

# Vertical Nosing Press with Induction Heater

CAPABILITY SHEET · 600-TON CLASS · INDUCTION-HEATED · ENGINEERED TO ORDER

## THE MACHINE

### WHAT

#### THE CORE IDEA

You cannot cold-form a thick steel nose - it cracks and the press stalls. So the press is only half the machine; the induction heater is the other half, and the two are one control system. Heat, form, handle.

#### STATUS

Engineered to order. Reference configuration, not yet built - quoted against an Indian ordnance manufacturing requirement; no delivered press is claimed.

## ENVELOPE

#### PRESS

Vertical hydraulic nosing press, 600-Ton class or higher; main frame about 8 m tall; ram stroke at least 1200 mm; guided ram; hydraulic power pack; integrated die and tool-change unit for different component profiles.

#### HEATING

Interfaced induction heating furnace(s) to forging temperature in seconds - fast, clean, localised, repeatable - because a gas furnace heats a batch eventually, but the cell needs this blank now, at exactly the right temperature.

#### AUTOMATION

At least two industrial foundry-grade robots run the loop - feed conveyor to induction furnace to press to cooling to exit - at a rated components per hour, because a forging-hot blank cannot be hand-handled and cycle time is the economics.

## THE DESIGN CASE

#### STIFFNESS HOLDS THE NOSE

Forming a taper pushes the workpiece sideways as well as down. Frame stiffness, ram guidance and die alignment - not the tonnage - hold the formed nose concentric, the same discipline as a blanking or extrusion press.

#### ONE MACHINE, NOT TWO

The heater and press are specified and commissioned as a single machine with one control system, because the forming force, the die and the blank temperature all have to agree, cycle after cycle.

#### DIES ARE THE GEOMETRY

A tool/die-change unit swaps the former for a different component profile - the nose is whatever the former says it is - so one cell serves a family of parts.

## SOURCING & ENGAGEMENT

#### WHAT IS BOUGHT

The induction plant, foundry-grade robots, PLC/HMI and largest hydraulic components are proprietary items from established makers; and a buyer of a press this size usually requires a proven large-forging-press track record.

#### HOW IT IS BUILT

#### ENGAGEMENT

Send the component, its nose profile, wall thickness and cadence to [sales@neometrixgroup.com](mailto:sales@neometrixgroup.com); compliance matrix within two working days.

## DEFENCE PROGRAMMES DESK

[sales@neometrixgroup.com](mailto:sales@neometrixgroup.com) · +91 7777 876 876 · [neometrixgroup.com](http://neometrixgroup.com)  
Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India