

10,000 Ton Extrusion Press

CAPABILITY SHEET · TURNKEY ALUMINIUM EXTRUSION PLANT · ENGINEERED TO ORDER

THE PLANT

WHAT	A turnkey heavy aluminium extrusion plant built around a 10,000 tonne extrusion press: billet pre-heating, direct or indirect extrusion, run-out with forced-air cooling, a 500 T stretcher, and cut-to-length with stacking.
DELIVERY MODEL	The main press is supplied through Neometrix's press-OEM partnership; Neometrix engineers and executes the plant around it - layout, foundation and civil works, ancillary line, erection, commissioning, training and support.
STATUS	Engineered to order. Plant configured to the customer's product mix, billet range and required output; scope settled at design review. Not a delivered-plant claim.

PRESS & CYCLE

PRESS	10,000 tonne extrusion force; direct or indirect extrusion; container and die stack; main hydraulic drive with accumulator support.
RAM SPEED	Variable 0.5-20 mm/s: 0.5-20 mm/s at rated extrusion force 0-5,000 T, and 0.5 to at least 8 mm/s at rated force 5,000-10,000 T, so speed is matched to alloy and section.
DEAD CYCLE	Not exceeding 120 seconds, irrespective of extrusion mode, billet size or alloy - the figure that separates a fast plant from a slow one of the same tonnage.

THE LINE

BILLET PRE-HEAT	Dia 785 x 1200 mm - 8 billets/h; dia 585 x 1200 mm - 10 billets/h; dia 385 x 1200 mm - 13 billets/h. Heating rate adjustable to pressing speed; temperature uniformity held to specification.
RUN-OUT & COOLING	Motorised run-out table with forced-air cooling of the extruded product across the cooling bed, maintained through to the end of the unloading table.
STRETCHER	500 tonne force; straightens bars and profiles hot; de-twisting arrangement; accommodates 8.0-10.0 m rods, flats and squares; jaw width to product size; independent hydraulic system.

PROJECT & ENGAGEMENT

CIVIL & ERECTION	Plant layout and services; foundation analysed and detailed for press load and restraint; civil works; mechanical, hydraulic and electrical erection and alignment.
COMMISSIONING	Commissioning against agreed acceptance criteria; operator and maintenance training; full documentation set; extrusion toolings and a spares holding.
ENGAGEMENT	Send profile envelope, alloys, lengths, tolerances, annual tonnage, billet sizes and building constraints to sales@neometrixgroup.com - compliance matrix within two working days.

PROJECTS DESK

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Reference configuration. Press capacity, billet range, output, run-out length, stretcher force and handling are scoped to the customer's product mix; the main press is supplied through Neometrix's press-OEM partnership.