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Digima BK5035 CNC Metal Slotting Machine

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Digima BK5035 — CNC metal slotting machine for producing keyways, internal splines, blind holes and internal keyway channels.

CNC Metal Slotting Machine

Digima BK5035 CNC Metal Slotting Machine

Professional CNC slotting machine with a 350 mm stroke, a 750 × 510 mm table and 5.5 kW motor power

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Digima BK5035 is a CNC metal slotting machine designed for precision machining of keyways, internal splines, blind holes and internal keyway channels. It is ideal for manufacturing mechanical components, toolrooms, metalworking facilities and maintenance departments.

The BK5035 model features a **maximum ram stroke of 350 mm**, stroke adjustment of **300 mm**, a ram stroke rate of **0–70 strokes/min** and a **750 × 510 mm** working table. X/Y axis drives with a torque of **10 N·m / 15 N·m** and rapid traverse of **5 m/min** support stable machining of repeatable workpieces.

350
Maximum Ram Stroke
350 mm
CNC
Control
CNC
5.5
Main Motor Power
5,5 kW
4600
Machine Weight
4600 kg
BK5035 version for precision machining of keyways and splines.

The 350 mm ram stroke, 750 × 510 mm working table and CNC control enable efficient production of keyways, splines and internal channels in metal components.

Product Gallery

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Machine View

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Construction and Working Area

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CNC Control

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Examples of Finished Workpieces after Machining
Machine Characteristics

CNC Slotting Machine for Keyways, Internal Splines and Internal Machining

The Digima BK5035 CNC slotting machine is designed for machining components that require accurate production of grooves, channels, splines and internal recesses. The CNC system increases repeatability, reduces workpiece setup time and streamlines production runs.

Maximum ram stroke of 350 mm — allows grooves and channels to be produced in metal components with greater depth.

Stroke adjustment of 300 mm — enables the ram operation to be matched to the workpiece and required geometry.

Ram stroke rate of 0–70 strokes/min — matching the parameters to the material and machining type.

Working table 750 × 510 mm — a stable surface for clamping workpieces and tooling.

X/Y table travel 350 × 400 mm — convenient workpiece positioning relative to the slotting tool.

X/Y axis drives 10 N·m / 15 N·m — stable axis control during CNC machining.

X/Y rapid traverse 5 m/min — efficient setup and movement between working positions.

Weight of 4600 kg — the heavy construction reduces vibration and increases stability during slotting.

Machining Process

How does the BK5035 CNC slotting machine work?

Operation on the slotting machine consists of clamping the workpiece on the table, setting the tool, selecting the program and machining parameters, and performing slotting with reciprocating motion. CNC control facilitates repeatable machining of grooves, channels and splines in mechanical components.

1

Workpiece Clamping

The workpiece is clamped on the 750 × 510 mm working table using suitable tooling and aligned with the machining axes.

2

CNC Programming

The operator sets the operating parameters and selects the ram stroke, feeds and working positions appropriate for the workpiece.

3

Slotting the Component

The machine machines keyways, internal splines, internal channels or blind holes according to the selected program.

Applications

What is the Digima BK5035 suitable for?

Grooves and Channels

- Keyways.

- Internal channels.
- Blind holes.
- Technical recesses and cut-outs.

Splines and Profiles

- Internal splines.
- Machining of formed profiles.
- Power transmission components.
- Precision machining of technical workpieces.

Industrial Production

- Manufacturing machine parts.
- Automotive industry.
- Machinery and electrical industries.
- Components for aerospace and technical industries.

CNC and Safety

CNC Control and Stable Machine Construction

CNC control makes machining programming easier and improves operational repeatability. Thanks to its solid construction, powerful main motor and practical ram stroke, the BK5035 machine is suitable for demanding slotting operations.

CNC control — convenient control of machining parameters and machine axes.

Ram stroke of 350 mm — enables machining of larger and deeper workpieces.

5.5 kW motor power — sufficient power reserve for intensive machining.

Heavy 4600 kg construction — stable metalworking operation and reduced vibration.

Technical Specifications

Technical Parameters — Digima BK5035 CNC Slotting Machine

Model**BK5035**
Machine Type**CNC metal slotting machine / CNC slotter**

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Brand**Digima**
Applications**Keyways, internal splines, blind holes, internal keyway channels**
Maximum Ram Stroke**350 mm**
Ram Stroke Adjustment**300 mm**
Ram Stroke Rate**0–70 strokes/min**
Working Table Dimensions**750 × 510 mm**
X/Y Table Travel**350 × 400 mm**
Distance from the tool support bore axis to the front face of the column**625 mm**
Distance from the lower surface of the ram guide to the table**680 / 830 mm**
X-Axis Motor Torque**10 N·m**
Y-Axis Motor Torque**15 N·m**
X-Axis Rapid Traverse**5 m/min**
Y-Axis Rapid Traverse**5 m/min**
X-Axis Ball Screw**FFZD4010-3/P4**
Y-Axis Ball Screw**FFZD4010-3/P4**
Main Motor Power**5,5 kW**
Packaging / Transport Dimensions**2600 × 2300 × 2500 mm**
Machine Weight**4600 kg**

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