Remote-Controlled Fire Monitor

CAPABILITY SHEET · A JET PUSHES BACK. · A MOUNT, DRIVES, A REMOTE VALVE AND A CONTROLLER THAT HOLD

THE ONE IDEA

PRINCIPLE	A jet pushes back.
WHY IT MATTERS	A jet pushes its nozzle back as hard as it pushes the water out. The push goes down through the barrel and the pedestal into the mount, which must resist it in shear and in bending.

THE MONITOR

MOUNT	A mount or a base that resists the push, and a movable base that is heavy, braced or anchored, because a flat jet pushes sideways.
DRIVES	Electric or electro-hydraulic drives for swing and elevation that do not creep, a brake and position feedback that hold and report the aim.
VALVE AND NOZZLE	A remote valve that opens and closes at a controlled rate, and a nozzle for a jet, a spray or foam, with the pressure read at the nozzle.
CONTROL	A controller, wired or by radio, with a defined safe state if the signal or the power is lost, and a manual override at the unit.

THE METHOD

ORDER	Duty, mount, drives, control, build and prove. The mount and the proof are the two that a quick job skips.
LIMITS	Flows, pressures, forces, distances and quantities come from the customer's risk and supply, and are not printed here.

CONFIGURATIONS

FIXED	A fixed pedestal monitor, bolted to a structure built for the push of the jet.
MOVABLE	A movable monitor on a wheeled base, braced or anchored before the jet is thrown.
ROBOT	A fire-fighting robot on a crawler base, driven to the fire, set down and braced.

STANDARDS & SCOPE

STANDARDS	Public reference: EN 15767 for portable monitors and their water nozzles, and ISO 12100 for the general principles of design for machinery.
SCOPE BOUNDARY	It is the remote-controlled fire monitor: not a hydrant and pump system, not a foam proportioning system and not a water bowser.
STATUS	Neometrix engineers remote-controlled fire monitors to order, and no delivered remote-controlled fire monitor is claimed.

DEFENCE PROGRAMMES DESK

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