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DM-1800CNC CNC Gantry Machining Centre 1800 × 4000 mm





Main image of the DM-1800CNC model – gantry machining centre
CNC Gantry Machining Centre

DM-1800CNC CNC Gantry Machining Centre

CNC gantry with a fixed crossbeam, an 1800 × 4000 mm table and a 22 kW spindle

DM-1800CNC is a gantry / portal-type CNC gantry machining centre, designed for efficient milling, drilling and machining of large workpieces. The machine is suitable for machining plates, frames, moulds, housings, castings and structural components requiring a stable construction, greater clearance between the columns and a large working area.

The model features a symmetrical gantry construction providing high rigidity, a wide box-type bed adapted for high table load capacity and a CNC system enabling contour machining with simultaneous 3-axis control.

1800
Table Width



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1800 mm

4000

Table Length

4000 mm / optional 6000 mm

2100

Distance Between Columns

2100 mm

22

Spindle Motor Power

22 kW

DM-1800CNC – CNC gantry centre for machining larger plates, moulds and housings.

The model offers an 1800 × 4000 mm table with a 6000 mm option, 2100 mm distance between the columns, X/Y/Z-axis travel of 3000 / 1800 / 1000 mm, optional ranges of 6000 / 2000 / 1200 mm, spindle speed of 2–1600 rpm with a 2500 rpm option and a 22 kW spindle motor.

Product Gallery

Images and Key Components of the DM-1800CNC Model

Equipment Components and Operating Systems of the CNC Gantry Centre



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CNC

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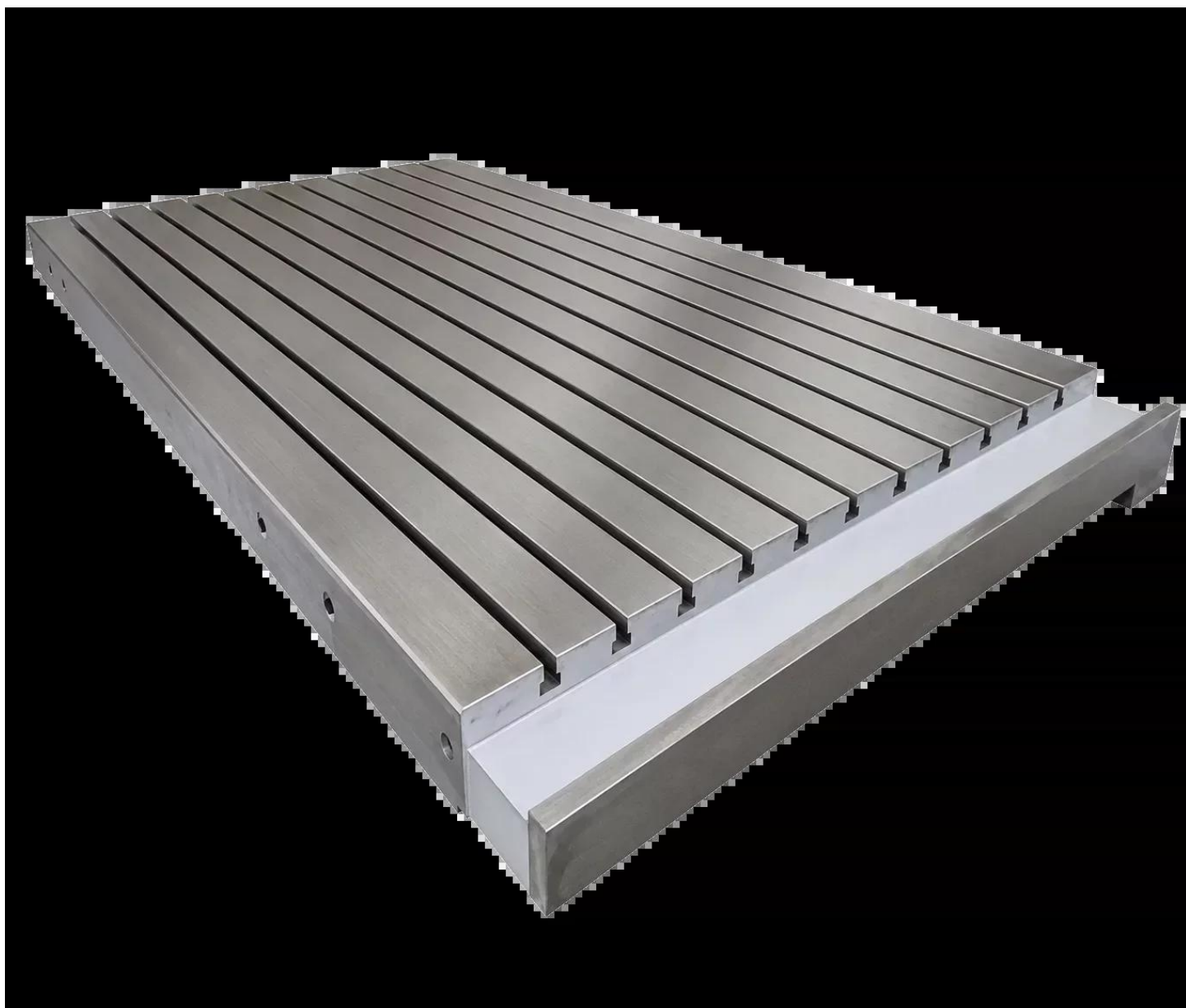
Spindle

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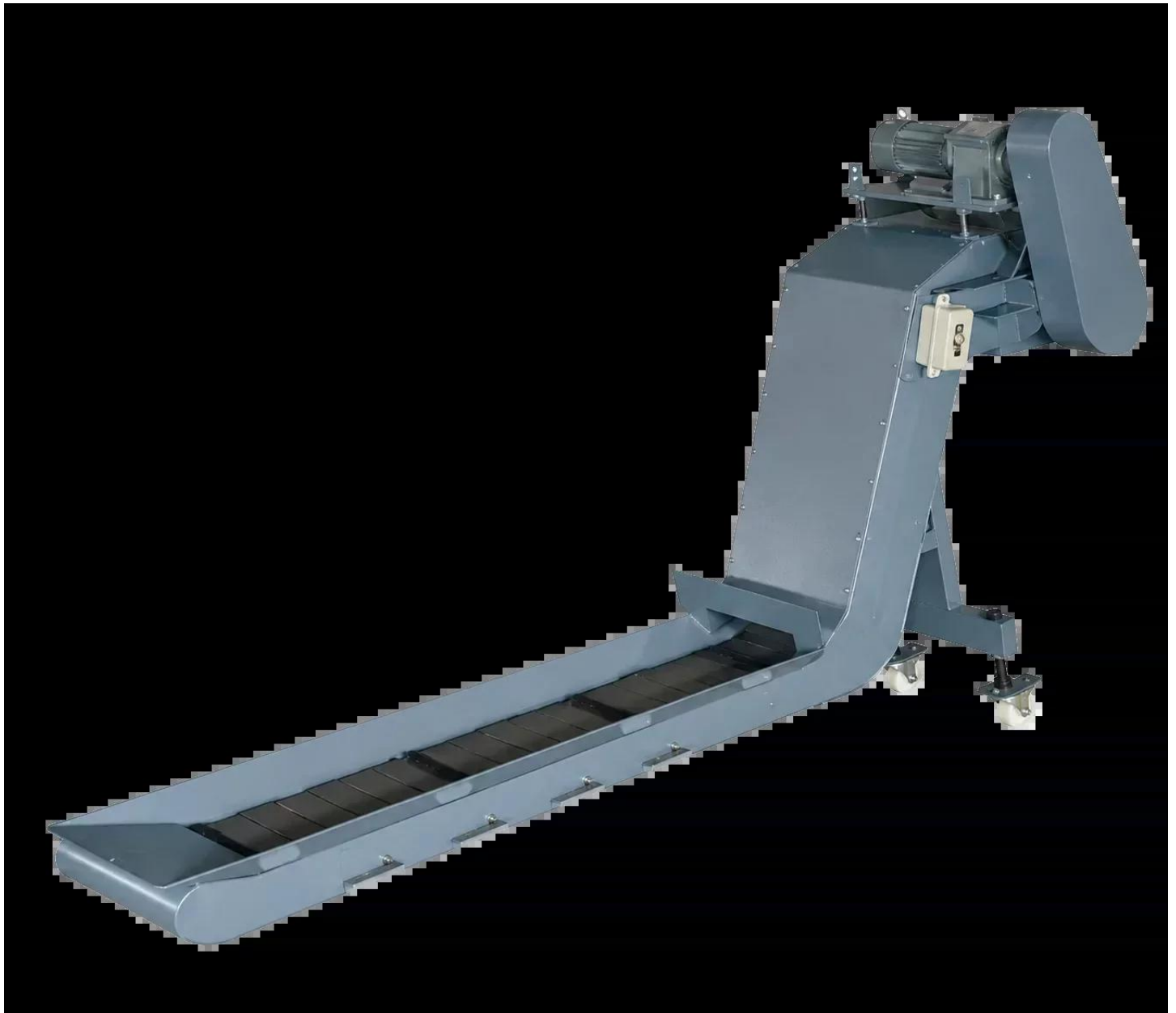


Bed

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Worktable



Chip Conveyor
Machine Construction

Portal CNC Construction for Stable Machining of Large Workpieces

The DM-1800CNC uses a symmetrical gantry construction that provides high rigidity during heavy cutting conditions. The gantry / portal layout with a fixed crossbeam enables stable machining of large components and maintains accuracy across the entire working area.

The wide box-type bed provides high table load capacity and stable workpiece support. The 1800 × 4000 mm worktable allows clamping of larger plates, moulds, housings and welded structures, while the optional



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6000 mm length increases capacity for working with longer components.

The machine is equipped with an efficient milling spindle, CNC system, automatic forced guideway lubrication system and the possibility of using a chip conveyor. As a result, the DM-1800CNC is suitable both for single-piece production and for repeatable machining processes of large workpieces.

Technical Features

Key Features of the DM-1800CNC

Symmetrical gantry construction provides high rigidity during intensive and heavy cutting.

Wide box-type bed provides high table load capacity and stable support for the machined workpiece.

Large-section frame increases the system's resistance to loads generated during heavy machining.

Efficient 22 kW milling spindle enables effective milling, drilling and surface machining.

Automatic guideway lubrication improves the durability of guide systems and machine operating stability.

CNC control enables contour milling with simultaneous 3-axis control.

1800 × 4000 mm table provides space for machining larger plates, moulds, frames and housings.

2100 mm distance between the columns enables convenient work with wider workpieces and welded structures.

Equipment and Configuration

Working Components and Equipment of the DM-1800CNC Model

CNC – numerical control for contour milling, drilling and repeatable machining of large workpieces.

Milling spindle – powerful 22 kW spindle for machining faces, holes and mounting surfaces.



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Box-type bed – wide and rigid structural base adapted for high table load capacity.

Worktable – 1800 × 4000 mm surface with an optional 6000 mm length.

Chip conveyor – optional equipment that helps keep the workstation clean.

Machining attachments – possibility to expand the configuration for machining multiple surfaces in one clamping.

Applications

Where is the DM-1800CNC gantry centre suitable?

The DM-1800CNC is designed for plants performing large-scale machining, machine production, machining of plates, frames, moulds, housings and large steel structures. The portal machine layout provides stability and a large working area, while CNC control enables repeatable machining operations.

Machine production – machining housings, frames, mounting plates and structural components.

Moulds and tools – milling large moulds, dies and process surfaces.

Steel industry – machining welded structures and heavy technical components.

Power generation and heavy industry – preparation of mounting surfaces and holes in large components.

CNC machining facilities – milling, drilling, planing and contour machining of large workpieces.

Single-piece and serial machining – production, repairs and refurbishment of large-scale components.

DM-1800CNC Specifications

Technical Specifications of the DM-1800CNC Model

Model **DM-1800CNC**

Machine Type **CNC Gantry Machining Centre**

Construction **Gantry Machining Centre**

Control **CNC, possibility of contour milling with simultaneous 3-axis control**



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Table Dimensions **1800 × 4000 mm**

Optional Table Dimensions **1800 × 6000 mm**

Distance Between Columns **2100 mm**

X-Axis Travel **3000 mm / optional 6000 mm**

Y-Axis Travel **1800 mm / optional 2000 mm**

Z-Axis Travel **1000 mm / optional 1200 mm**

Spindle Speed **2–1600 rpm / optional 2500 rpm**

Spindle Motor Power **22 kW**

Bed / Base **Wide box-type bed providing high table load capacity**

Gantry Construction **Symmetrical gantry frame for maximum rigidity during heavy machining**

Lubrication **Automatic forced guideway lubrication system**

Selected Components **CNC, spindle, bed, worktable, chip conveyor**

Applications **Heavy milling, drilling, contour machining, machining of large plates, frames, moulds and housings**