

## Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-C8000/TS	Hydraulic Power Pack and Digital Data Acquisition & Control System	36x38x91	100	220 V, 50-60 Hz, 1 ph

## Spare Parts & Accessories:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-C8001	Hydraulic Power Pack	36x38x91	98	220 V, 50-60 Hz, 1 ph
HR-C8002/TS	H-Touch Pro Max Control Unit	---	---	220 V, 50-60 Hz, 1 ph
HR-C8003	High Precision Pressure Transducer	---	---	---
HR-C8004/TS	H-GUI Software	---	---	---
HR-G0975	Computer & Printer	---	---	220 V, 50-60 Hz, 1 ph
HR-G0975/1	Usb to com port Converter	---	---	---
HR-G0979	Thermal Printer	---	---	---
HR-G0979/1	Thermal Printer roll for printer (pack of 10 rolls)	---	---	---

## SEMI-AUTOMATIC (MOTORIZED) HYDRAULIC POWER PACK AND DIGITAL READOUT UNIT

### *Semi-Automatic (Motorized) Hydraulic Power Pack*

The Semi-Automatic (Motorized) Power Pack, controlled by a pressure rate control valve is designed to supply the required oil to the load frames for loading. The power pack can load different frames with required pace rates. A pump is supplied as standard. The power pack is equipped with a safety valve (maximum pressure valve) to avoid machine overloading. Maximum working pressure of the system is 400 bar.



**HR-C9000**



### **Dual Stage Pump**

The dual stage pump is formed by two groups;

1. Low pressure gear pump
2. High pressure radial piston pump

On the dual stage pump, a high delivery, low pressure gear pump is used for rapid approach, while a low delivery, high pressure radial piston pump is used for test execution. The rapid approach facility shortens the time interval from piston start until the upper platen touches to the specimen. This excellent feature helps to save a lot of time when a large number of specimens are going to be tested.



### **Motor**

The motor which drives the pump in an AC motor.

### **Distribution Block**

A distribution block is used to control the oil flow direction supplied by the pump.

Loading and unloading process and pace rate adjustment is done from the arms on the distribution block.



The following parts are fitted to the distribution block; Safety valve (max. pressure valve) and Transducer.

# HİRA TESTING EQUIPMENT



## High Precision Pressure Transducer

The HİRA range of Semi-Automatic Machines can be upgraded with option High Precision Pressure Transducer special calibration Class 1 starting from 1% of the full range.

This unique performance enables the machines to be used for a considerable number of applications including:

- Early age (2 or 3 days) compression strength tests
- Flexural and splitting tests by using proper accessories
- Mortar (Cement) compression tests by using proper accessories
- Core Testing



**HR-C8003**



## Oil Tank

The tank includes enough oil to fill the mechanism which pushes the ram during the test. The level and oil temperature can be seen on the indicator fitted to the tank. It has 15 L capacity. Hydraulic motor oil, number 46, must be used.

## Digital Readout Unit

The Digital Readout Unit has been designed to use with load cells or pressure transducers on different material test applications.

The peak value and the load change during the test are displayed on the screen.

- Peak hold property
- Easy preload zeroing
- 5 Digits
- Multi-point Calibration



**HR-C9002**

## LPI Digital Readout Unit

LPI Digital Readout Unit is used for reading of the applied load on load cells or pressure transducers in different material test applications.

- Can operate with 2 x AA batteries or 5V AC adapter
- Real time numeric display of load and load pressure
- 1 channel with two different calibration table (by changing the sensor belong to other frame, the unit can be control for second test frame)
- Peak hold property
- Multi-point calibration
- Easy preload zeroing
- 8 keys keyboard
- RS232 Serial port for PC or thermal or dot matrix printer



**HR-C9002/LPI**

### Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-C9000	Semi-Automatic Hydraulic Power Pack and Digital Readout Unit	36x38x91	70	220 V, 50-60 Hz, 1 ph
HR-C9000/LPI	Semi-Automatic Hydraulic Power Pack and LPI Digital Readout Unit	36x38x91	70	220 V, 50-60 Hz, 1 ph

### Spare Parts & Accessories:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-C9001	Semi-Automatic Hydraulic Power Pack	36x38x91	70	220 V, 50-60 Hz, 1 ph
HR-C9002	Digital Readout Unit	10x9x5	0,300	220 V, 50-60 Hz, 1 ph
HR-C9002	LPI Digital Readout Unit	15x20x20	1	220 V, 50-60 Hz, 1 ph
HR-C8003	High Precision Pressure Transducer	---	---	---