Pipe Flanging Machine

CAPABILITY SHEET · THE WALL CAN ONLY STRETCH SO FAR. · A CLAMP, A PAIR OF DIES, A RAM AND A HEATER

THE ONE IDEA

PRINCIPLE	The wall can only stretch so far.
WHY IT MATTERS	To turn the end of a pipe outward into a collar, the metal at the rim must go round a larger circle, so it must stretch. The rim is where the wall thins and where it cracks. Heat lets it stretch further, and the dies and the stages let the metal flow evenly.

THE MACHINE

FRAME AND CLAMP	A stiff frame that takes the whole force of the last of the stroke, and a clamp that holds the pipe without marking it and keeps it square to the die.
RAM AND DIES	A hydraulic ram that drives a flare die and a finishing die in one steady stroke and holds at the end.
HEATER	A heater that warms only the end of the pipe, with a sensor at the pipe end and a stop on the temperature.
STOPS	A stop for the length of pipe and a stop for the end of the stroke, so that every collar is the same.

THE METHOD

ORDER	Duty, pipe and tooling, heat and clamp, form, check and prove. The limit of the rim and the trial pipe are the two that a quick job skips.
LIMITS	The pipe, the material and the flare come from the duty of the joint, and are not printed here.

CONFIGURATIONS

COLD	A cold flanging machine: no heater, a clamp, a ram and a pair of dies, with stops for the length and the stroke.
HOT	A hot flanging machine: a heater for the end with a sensor and a stop, so that the collar is formed at a temperature that is held and read.
STAGED	A staged machine: a pre-flare and then a finishing die, so that the metal flows evenly and does not wrinkle at the root.

SCOPE

SCOPE BOUNDARY	It is the pipe flanging machine: not a tube bending machine, not a nosing press and not a press brake.
STATUS	Neometrix engineers pipe flanging machines to order, and no delivered pipe flanging machine 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