
and unforeseen costs



Quick return on
investment



Low Total Cost of
Ownership



Ensuring low price
by sourcing cleverly
in large quantities

Application: To all kinds of paint surface sanding , veneer sanding , acrylic sheet polishing , solid wood board and composite board surface fine sanding.



Focus on every detail. Your satisfaction is our terminal pursuit.



No.	Item	MT TRHG1300	MT RHG1300	MT TEHG1300	MT EHG1300	MT TEG1300
1	Work width MAX.(mm)	1300	1300	1300	1300	1300
2	Work length MIN.(mm)	514 (200*200)	514 (200*200)	514 (200*200)	514 (200*200)	514 (200*200)
3	Working thickness(mm)	5-150	5-150	5-150	5-150	5-150
4	Diameter of unit(mm)	φ330	φ330	/	/	/
5	Shore of unit(shore)	26sh	26sh	/	/	/
6	Air pressure(Mpa)	0.6	0.6	0.6	0.6	0.6
7	Abrasive belt(mm)	T: 150x5350	/	T: 150x5350	/	T: 150x5350
8	Abrasive belt(mm)	R: 1350x3250	R: 1350x3250	E : 1350x3250	E : 1350x3250	E : 1350x3250
9	Abrasive belt(mm)	H: 1350x3250	H: 1350x3250	H: 1350x3250	H: 1350x3250	/
10	Feeding Speed(m/min)	7-36	7-36	7-36	7-36	7-36
11	Total Power(kw)	61	42	61	42	42
12	Overall Dimension(mm)	2260X4222X2940	2260x3640x2940	2260x4222x2940	2260x3640x2940	2260x3640x2940
13	Weight(kg)	8500	6600	8500	6600	6600
14	Voltage is at your choice	380V/50HZ/3PH	380V/50HZ/3PH	380V/50HZ/3PH	380V/50HZ/3PH	380V/50HZ/3PH

MT Segmented Pad Sander

- Polishing smooth, fine and non -porous.
- Paint sanding is completed without edge piercing and bottom exposure, and the pass rate is over 99%.
- Primer parts are sanded without manual repair.
- Direct spray high-gloss finish possible.
- Light luxury style, veneer polishing , to achieve skin -feeling effect
- Save more than 30% painting



**Electronically controlled 80-section
16mm segmented pad**
Completely solves the defects from
traditional sanding.



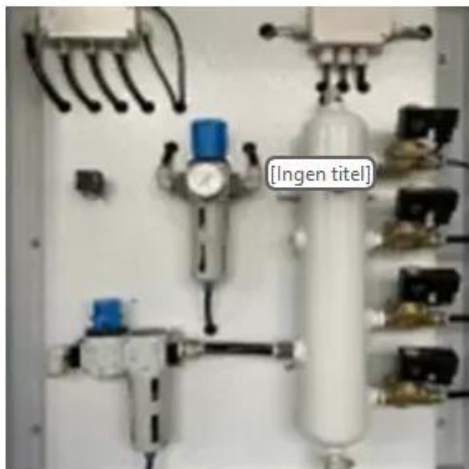
3250mm sanding belt
Automatic edge-finding function
Achieve the natural sanding effect
of the wood grain.



**Equipped with a herringbone belt
(4710mmx140mm) ,for the high
gloss and skin feel sanding effect.**

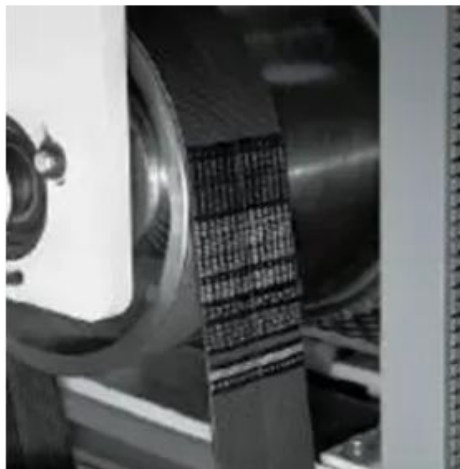


MBS full closed loop positioning system
Repeat positioning accuracy increased
by more than 25 times.



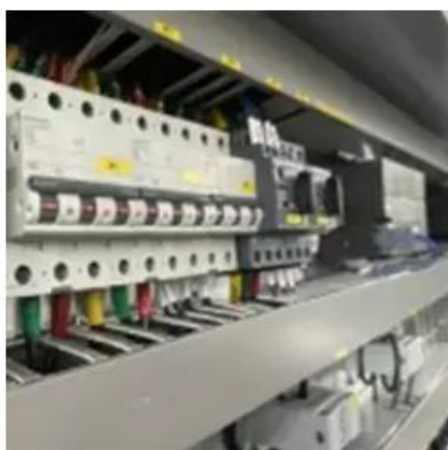
German Festo air control system

Escorts our air control part.



Germany Opitbelt timing belt

Escorts our transmission system.



German Siemens electrical system

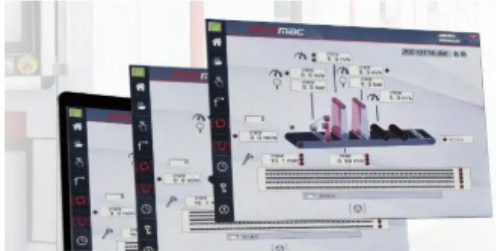
Escorts our electronic control part.



100% rubber jointless Italy conveyor

The friction force is increased by more than 3 times , which solves the panel slipping.

Configuration - Control system—innovation from Italy



- **Industrial-Grade Computers** Are Equipped With Specialized System Software For The Segmented Pad Sanding Machine To Perform High-Speed Data Calculations, And Transmit Data Through Millisecond-Level Fiber Optics To Send Commands To The Pads.
- **Formula Management** Allows For Unlimited Storage Of Sanding Patterns, Enabling Easy Switching And Calling Of Any Formula.
- **Fault Display** Points Can Accurately Detect All Equipment Malfunctions.
- Supporting Multiple Languages, Adapting To Operators From Different Countries.



The Professional Key Sanding Operating System From Italy, Equipped With **A CNC Data Processor**, Converts PC-Side Data.

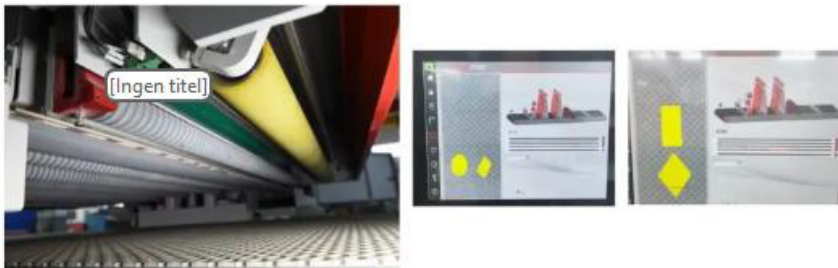
Electrical Cabinet Control: The Servo Control System Replaces The Conventional Frequency Converter Control. The Servo Control System Offers High Precision And Accurate Positioning, Enabling The Key Sanding Machine To Operate With Greater Stability. It Reduces Machine Vibration And Noise, Contributing To A **36% Extension** In Equipment Lifespan While Also Improving Sanding Quality.

Air system—FESTO

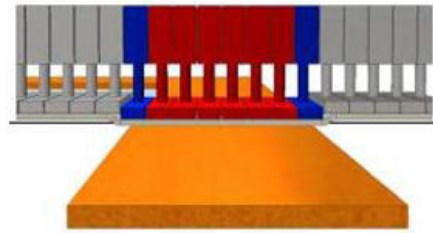
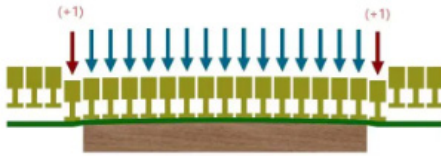


- The German FESTO Full-Range Pneumatic Control System, A World Expert In The Field Of Pneumatic Control.
- Strong Compatibility, Seamlessly Integrated With The Control System In The Segmented Pad Sanding Equipment For Data Exchange, Enabling Automated And Intelligent Control.
- The Procurement Cost Is More Than 15 Times That Of Competitors.

Detection system—innovation from Italy



- The Imported Italian Digital Multi-Point Intelligent Scanning Technology Features Over 400 Scanning Points, Enabling Precise Contour Data Collection Of Workpieces.
- The Collected Information Is Transmitted In Real-Time To The PC Control Terminal Via Fiber Optic Transmission For Data Analysis.
- The Non-Contact Radar Scanning Is Unaffected By Light, Color, Or Environmental Conditions, Ensuring A Long Service Life!



Better adaptability to the shape of the board: The smaller single-section width allows the sections to better fit the board surface. Whether it is a flat board or with a certain curvature or warping, it fully contacts the sanding surface to ensure uniform sanding and avoid partial insufficient-sanding or over-sanding.

Reduce sanding blind area: The 16mm single-section width effectively reduces the gap between adjacent sections, making the sanding area more coherent, reducing the possibility of blind areas during sanding process, and performs comprehensive and complete sanding treatment on the board.

Edge/corner protection function: it can avoid the edges by reducing the pressure of one pad, enabling precise positioning and accurate control over the edges and corners.

Sanding system—Chevron belt from Italy

- Ultra-Soft Herringbone Chevron Belt: Mimics Manual Sanding, Achieving Ultra-Smooth And Flat Surfaces Through Horizontal Sanding.
- Eliminates The Risk Of Belt Breakage Caused By Lateral Motion Impact.
- Circumference Selection: Equipped With The Internationally Top-Standard Circumference, Ensuring A Mirror-Flat Finish.
- Used In The Fine Sanding Stage, It Ensures A Flat And Smooth Surface For Wood Veneer Polishing, Directly Reducing The Amount Of Paint Required In Subsequent Coating Processes And Achieving An Ultra-Thin Paint Surface Where The Wood Grain Is Visible, Not The Paint.
- The World's Highest-Quality Chevron Belt Delivers Exceptional Performance, Long Service Life, And Low Maintenance Costs.
- Features World-Class Industrial Felt From The Top Brand FFW



Motor system—Servo motors



- The Servo Motor Has Extremely High Stability And Reliability, And Maintains Stable Performance Output Under Long-Term, High-Load Operating Conditions.
- Its Advanced Control Algorithm And Drive Technology, As Well As Precise Manufacturing Processes And High-Quality Material Selection, Ensure That The Motor's Speed, Torque And Other Parameters Remain Stable During The Long-Term Operation Of The Sanding Machine, Thereby Ensuring The Stability Of The Sanding Effect.
- Energy-Efficient And High-Performance, Saving 20%-50% More Energy Compared To Traditional Frequency-Conversion Motors, Reducing Electricity Costs Significantly.

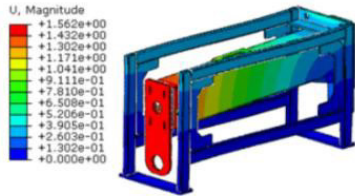
Lifting system—Heavy duty



- The Ultra-Strong Machine Structure Stability And High-Precision Repeat Positioning Have Completely Resolved The Long-Standing Issue Of Discrepancies Between Digital Displays And Actual Dimensions In Chinese Sanding Machines.
- The Digital Upgrade Display System Features The Italian Gefran Brand. High-Precision Servo Motor Drive With Grinding-Grade Ball Screws.
- The Italian Fully Closed-Loop Positioning System Achieves A Repeat Positioning Accuracy Of Up To 0.008mm.

Sanding unit—Heavy duty

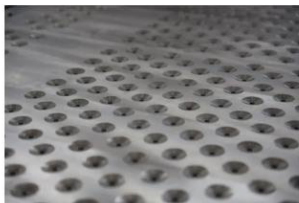
(Ingen titell)



- CAE Big Data Computer Mechanical Analysis And Calculation
- Super-Stable, Permanently Deformation-Free Machine Tool Mother Structure.

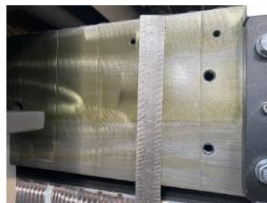
- The Bridge-Style Design Provides A Fixed Connection Between The Machine Body And Ensures The Stability Of The Sanding Roller. It Reduces Vibration During The Rotation Of The Sanding Roller On The Machine.
- The Sanding Frame Beam Weighs 200 Kg, More Than Double That Of Competitors.

Vacuum table



- The Conveyor Bed Features A Vacuum Adsorption Function, With A Design Structure That Enhances Negative Pressure Capability.
- The Table Surface Undergoes Annealing Treatment, Achieving A Flatness Within 0.03mm After Precision Machining.

Conveyor bed



- Heavy-Duty Conveyor System Design: The Conveyor Bed Has A Total **Thickness Of 175mm**
- The Conveyor Belt Has A Circumference Of 8210mm And Is Supported By Rollers Underside.
- The Conveyor Belt **Centering Tracking System** Uses Festo Brand Cylinders With An Oversized Cylinder Diameter And A Dual Tracking Design.

Conveyor belt



- Imported From Italy
- Seamless Pure Rubber Construction
- Exceptional Friction Ensures The Board Is Firmly Fixed On The Conveyor Belt Surface
- High And Uniform Tensile Strength Of The Conveyor Belt
- High-Quality Rubber Is Evenly Distributed Across The Belt Surface, Ensuring Consistent Hardness, With An Overall Shore Hardness Of 50.
- Excellent And Uniform Elasticity Guarantees Consistent Sanding Surface Quality.

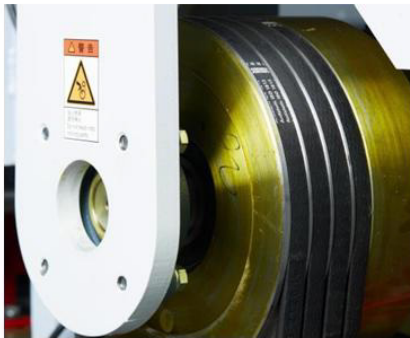
Cleaning system



- Natural High-Quality Sisal Cleaning Brush Roller
- Self-Powered Conveyor Bed Bottom Cleaning Device
- Anti-Static, Centralized Dust Collection, And Central Dust Removal Design
- No Secondary Dust On The Workpiece
- Clean And Non-Slip Conveyor Belt
- Ensures Precision In Sanding Boards
- Maintains A Clean, Tidy, And Pollution-Free Production Environment In The User's Workshop.



- Scotch Brite
- Natural Anti-Static Sisal Brush Roller
- Heavy-Duty, High-Precision Natural Sisal Brush Roller
- Lifting Mechanism Uses Precision Worm Gear And Linear Guides
- Delivers A More Flawless Sanding Effect
- Thoroughly Cleans Dust From The Board Surface.



The main shafts all adopt the eccentric shaft structure and use the German FAG maintenance-free bearings, so that the main shafts always keep the original balance **within 0.3 grams** in terms of dynamic balance;

Keep the left and right consistent when the sand roller is fine-tuning to avoid accumulative deviation causing partial sand.



All pulleys are installed **with tapered sleeves**, which are easy to disassemble and have high balance to avoid vibration caused by pulleys.

The transmission belt adopts **Germany brand Obi**, which has high transmission efficiency, consistent tightness and durability.