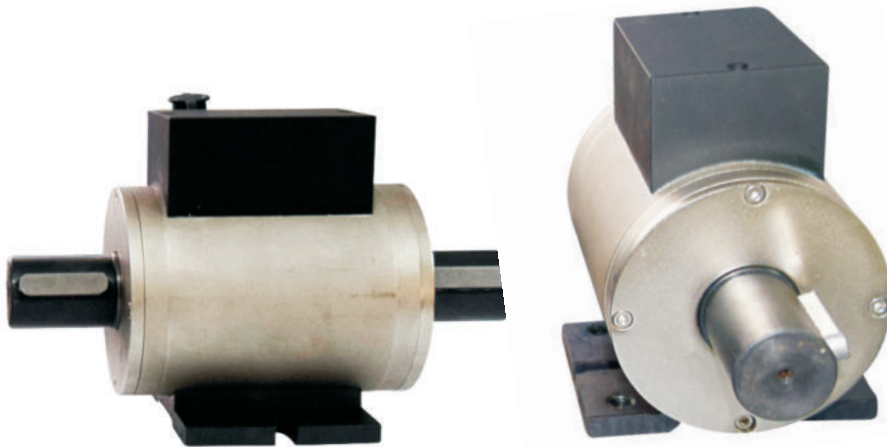


Dynamic Torque Sensor



GTS200



APPLICATION

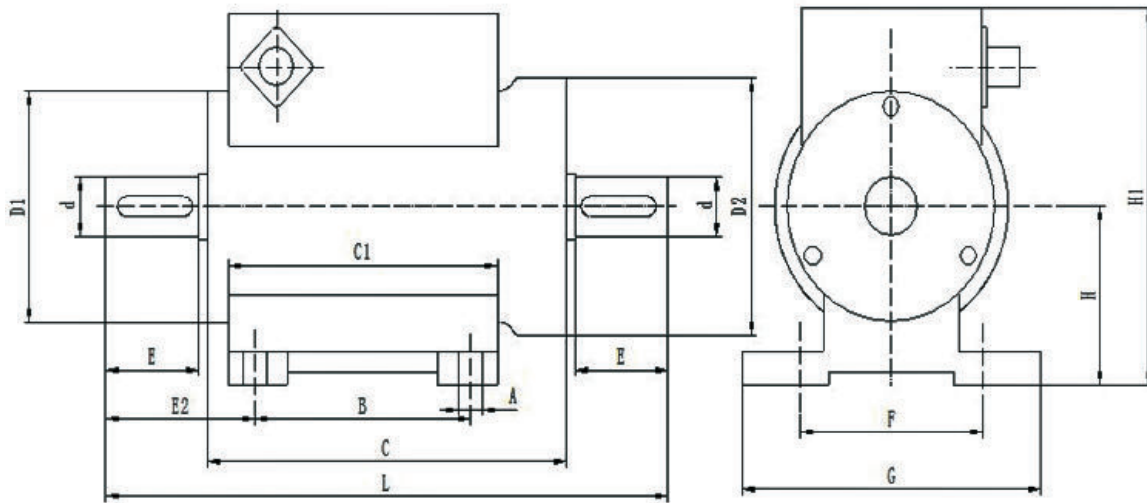
Digital Dynamic Torque Tester is a high precision testing measuring machine which is used for testing all kinds of torque, speed and mechanical power, which can be widely used as followings:

- 1.To test the output torque and power of motor,engine,internal-combustion engine.
- 2.To test the torque of fan,water pump,gearbox and torque wrench even their power.
- 3.To test the torque and power of railway locomotive, car, tractor, airplane, ship,mining machine.
- 4.It can be used in sewage disposal system to test its torque and power.
- 5.It can be used in manufacturing viscometer.
- 6.It can be also used for process industry and flow industry.

FEATURES

- 1.Boot 5 minutes into the working status, not need preheating course.
2. high accuracy, good stability and anti-jamming.
3. Do not need repeated zero setting can measure positive and negative torque.
4. Small volume, light weight, easy to install.
5. The sensor can be used independently of the secondary instrument to directly output a frequency signal or analog that is proportional to the torque.

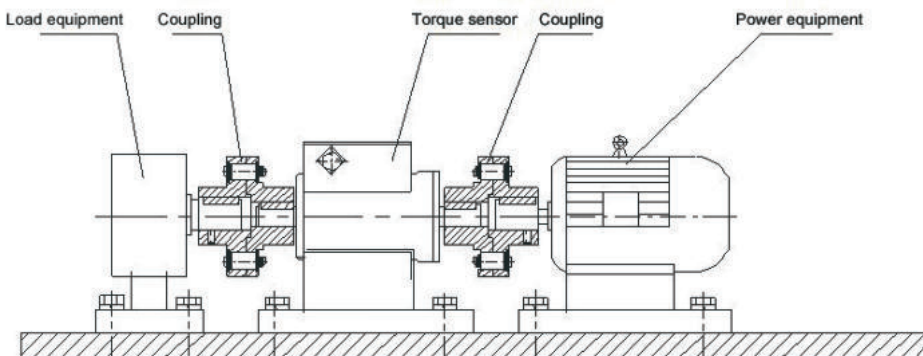
DETAILS:(mm)////



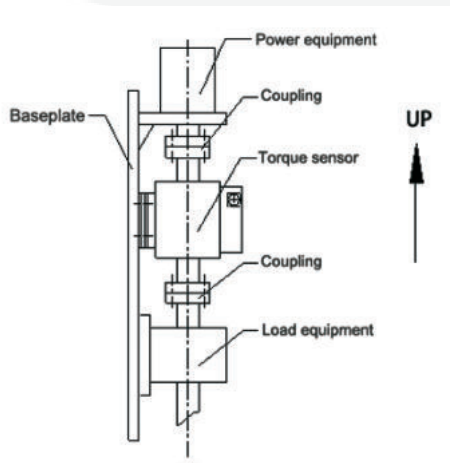
Range(N.M)	ϕd	$\phi D2$	A	B	C	E	F	G	H	H1	C1	E2	L	Key b*h*l*n
5	18	78	8	72	122	31	61	100	54	116	90	50	188	6x6x25x1
10	18	78	8	72	122	31	61	100	54	116	90	50	188	6x6x25x1
20	18	78	8	72	122	31	61	100	54	116	90	50	188	6x6x25x1
30	18	78	8	72	122	31	61	100	54	116	90	50	188	6x6x25x1
50	18	78	8	72	122	31	61	100	54	116	90	50	188	6x6x25x1
100	18	78	8	72	122	31	61	100	54	116	90	50	188	6x6x25x1
200	28	92	8	72	123	41	61	100	60	125	90	59	209	8x7x35x1
500	38	96	8	72	124	55	61	100	65	135	90	74	238	10x8x50x2
1k-2k	48	106	12	69	126	70	78	120	68	144	90	90	270	14x9x65x2
5000	75	144	12	69	131	105	156	180	90	185	100	139	347	20x14x95x2
10000	98	158	14	80	143	118	170	200	110	214	110	155	389	28x16x115x2
20k-30k	105	170	14	87	160	125	180	204	115	236	123	165	420	28x16x119x2
50k-60k	150	240	14	89	163	123	184	230	153	309	123	165	419	40x22x115x2
100k	170	270	16	95	188	200	194	240	169	340	140	252	598	45x25x195x2

INSTALLATION SCHEMATIC////

1.Horizontal installations:



2.Vertical installations:



SPECIFICATIONS

Torque accuracy	$< \pm 0.5 \% \text{ F} \cdot \text{S}$, $< \pm 0.25 \% \text{ F} \cdot \text{S}$, $< \pm 0.1 \% \text{ F} \cdot \text{S}$ (Optional)
Frequency response	100 μs
The nonlinear	$< \pm 0.1 \% \text{ F} \cdot \text{S}$
Repeatability	$< \pm 0.1 \% \text{ F} \cdot \text{S}$
Return difference	$< 0.1 \% \text{ F} \cdot \text{S}$
Zero time drift	$< 0.2 \% \text{ F} \cdot \text{S}$
Zero temperature drift	$< 0.2 \% \text{ F} \cdot \text{S} / 10^\circ\text{C}$
Using temperature	$-10 \sim 50^\circ\text{C}$
Storage temperature	$-40 \sim 70^\circ\text{C}$
Power supply voltage	$\pm 15\text{VDC}$, 24VDC (Optional)
Frequency signal output	5KHz—15KHz, 0-20mA, 4-20mA, 0-5V, 0-10V, 1-5V (Optional)
Speed signal output	60 pulse/speed (0~5V/0~10V/4~20mA)

ELECTRICAL WIRING DEFINITION

The torque sensor uses an aerospace connector (with shielded cable). The shielded cable outlet line defines:

1. Power supply: $\pm 15\text{V}$ Output: 5-15KHZ

Red: E+

Bue: E-

Black: GND

Toque output: Yellow+ Black: -

2. Power supply: $\pm 15\text{V}$ Output: 5-15KHZ (Built-in speed sensor)

Red: E+

Bue: E-

Black: GND

Toque output: Yellow+ Black -

Speed output: White+ Black -

3. Power supply: $\pm 15V$ Output: 4-20mA

Red: E+

Bue: E-

Black: GND

Output: Yellow+ White-

4. Power supply: $\pm 15V$ Output: 4-20mA (Built-in speed sensor)

Red: E+

Bue: E-

Black: GND

Toque output: Yellow+ Green -

Speed output: White+ Gray:-

5. Power supply: 24V Output: 5-15KHZ

Red: 24V

Black: GND

Torque Output: Yellow+ Blue-

6. Power supply: 24V Output: 5-15KHZ (Built-in speed sensor)

Red: 24V

Black: GND

Torque Output: Yellow+ Blue-

Speed output: White+ Blue-

7. Power supply: 24V Output: 4-20mA

Red: 24V

Black: GND

Torque Output: Yellow+ Blue-

8. Power supply: 24V Output: 4-20mA (Built-in speed sensor)

Red: 24V

Black: GND

Torque Output: Yellow+ Green-

Speed output: White+ Gray-