



KARTA PRODUKTOWA

Digima BK5035A CNC Metal Slotting Machine





Digima BK5035A – CNC metal slotting machine for producing keyways, internal splines, blind holes and internal keyway channels.

CNC Metal Slotting Machine

Digima BK5035A CNC Metal Slotting Machine

Professional CNC slotting machine with a 350 mm stroke, 800 × 610 mm table and GSK 980MDi control



KARTA PRODUKTOWA

Digima BK5035A 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 BK5035A model features a **maximum ram stroke of 350 mm**, stroke adjustment of **300 mm**, a ram stroke rate of **0–90 strokes/min** and an **800 × 610 mm** working table. X/Y axis drives with a torque of **7.7 N·m** and rapid traverse of **12 m/min** support efficient machining of repeatable workpieces.

350

Maximum Ram Stroke

350 mm

CNC

Control

GSK 980MDi

3.7

Main Motor Power

3,7 kW

3600

Machine Weight

3600 kg

Additional cost for the full machine enclosure: PLN 5,000 net.

The full enclosure increases workplace safety and reduces the spread of coolant and chips during machining.

Product Gallery



KARTA PRODUKTOWA



Machine View



KARTA PRODUKTOWA



Construction and Working Area

KARTA PRODUKTOWA



GSK 980MDi CNC Controller



Examples of Finished Workpieces after Machining
Machine Characteristics

CNC Slotting Machine for Keyways, Internal Splines and Internal Machining

The Digima BK5035A 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 deeper grooves and channels to be produced in larger metal components.

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

Ram stroke rate of 0–90 strokes/min — flexible matching of parameters to the material and machining type.

Working table 800 × 610 mm — a stable surface for clamping workpieces and tooling.

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



KARTA PRODUKTOWA

X/Y axis drives 7.7 N·m – stable axis control during CNC machining.

X/Y rapid traverse 12 m/min – faster setup and movement between working positions.

Weight of 3600 kg – the heavy construction reduces vibration and increases stability during slotting.

Machining Process

How does the BK5035A 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 800 × 610 mm working table using suitable tooling and aligned with the machining axes.

2

CNC Programming

The operator sets operating parameters on the GSK 980MDi controller and selects the ram stroke, feeds and working positions.

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 BK5035A suitable for?

Grooves and Channels

- Keyways.



KARTA PRODUKTOWA

- 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

GSK 980MDi Control and Optional Full Enclosure

The use of GSK 980MDi CNC control makes programming easier and improves operational repeatability. The machine can be equipped with a full enclosure that helps protect the working area and improves operator comfort during slotting.

GSK 980MDi controller — convenient control of machining parameters and machine axes.

Optional 4th axis — the ability to expand the machine's functionality for special workpieces and more advanced machining.

Additional cost for the full enclosure — the full enclosure costs PLN 5,000 net.

Heavy 3600 kg construction — stable metalworking operation and reduced vibration.

Technical Specifications



KARTA PRODUKTOWA

Technical Parameters – Digima BK5035A CNC Slotting Machine

Model **BK5035A**

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

Brand **Digima**

CNC Control **GSK 980MDi**

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

Maximum Ram Stroke **350 mm**

Ram Stroke Adjustment **300 mm**

Ram Stroke Rate **0–90 strokes/min**

Working Table Dimensions **800 × 610 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 mm for the 800 × 610 mm rectangular table / 580 mm for the Ø630 mm round table**

X-Axis Motor Torque **7,7 N·m**

Y-Axis Motor Torque **7,7 N·m**

X-Axis Rapid Traverse **12 m/min**

Y-Axis Rapid Traverse **12 m/min**

X-Axis Ball Screw **FFZD3206**

Y-Axis Ball Screw **FFZD4006**

Main Motor Power **3,7 kW**

Packaging / Transport Dimensions **2700 × 2250 × 2700 mm**

Machine Weight **3600 kg**

Additional Cost for Full Enclosure **PLN 5,000 net**

.