



## KARTA PRODUKTOWA

---

### Digima BK5030 CNC Metal Slotting Machine





Digima BK5030 – CNC metal slotting machine for producing keyways, internal splines, blind holes and internal keyway channels.

CNC Metal Slotting Machine

## Digima BK5030 CNC Metal Slotting Machine

Professional CNC Slotting Machine with 300 mm Stroke, 550 × 410 mm Table and 3.7 kW Motor Power



## KARTA PRODUKTOWA

---

**Digima BK5030** is a CNC metal slotting machine designed for precise machining of keyways, internal splines, blind holes and internal keyway channels. The machine is suitable for mechanical component production, toolrooms, metalworking facilities and maintenance departments.

The BK5030 model features a **300 mm maximum ram stroke**, a **260 mm stroke adjustment**, a ram stroke rate of **30–120 strokes/min** and a **550 × 410 mm** working table. X/Y axis drives with torque of **6 N·m / 6 N·m** and **5 m/min** rapid traverse support stable machining of repeatable workpieces.

300

Maximum Ram Stroke

300 mm

CNC

Control

CNC

3.7

Main Motor Power

3,7 kW

2800

Machine Weight

2800 kg

**BK5030 Version for Precision Machining of Keyways, Channels and Internal Splines.**

A 300 mm ram stroke, 550 × 410 mm working table and CNC control enable repeatable slotting operations on metal components.

Product Gallery

## KARTA PRODUKTOWA

---



Machine View

## KARTA PRODUKTOWA



Construction and Working Area

## KARTA PRODUKTOWA



CNC Control



Examples of Finished Workpieces after Machining  
Machine Characteristics

### CNC Slotting Machine for Keyways, Internal Splines and Internal Machining

The Digima BK5030 CNC slotting machine is designed for machining components requiring precise production of keyways, channels, internal splines and internal recesses. The CNC system increases repeatability, reduces workpiece setup time and streamlines production batch execution.

**300 mm maximum ram stroke** – enables keyways and channels to be machined in metal components at practical depths.

**260 mm stroke adjustment** – enables ram operation to be matched to the workpiece and required geometry.

**30–120 strokes/min ram stroke rate** – a wide operating range for matching machining to the material.

**550 × 410 mm working table** – a stable surface for clamping workpieces and tooling.

**250 × 300 mm X/Y table travel** – convenient workpiece positioning relative to the slotting tool.



## KARTA PRODUKTOWA

---

**6 N·m / 6 N·m X/Y axis drives** – stable axis control during CNC machining.

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

**2800 kg machine weight** – robust construction reduces vibration and increases stability during slotting.

### Machining Process

#### How Does the BK5030 CNC Slotting Machine Work?

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

1

#### Workpiece Clamping

The workpiece is clamped on the 550 × 410 mm working table using suitable tooling and set relative to the machining axes.

2

#### CNC Programming

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

3

#### Component Slotting

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

### Applications

#### What Is the Digima BK5030 Suitable For?

#### Keyways and Channels

- Keyways.



## KARTA PRODUKTOWA

---

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

### Internal Splines and Profiles

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

### Industrial Production

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

### CNC and Stability

### CNC Control and Stable Machine Construction

CNC control facilitates machining programming and increases repeatability. Thanks to its robust construction, 3.7 kW main motor and practical ram stroke, the BK5030 machine is suitable for precision slotting operations.

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

**300 mm ram stroke** – enables work with components requiring keyways and internal channels.

**3.7 kW motor power** – suitable power for stable machining of keyways and internal splines.

**2800 kg construction** – stable operation during metal machining and reduced vibration.

### Technical Specifications

### Technical Parameters of the Digima BK5030 CNC Slotting Machine

Model **BK5030**

Machine Type **CNC Metal Slotting Machine / CNC Slotter**



## KARTA PRODUKTOWA

---

### Brand**Digima**

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

Maximum Ram Stroke**300 mm**

Ram Stroke Adjustment**260 mm**

Ram Stroke Rate**30–120 strokes/min**

Working Table Dimensions**550 × 410 mm**

X/Y Table Travel**250 × 300 mm**

Distance from Tool Support Hole Axis to Column Face**505 mm**

Distance from Lower Ram Guide Surface to Table**540 / 690 mm**

X-Axis Motor Torque**6 N·m**

Y-Axis Motor Torque**6 N·m**

X-Axis Rapid Traverse**5 m/min**

Y-Axis Rapid Traverse**5 m/min**

X-Axis Ball Screw**FFZD3205-3/P4**

Y-Axis Ball Screw**FFZD3205-3/P4**

Main Motor Power**3,7 kW**

Packaging / Transport Dimensions**2300 × 2200 × 2300 mm**

Machine Weight**2800 kg**