

Composition Filling & Assembling Machine

CAPABILITY SHEET - DELIVERED - GRAVIMETRIC DOSING + ROBOTIC ASSEMBLY + TORQUE CLOSING

THE SYSTEM

WHAT	Multi-station automatic filling and assembling lines - clean the body, dose gravimetrically, assemble, seal, close to torque, verify and record.
DELIVERED	Built and delivered against a won order for a central armed police force's less-lethal store line; further machines of the class quoted.
OUR ROLE	Neometrix engineers the stations, dosing, assembly, sealing, torque, vision, records and bay integration, then installs and commissions.

AS DELIVERED

RATE	Up to about 500 units per hour in continuous operation, configurable from the controller; 17 indexed stations, each doing one thing repeatably.
DOSING	Gravimetric with load-cell feedback - plus/minus 2 g on the coarse composition and plus/minus 0.5 g on the finer marker powders.
CLOSING	Servo torque tools to plus/minus 0.1 Nm against programmable thresholds, with the achieved figure recorded against every unit.

THE PLANT

FOOTPRINT	7.5 x 4.0 x 3.0 m modular line; companion shell machine 5.85 x 5.3 x 2.5 m - both sized for an ordinary industrial workshop bay.
SERVICES	230 V or 100-240 VAC, isolated 24 V DC control with surge protection, oil-free air at 6 bar, under 70 dB at full load.
SAFETY	Flameproof workflow, dual-channel emergency stops, interlocked doors, pressure-relief venting and static control - stations run unattended.

DISTINCT & HONEST

THE BOUNDARY	We engineer the machine and the plant, never the material - the composition, its handling and its licensing are the customer's to specify.
TRACEABILITY	Fill weight and torque per unit against the batch, out over Ethernet, RS-485, USB and fieldbus, with optional OPC-UA to SCADA.
ENGAGEMENT	Send the store, the fill tolerance and the rate to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com
Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India