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Digima PBH 80x2000 mm 7.5 kW 80T hydraulic press brake





; Machine description

Hydraulic Press Brake PBH-80x2000 mm

7.5 kW / 80T – precise sheet metal bending to industrial standards

Digima PBH 80x2000 mm 7.5 kW 80T hydraulic press brake is a robust hydraulic press brake designed for precise sheet metal bending in single-piece, workshop and serial production.

The machine is equipped with **Estun E21**, which enables convenient programming of bending parameters, backgauge position, depth and working angle. This allows the operator to achieve high repeatability of parts and consistent bending quality.

The movement of the bending beam is hydraulically controlled, ensuring smooth operation, high pressing force and comfortable handling even in demanding production tasks.

T
Maximum pressing force
80 T / 800 kN

⊠
Working bending length
2000 mm



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Motor power

7.5 kW



Control system

Estun E21

Digima PBH-80x2000 is more than just a press brake.

It is a tool for controlling precision, safety and bending repeatability in everyday production.

Why choose Digima PBH-80x2000?



Precise bending

Control of operating parameters ensures high repeatability of parts.

E21

Estun E21 controller

Easy operation, programming and backgauge position control.

80

High pressing force

80 tonnes of pressing force enables demanding bending operations.

BHP

Operational safety

Guards, limit switches and safety controls enhance operator protection.

- High-precision backgauge position control.
- Intelligent position control for bending process optimisation.
- Recall functions enabling a quick return to previous settings.
- Automatic reference-point search, reducing setup time.
- Backup and restoration of parameters using a single identifier.
- Fast position indexing for efficient serial production.
- Memory for 40 machining programs, each with up to 25 steps.



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- Power-loss protection ensuring data safety and operational continuity.

Technical specifications

Machine type **Press Brake**

Manufacturer code **PBH-80x2000**

Brand **Digima**

Nominal pressing force **800 kN / 80 tonnes**

Maximum pressing force **80 t**

Working bending length **2000 mm**

Distance between columns **1500 mm**

Throat depth / reach **250 mm**

Ram stroke **120 mm**

Maximum opening height **370 mm**

X-axis / backgauge speed **80 mm/s**

Fast approach speed / Y-axis **60 mm/s**

Working bending speed / Y-axis **15 mm/s**

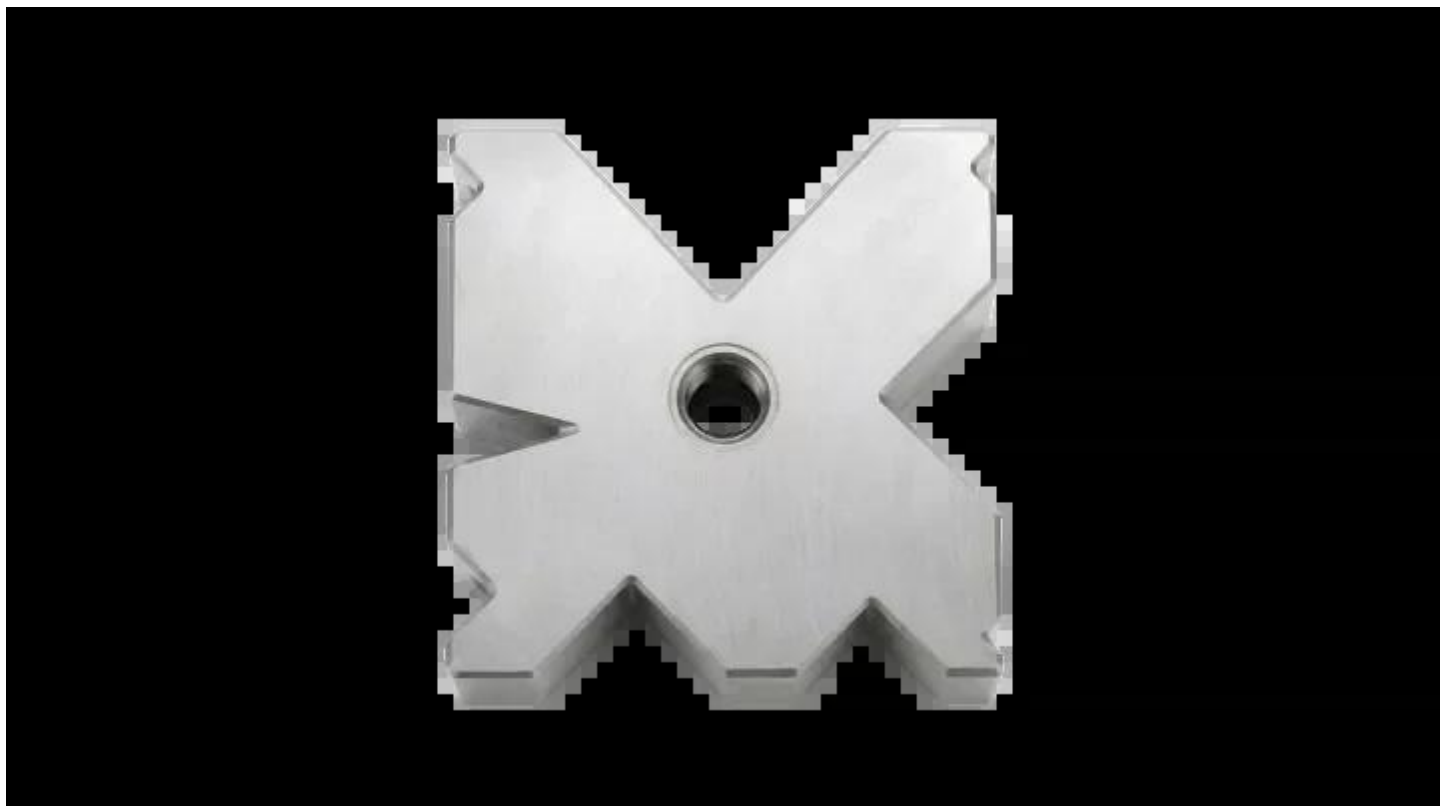
Return speed / Y-axis **60 mm/s**

Motor power **7.5 kW**

Weight **4800 kg**

Dimensions L × W × H **2500 × 1550 × 2200 mm**

Bending tools included



Multi-V die

The multi-V die for a press brake is designed for bending sheet metal of various thicknesses and at different bending angles. It has several working grooves with different widths and radii, allowing the appropriate groove to be selected without replacing the tool. Made of high-strength tool steel, it ensures durability, wear resistance and bending precision.



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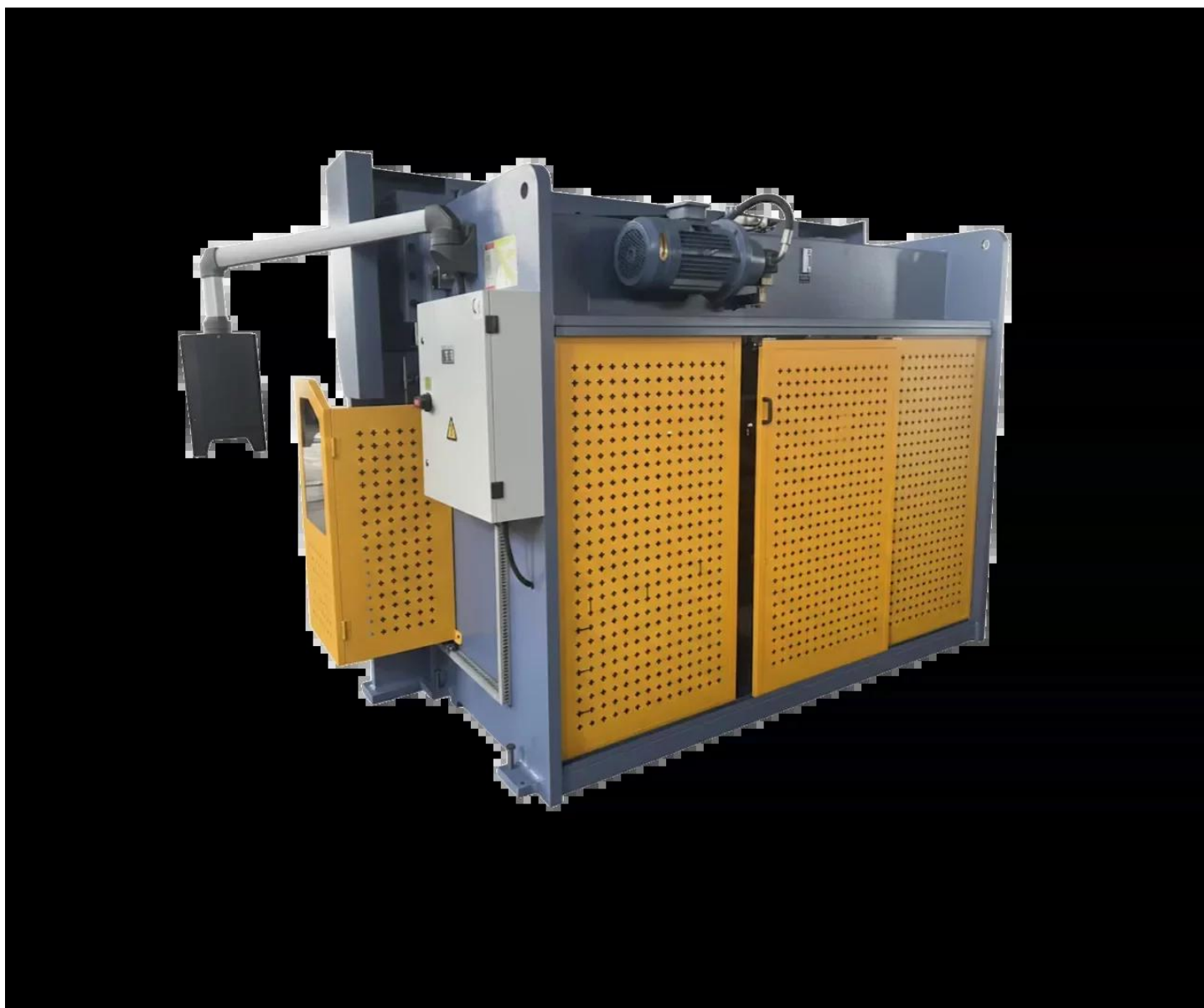
Press brake punch

The punch is designed for precise sheet metal bending in accordance with technical documentation. The tool is made of high-grade tool steel, resistant to wear and deformation. The punch working profile features bending radii and chamfers that allow the required angles and part shapes to be achieved. The set consists of 4 pieces.

Safety and control

Safety guards and Estun E21 controller

The Digima PBH-80x2000 press brake is equipped with solutions that improve operator safety, facilitate machine operation and support precise control of the bending process.



Side and rear safety guards

The guards are designed to secure the machine working area. They are equipped with a safety limit switch that immediately shuts down the machine when opened. This solution effectively prevents access to hazardous components during operation and supports compliance with occupational safety requirements.



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Estun E21 controller

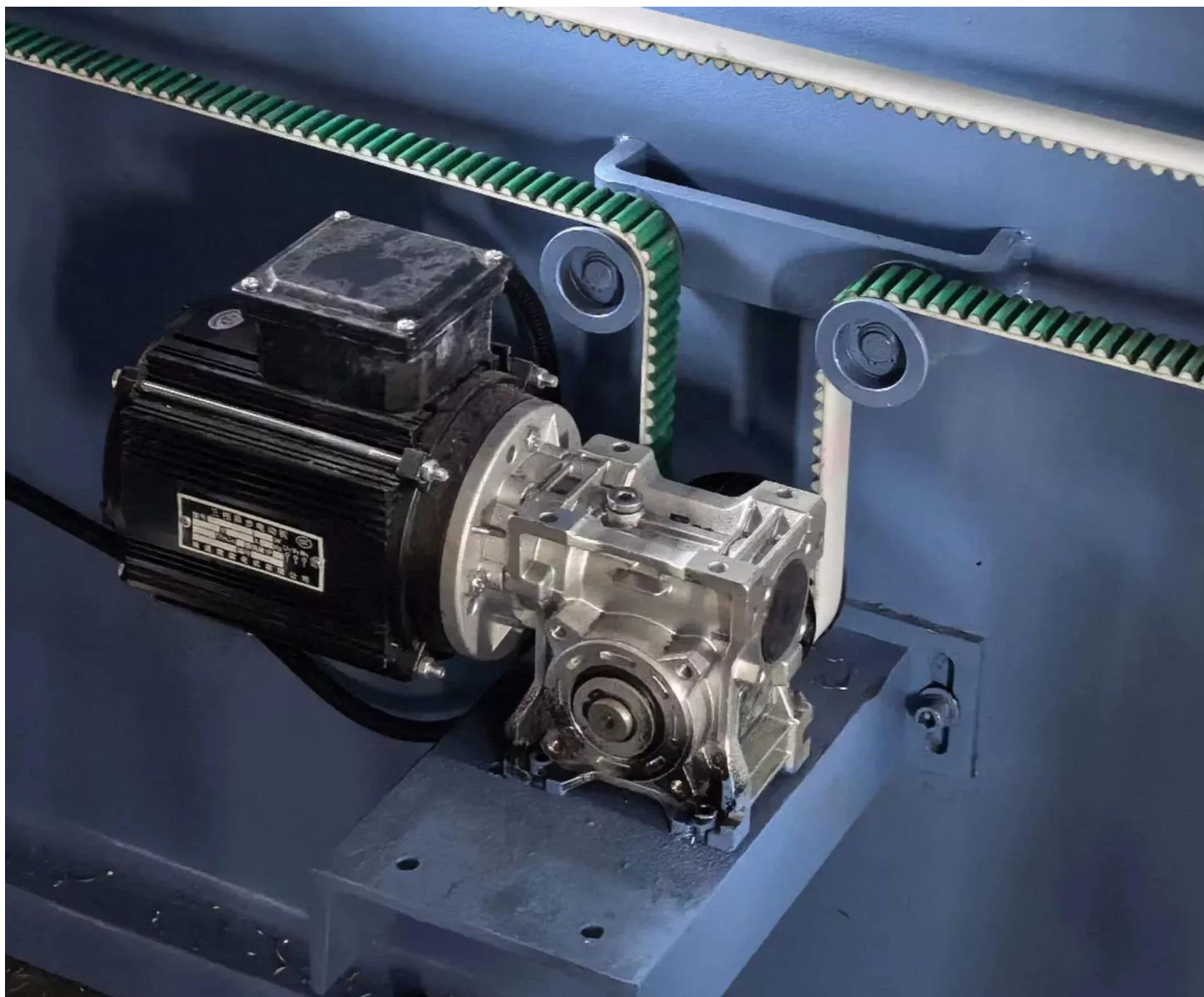
The Estun E21 controller enables convenient programming and monitoring of the bending process. The operator can set operating parameters, control the backgauge position and use the machining program memory. This solution improves repeatability, accuracy and everyday operating comfort with the press brake.

Key equipment components



Ball screws and linear guides

Precision ball screws combined with linear guides ensure smooth, accurate movement of components, minimal backlash and high bending repeatability.



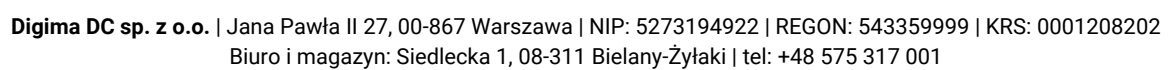
Toothed belt

The toothed belt is responsible for mechanical drive and synchronisation of machine-axis movement. It ensures stable power transmission, quiet operation and precise motion control.



AMADA quick clamping

The Quick Clamping system allows tools and working components to be changed quickly, saving time and increasing productivity.



Schneider Electric and Lintech electrical cabinet

The electrical cabinet, equipped with high-quality components, ensures reliable power supply, precise control and installation safety.



Rexroth hydraulic distributor

The Rexroth hydraulic distributor provides precise oil-flow control in the hydraulic system and reliable operation in demanding conditions.



Backgauge fingers

Backgauge fingers are used to position the material before and during bending. The machine is supplied as standard with 4 pieces.