

HE SERIES / SIX-SIDED CNC DRILLING

HE 1200 D6

Six-Sided CNC Drilling & Grooving Machine

High-speed drilling, grooving and milling of panel components — all six sides in a single pass, without turning the board.

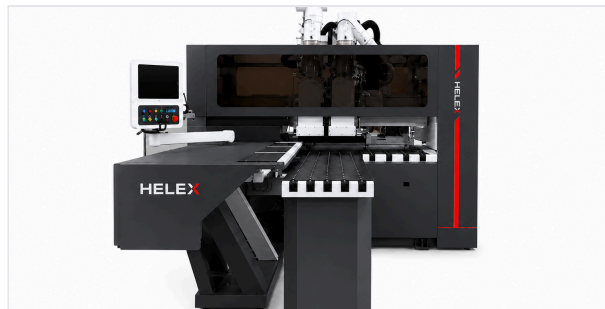


The **HELEX HE 1200 D6** is designed for drilling and grooving of panel furniture components. It processes standard two-in-one and three-in-one connector installation holes, and additionally performs panel slotting and milling on both standard and special-shaped boards. The machine automatically identifies board information by wireless scanning of the board label: once positioned, it feeds automatically and processes all holes and grooves without turning the board. With high precision, high speed and no machine adjustment required between different boards, operation remains simple — making the HE 1200 D6 especially suitable for the production of customized furniture.

/ PRODUCT FEATURES

■ Heavy-Duty Gantry Design

Heavy-duty, high-strength gantry construction allows high-speed movement of the drilling and milling mechanism without vibration, ensuring stable operation of the machine even at maximum feed rates.



■ Batch Barcode Scanning & Automatic Queuing

Boards can be scanned in batches and are automatically queued for processing. Feeding direction is selectable — forward or reverse — for flexible integration into the workshop flow.



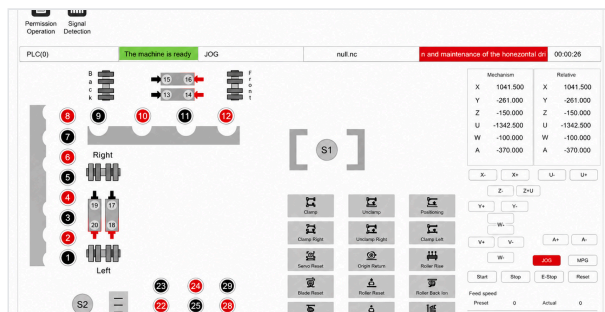
■ Intelligent Floating Clamps

Intelligent floating clamps with automatic avoidance handle large, small and special-shaped boards; two boards can be processed simultaneously. The clamp positioning system is designed to minimize the number of clamp changeovers and maximize processing efficiency.



■ Integrated CAM Software

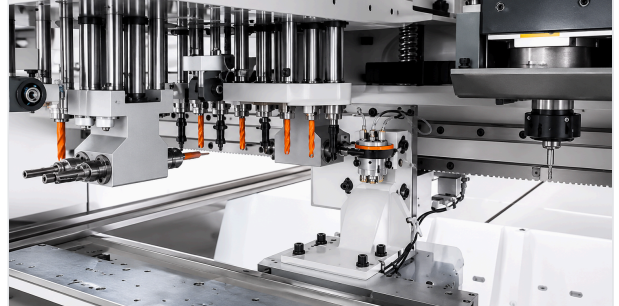
The control system integrates its own mature and stable CAM software, ready for direct connection to fully automatic production lines. Computer operation with CAD drawing and CAM import: DXF, MPR/XML and other open data formats are imported directly, and the machine connects with all well-known design and order-management software packages.



/ EQUIPMENT DETAILS

■ Upper Drilling Package: 12 Vertical + 8 Horizontal

The upper drilling unit combines 12 vertical and 8 horizontal spindles driven by a 6 kW air-cooled routing spindle, covering vertical drilling, horizontal drilling and grooving operations in one head.



■ Lower Drilling Package: 9 Vertical Spindles

The lower drilling unit with 9 vertical spindles and a 3.5 kW air-cooled spindle processes the underside of the board simultaneously — no board turning, no repositioning, no loss of accuracy.



■ Precision Drive System

Full servo drive on all axes with Japanese Shimpo planetary reducers and German grinding-grade helical racks on hardened linear guideways deliver feed speeds up to 130 m/min with repeatable precision. Special-shaped cutting and glass-door engraving and milling are fully supported.



■ Clean Processing Environment

Brush-skirted dust hoods on both drilling packages, a 5.5 kW double-bag dust collector and automatic centralized lubrication keep the air-floated working bed and mechanics clean for consistent, low-maintenance production.



/ TECHNICAL SPECIFICATIONS

PARAMETER		CONFIGURATION	
Model	HE 1200 D6	Type	Six-Sided CNC Drilling Machine
Working area — X axis	5000 mm	Working bed structure	Air-floated, bead + steel board
Working area — Y axis	1500 mm	Upper drilling unit	12 vertical + 8 horizontal
Working area — Z axis	200 mm	Lower drilling unit	9 vertical
Max feeding speed — X	130 m/min	Spindles	Upper 6 kW / lower 3.5 kW, air-cooled
Max feeding speed — Y	80 m/min	Drive system	Servo, all axes
Max feeding speed — Z	15 m/min	Reducers	Shimpo (Japan)
Minimum processing size	40 × 180 mm	Rack gear	German grinding grade, helical
Maximum processing width	1220 mm	Barcode scanner	Zebra / Honeywell
Working voltage	AC 380 V / 50 Hz	Electrical components	Schneider / ABB (Switzerland)
Compressed air	≥ 0.65 MPa	Lubrication	Automatic, centralized
Dimensions (L × W × H)	6000 × 3000 × 2600 mm	Dust collector	5.5 kW, double cloth bag
Net weight	4200 kg	Pneumatic components	Airtac (Taiwan)



/ SUPPLIER

PROMACH LTD

Bld Bogdan Voyvoda 1
7002 Ruse, Bulgaria
VAT Nr. 208555296

/ CONTACT

www.promach-machinery.com
contact@promach-machinery.com
BG +359 87 6832151
RO +40 755 023 024