Hydraulic Puller System

CAPABILITY SHEET · PULL THE PART THAT IS TIGHT. · A CYLINDER, A PUMP, LEGS AND JAWS, ALIGNMENT AND

THE ONE IDEA

PRINCIPLE	Pull the part that is tight.
WHY IT MATTERS	A bearing has an inner ring and an outer ring, and only one is fitted tight. A pull through the other ring passes through the rolling elements and marks the raceways.

THE SYSTEM

CYLINDER	A hydraulic cylinder with its ram on the shaft end, driven by a hand or electric pump, with a relief valve that limits the force.
LEGS AND JAWS	A crosshead, and legs with jaws that hook behind the ring that is fitted tight, set equal and rated for the whole pull.
SPLIT PLATE	A split plate that sits behind a bearing's inner ring, so that the pull does not pass through the rolling elements.
GUARD	A guard between the puller and the operator, who stands to one side of the pull and never in line with it.

THE METHOD

ORDER	Duty, cylinder and pump, legs and jaws, alignment, build and prove. The alignment and the proof are the two that a quick job skips.
LIMITS	Forces, pressures, strokes, capacities and shaft sizes come from the customer's duty, and are not printed here.

CONFIGURATIONS

PORTABLE	A portable puller set: a cylinder, a pump, legs and jaws, carried to the machine.
TROLLEY	A trolley-mounted puller: a cylinder held on the centreline of the shaft, for large machines with heavy parts.
PUSH-PULL	A push-pull set: the same cylinder draws a part off, and with the right adapters presses a part on.

STANDARDS & SCOPE

STANDARDS	Public reference: ISO 4413 for the safety of hydraulic systems, and ISO 12100 for the general principles of design for machinery.
SCOPE BOUNDARY	It is the hydraulic puller system: not a jack, not a spreader, not a torque wrench and not a press.
STATUS	Neometrix has quoted against successive hydraulic puller and bearing puller requirements, and no delivered hydraulic puller system is claimed.

DEFENCE PROGRAMMES DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com

Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India