

Indian Machine Tools

INTRODUCTION

The Precision Test Benches of different models have been designed for quick, accurate and economic operation with a quality target of zero defects. The powerful variable speed drive provides the necessary power to test a wide range of pumps through large fly wheel, this range covers almost all types of rotary, distributor and in line pumps upto 12 cylinders. Speed can be controlled by hand wheel provided on both sides of Test Bench depending upon the machine. Controls have also been provided very consistently. The different models consists of four types of drives, i.e. model of the mechanical, hydraulic, speed variator and AC/DC motor electronically driven.

BENEFITS & QUALITY

The Precision FIP Test - Benches are quieter in operation without vibration. All the models have high effective driving power and torque even at low speed, maximum measurement accuracy for setting of right or left hand driven injection pumps. Only Test Bench which has adequate drive power and high torque , good even running characteristics exact speed control and a stiff non - distorting bed can guarantee precise and accurate adjustment of pumps , governors, timing devices which enables easy measurements of the rack movements at constant torque.

MAIN FEATURES

*Robust electronic Controls with touch button control panel, easy to read MICRO processor based digital display electronic Tacho counter with built in self check and stroke counting (100 to 1200) can be preset with display of stroke time in fraction of a second.

*Hydraulic / Variator / AC Frequency Invertor / DC Drive

Test benches are fitted with international standard inputs i.e. electrical motors, variable speed drives bearing and other critical components.

*Speed Range is in between 50-100-3000-3500 rpm (depending upon the Drive ordered).

*Rugged Construction and easy to use design.

*Swivelling injector console with 6, 8 or 12 measuring points with open Graduate Calibration System swivels through 180 degrees, Injectors fitted with DN 12 SD !2 nozzles are fitted as standard.

*Freely located and swivelling injectors.

*High pressure Phasing and oil supply with soundless gear pump driven by independent motor. Analog pressure gauges (5 - 7 litres / min.) oil supply.

*All necessary equipment to drive majority of distributor pumps and in-line pumps including Rotary manufactured by BOSCH / MICO, Lucas / Zexel and Deutz.

STANDARD ACCESSORIES AND ATTACHMENTS

*Bracket for flange mounted in line pumps.

*Quick action clamp for base mounted in line pump.

*Bracket plate for distributor and DPA hydraulic governor pumps.

*6 , 8 or 12 Test Injectors.

*6 , 8 or 12 Test High Pr. Pipes 600 X 6 X 2 (M14/M14 Nuts).

*6 , 8 or 12 Test High Pr. Pipes 600 X 6 X 2 (M12/M14 Nuts).

*Setting blocks for 'A' & 'B' types of pumps.

*Graduated Glass test tubes individually calibrated with mercury

*One phasing bar.

*One machine lamp.

*Set of perforated trays for keeping tools.

*backlash free Flexible coupling with diameter 96mm fitted as standard.

*Wooden drawer for keeping handy tools.

*Digital electronic temp. meter.

*Digital electronic volt meter.

*Oil Tank with 40 - 45 Ltrs. Capacity.

Note: The above mentioned accessories are provided with every model.

Pressure & Vacuum Gauges

Low Pressure	0 - 7 Kg/cm ²	0 - 100 lbs/in ²
High Pressure	0 - 42 Kg/cm ²	0 - 600 lbs/in ²
For Rotary & Distributor Transfer Pressure	0 - 14 Kg/cm ²	0 - 200 lbs/in ²
Vacuum Gauge	0-760 Kg/cm ²	0 - 30 In/Hg

Gauges fitted according to the model of the machine

Special Accessories and Attachments

- *Driving Attachment for Rotary CAV & DPA Pumps (Bearing type with adjustable height).
- *Feed Pump Tester with 1000 CC Jar, Pressure Gauge and drain valve can measure the back leakage of FEED pumps and rotary pumps.
- *Cam Box for single cylinder pumps.
- *DC Power Supply : Both 12V and 24V.
- *Heating With Digital Electronic Temp Controller with automatic cut off set at 400c + 50c
- *Dial Gauge with Stand For Rack Travel Checking.
- *One set toothed quill shaft with coupling for CAV / DPA rotary pumps and mounting plate.
- *Manifold pressure compensator.
- *DPC tool kit for rotary pumps.

Note: The above mentioned accessories can be ordered separately at extra cost.