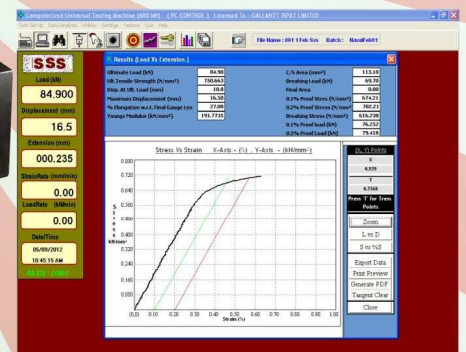


# UNIVERSAL TESTING MACHINE

## Features

- ✓ FRONT LOADING CROSSHEADS WITH EASY GRIP CHANGING
- ✓ HYDRAULIC GRIPPING
- ✓ SERVO CONTROL FOR LOAD/STRAIN RATE CONTROL
- ✓ MANUAL AS WELL AS COMPUTER CONTROL



# TECHNICAL SPECIFICATIONS

| MODEL : SSS                                                      | UNITS  | UTE<br>FLG -<br>10  | UTE<br>FLG -<br>20  | UTE<br>FLG -<br>40  | UTE<br>FLG -<br>60  | UTE<br>FLG -<br>100 | UTE<br>FLG -<br>150  | UTE<br>FLG -<br>300  |
|------------------------------------------------------------------|--------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Maximum Capacity                                                 | kN     | 100                 | 200                 | 400                 | 600                 | 1000                | 1500                 | 3000                 |
| Measuring Range                                                  | kN     | 0-100               | 0-200               | 0-400               | 0-600               | 0-1000              | 0-1500               | 0-3000               |
| Load Resolution                                                  | N      | 10                  | 20                  | 40                  | 60                  | 100                 | 150                  | 300                  |
| Load Range with $\pm 1$ % accuracy                               | kN     | 2-100               | 4-200               | 8-400               | 12-600              | 20-1000             | 30-1500              | 60-3000              |
| Resolution of piston movement                                    | mm     | 0.1                 | 0.1                 | 0.1                 | 0.1                 | 0.1                 | 0.1                  | 0.1                  |
| Clearance for tensile at fully descended working piston          | mm     | 50-700              | 50-700              | 50-700              | 50-800              | 50-850              | 50-900               | 50-900               |
| Clearance for Compression test at fully descended working piston | mm     | 0-700               | 0-700               | 0-700               | 0-800               | 0-850               | 0-900                | 0-900                |
| Clearance between columns                                        | mm     | 500                 | 500                 | 500                 | 600                 | 750                 | 850                  | 850                  |
| Ram Stroke                                                       | mm     | 150                 | 200                 | 200                 | 250                 | 250                 | 300                  | 300                  |
| Straining/piston speeds (at no Load)                             | mm/min | 0-300               | 0-150               | 0-150               | 0-100               | 0-80                | 0-45                 | 0-45                 |
| Power : 3 ph, 50 Hz, 415 VAC                                     | kW     | 1.0                 | 1.0                 | 1.7                 | 1.9                 | 2.6                 | 4.9                  | 6.4                  |
| Dimensions<br>L X W X H (approx.)                                | mm     | 2032<br>750<br>1960 | 2032<br>750<br>1960 | 2060<br>750<br>2180 | 2265<br>750<br>2534 | 2415<br>815<br>2900 | 3000<br>1200<br>3000 | 3500<br>1900<br>4550 |
| Weight (approx.)                                                 | Kg     | 1500                | 1500                | 2500                | 3500                | 5500                | 8000                 | 15000                |

## STANDARD ACCESSORIES

### FOR TENSION TEST

|                                                |    |                |                |                |                         |                         |                         |                         |
|------------------------------------------------|----|----------------|----------------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Clamping jaws for round Specimens of diameters | mm | 10-20<br>20-30 | 10-20<br>20-30 | 10-25<br>25-40 | 10-25<br>25-40<br>40-55 | 10-25<br>25-45<br>45-70 | 20-40<br>40-60<br>60-80 | 25-50<br>50-70<br>70-90 |
| Clamping jaws for flat Specimens of thickness  | mm | 00-10<br>10-20 | 00-10<br>10-20 | 00-15<br>15-30 | 00-15<br>15-30          | 00-22<br>22-44<br>44-65 | 00-20<br>20-45<br>45-70 | 00-25<br>25-50<br>50-75 |
| Width                                          | mm | 50             | 50             | 65             | 70                      | 70                      | 90                      | 100                     |

### FOR COMPRESSION TEST

|                                        |    |     |     |     |     |     |     |    |
|----------------------------------------|----|-----|-----|-----|-----|-----|-----|----|
| Pair of compression plates of diameter | mm | 120 | 120 | 120 | 120 | 160 | 220 | 20 |
|----------------------------------------|----|-----|-----|-----|-----|-----|-----|----|

### FOR TRANSVERSE TEST

|                                                 |    |      |      |       |       |       |       |       |
|-------------------------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Table with adjustable rollers. Width of rollers | mm | 160  | 160  | 160   | 160   | 160   | 200   | 200   |
| Diameter of rollers                             | mm | 30   | 30   | 30    | 50    | 50    | 70    | 70    |
| Maximum clearance between supports              | mm | 500  | 500  | 500   | 600   | 800   | 900   | 1000  |
| Radius of punch tops                            | mm | 6,12 | 6,12 | 12,16 | 16,22 | 16,22 | 30,40 | 50,75 |

## SPECIAL ACCESSORIES & OPTIONS

- Load Stabilizer
- Shear Test attachment
- Load full scale of 20,000 or 50,000 counts
- Printer
- Serial communication port with software package
- Piston movement resolution of 0.01mm
- Brinell Test attachment
- Mechanical extensometer
- Load Rate and Strain Rate indication
- Electronic extensometer for proof stress
- High Temperature Furnace
- Electronic extensometer up to breakage

- Wide range of accessories offered on the request at additional cost
- Due to constant R&D specifications and features are subject to change without notice
- The dimensions given above are approximate



**SSS INSTRUMENTS**

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