Electro-Hydraulic Orange Peel Grab

CAPABILITY SHEET · FILL BY VOLUME, LIFT BY WEIGHT. · A RATING BY DENSITY, ITS OWN OIL CIRCUIT AND

THE ONE IDEA

PRINCIPLE	Fill by volume, lift by weight.
WHY IT MATTERS	A grab holds a volume but a crane lifts a weight, and a full grab weighs its volume times the density of the material, so the grab is chosen by density and by what is left of the crane's rating.

THE GRAB

TINES AND HEAD	Curved tines of fabricated steel with replaceable wear plates, closing like the peel of an orange on a stiff welded head.
OIL CIRCUIT	A motor, a pump, a reservoir and a cooler ride on the head, so the crane needs one electric cable and no hydraulic line.
HOLDING	A load-holding valve on every cylinder keeps the tines closed if a hose fails or the supply is lost.
LINKAGE	The cylinders drive the tines through a linkage worked so that the grip is enough at every angle where the grab must hold.

THE METHOD

ORDER	Duty, tines and head, linkage, oil circuit, holding, build and prove. The rating by density and the holding valves are the two that a quick job skips.
LIMITS	Weights, volumes, densities, forces and pressures come from the customer's material and crane and are not printed here.

CONFIGURATIONS

SCRAP	A four-tine scrap grab: wide tines for bulky pieces, with wear plates at the tips and the edges.
BULK	A five-tine bulk grab: narrower tines for rock, ore and small lumps.
ROTATOR	A grab with a rotator: the driver can turn the grab to line it up without moving the crane.

SCOPE

SCOPE BOUNDARY	It is the electro-hydraulic orange peel grab: not a hydraulic power pack, not a pallet truck and not a shearing machine.
STATUS	Neometrix engineers electro-hydraulic orange peel grabs to order, and no delivered electro-hydraulic orange peel grab is claimed.

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