Hydraulic Press Brake

CAPABILITY SHEET · SAME ANGLE, END TO END. · A RAM ON TWO LEVEL CYLINDERS, A CROWNED BED, A PUNCH

THE ONE IDEA

PRINCIPLE	Same angle, end to end.
WHY IT MATTERS	A long ram and a long bed deflect under load, so the middle of a bend opens more than the ends. The machine levels the ram, crowns the bed and bends past the angle it wants because the sheet springs back.

THE MACHINE

RAM	A ram driven by a hydraulic cylinder at each end, each under its own control with a position reading, so that the ram stays parallel to the bed.
BED	A lower beam crowned by an amount that follows the load, so that the punch goes as deep in the middle as at the ends.
BACK GAUGE	Fingers that set the distance of the bend line and, where the axis is fitted, their height, with a controller that holds the bend program.
SAFETY	A light curtain or a laser device in front of the tools, two-hand or foot control, an emergency stop, and release of trapped hydraulic pressure.

THE METHOD

ORDER	Part, tooling, machine, safety, build and prove. The tooling and the proof are the two that a quick job skips.
LIMITS	Forces, pressures, sheet sizes, thicknesses and batch sizes come from the customer's parts, and are not printed here.

CONFIGURATIONS

CROWNED	A hydraulic press brake with two level ram cylinders, a crowned bed and a back gauge for distance.
CNC	A CNC press brake with a multi-axis back gauge and a program for every part.
STATION	A bending station with sheet supports that follow the sheet and a place to check the angle.

STANDARDS & SCOPE

STANDARDS	Public reference: EN 12622 for the safety of hydraulic press brakes, and ISO 13849-1 for the safety-related parts of control systems.
SCOPE BOUNDARY	It is the press brake: not a hydraulic press, not a tube bending machine and not a stretch forming machine.
STATUS	Neometrix engineers hydraulic press brakes to order, and no delivered hydraulic press brake is claimed.

DEFENCE PROGRAMMES DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com

Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India