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Digima PBH 80x3200 mm 7.5kW 80T hydraulic press brake





Machine Description

Hydraulic Press Brake PBH-80x3200 mm

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

Digima PBH 80x3200 mm 7.5kW 80T hydraulic press brake is a robust hydraulic press brake designed for precise sheet metal bending in one-off, workshop and series 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 bending beam is hydraulically actuated, ensuring smooth operation, high pressing force and comfortable handling even in demanding production tasks.

T
Maximum pressing force
80 T / 800 kN

⊠
Bending length
3200 mm



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Motor power

7.5 kW



Control

Estun E21

Digima PBH-80x3200 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-80x3200?



Precision bending

Control of operating parameters enables 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

Work safety

Guards, limit switches and safety control increase 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 series production.
- Memory for 40 machining programs, each with up to 25 steps.



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- Power-loss protection, ensuring data security and operational continuity.

Technical specifications

Model **Press Brake**

Manufacturer code **PBH-80x3200**

Brand **Digima**

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

Maximum pressing force **80 t**

Working table length **3200 mm**

Distance between columns **2660 mm**

Throat depth **250 mm**

Ram stroke **100 mm**

Maximum opening height **355 mm**

Ram adjustment range **80 mm**

Motor power **7.5 kW**

Weight **6600 kg**

Dimensions L × W × H **3280 × 1725 × 2240 mm**

Bending tools included





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Multi-V die

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



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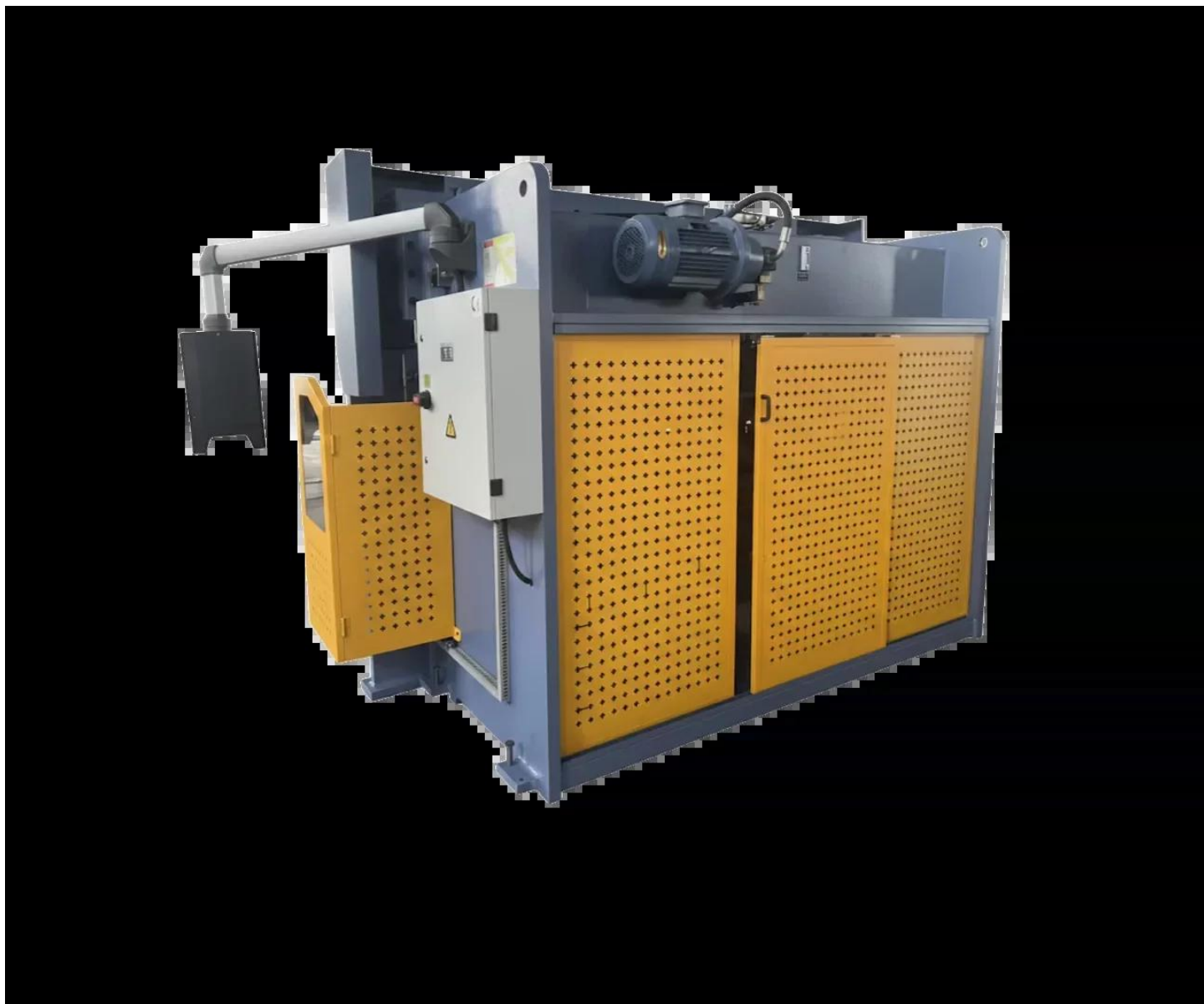
Press brake punch

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 enable 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 press brake PBH-80x3200 is equipped with solutions that improve operator safety, simplify 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 which causes immediate machine shutdown when opened. This solution effectively prevents access to hazardous parts during operation and supports compliance with health and safety requirements.



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Estun E21 controller

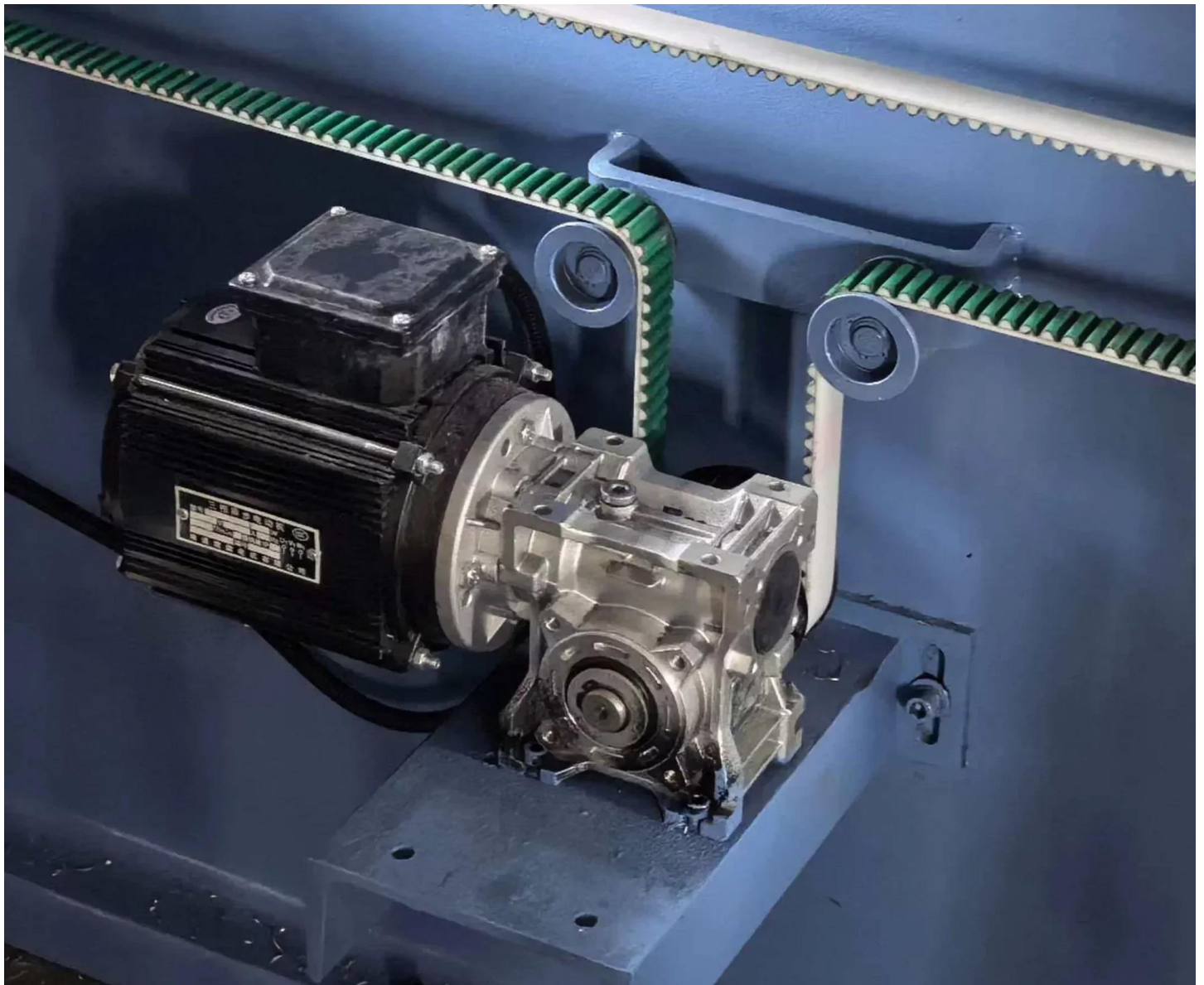
The Estun E21 controller enables convenient programming and control of the bending process. The operator can set operating parameters, control the backgauge position and use machining-program memory. This solution improves repeatability, accuracy and everyday operating convenience with the press brake.

Key equipment components



Ball screws and linear guides

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



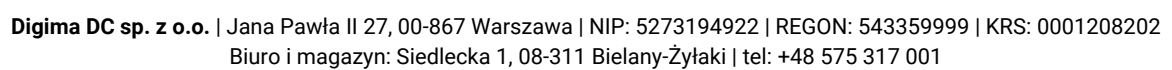
Timing belt

The timing belt is responsible for mechanical drive and synchronisation of the machine axes. It provides stable power transmission, quiet operation and precise motion control.



AMADA quick clamping

The Quick Clamping system enables fast changing of tools and working components, saving time and increasing productivity.



Schneider Electric and Lintech electrical cabinet

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



Rexroth hydraulic manifold

The Rexroth hydraulic manifold provides precise control of oil flow 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 fitted with 4 pieces as standard.