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Digima Iron Worker DX35Y-50 250T





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Digima Iron Worker DX35Y-50 hydraulic steel shears and punching machine – 250-ton press force, sheet cutting up to 50 mm

Hydraulic Steel Shears / Iron Worker

Digima Iron Worker DX35Y-50 250T

Multifunctional station for cutting, punching, shearing, notching and bending metal

Digima DX35Y-50 is an industrial-grade hydraulic **Iron Worker** machine, designed for intensive work in metalworking plants, manufacturing workshops and companies producing steel structures.

The machine combines several workstations in one compact design: **punching holes, sheet cutting, bar shearing, angle cutting, notching and bending**. This enables it to replace several separate machines, saving space and reducing production preparation time.

250T

Maximum pressing force

250 tonnes

50

Maximum cut sheet thickness

up to 50 mm

18.5

Main motor power

18.5 kW

45

Maximum punching diameter

Ø45 mm

One machine – multiple metalworking operations.

DX35Y-50 enables punching, cutting, shearing, notching and bending at one workstation, increasing production flexibility and reducing the need to invest in several separate machines.

Product photos

Main photo and 4 additional photos presenting the machine functions

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Hole punching station – 250-ton press force

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Hydraulic sheet shears – material cutting up to 50 mm

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Cutting steel angles, bars and profiles



Measuring table, stops and safety guards

Key benefits

Why choose the Digima Iron Worker DX35Y-50?

250-ton press force — extremely high working force for punching holes and machining the thickest steel materials.

Sheet cutting up to 50 mm — ability to work with very heavy steel sheets in workshop and industrial applications.

Multiple functions in one machine — punching, cutting, shearing, notching and bending without the need to use several separate machines.

Intuitive operation — fast operator onboarding and convenient switching between workstations.



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Low operating costs – the hydraulic working system provides high force with moderate energy demand.

Stable design – a machine designed for repetitive operations and intensive use in production.

Quick tool change – solutions that facilitate changeovers and reduce technological downtime.

Work safety – guards and safety components protect the operator from moving machine parts.

Working functions

Versatile metalworking at one station

Digima DX35Y-50 is equipped with dedicated stations for various processing operations. The machine enables punching holes, cutting sheet metal, shearing round and square bars, cutting angles and rectangular and V-type notching.

Hole punching – the maximum hole diameter in the standard configuration is Ø45 mm.

Sheet cutting – the maximum cut plate thickness is up to 50 mm.

Profile cutting – ability to work with angles, T-sections, I-beams and channel sections.

Notching – machining corners and rectangular and V-type cut-outs.

Bar shearing – work with round and square bars depending on the tooling.

Bending – ability to perform basic bending operations using appropriate tools.

Equipment

Configuration supporting accuracy, convenience and safety

The machine is prepared for everyday work in a production environment. Supporting equipment enables faster workpiece setup, stable material guidance and reduces the time needed to change operations.

Quick-change nut and clamping sleeve – quick tooling replacement during production changeovers.



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Angle arm with a precision scale – accurate positioning of the material in relation to the shears.

Electronic backgauge – support for serial cutting of components to a repeatable length.

Measuring table with stops – stable support and workpiece referencing.

Punching table base – a rigid foundation for a stable punching process.

Safety guards – safeguards protecting the operator from working components.

Applications

What work is the Iron Worker DX35Y-50 suitable for?

The Digima DX35Y-50 hydraulic punching machine is suitable for plants manufacturing steel structures, infrastructure components, machine components, construction machinery and parts requiring repeatable cutting, punching and profile machining.

Steel structures – cutting, punching and preparation of assembly components.

Metalworking workshops – a versatile machine for daily metalworking tasks.

Industrial production – serial machining of repeatable workpieces.

Construction machinery – preparation of sheet metal, profiles and structural components.

Infrastructure components – machining steel parts for technical structures.

Metalworking plants – space savings thanks to combining many functions in one machine.

Technical specifications

Digima DX35Y-50 technical parameters

Model **DX35Y-50**

Machine type **Hydraulic steel shears / Iron Worker punching machine**



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Brand **Digima**

Condition **New**

Maximum pressing force **250 tonnes**

Maximum cut plate thickness **50 mm**

Cutting angle **8°**

Working stroke range **50 × 300 mm do 30 × 750 mm**

Punching depth **40 mm**

Machined material strength **up to 450 N/mm²**

Main motor power **18.5 kW**

Throat depth **600 mm**

Maximum punching diameter **Ø45 mm**

Machine dimensions **3200 × 1440 × 2500 mm**

Operating frequency **6–12 cycles/min**

Main functions **Punching, sheet cutting, bar shearing, angle cutting, notching, bending**