





KARTA PRODUKTOWA



Lower blade for 6x4000 hydraulic guillotine – 9CrSi tool steel

Hardness HRC 55–60

Characteristics and intended use of the 6x4000 lower blade

Digima is proud to present a high-performance lower (stationary) blade, designed specifically for the most demanding cutting systems with 6x4000 specifications. It is a key component mounted in the machine table which, in conjunction with the upper blade, guarantees a perfect cutting line across the entire working width of the machine. Our product is designed for machines with powerful cutting force, capable of cutting sheet metal up to 6 millimetres thick with a sheet width of up to 4000 millimetres.

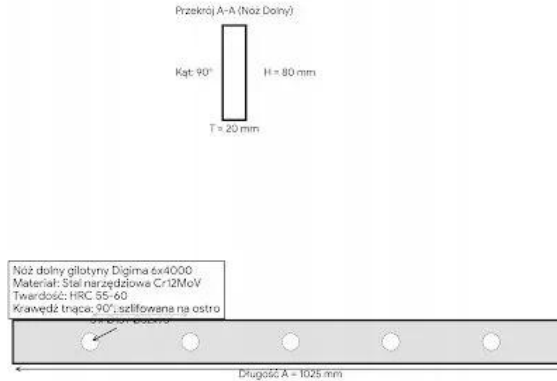
Detailed technical specifications of the Digima blade:

- **Blade type:** Lower blade (fixed anvil blade).
- **Intended use:** Industrial guillotine shears with a cutting capacity of 6 millimetres in thickness and 4,000 millimetres in width.
- **Length of a single segment (A):** 1,025 millimetres.
- **Set configuration:** A full 4-metre cutting line consists of four precisely matched Digima segments.



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RYSUNEK TECHNICZNY DIGIMA - NÓŻ DOLNY 6x4000



Analysis of the technical specifications of the Digima 6x4000 lower blade

The Digima 6x4000 bottom blade has been designed to maintain maximum rigidity across its impressive working width of 4 metres. Below is a detailed summary of the technical specifications shown in the diagram:

- **Geometry and Design Dimensions:**

Segment length (A): Exactly 1025 millimetres. A full set for a 4000 mm machine consists of four such Digima segments.

Profile height (H): The blade is 80 millimetres high, ensuring an optimal support point for the sheet metal.

Blade thickness (T): The blade is 20 millimetres thick, which is crucial for withstanding heavy compressive loads without deformation.

Cutting edge angle: This is 90 degrees, which is standard for bottom blades, ensuring a solid bearing surface.

- **Digima Mounting System:**

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

Axial hole spacing (B): 185 millimetres between the centres of the holes.

Hole diameter: Through-holes with a diameter of 18 millimetres.

Screw sockets: These feature 32-millimetre-diameter countersinks (90-degree chamfer), which allow the screw head to be completely concealed beneath the blade surface.

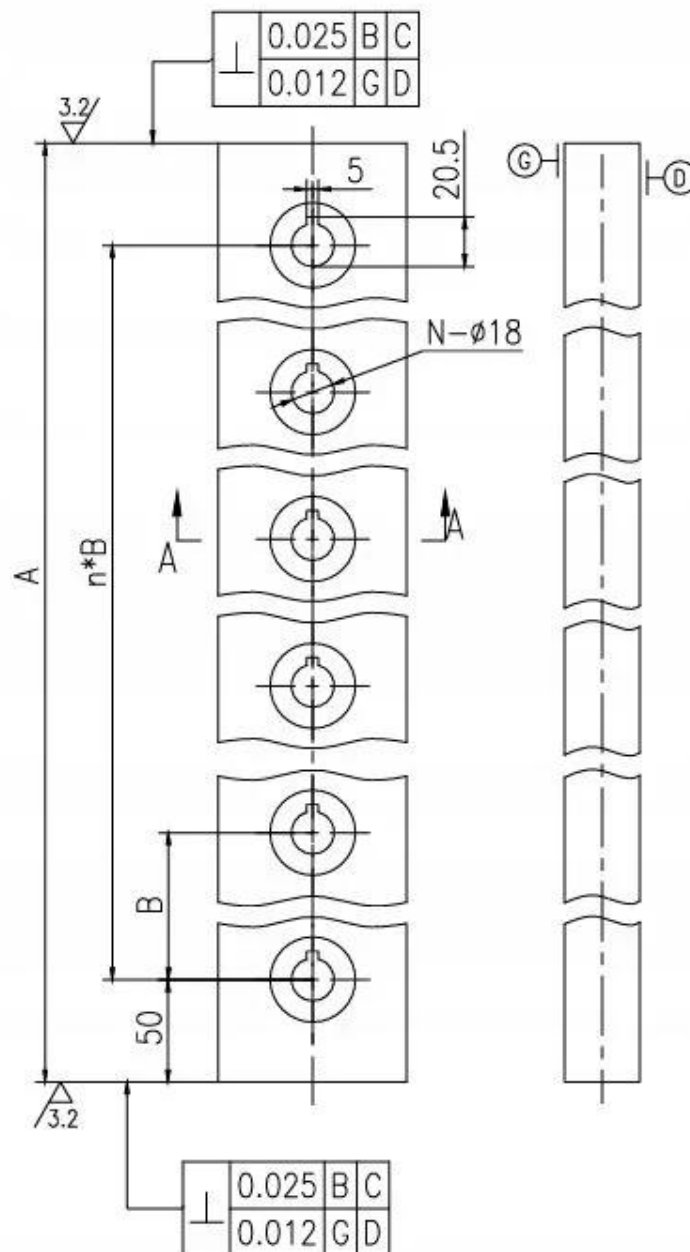
- **Material and Manufacturing Properties:**

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Working hardness: Range from 55 to 60 HRC.

Surface finish: The cutting edge is ground to a sharp edge (blunting is prohibited).

Consistency Guarantee: Components undergo non-destructive testing to rule out internal defects.



Material properties and quality processes

- **Steel grade:** 9CrSi special tool steel with high hardenability.



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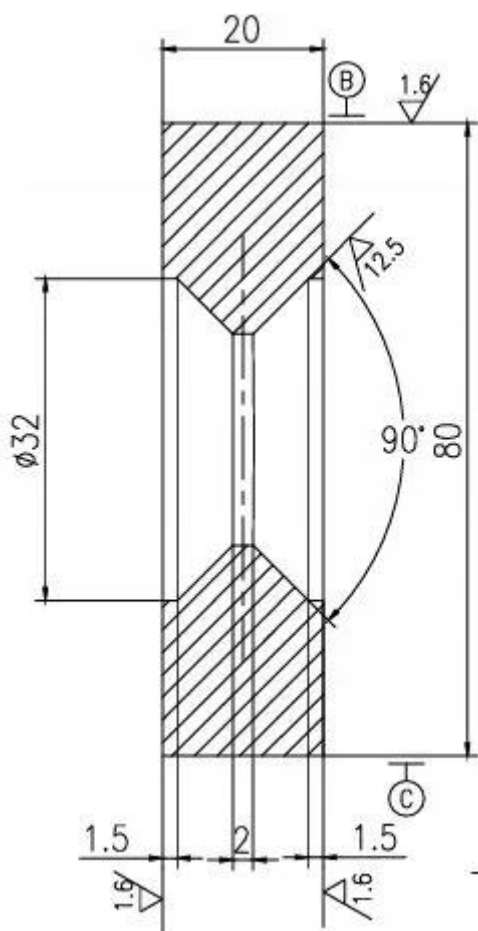
- **Hardness after heat treatment:** A stable range of 55 to 60 HRC on the Rockwell scale.
- **Heat treatment:** A complete annealing and hardening process to achieve a homogeneous crystalline structure in the steel.
- **Consistency guarantee:** Every Digima segment undergoes mandatory non-destructive testing to rule out any internal defects.

Digima's geometric precision and assembly engineering

Digima's engineers have ensured that every detail of the blade facilitates its correct installation and calibration. The lower blade has a perpendicular edge geometry (90-degree angle), which ensures an optimal support surface for the material being cut. The system of mounting holes has been designed to ensure even pressure of the blade against the guillotine table along its entire 4-metre length, which eliminates the risk of vibration and the blade 'floating' during operation.

Mounting and dimensional specifications:

- **Number of mounting holes (n):** 5 holes per 1025 mm segment.
- **Axial spacing of holes (B):** Exactly 185 millimetres between the centres of adjacent holes.
- **Hole diameter:** 18 millimetres, suitable for standard fixing bolts.
- **Recesses for screw heads:** Special milled recesses with a diameter of 32 millimetres, allowing the fasteners to be completely concealed beneath the surface of the blade



Operational stability and technical support from Digima

Digima 6x4000 saw blades are characterised by a substantial cross-section, which is essential for maintaining a straight cutting line under maximum load. Please note that these blades are ground to the highest precision and, in accordance with the documentation, it is forbidden to blunt them or round off the edges – the cutting edge must remain perfectly sharp to ensure a clean, burr-free cut. At Digima, we offer not only the product but also a comprehensive maintenance service comprising the professional replacement and calibration of blades at the customer's premises.

Dimensional parameters and quality requirements:

- **Blade thickness (T):** A solid 20 millimetres to ensure maximum rigidity.
- **Blade height (H):** 80 millimetres, guaranteeing resistance to bending forces.
- **Cutting edge angle:** A perfect 90 degrees for stable sheet metal support.

Please note that not only can you purchase top-class cutting components from our company, but we also offer **a professional blade replacement service**.