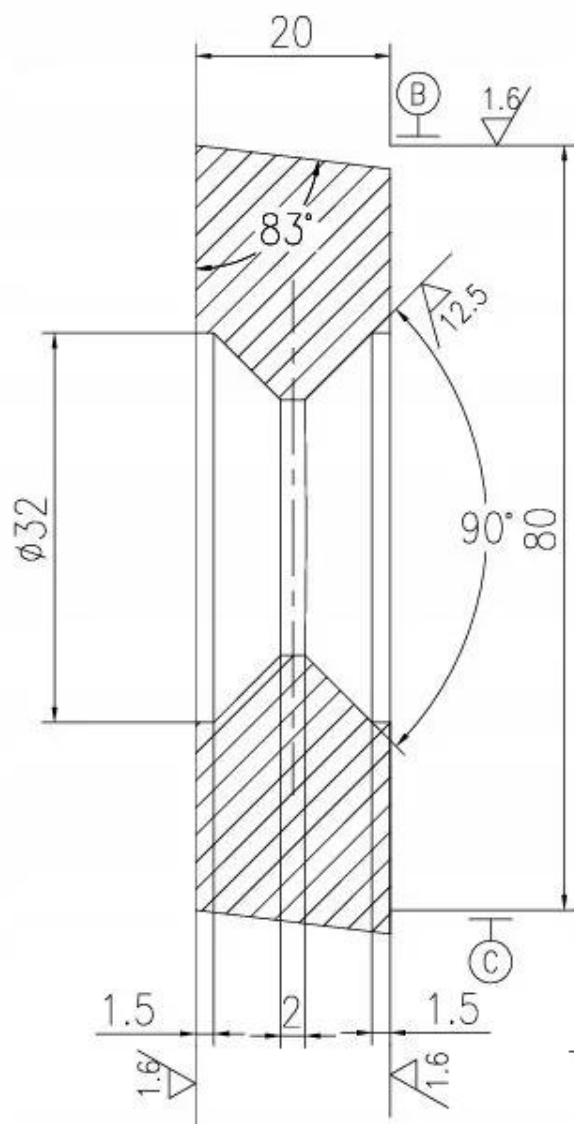






Upper blade for 6x3200 hydraulic guillotine – 9CrSi tool steel

Hardness HRC 55–60

Characteristics and intended use of the 6x3200 upper blade

Digima presents a high-performance top blade (movable), designed for the most demanding cutting systems with 6x3200 specifications. This is a key cutting element which, as it moves along the cutter beam, ensures a precise and clean cut of sheet metal across the entire working width of 3200 millimetres. This Digima product features a robust construction, capable of withstanding the extreme loads encountered when cutting materials up to 6 millimetres thick.

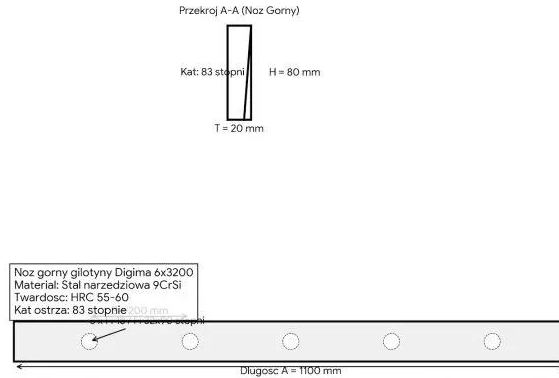
Detailed technical specifications of the Digima top blade:

- **Blade type:** Top blade (movable blade mounted on a beam).
- **Intended use:** Industrial guillotines with a cutting capacity of up to 6 millimetres in thickness and 3200 millimetres in width.
- **Length of a single segment (A):** 1,100 millimetres.
- **Set configuration:** A full cutting line 3.2 metres wide consists of three precisely matched Digima segments.



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RYSUNEK TECHNICZNY DIGIMA - NOZ GORNY 6x3200



Analysis of the technical specifications of the Digima 6x3200 top knife

The 6x3200 upper blade is a precision working component, designed to operate with high-pressure guillotines. Below is a summary of the key technical data taken from the design documentation:

- Geometry and structural dimensions:**

Length of a single segment (A): 1100 millimetres. A full cutting line 3200 millimetres wide is formed by arranging three such segments side by side.

Profile height (H): The blade has a height of 80 millimetres.

Blade thickness (T): The blade is 20 millimetres thick, which ensures the necessary rigidity when cutting 6-millimetre-thick sheets.

Cutting edge angle: It is 83 degrees. This angle facilitates penetration of the material and reduces the mechanical load on the machine during operation.

- Digima mounting system:**

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

Axial spacing of holes (B): The distance between the centres of adjacent holes is exactly 200 millimetres.

Diameter of mounting holes: The through-holes have a diameter of 18 millimetres (designation N-018).

Recesses for screw heads: Fitted with countersinks 32 millimetres in diameter, allowing the fasteners to be completely concealed beneath the blade's surface.

- Material properties and manufacturing standards:**



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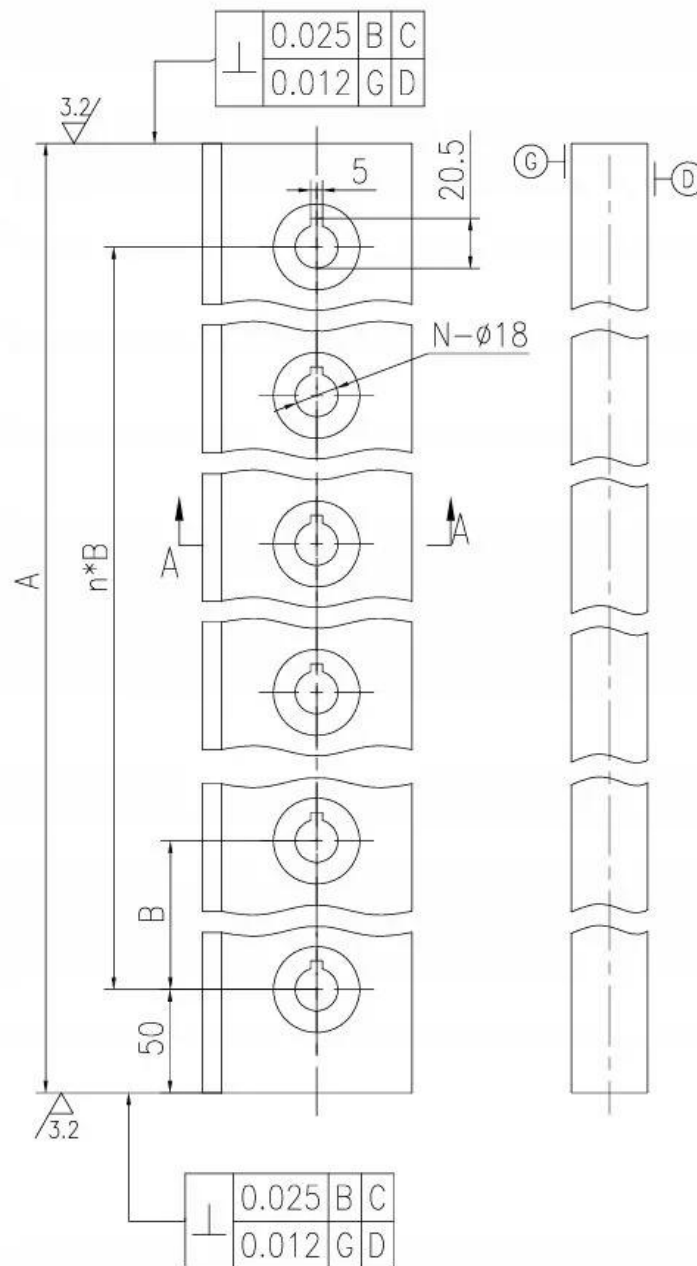
Steel grade: Made from 9CrSi high-alloy tool steel.

Working hardness: The hardness achieved through the hardening process ranges from 55 to 60 HRC.

Surface finish quality: The cutting edge is ground to a high precision, and the technical documentation strictly prohibits its blunting or rounding off.

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

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

At Digima, we rely on tried-and-tested materials, which is why the 6x3200 model is made from high-alloy silicon-chromium tool steel, designated 9CrSi. This steel is characterised by excellent dimensional stability and high resistance to abrasion and blunting. Thanks to an advanced hardening process, Digima blades maintain their performance characteristics throughout a very long industrial service life.

Material properties and quality processes:



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- **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 homogeneous material structure.
- **Consistency guarantee:** Every Digima segment undergoes rigorous non-destructive testing to rule out internal defects.

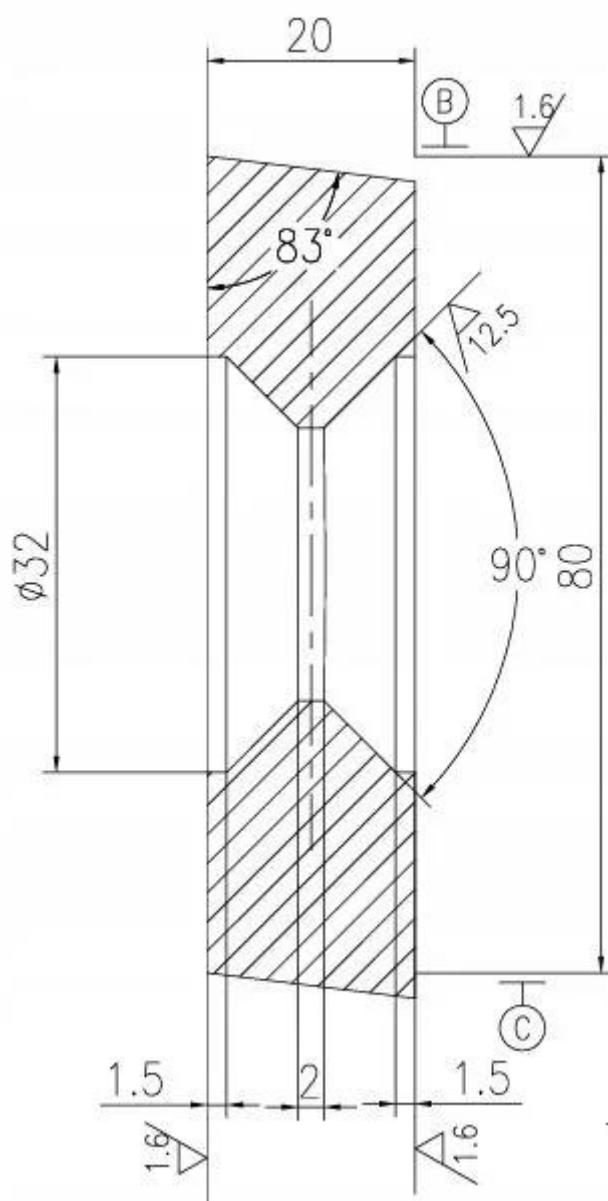
Digima assembly engineering and geometric precision

Every component of a Digima upper blade has been designed to facilitate its correct installation and calibration on the machine. A special cutting edge ground to an 83-degree angle allows for smooth entry into the material, which significantly reduces the load on the guillotine's hydraulic system. The system of mounting holes ensures the blade fits perfectly against the beam, eliminating the risk of vibration during operation under maximum load.

Fitting and dimensional specifications:

- **Number of mounting holes (n):** 5 holes per 1100 mm segment.
- **Axial spacing of holes (B):** Exactly 200 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 within the blade body.

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Cutting performance and professional service from Digima

Digima 6x3200 top blades are characterised by a substantial cross-section, which is essential for maintaining a straight cutting line when processing 6 mm thick sheet metal. The blade is ground to the highest precision and, in accordance with the documentation, it is forbidden to blunt it or round off the edges – it must remain perfectly sharp for a clean, burr-free cut. At Digima, we offer not only the product but also full technical support, including a professional blade replacement service.

Dimensions and quality requirements:

- **Blade thickness:** A solid 20 millimetres to ensure maximum rigidity under load.



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- **Blade height:** 80 millimetres, guaranteeing resistance to bending forces.
- **Cutting edge angle:** A precise 83 degrees for easier piercing of sheet metal.

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