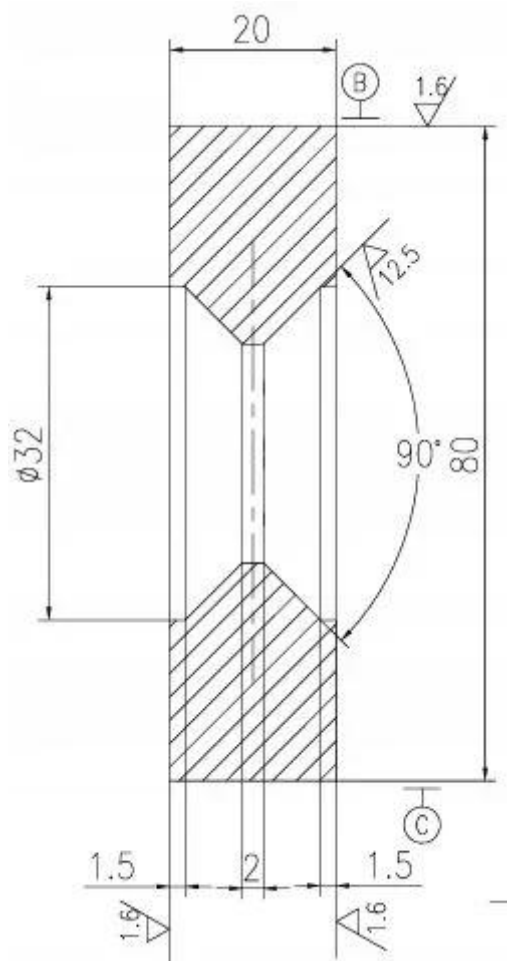


KARTA PRODUKTOWA

8x3200 mm lower guillotine blades for NG4 hydraulic 4-way shears – replacement





Lower blade for 8x3200 hydraulic guillotine – 9CrSi tool steel

Hardness HRC 55–60

Characteristics and intended use of the 8x3200 bottom knife

Digima presents a highly specialised lower blade (stationary), designed for the most demanding cutting systems with 8x3200 specifications. This is a key component mounted directly onto the machine table, which, in conjunction with the top 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 8 millimetres thick.

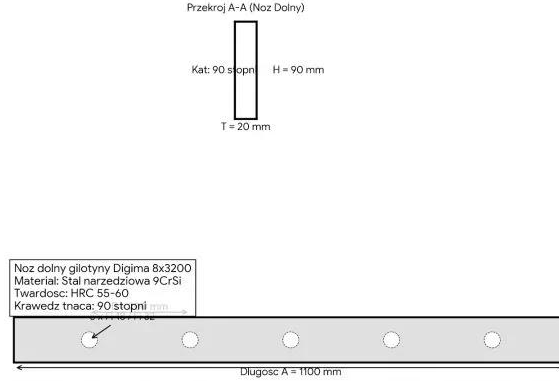
Detailed technical specifications of the Digima upper blade:

- **Blade type:** Lower blade, i.e. the stationary blade forming the cutting base
- **Intended use:** Industrial guillotines with a cutting capacity of up to 8 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 DOLNY 8x3200



Analysis of the technical specifications of the Digima 8x3200 lower blade

The lower blade in the 8x3200 system is a reinforced component, designed to ensure stable operation when cutting sheets 8 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 complete set for a 3,200-millimetre machine 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 the necessary rigidity under heavy loads.

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

- **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 N-018).

Screw sockets: They feature countersinks with a diameter of 32 millimetres, allowing the screw heads to be completely concealed beneath the blade's surface.

- **Material properties and manufacturing standards:**



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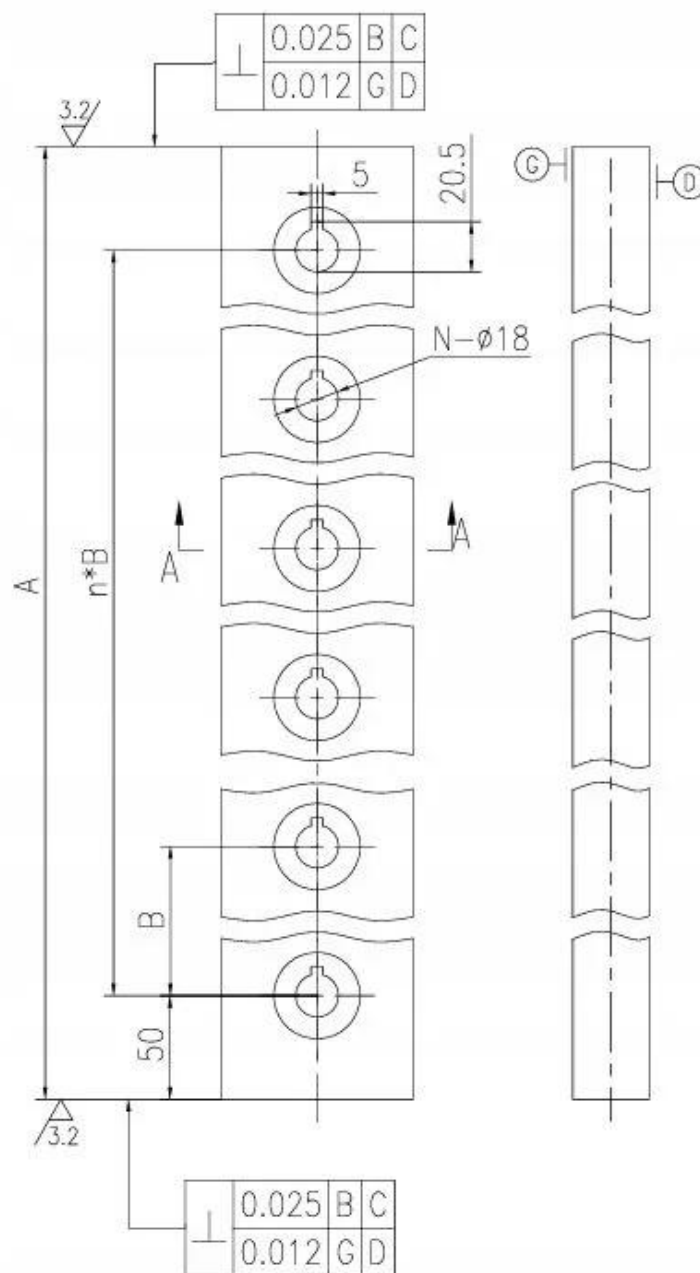
Steel grade: Made from 9CrSi high-alloy tool steel.

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

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

Technical requirement: The cutting edge is ground to a sharp point, and the documentation strictly prohibits its blunting or rounding

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

At Digima, we prioritise the highest material strength, which is why this model is made from high-alloy silicon-chromium tool steel, designated 9CrSi. This steel is characterised by exceptional dimensional stability and extreme wear resistance, which is essential for the continuous cutting of eight-millimetre-thick sheet metal. Thanks to an advanced hardening process, Digima blades maintain their performance characteristics throughout a long period of intensive use.



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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 fifty-five to sixty 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 even pressure of the blade against the guillotine table along its entire length of three thousand two hundred millimetres, eliminating the risk of vibration and displacement during operation.

Mounting and dimensional specifications:

- **Number of mounting holes:** Five holes per segment, each segment being 1,100 millimetres long.
- **Axial spacing of holes:** Exactly two hundred millimetres between the centres of adjacent holes.
- **Hole diameter:** Eighteen millimetres, suitable for standard mounting bolts.
- **Recesses for screw heads:** Special milled recesses with a diameter of thirty-two millimetres, allowing the fasteners to be completely concealed beneath the surface of the blade

