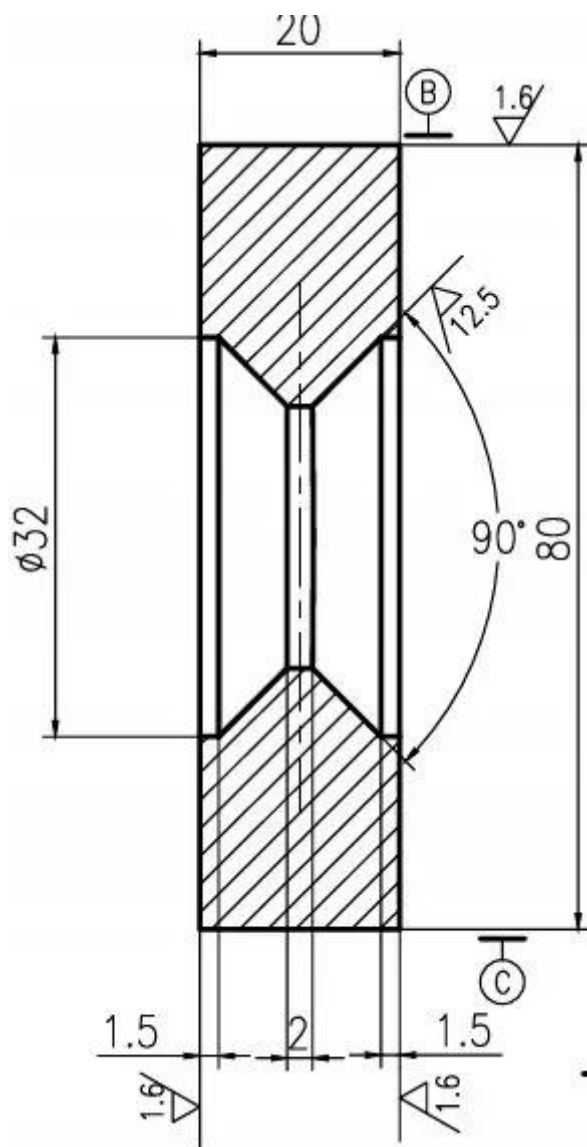


6x3200 mm lower guillotine blades for NG4 hydraulic 4-way shears – replacement





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

Hardness HRC 55–60

Characteristics and intended use of the 6x3200 bottom knife

Digima presents a highly specialised lower blade (stationary), designed for the most demanding cutting systems with 6x3200 specifications. This is a key component mounted directly onto the machine table, which, in conjunction with the upper blade, guarantees a perfect cutting line across the entire working width of the machine, which is 3200 millimetres. This Digima product features a robust construction, capable of withstanding the extreme loads encountered when cutting materials up to 6 millimetres thick.

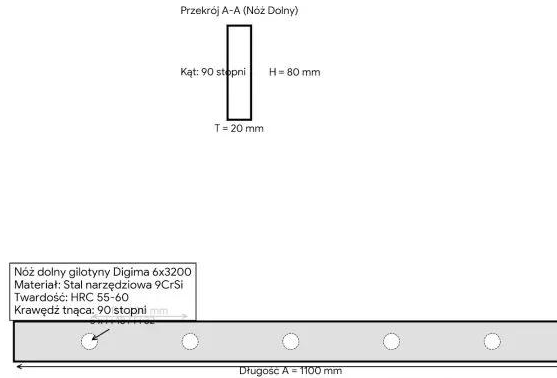
Detailed technical specifications of the Digima upper blade:

- **Blade type:** Lower blade, i.e. the stationary blade forming the cutting base
- **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 - NÓŻ DOLNY 6x3200



Analysis of the technical specifications of the Digima 6x3200 lower blade

The lower blade in the 6x3200 system provides a stable cutting base, designed to withstand heavy loads when cutting sheet metal 6 millimetres thick. Below is a detailed summary of the technical specifications as shown in the drawing:

- Geometry and structural dimensions:**

Length of a single segment (A): 1,100 millimetres. A full set for a 3,200-millimetre machine consists of three such Digima segments.

Profile height (H): The blade is 80 millimetres high.

Blade thickness (T): The blade is 20 millimetres thick, which ensures the required rigidity under load.

Cutting edge angle: This is 90 degrees, which ensures an optimal support edge 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 millimetres between the centres of adjacent holes.

Diameter of mounting holes: Through-holes with a diameter of 18 millimetres (designation Fi 18).

Screw sockets: These feature countersinks with a diameter of 32 millimetres, allowing the fasteners to be completely concealed within the blade body.

- Material properties and manufacturing standards:**

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

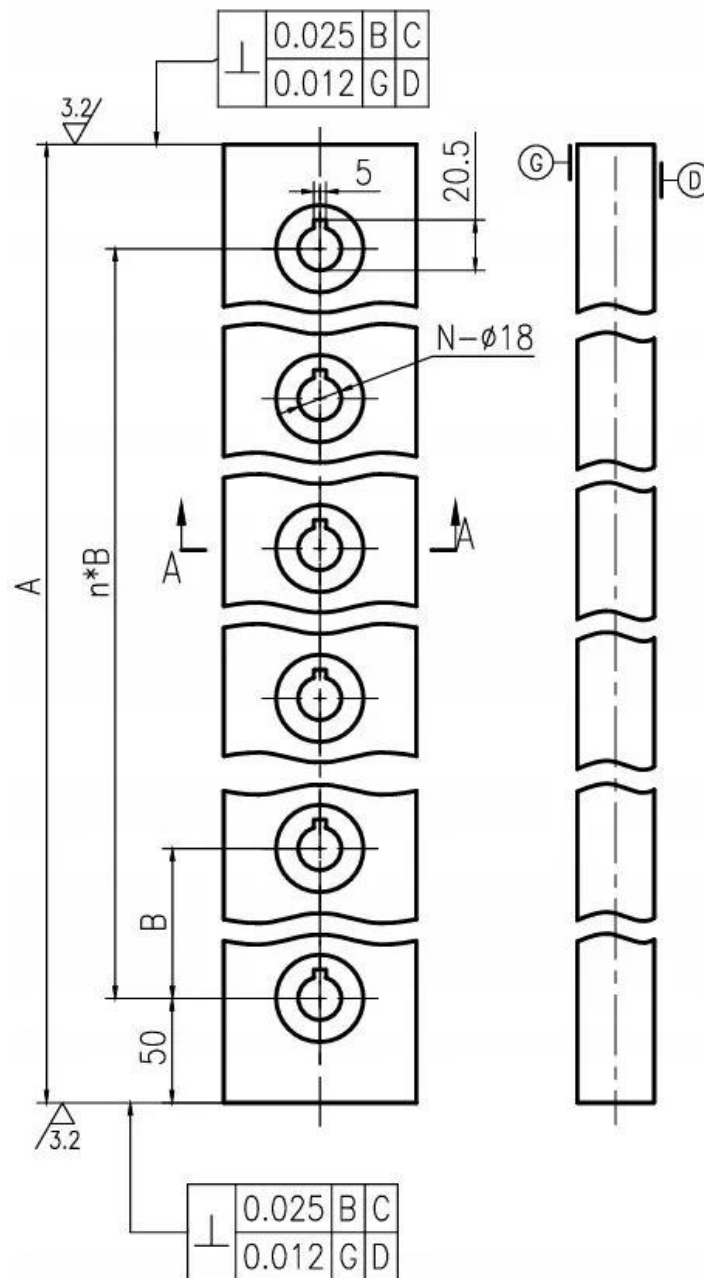


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Working hardness: The hardness achieved through the hardening process ranges from 55 to 60 HRC.

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

Maintenance requirements: The cutting edge is ground to a sharp point, and the technical documentation strictly prohibits it from being blunted or rounded off.





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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:

- **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 when operating under maximum load.

Fitting and dimensional specifications:

- **Blade thickness:** A solid 20 millimetres to ensure maximum structural rigidity.
- **Axial hole spacing (B):** Exactly 200 millimetres between the centres of adjacent holes.
- **Blade height:** 80 millimetres, guaranteeing resistance to powerful bending forces.
- **Cutting edge angle:** An ideal ninety degrees for stable sheet metal support.
- **Recesses for bolt 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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Please note that not only can you purchase top-class cutting components from our company, but we also offer **a professional blade replacement service.**