KARTA PRODUKTOWA

DM-3000CNC CNC Gantry Machining Centre 3000 × 4000 mm

KARTA PRODUKTOWA

Main image of the DM-3000CNC model — gantry machining centre
CNC Gantry Machining Centre

DM-3000CNC CNC Gantry Machining Centre

CNC gantry with a fixed crossbeam, a 3000 × 4000 mm table and a 35 kW spindle

DM-3000CNC is the largest variant in this series of gantry / portal-type CNC machining centres. The machine is designed for efficient milling, drilling and machining of very large and wide workpieces, such as plates, frames, moulds, housings, castings and heavy structural components.

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.

3000
Table Width
3000 mm

4000
Table Length
4000 mm / optional 6000 mm
3600
Distance Between Columns
3600 mm
35
Spindle Motor Power
35 kW
DM-3000CNC — the largest CNC gantry centre for heavy-duty large-scale machining.

The model offers a 3000 × 4000 mm table with a 6000 mm option, 3600 mm distance between the columns, X/Y/Z-axis travel of 4000 / 3000 / 1200 mm, optional ranges of 6000 / 3600 mm for the X/Y axes, spindle speed of 2–1600 rpm with a 2500 rpm option and a 35 kW spindle motor.

Product Gallery

Images and Key Components of the DM-3000CNC Model

Equipment Components and Operating Systems of the CNC Gantry Centre

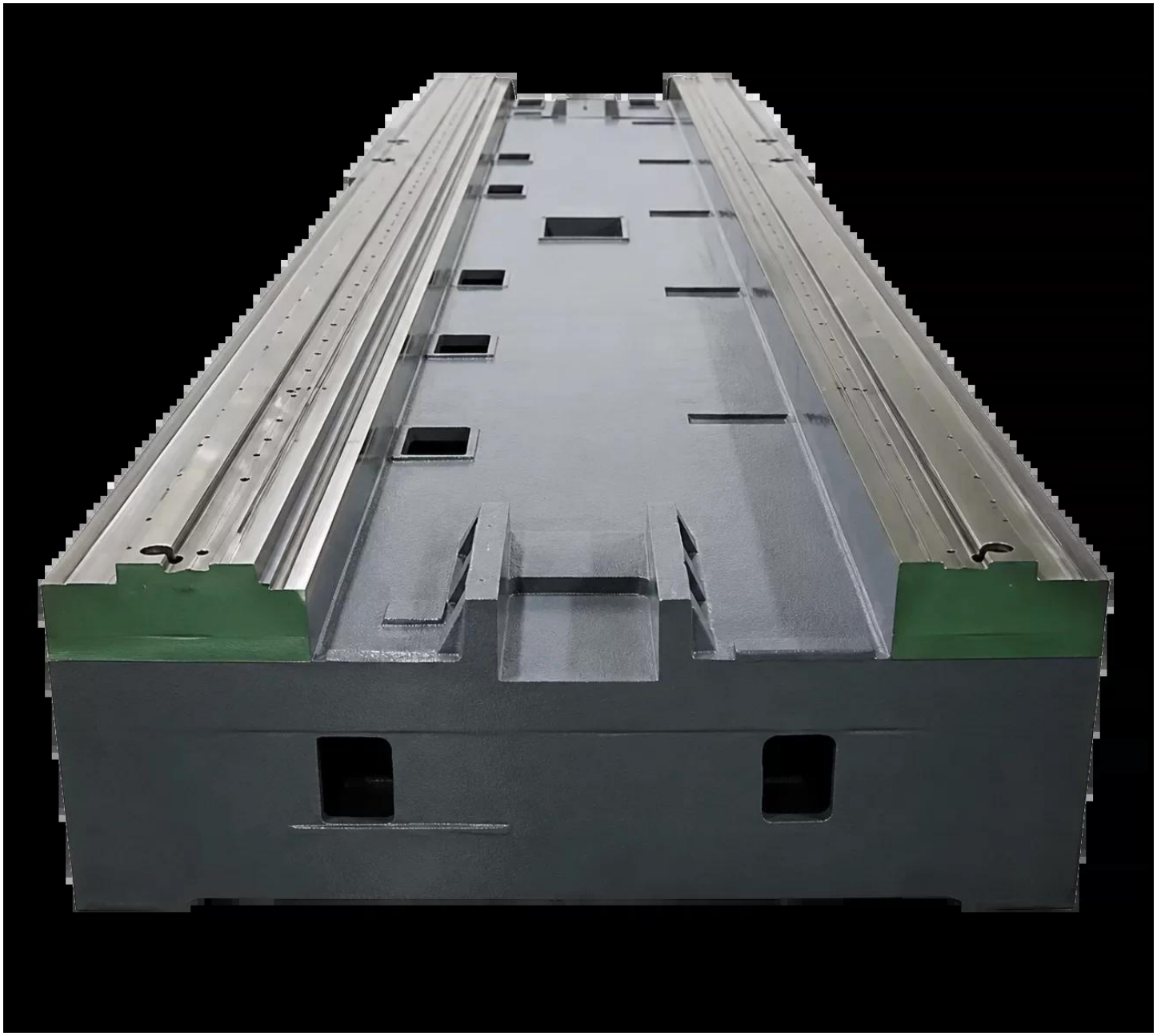
KARTA PRODUKTOWA

CNC

KARTA PRODUKTOWA

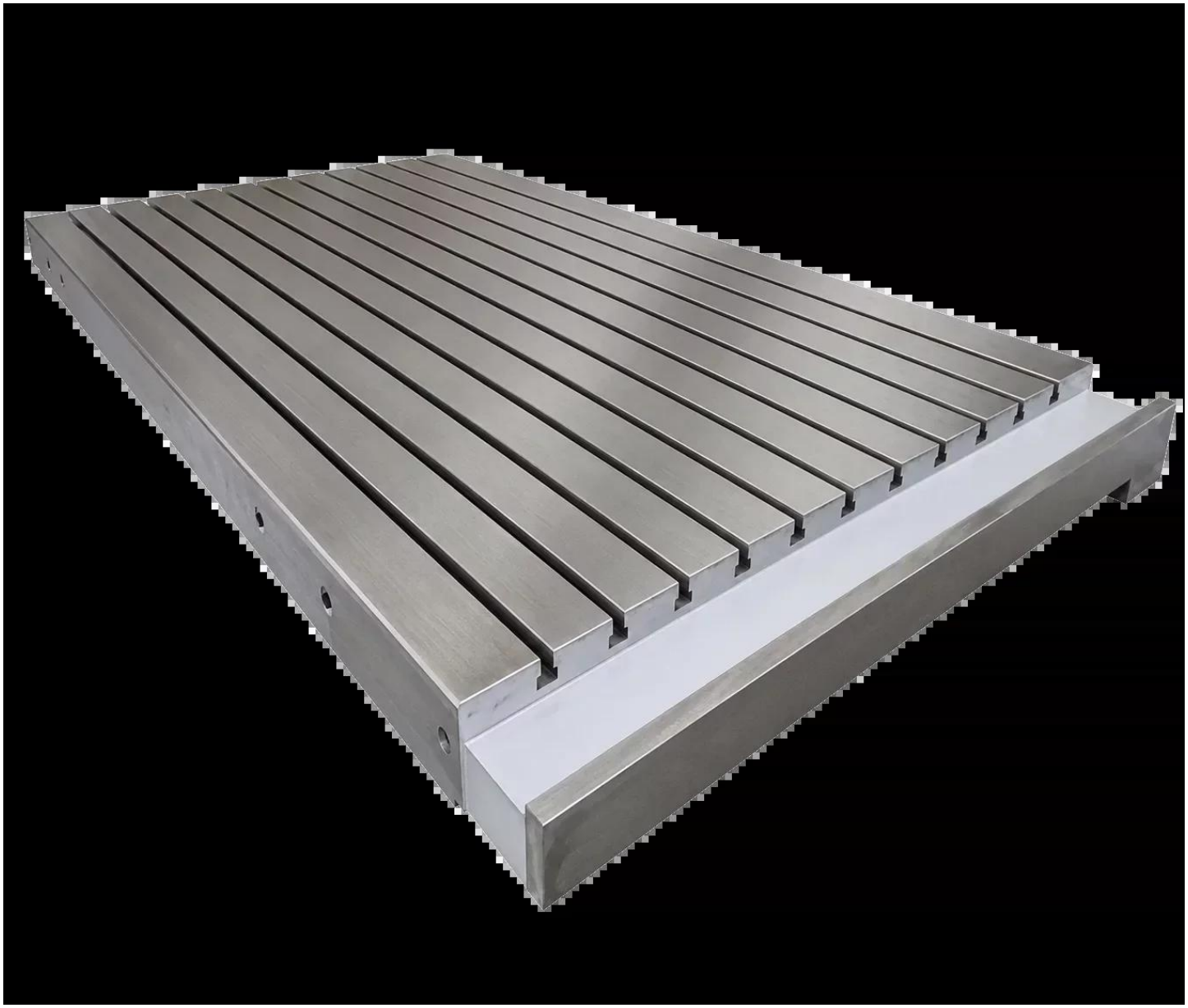
Spindle

KARTA PRODUKTOWA



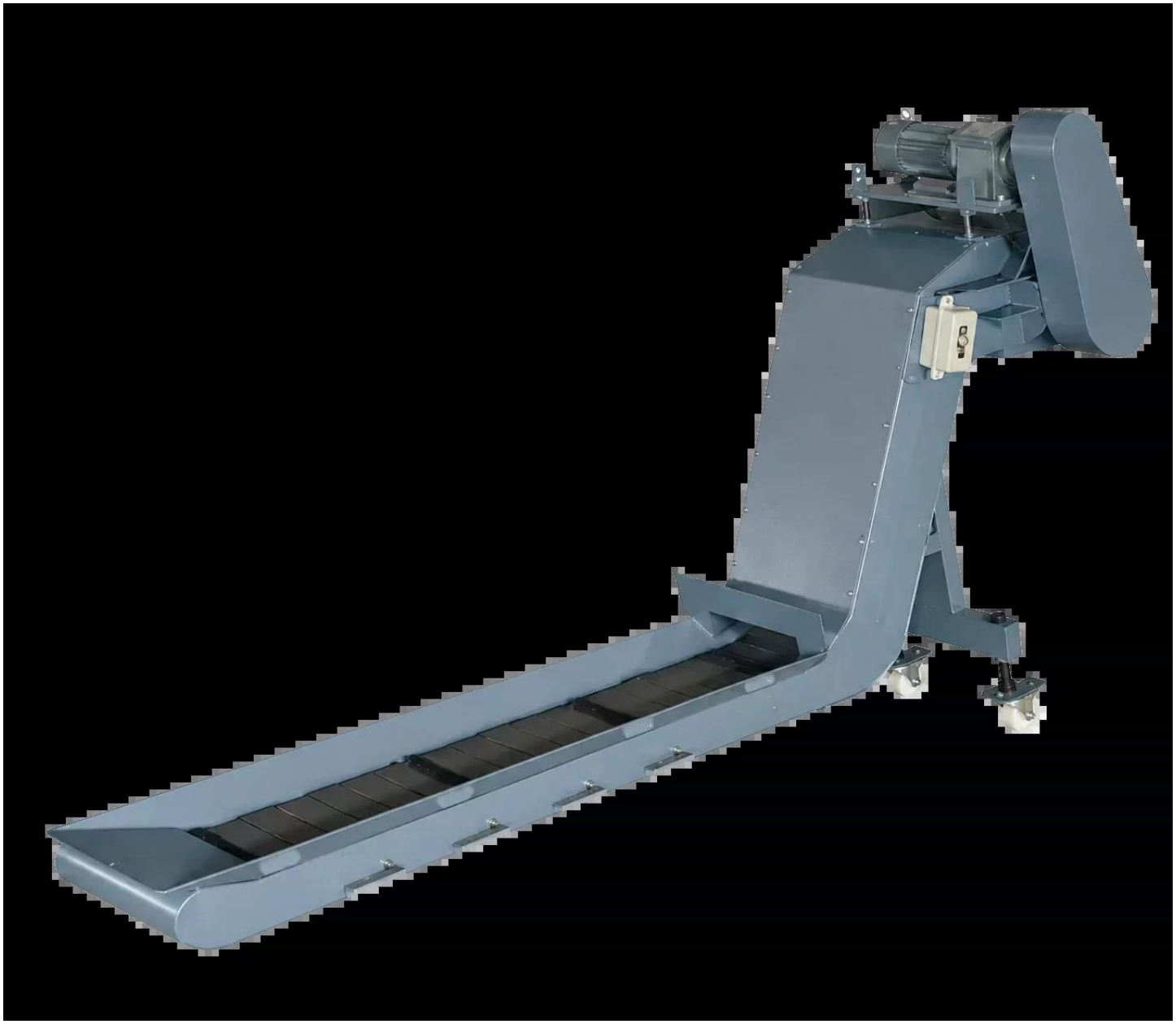
Bed

KARTA PRODUKTOWA



Worktable

KARTA PRODUKTOWA



Chip Conveyor
Machine Construction

Portal CNC Construction for Stable Machining of Very Large Workpieces

The DM-3000CNC 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-scale components and maintains accuracy across the entire working area.

The wide box-type bed provides high table load capacity and stable workpiece support. The 3000 × 4000 mm worktable allows clamping of very wide plates, moulds, housings and welded structures, while the

optional 6000 mm length increases the capacity for working with longer components.

The machine is equipped with an efficient 35 kW milling spindle, CNC system, automatic forced guideway lubrication system and the possibility of using a chip conveyor. As a result, the DM-3000CNC is suitable for heavy-duty large-scale machining, machine production, moulds, plates and large housings.

Technical Features

Key Features of the DM-3000CNC

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 35 kW milling spindle enables effective milling, drilling and machining of very large surfaces.

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

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

3000 × 4000 mm table provides space for machining very wide plates, moulds, frames and housings.

3600 mm distance between the columns enables convenient work with very wide workpieces and welded structures.

Equipment and Configuration

Working Components and Equipment of the DM-3000CNC Model

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

Milling spindle — powerful 35 kW spindle for heavy-duty machining of faces, holes and mounting surfaces.

KARTA PRODUKTOWA

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

Worktable — 3000 × 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-3000CNC gantry centre suitable?

The DM-3000CNC is designed for plants performing heavy-duty large-scale machining, machine production, machining of very large 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-3000CNC Specifications

Technical Specifications of the DM-3000CNC Model

Model **DM-3000CNC**
Machine Type **CNC Gantry Machining Centre**
Construction **Gantry Machining Centre**

KARTA PRODUKTOWA

Control **CNC, possibility of contour milling with simultaneous 3-axis control**
Table Dimensions **3000 × 4000 mm**
Optional Table Dimensions **3000 × 6000 mm**
Distance Between Columns **3600 mm**
X-Axis Travel **4000 mm / optional 6000 mm**
Y-Axis Travel **3000 mm / optional 3600 mm**
Z-Axis Travel **1200 mm**
Spindle Speed **2–1600 rpm / optional 2500 rpm**
Spindle Motor Power **35 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**