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Lower blade for a 12x2500 hydraulic guillotine – 9CrSi tool steel

Hardness HRC 55–60

Digima professional lower blade for 12x2500 guillotines

Digima presents a powerful lower blade (fixed), designed for the most demanding cutting systems with 12x2500 specifications. It is a key component mounted directly onto the machine table, providing a stable cutting base capable of withstanding enormous pressures when processing thick sheets. Our Digima product is designed for high-power machines capable of precisely cutting sheet metal up to 12 mm thick and 2500 mm wide.

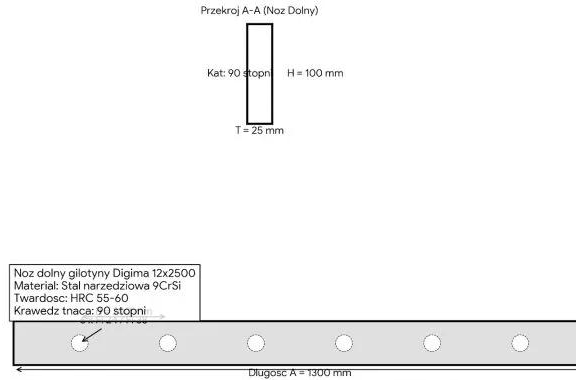
Detailed technical specifications of the Digima lower blade:

- **Blade type:** Lower blade, i.e. a stationary blade mounted in the guillotine table.
- **Intended use:** Industrial guillotine shears with a cutting capacity of up to 12 mm in thickness and 2500 mm in width.
- **Length of a single segment (A):** 1,300 mm.
- **Set configuration:** A full 2.5 m wide cutting line consists of 2 precisely matched Digima segments.



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RYSUNEK TECHNICZNY DIGIMA - NOZ DOLNY 12x2500



Analysis of the technical specifications of the Digima 12x2500 lower blade

The lower blade in the 12x2500 system is a highly rigid component that forms the cutting base for machines with a working width of 2500 mm. Thanks to the use of 1300 mm-long segments, the set ensures stability along the entire cutting line, even under maximum load when processing 12 mm-thick sheet metal. Below is a summary of the key technical data:

- **Geometry and design dimensions:**

Length of a single segment (A): 1300 mm. A full set for a 2500 mm machine consists of 2 such Digima segments.

Profile height (H): The blade is 100 mm high.

Blade thickness (T): The blade is 25 mm thick, which ensures extreme resistance to point loads.

Cutting edge angle: It is 90 degrees, which provides an optimal bearing surface for the upper blade.

- **Digima mounting system:**

Number of holes (n): Each segment is fitted with 6 mounting holes.

Axial hole spacing (B): Exactly 200 mm between the centres of adjacent holes.

Diameter of mounting holes: Through-holes with an enlarged diameter of 24 mm.

Screw sockets: They feature countersinks with a diameter of 38 mm, which allow the screw head to be completely concealed beneath the blade surface.

- **Material properties and manufacturing standards:**

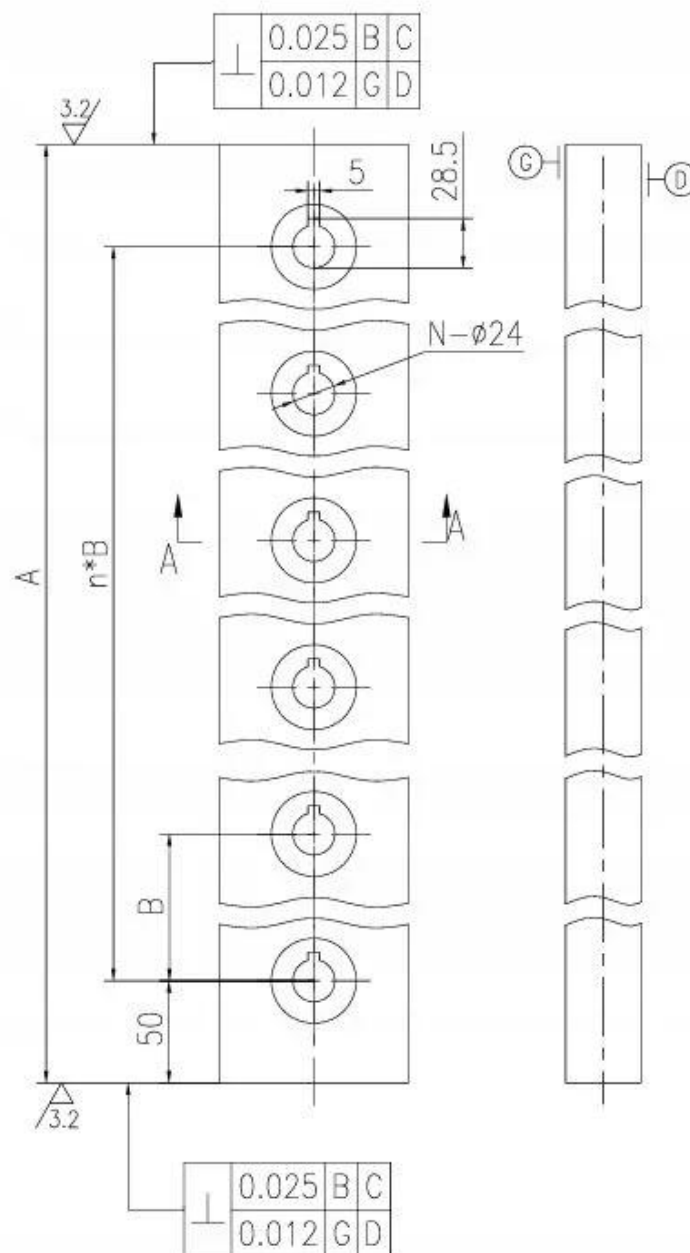
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Material grade: Made from 9CrSi high-alloy tool steel.

Working hardness: Hardened to between 55 and 60 HRC.

Quality control: Each segment undergoes non-destructive testing to rule out internal defects in the steel.

Technical recommendation: The blade is ground to a sharp edge and, in accordance with the documentation, it is strictly forbidden to blunt or round off the cutting edge.





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9CrSi high-alloy tool steel and the durability of Digima

At Digima, we prioritise uncompromising material durability, which is why this model is made from high-alloy silicon-chromium tool steel, designated 9CrSi. This steel is characterised by excellent dimensional stability and extreme wear resistance, which is essential for continuous contact with thick steel sheet. Thanks to an advanced hardening process, Digima blades maintain their performance throughout a very long industrial service life.

Material properties and quality processes:

- **Steel grade:** Specialised 9CrSi tool steel with high hardenability.
- **Hardness after heat treatment:** A stable range of 55 to 60 HRC on the Rockwell scale.
- **Heat treatment:** A complete annealing and hardening process ensuring a uniform material structure throughout the entire cross-section of the blade.
- **Consistency guarantee:** Every Digima segment undergoes mandatory non-destructive testing to rule out any internal defects in the steel.

Digima assembly engineering and geometric precision

Every component of the Digima lower blade has been designed to facilitate its correct installation and calibration on the machine. The blade features a 90-degree perpendicular edge geometry, ensuring an optimal support surface for the material being cut. The system of mounting holes ensures uniform pressure of the blade against the guillotine table along its entire length, eliminating the risk of vibration and displacement during operation under maximum load.

Fitting and dimensional specifications:

- **Number of mounting holes (n):** 6 holes per 1300 mm segment.
- **Axial hole spacing (B):** Exactly 200 mm between the centres of adjacent holes.
- **Hole diameter:** Enlarged diameter of 24 mm to ensure secure fastening under extreme forces.
- **Recesses for bolt heads:** Special 38 mm diameter milled recesses, allowing the fasteners to be completely concealed beneath the blade surface.

