

HYDRAULIC TYPE DTU-HS Series

본 제품은 기존 DTU-HB Series의 보급형 모델로써 정밀도와 기능은 100% 동일하나 사이즈가 작고 시험 가능 범위가 50mm 짧습니다.

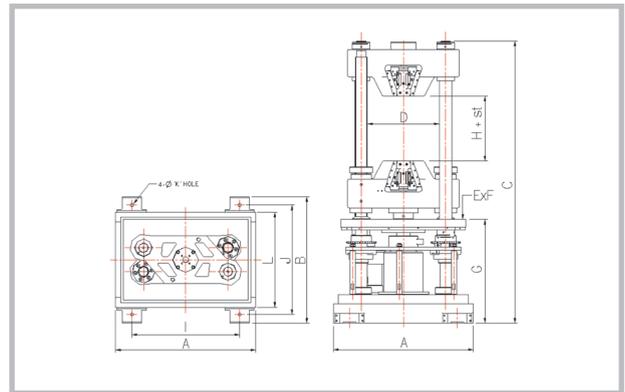
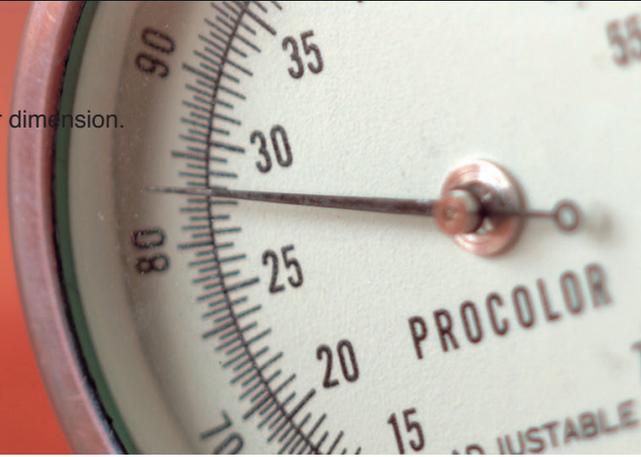
This model is economical type of DTU-HB Series with lower testing length and smaller dimension.

DTU-HB Series 모델과의 차이점

- 크기가 작습니다.
- 실험 가능 길이가 짧습니다.
- 시료의 길이에 제한이 있습니다.

Differences between DTU-HB Series & DTU-HS

- Smaller in dimension
- Shorter testing range (150mm stroke)
- Limitation over sample length



| Series | Size | A | B | C | D | E | F | G | H | st | I | J | K | L | Weight (Approx.-kg) |
|--------|------|-------|-------|-------|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|---------------------|
| 300 kN | | 1,080 | 969 | 2,184 | 510 | 960 | 620 | 809 | 500 | 150 | 830 | 857 | Ø25 | 767 | 2,500 |
| 500 kN | | 1,080 | 969 | 2,184 | 510 | 960 | 620 | 809 | 500 | 150 | 830 | 857 | Ø25 | 767 | 2,500 |
| 1 MN | | 1,280 | 1,064 | 2,700 | 590 | 1,100 | 650 | 930 | 540 | 170 | 1,030 | 952 | Ø25 | 862 | 4,500 |

사양 | SPECIFICATIONS

| SPECIFICATIONS | | SERIES | 300 kN | 500 kN | 1 MN | 2 MN | 3 MN | 5 MN |
|---|---------------------------------------|---|--------|---------|-------------------|---------|---------|------|
| 가압방식 (Loading System) | | Computerized Numerical Control System Operated AC Servo Motor | | | | | | |
| 전원전압 (Power Source) | | AC 220V, 3phase, 50/60Hz or AC 380V, 3phase, 50/60Hz | | | | | | |
| 최대용량 (Max. Capacity) | kN | 300 | 500 | 1,000 | 2,000 | 3,000 | 5,000 | |
| | kgf | 30,000 | 50,000 | 100,000 | 200,000 | 300,000 | 500,000 | |
| 분해능 (Resolution-21Bits) Max. 24Bits | N | 4.6 | 7.7 | 16 | 31 | 46 | 77 | |
| | kgf | 0.46 | 0.77 | 1.6 | 3.1 | 4.6 | 7.7 | |
| 크로스헤드 모터용량 (Cross Head Motor Capacity) | kW | 0.4 | 0.75 | | 1.5 | | 3 | |
| 모터용량 (Pump AC Motor Capacity) | kW | 2.2 | 2.2 | 2.2 | 5.5 | 5.5 | 7.5 | |
| 시험속도 (Cross-Head Speed) | 0.1 ~ 100 mm/min | | | | | | | |
| 정밀도 (Accuracy) | Testing Load Accuracy – Within ±0.4% | | | | | | | |
| | Testing Speed Accuracy – Within ±1.5% | | | | | | | |
| Cross-Head Moving System | | Screw Bar Elevating System with AC Geared Motor Remote Controller – ▲(Up), ▼(Down), Speed – 300mm/min, 225mm/min (2MN/3MN) | | | | | | |
| 안전장치 (Safety Function for Over-Loading) | | N.F.B, Software protect of 95% F.S | | | | | | |
| 위치안전장치 (Stroke Limiter) | | (160 ~ 180)mm – Limiter S/W | | | | | | |
| 파단감지 (Sample Break Detection) | | 1. Auto 2. User Defined | | | | | | |
| 센서 (Sensor) | | Load Detector – Load Cell Stroke Detector – Encoder (5,000 Pulse) | | | | | | |
| 시험가능높이 (Height of M/C) | | Refer Drawing (H+ST) | | | | | | |
| 기본악세서리 (Standard Accessory) | | 1. Tools Box 2. Tensile Grips (1set) 3. Rod Grips (1set) 4. Compression Plate | | | | | | |
| 컴퓨터사양 (PC Specification) | | Popular Type | | | | | | |
| Control Panel | | PC Table & Hyd. Unit | | | | | | |
| 무게 (Weight) | kg | Refer (Weight) | | | | | | |
| 기계높이 (Height of M/C) | mm | Refer (C) | | | | | | |
| 작업가능공간 (Working Space) | mm | Refer (E×F) | | | | | | |
| 시험모드 (Test Mode) | | Tensile, Compress, Bending, Constant Force Test | | | | | | |
| PC 환경 (OS) | | Windows 10 (32 bit) | | | | | | |
| 물림부 (Jaws) | | Flat (1set), Round Jaws (1set) : 아래 도표 별도 참조 | | | | | | |
| 신율계 (Extensometer) | | Laser encoder, Optical encoder | | | | | | |
| 분해능 (Resolution) | | 0.01 mm | | | | | | |
| 제어방식 | | Servo Valve Type | | | | | | |
| 로드셀 정밀도 (Accuracy of Load cell) | Within ±0.03%(F.S) | | | | Within ±0.2%(F.S) | | | |
| | Maker – DT&T, Korea | | | | | | | |
| Oil Tank Capacity | | 60 ~ 200 ℓ | | | | | | |
| Pump Type | | Gear Pump | | | | | | |
| 제어부 (Control Board) | | A/D Board : 17 ~ 21 Bits, D I/O : 8 ~ 16 ch, 32Bits DSP Board | | | | | | |

※ 상기 사양은 품질개선을 위하여 사전 예고없이 변경될 수 있습니다.

| | | DTU-HS Series | | | DTU-HB Series | | | | |
|-------------|---------------------|---------------|--------|-------|---------------|--------|-------------|-------------|-------------|
| 물림부 | Jaw | 300 kN | 500 kN | 1 MN | 300 kN | 500 kN | 1 MN | 2 MN | 3 MN |
| 평판 물림부 폭 | Flat jaw width | 65 | 65 | 80 | 65 | 65 | 80 | 110 | 110 |
| 평판 물림두께 | Flat jaw thickness | 0~35 | 0~35 | 0~50 | 0~35 | 0~35 | 0~50 | 0~80 | 0~80 |
| 환봉 물림직경 (∅) | Rod jaw diamete (∅) | 12~35 | 12~35 | 20~40 | 12~35 | 12~35 | 20~40/45~65 | 15~30/30~60 | 15~30/30~60 |
| 상하 물림부 길이 | Jaw depth | 88 | 88 | 110 | 88 | 88 | 110 | 140 | 150 |