



Technical drawing of a mechanical part, likely a shaft or rod, showing dimensions and tolerances. The part has a central section with a diameter of $\phi 32$ and a total length of 80. The top and bottom sections are tapered, with a taper angle of 83° . The top section has a width of 20. The bottom section has a width of 20. The part is shown with a cross-section of 1.6 at the top and bottom. The drawing includes a section line and a section symbol $\textcircled{B}$ at the top and $\textcircled{C}$ at the bottom. The drawing also shows a 90° angle and a 1.6 dimension.



Upper blade for a 10x3200 hydraulic guillotine – 9CrSi tool steel

Hardness HRC 55–60

Characteristics and intended use of the 10x3200 upper blade

Digima presents a high-performance top blade (movable), designed for the most demanding cutting systems with dimensions of 10x3200. 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 10 millimetres thick.

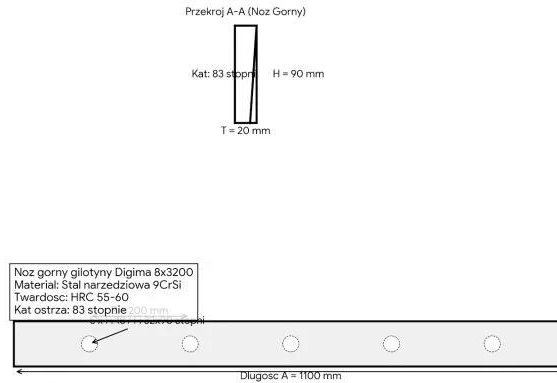
Detailed technical specifications of the Digima top blade:

- **Blade type:** Top blade (movable blade mounted on a beam).
- **Intended use:** Industrial guillotines with a cutting capacity of up to 10 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 8x3200



Analysis of the technical specifications of the Digima 10x3200 top blade

The top blade in the 10x3200 system is a component designed for the most demanding tasks, capable of precisely cutting sheets up to 10 millimetres thick. Below is a detailed summary of the technical specifications as set out in the documentation:

- **Geometry and design dimensions:**

Length of a single segment (A): 1100 millimetres. A full cutting line 3,200 millimetres wide consists of three such Digima segments.

Profile height (H): The blade is 90 millimetres high.

Blade thickness (T): The blade is 20 millimetres thick, which ensures sufficient rigidity when cutting thick materials.

Cutting edge angle: It is 83 degrees. This blade geometry allows for effective piercing of sheet metal whilst maintaining a long service life of the cutting edge.

- **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 the holes.

Diameter of mounting holes: Through-holes with a diameter of 18 millimetres (designation N-018).

Screw recesses: These have countersinks with a diameter of 32 millimetres, allowing the screw head to be completely concealed within the blade body.

- **Material properties and manufacturing standards:**



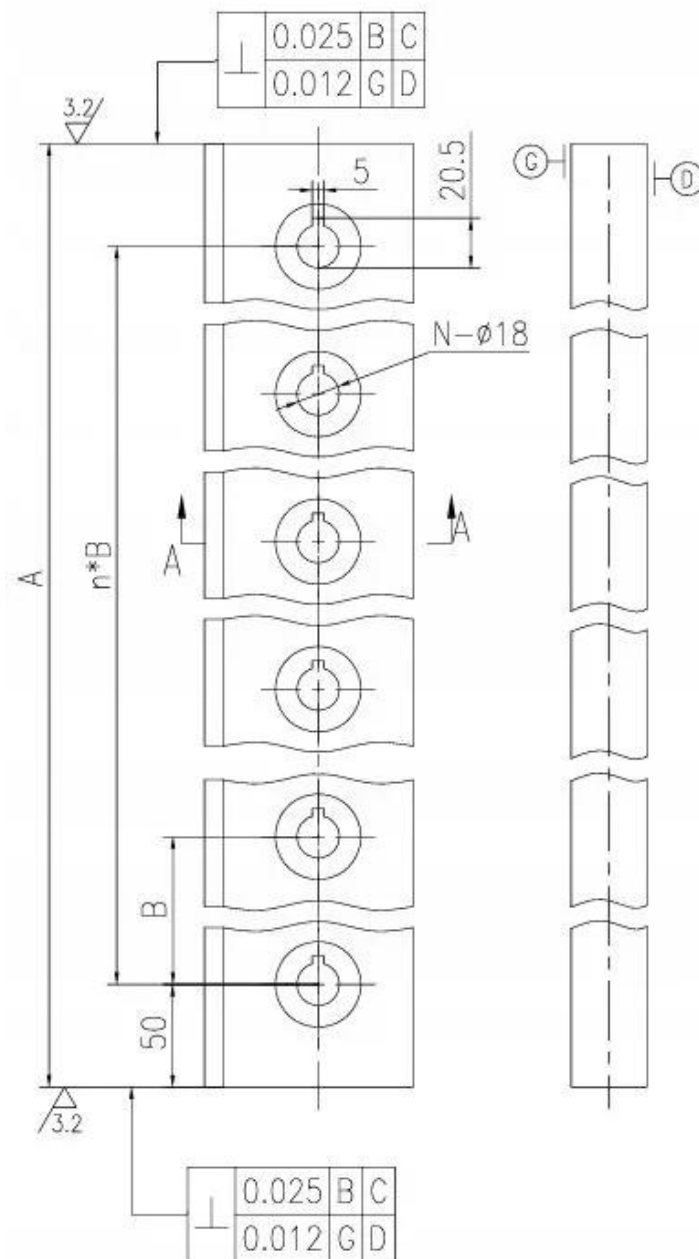
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Material grade: 9CrSi high-alloy tool steel.

Working hardness: Hardened to between 55 and 60 HRC.

Quality and inspection: Every Digima component undergoes non-destructive testing to rule out internal defects in the steel.

Technical recommendation: The cutting edge is ground to a sharp point and, in accordance with the documentation, it is prohibited to blunt or round it 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 10x3200 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:

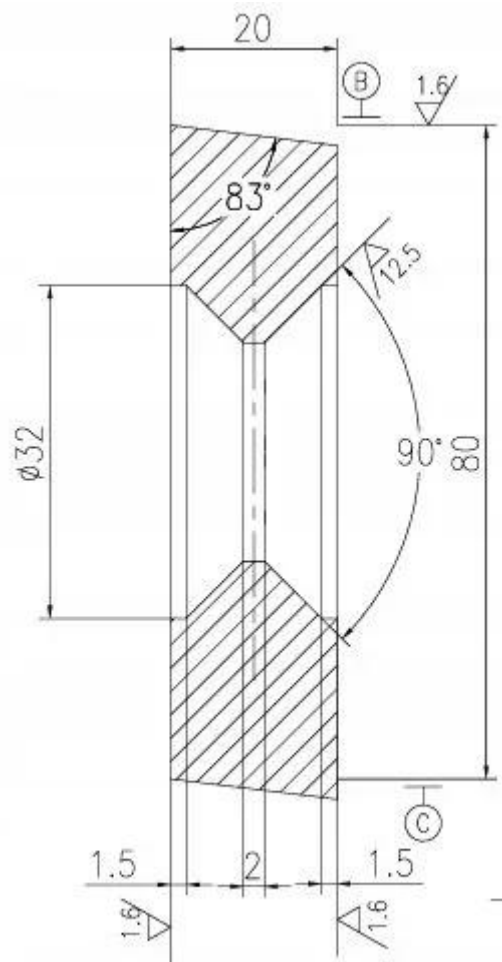
- **Steel grade:** Specialised 9CrSi tool steel with high hardenability.
- **Hardness after heat treatment:** A stable range of 55 to 60 HRC on the Rockwell scale.
- **Heat treatment:** A complete annealing and hardening process ensuring a homogeneous material structure.
- **Consistency guarantee:** 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:

- **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.



Cutting performance and professional service from Digima

Digima 10x3200 top blades are characterised by a substantial cross-section, which is essential for maintaining a straight cut line when processing 10 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. As 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.
- **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**.