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Digima B5020D Slotting Machine





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Digima B5020D – metal slotting machine with a 460 mm rotary table, 3 kW power and a maximum slotting length of 200 mm.

Metal Slotting Machine

Digima B5020D Slotting Machine

Professional Vertical Slotting Machine with 460 mm Rotary Table, 3 kW Power and Stroke up to 200 mm

Digima B5020D is a robust metal slotting machine designed for precise machining of keyways, channels, formed surfaces and slotting operations in steel and cast-iron components. The machine is designed for toolrooms, production facilities, maintenance departments and single-piece or batch machining.

The B5020D model offers a **maximum slotting length of 200 mm**, four ram stroke speeds of **32 / 50 / 80 / 125 strokes/min**, a rotary table with a diameter of **460 mm** and a stable construction weighing **2200 kg**.

200

Maximum Slotting Length

200 mm

460

Working Table Diameter

460 mm

3kW

Main Motor Power

3 kW / 400 V

2200

Net Machine Weight

2200 kg

Rigid Construction, Rotary Table and 4 Stroke-Speed Ranges.

The B5020D enables stable slotting of keyways, channels and profiles in metal, while the machine's substantial weight supports vibration damping when working with heavier workpieces.

Machine Characteristics

Vertical Slotting Machine for Precision Metal Machining

The Digima B5020D slotting machine is designed for machining components requiring keyways, channels and formed surfaces. Thanks to the vertical ram movement, the cutting tool performs a repeatable working motion, enabling machining of features difficult to produce using conventional milling methods.

200 mm maximum slotting length – suitable for machining deeper keyways and channels in metal



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components.

4 ram stroke speeds – 32, 50, 80 and 125 strokes/min allow working dynamics to be matched to the material.

460 mm rotary table – facilitates workpiece setup and machining at different angles.

400 kg maximum table load – enables work with heavier workpieces and stable clamping.

0–8° ram inclination – allows the tool setup to be matched to machining requirements.

18 mm T-slot – enables secure clamping of workpieces, fixtures and tooling on the table.

Powerful 3 kW main drive – stable operation during machining of steel, cast iron and other metals.

2200 kg weight – the substantial machine mass reduces vibration and increases operational safety.

Machining Process

How Does the B5020D Slotting Machine Work?

Operation of the slotting machine involves clamping the workpiece on the working table, setting the tool, selecting the appropriate stroke speed and performing machining with a reciprocating motion. The adjustable table and ram allow the workpiece position to be matched to the required keyway or channel geometry.

1

Workpiece Clamping

The workpiece is clamped on the 460 mm rotary working table using the 18 mm T-slot and suitable tooling.

2

Tool Setup

The operator selects the slotting tool, sets the ram, its optional 0–8° inclination and the table-feed parameters.



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3

Keyway Slotting

The machine performs machining with a vertical motion, while table feed enables the required length and shape of the machined surface to be achieved.

Applications

What Is the Digima B5020D Suitable For?

Keyways and Channels

- Keyways.
- Internal and external channels.
- Technical recesses and cut-outs.
- Machining of formed surfaces.

Workshop and Toolroom

- Single-piece production.
- Machine-part refurbishment.
- Tooling production.
- Maintenance work.

Metal Production

- Machining steel and cast iron.
- Preparation of mechanical components.
- Production of technical parts.
- Machining workpieces up to 400 kg on the table.

Safety and Stability

Construction Prepared for Heavy Workshop Duty

The machine weight of 2200 kg increases stability during machining and helps damp vibration. As a result, the B5020D is suitable for slotting components requiring precision, repeatability and secure clamping. The 460 mm diameter working table with a load capacity of up to 400 kg enables work with substantial workpieces.



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High machine weight – a stable operating base and reduced vibration during slotting.

Table with T-slot – secure workpiece and tooling clamping.

Separate rapid-feed motor – 0.75 kW power supports fast axis repositioning.

Operating speed adjustment – 4 stroke-speed ranges allow safer work with different materials.

Technical Specifications

Technical Parameters of the Digima B5020D Slotting Machine

Model **B5020 / B5020D**

Machine Type **Metal Slotting Machine / Vertical Slotter**

Brand **Digima**

Manufacturer Code **B5020**

Condition **New**

Supply Voltage **400 V**

Maximum Power **3000 W**

Main Motor Power **3 kW**

Rapid-Feed Motor Power **0,75 kW**

Maximum Slotting Length **200 mm**

Ram Stroke Rate **32 / 50 / 80 / 125 strokes/min**

Number of Stroke-Speed Ranges **4 speed ranges**

Ram Inclination Range **0–8°**

Working Table Diameter **460 mm**

Vertical Adjustment Range of Ram Block **200 mm**

Distance from Tool Holder Face to Column **480 mm**

Distance from Table Surface to Lower Part of Ram Guideway **320 mm**

Maximum Longitudinal Table Travel **420 mm**

Maximum Cross Table Travel **420 mm**

Maximum Table Rotation Angle **360°**

Table Feed Range **0.054–1.24 mm/stroke**

Rotary Table Feed Range **0,035–0,805°**

Maximum Slotting Tool Size **25 × 40 mm**

Maximum Slotting Force **5 kN**

Maximum Table Load **400 kg**

T-Slot Width at Table Centre **18 mm**

Net Machine Weight **2200 kg**

Product Weight with Individual Packaging **2200 kg**



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Packaging / Transport Dimensions **1720 × 1220 × 1885 mm**

Packaging Condition **Original**