Hydraulic Shearing Machine

CAPABILITY SHEET · THE GAP DECIDES THE CUT. · A STIFF FRAME, A HYDRAULIC DRIVE, HOLD-DOWNS, A BACK

THE ONE IDEA

PRINCIPLE	The gap decides the cut.
WHY IT MATTERS	The gap between the blades is set for the material and its thickness. Too small, and the blades wear and need more force. Too large, and the edge gets a burr and rolls over.

THE MACHINE

FRAME	A stiff welded frame with two side housings and a long upper beam, that does not spring open under the cut.
BLADES	A long upper blade, inclined to a fixed lower blade, with a gap that can be set and checked for each material.
DRIVE	Hydraulic cylinders and a power unit, with a relief valve that limits the force, and hold-downs on their own circuit.
GUARDING	A back gauge that repeats, sheet supports, and interlocked guards in front and behind the blade and the hold-downs, with an emergency stop.

THE METHOD

ORDER	Duty, frame, hydraulics, guarding, build and prove. The gap setting and the proof are the two that a quick job skips.
LIMITS	Materials, thicknesses, lengths and cutting rates come from the customer's duty, and are not printed here.

CONFIGURATIONS

SWING BEAM	A swing-beam shear: an upper beam that swings on pivots, with a fixed rake, for general cutting.
VARIABLE RAKE	A variable-rake guillotine shear: a rake that can be changed for thin and thick material.
BACK GAUGE	A shear with a controlled back gauge: a gauge driven and set by the control for repeated lengths.

STANDARDS & SCOPE

STANDARDS	Public reference: EN 13985 for the safety of guillotine shears, and ISO 12100 for the general principles of design for machinery.
SCOPE BOUNDARY	It is the hydraulic shearing machine: not a press brake, not a general press and not a tube bender.
STATUS	Neometrix engineers hydraulic shearing machines to order, and no delivered hydraulic shearing machine is claimed.

DEFENCE PROGRAMMES DESK

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