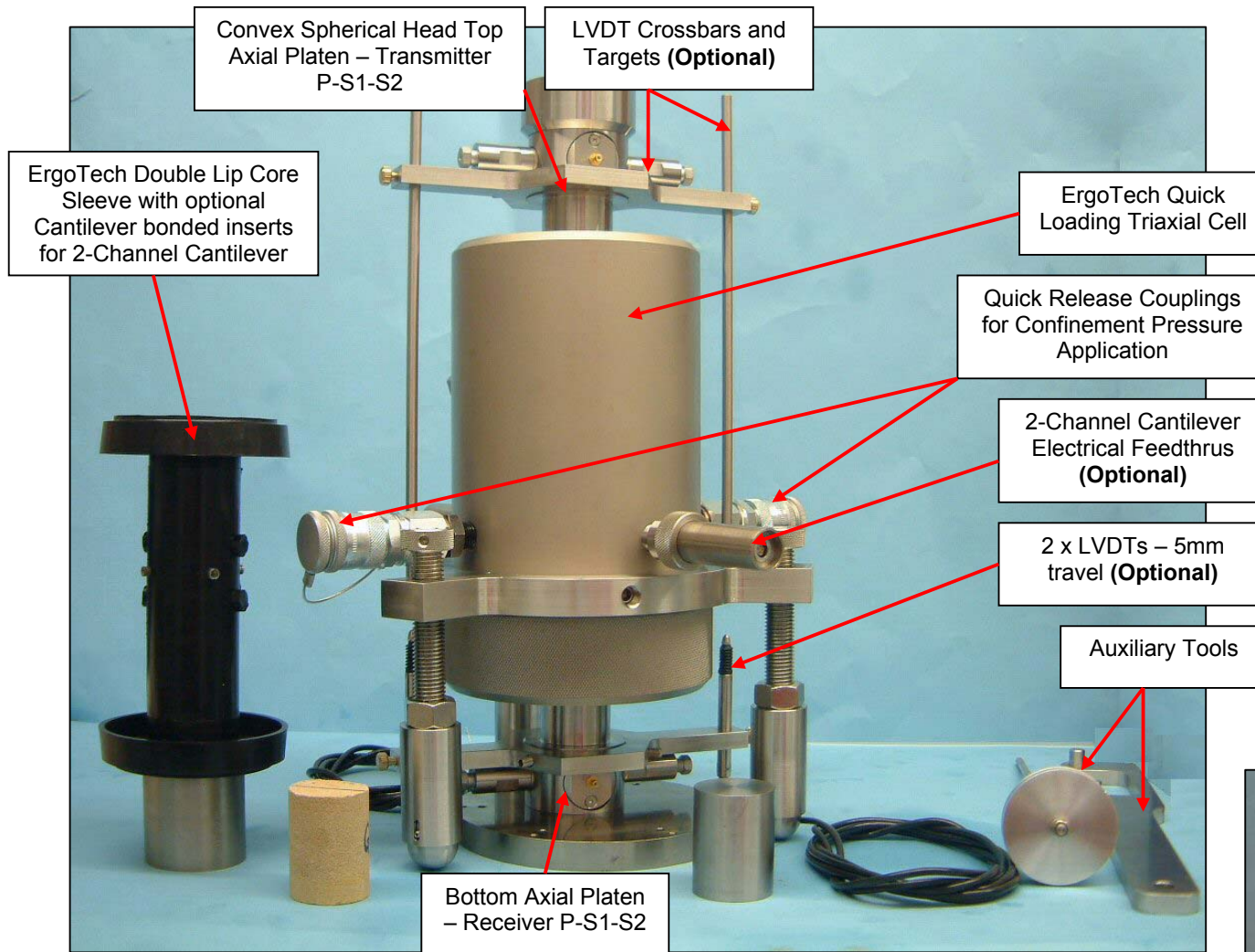


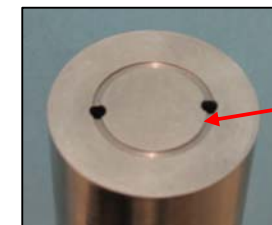
TRIAxIAL ACOUSTIC P-S1-S2 SYSTEM FOR Ø38.1mm (Ø1.5") SAMPLES COMPLETE WITH STRAINING FRAME



Features:

- Axial load applying platens incorporating P-S1-S2 acoustic transducers
- Standard 69MPa (10,000PSI / 690BAR) Confining Pressure
- Standard 67MPa (9,700PSI / 670BAR) Pore pressure. Pore pressure is applied through two flow ports to flow distribution grooves on the axial platen face plates
- **OPTIONAL:** 2 channel strain gauged cantilever in the cell annulus for radial deformation measurements
- **OPTIONAL:** 2 LVDTs externally mounted on the axial platens for axial deflection measurement
- **OPTIONAL:** Signal conditioning / data capture electronics and Software
- This apparatus can be used in conjunction with the clients Load / Straining Frame; alternatively a Straining Frame can be supplied by ErgoTech (**OPTIONAL**)
- **OPTIONAL:** Internal Heater capable of 200°C (requires the Software and Electronics option)
- **OPTIONAL:** Resistivity measurement option
- **OPTIONAL:** Confinement and Pore fluid pumping systems

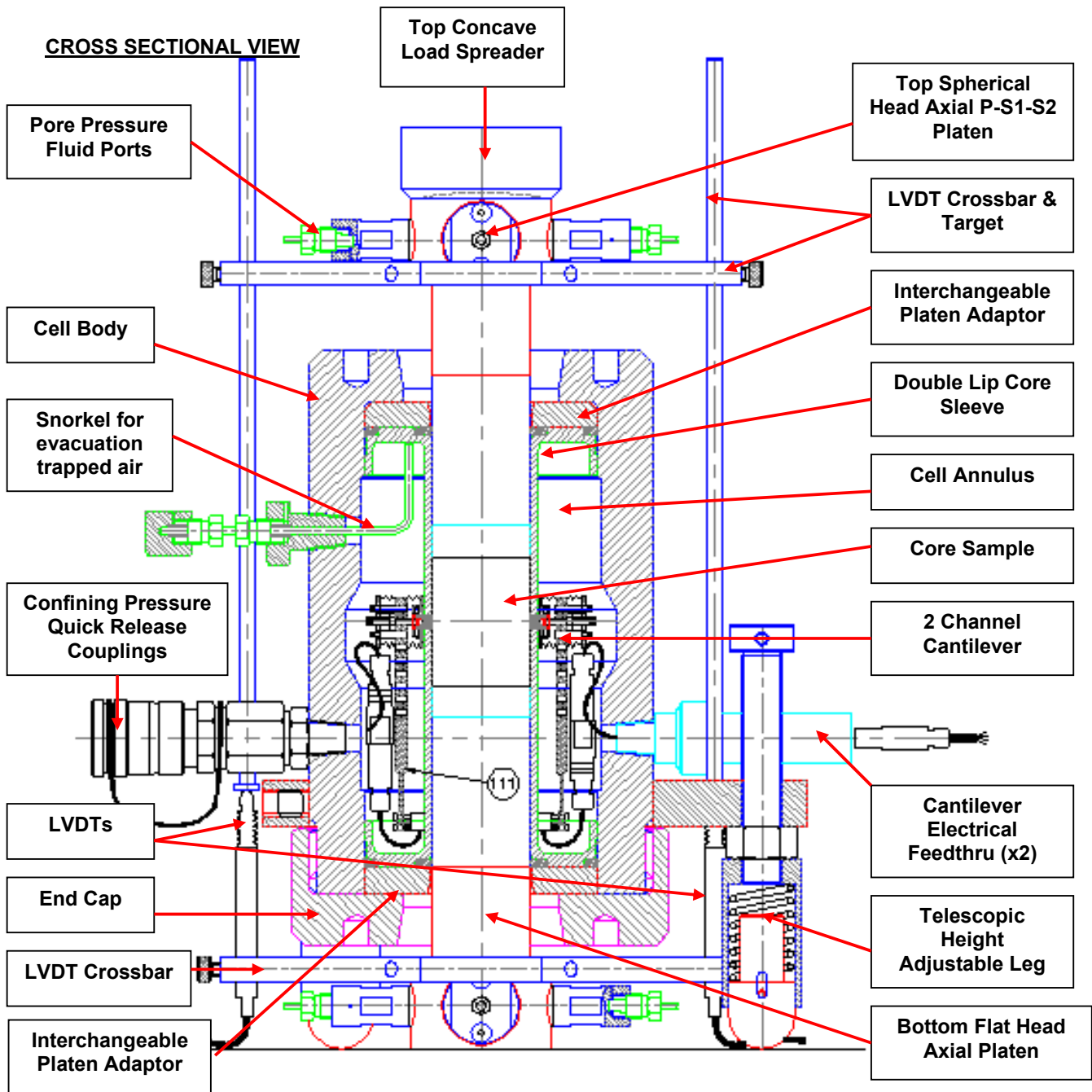
NOTE: If all options are required, please see the "Floor Standing Acoustic System specification"



Pore Fluid Distribution Groove

TRIAxIAL ACOUSTIC P-S1-S2 SYSTEM FOR Ø38.1mm (Ø1.5") SAMPLES COMPLETE WITH STRAINING FRAME

ErgoTech Ltd
 Unit 3 Cae Ffwf Business Park
 Glan Conwy
 Conwy LL28 5SP U K
 Tel. (44) (0)1492 592684
 Fax. (44) (0)1492 592685
 E-mail: sales@ergotech.co.uk
 Web Site: www.ergotech.co.uk

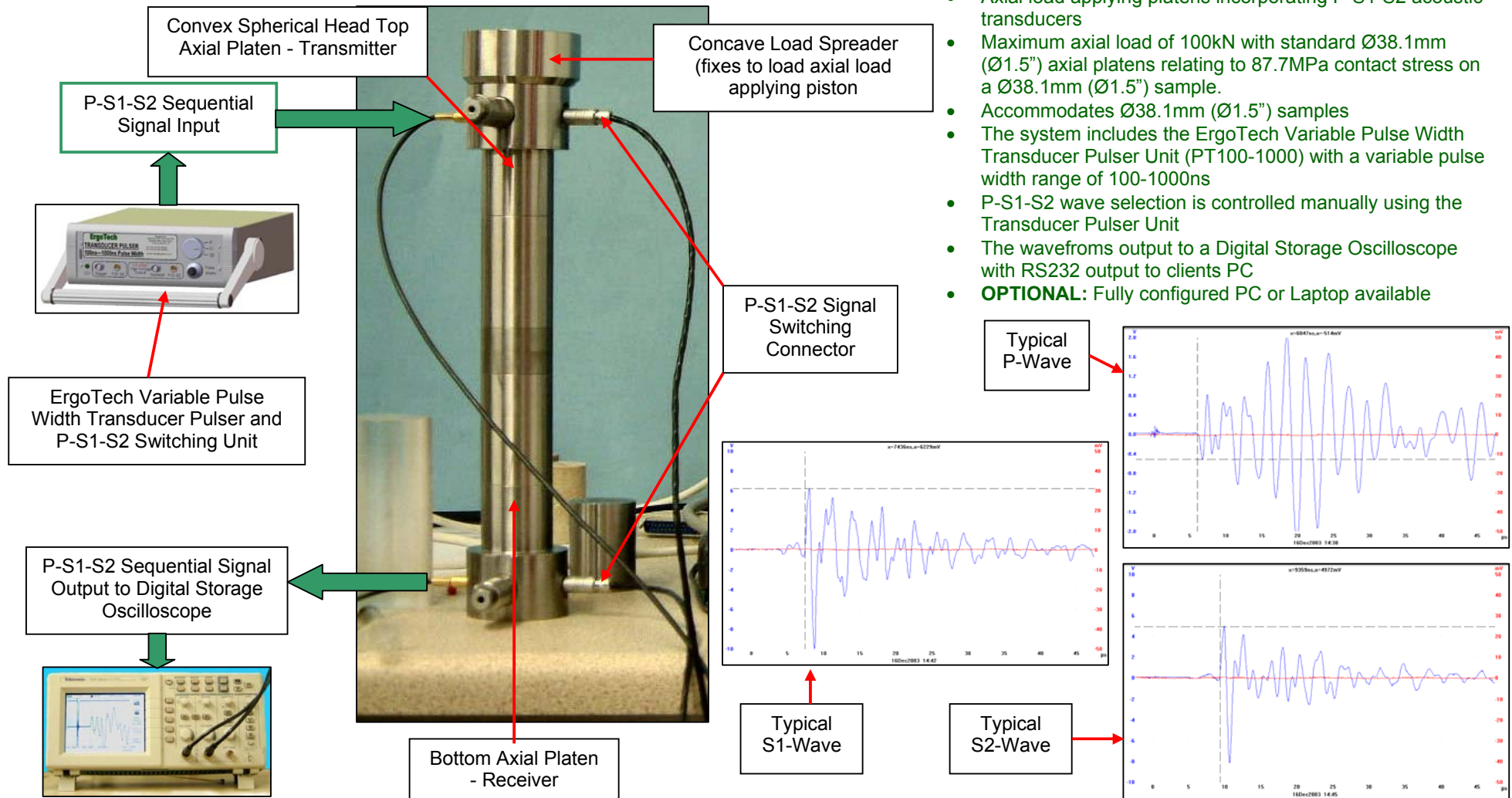


- This unique design allows rapid loading / unloading of samples without the necessity to drain the confinement fluid and remove the core sleeve.
- The core sleeve is only be removed when adapting the cell for other sample diameters (Ø1.5" setup shown here) or to replace a damaged / worn core sleeve.
- The platen adaptors are interchangeable, as a result this one cell can be configured to accept the specified sample diameters listed on the previous page.
- This Triaxial system allows independent axial and confinement pressures. Note: Axial pressure must always be maintained approx 2MPa above Confinement Pressure to avoid damaging the Double Lip Core Sleeve

TRIAxIAL ACOUSTIC P-S1-S2 SYSTEM FOR Ø38.1mm (Ø1.5") SAMPLES COMPLETE WITH STRAINING FRAME

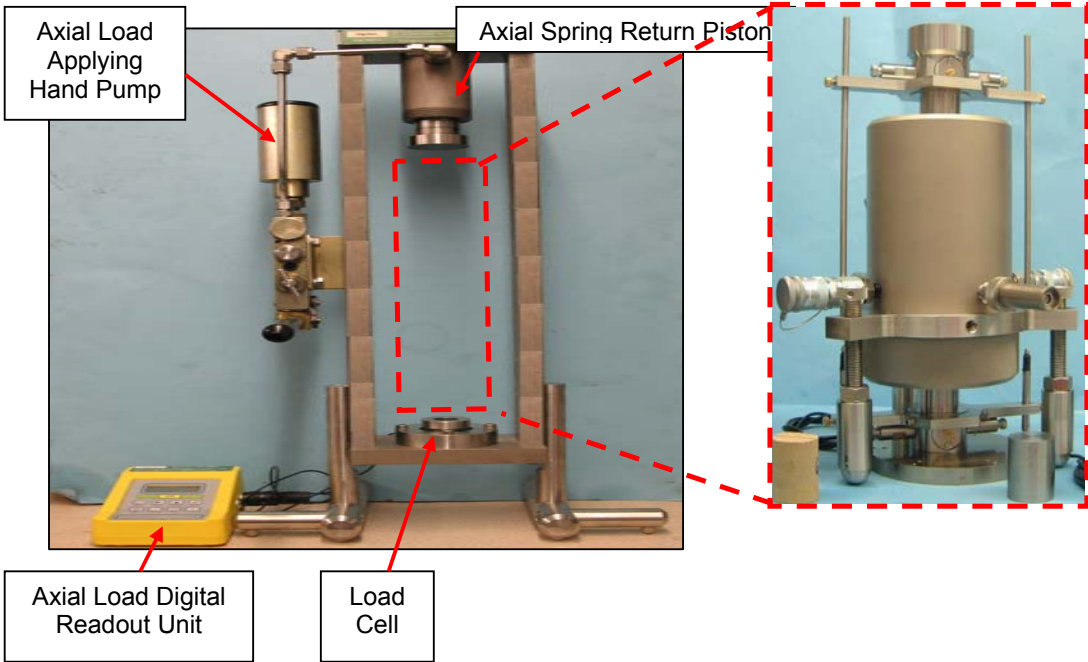
Features:

- Axial load applying platens incorporating P-S1-S2 acoustic transducers
- Maximum axial load of 100kN with standard Ø38.1mm (Ø1.5") axial platens relating to 87.7MPa contact stress on a Ø38.1mm (Ø1.5") sample.
- Accommodates Ø38.1mm (Ø1.5") samples
- The system includes the ErgoTech Variable Pulse Width Transducer Pulser Unit (PT100-1000) with a variable pulse width range of 100-1000ns
- P-S1-S2 wave selection is controlled manually using the Transducer Pulser Unit
- The waveforms output to a Digital Storage Oscilloscope with RS232 output to clients PC
- **OPTIONAL:** Fully configured PC or Laptop available



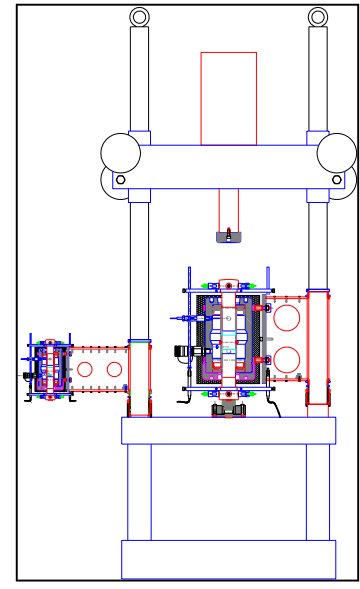
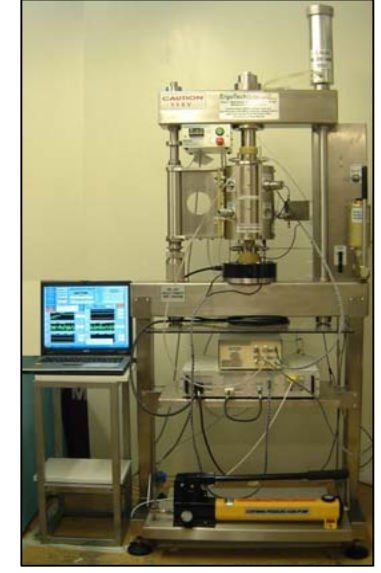
This manual is copyright (c) and the associated procedure is the property of ErgoTech. It is issued confidentially to parties interested in acquiring the process and to authorised/licensed clients using it. The manual is not to be reproduced or circulated by any parties without the written consent of ErgoTech which will not be unduly withheld. The manual must not be mounted on any display boards or reproduced in reports without the written consent of ErgoTech. When permission is granted the reproduction must be identical to the original and the ownership the manual and the process embodied acknowledged to ErgoTech by displaying "ErgoTech (c)"

TRIAxIAL BENCH TOP ACOUSTIC P-S1-S2 SYSTEM FOR Ø38.1mm (Ø1.5") SAMPLES COMPLETE WITH STRAINING FRAME



OTHER APPARATUS – FLOOR STANDING ACOUSTIC SYSTEM

Should you require the all / most of the optional extras detailed in this technical information document; you may wish to consider the "FLOOR STANDING ACOUSTIC SYSTEM" pictured here which contains all options on a robust floor standing 100kN frame



OTHER APPARATUS – DOUBLE CELLED FLOOR STANDING FRAME

This option accommodates two cells on one high integrity floor standing frame.

The smaller Cell accepts Ø1", Ø1.5" & Ø2" Core Samples

The Large Cell accepts Ø2.625", Ø3", Ø3.5" & Ø4"

Features:

- Bench top Straining Frame capable of axial loads of 100kN (10 tons)
- The straining frame comes complete with load cell and digital readout unit for axial load readouts (or OPTIONAL signal conditioning / data capture electronics and software)
- The spring loaded axial load applying piston comes complete with hand pump mounted on the side of the straining frame