

HPU Series Hydraulic Grip Power Supply Unit



1. Applications

Material tensile testing, mechanical property testing and metallurgy/material research labs, universities, industrial quality inspection departments.

HPU-21: Supply steady hydraulic power for standard hydraulic grips, adapt to common material testing machines and high-temperature environmental chamber testing; enable non-hydraulic testing machines to be retrofitted with hydraulic grips.

HPU-70: Provide ultra-high hydraulic pressure for special heavy-duty hydraulic grips that exceed normal system pressure, used for high-strength material specimen clamping.

2. Applicable Standards

GB/T 228 Metallic materials — Tensile testing at room temperature

ASTM E8 Standard Test Methods for Tension Testing of Metallic Materials

ISO 6892 Metallic materials — Tensile testing

General hydraulic system safety & testing standards for material test equipment

3. Technical Parameters

HPU-21 Stand-Alone Hydraulic Grip Supply

Motor power: 1 kW

Oil tank volume: 18 L

Filter precision: 10 micron return oil filter

Function: Adjustable clamping pressure & clamping speed, continuous long-term operation,

compatible with high-temperature environment chambers

Accessories: complete connecting hydraulic hoses

Feature: Independent valve control for upper/lower grips, center detent anti-over-grip structure

HPU-70 Hydraulic Grip Intensifier

Standard versions: 45 MPa / 69 MPa

Adjustable pressure range: 10 MPa ~ rated maximum pressure

Optional: high-flow upgrade kit for large grips

Core design: constant pressure system, independent flow control valve, separate non-interfering grip hydraulic circuits

Feature: high pressure clamping, compatible with various electrical interfaces, easy maintenance