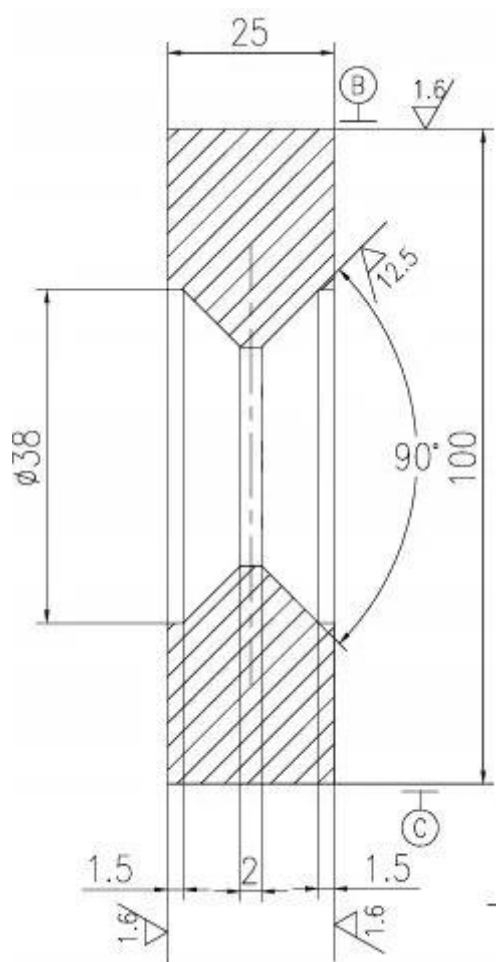


KARTA PRODUKTOWA

12x3200 mm lower guillotine blades for NG4 hydraulic shears – 4-sided replacement





Lower blade for a 12x3200 hydraulic guillotine – 9CrSi tool steel

Hardness HRC 55–60

Digima professional lower blade for 12x3200 guillotines

Digima presents a powerful lower (fixed) blade, designed for the most demanding cutting systems with 12x3200 specifications. It is a key component mounted directly onto the machine table, providing a stable cutting base capable of withstanding enormous pressures. Our Digima product is designed for high-power machines capable of precisely cutting sheet metal up to 12 mm thick and 3200 mm wide.

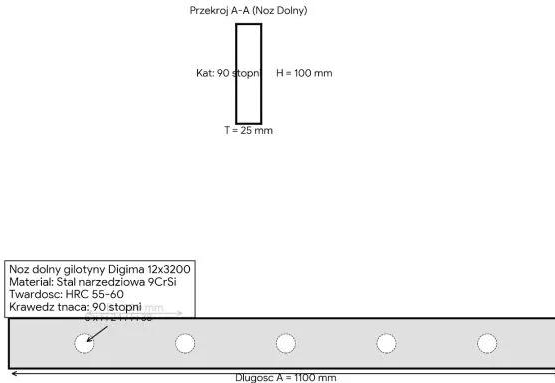
Detailed technical specifications of the Digima lower blade:

- **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 3200 mm in width.
- **Length of a single segment (A):** 1100 mm.
- **Set configuration:** A full 3.2 m wide cutting line consists of 3 precisely matched Digima segments.



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RYSUNEK TECHNICZNY DIGIMA - NOZ DOLNY 12x3200



Analysis of the technical specifications of the Digima 12x3200 lower blade

The lower blade in the 12x3200 system is a robustly constructed component, designed to provide a stable cutting base for machines with high cutting pressure. The increased cross-sectional dimensions and reinforced mounting sockets ensure precision when cutting sheets up to 12 mm thick. Below is a summary of the key technical data taken from the documentation:

- Geometry and structural dimensions:**

Length of a single segment (A): 1100 mm. A complete set for a 3200 mm wide machine consists of 3 such Digima segments.

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

Blade thickness (T): The blade is 25 mm thick, which ensures extreme rigidity under heavy loads.

Cutting edge angle: This is 90 degrees, which is standard for a lower blade, providing a solid support for the upper blade.

- Digima mounting system:**

Number of holes (n): Each segment is fitted with 5 mounting holes.

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

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

Screw sockets: They feature 38 mm diameter countersinks, allowing the screw head to be completely concealed beneath the blade surface.

- Material properties and manufacturing standards:**



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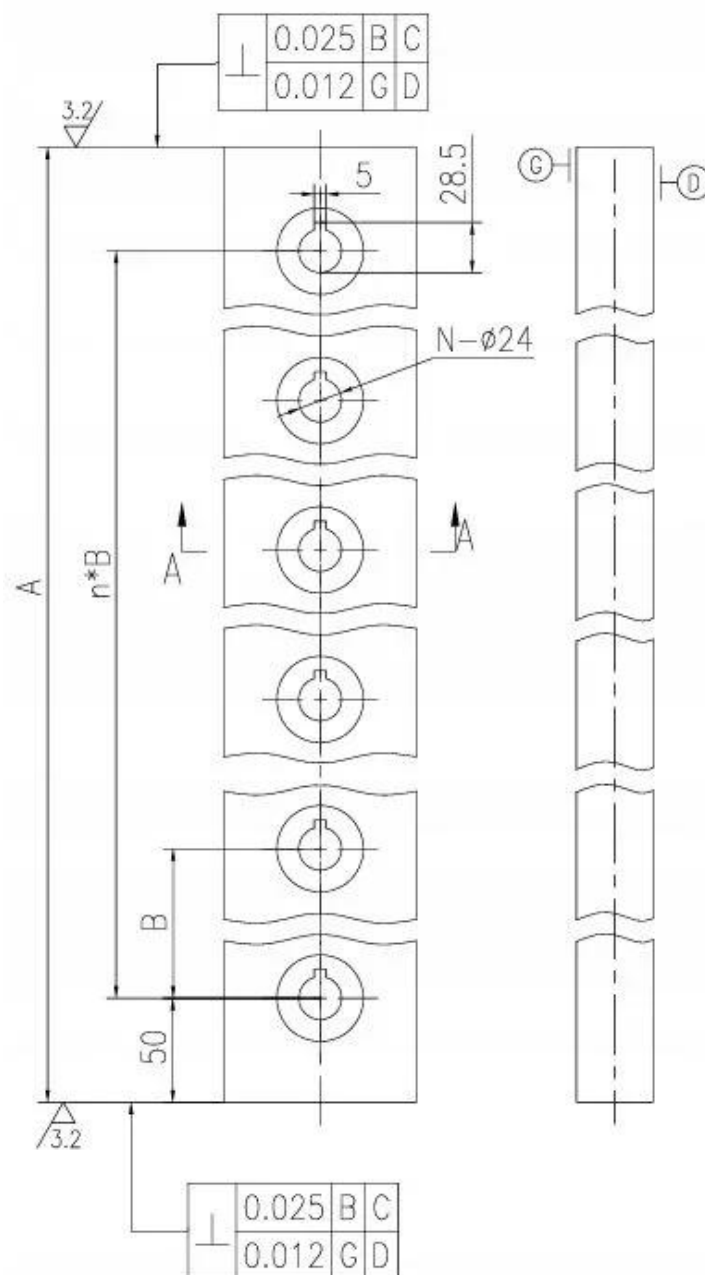
Material grade: Made from 9CrSi high-alloy tool steel.

Working hardness: Hardened to between 55 and 60 HRC.

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

Technical recommendation: The cutting edge is ground to a sharp point, and the documentation strictly prohibits it from being blunted or rounded.

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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 resistance to abrasion, which is essential for continuous contact with thick steel sheet. Thanks to an advanced hardening process, Digima blades maintain their performance characteristics throughout a very long industrial service life.



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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 of 3200 mm, eliminating the risk of vibration and displacement during operation under maximum load.

Mounting and dimensional specifications:

- **Number of mounting holes (n):** 5 holes per 1100 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 high loads.
- **Recesses for bolt heads:** Special 38 mm diameter milled recesses, allowing the fasteners to be completely concealed beneath the blade surface.

