



KARTA PRODUKTOWA

Digima BK5040 CNC Metal Slotting Machine





Digima BK5040 – CNC metal slotting machine for making keyways, splines, blind holes and internal keyway channels.

CNC Metal Slotting Machine

Digima BK5040 CNC Metal Slotting Machine

Professional CNC slotting machine with a 400 mm stroke, 750 × 510 mm table and 5.5 kW motor power



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Digima BK5040 is a CNC metal slotting machine designed for precise machining of keyways, splines, blind holes and internal keyway channels. The machine is suitable for mechanical component production, toolrooms, metalworking plants and maintenance departments.

The BK5040 model features a **maximum ram stroke of 400 mm**, stroke adjustment of **300 mm**, a ram movement range of **20–70 strokes/min** and a **750 × 510 mm** work table. X/Y axis drives with torque of **10 N·m / 15 N·m** and rapid traverse of **5 m/min** support stable machining of repeatable parts.

400

Maximum Ram Stroke

400 mm

CNC

Control

CNC

5.5

Main Motor Power

5.5 kW

5400

Machine Weight

5400 kg

BK5040 Version for Heavier and More Stable Slotting Operations.

A larger ram stroke, greater machine weight and more powerful main motor allow efficient work with demanding technical parts.

Product Gallery

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Machine View

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Construction and Work Area

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CNC Control



Examples of Finished Parts After Machining
Machine Features

CNC Slotting Machine for Keyways, Splines and Internal Machining

The Digima BK5040 CNC slotting machine has been designed for machining components requiring accurate production of grooves, channels, splines and internal seats. The CNC system helps increase work repeatability, reduce part setup time and streamline production series.

Maximum ram stroke of 400 mm – allows deeper keyways and channels to be made in larger metal components.

300 mm stroke adjustment – allows the ram operation to be adapted to the machined part and required geometry.

Ram movement range of 20–70 strokes/min – parameters can be matched to the material and machining type.

750 × 510 mm work table – a stable surface for mounting workpieces and tooling.

X/Y table travel 320 × 400 mm – convenient positioning of the part relative to the slotting tool.



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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 travel between working positions.

5400 kg weight – the heavy structure reduces vibrations and increases stability during slotting.

Machining Process

How Does the BK5040 CNC Slotting Machine Work?

Work on the slotting machine involves clamping the part on the table, setting the tool, selecting the program and machining parameters, and performing slotting with a reciprocating motion. CNC control makes repeatable machining of keyways, channels and splines in mechanical components easier.

1

Part Clamping

The part is clamped on the 750 × 510 mm work table using appropriate tooling and positioned relative to the machining axis.

2

CNC Programming

The operator sets the working parameters, selects the ram stroke, feeds and working positions suitable for the machined part.

3

Slotting the Component

The machine performs machining of keyways, splines, internal channels or blind holes according to the set program.

Applications

What Is the Digima BK5040 Suitable For?

Keyways and Channels

- Keyways.



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- Internal channels.
- Blind holes.
- Technological seats and recesses.

Splines and Profiles

- Internal splines.
- Machining of shaped profiles.
- Drive transmission components.
- Precision machining of technical parts.

Industrial Production

- Machine part production.
- Automotive industry.
- Machine and electrical industry.
- Components for the aerospace and technical industries.

CNC and Safety

CNC Control and Stable Machine Structure

CNC control makes machining programming easier and increases work repeatability. Thanks to its heavy structure, more powerful main motor and large ram stroke, the BK5040 machine is suitable for more demanding slotting operations.

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

Larger 400 mm ram stroke – enables work with larger and deeper parts.

5.5 kW motor power – greater power reserve for intensive machining.

Heavy 5400 kg construction – stable operation during metal machining and reduced vibrations.

Technical Specification

Technical Parameters of the Digima BK5040 CNC Slotting Machine

Model **BK5040**

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



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Brand**Digima**

Applications**Keyways, splines, blind holes, internal keyway channels**

Maximum Ram Stroke**400 mm**

Ram Stroke Adjustment**300 mm**

Number of Ram Strokes**20–70 strokes/min**

Work Table Dimensions**750 × 510 mm**

X/Y Table Travel**320 × 400 mm**

Distance from the Tool Support Hole Axis to the Column Face**625 mm**

Distance from the Lower Surface of the Ram Guide to the Table**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**FFZD4010-5/P3**

Y-Axis Ball Screw**FFZD4010-5/P3**

Main Motor Power**5.5 kW**

Packaging / Transport Dimensions**2800 × 2300 × 2800 mm**

Machine Weight**5400 kg**