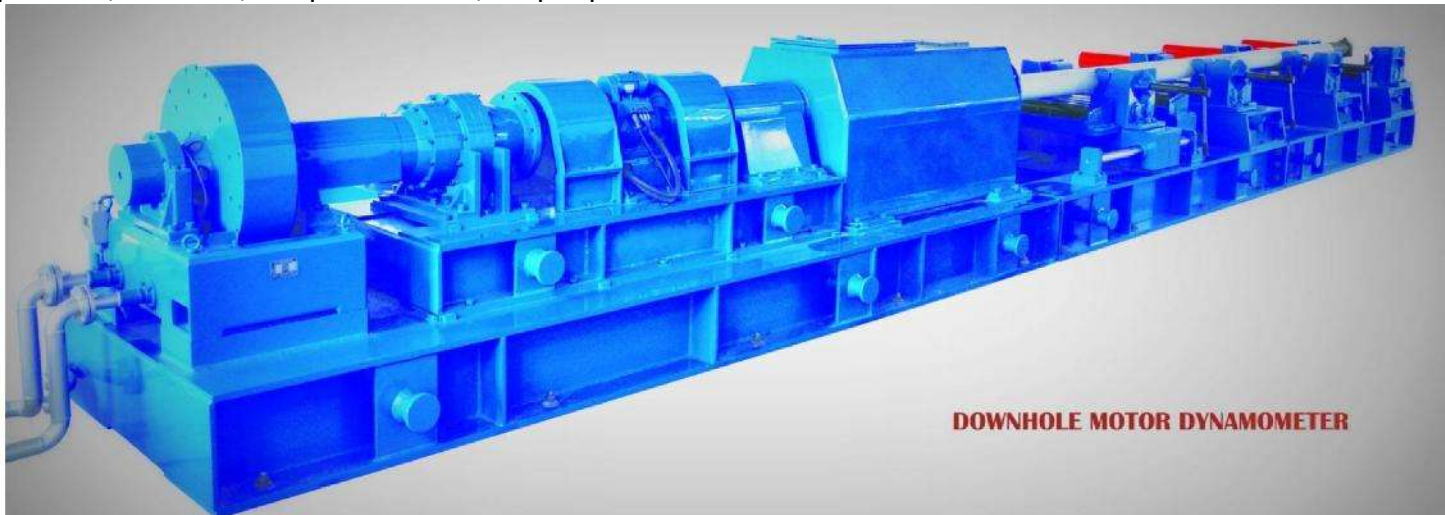




DOWNHOLE MOTOR DYNAMOMETER

CHE Downhole Motor Dynamometer consists of host machine, dynamical system, circulatory system, hydraulic control system, cooling system and testing system. It is engineered to test performance in all aspects of downhole drilling motors ranging from 1 11/16" to 11 1/4" sizes by simulating actual downhole conditions. This design adopted advanced control system to implement automatic, semi automatic or manual testing in loading torque, adjusting flow rate, collecting data such as torque, rotating rate, differential pressure, flow rate, temperature etc., output performance data and curve of the downhole motor.

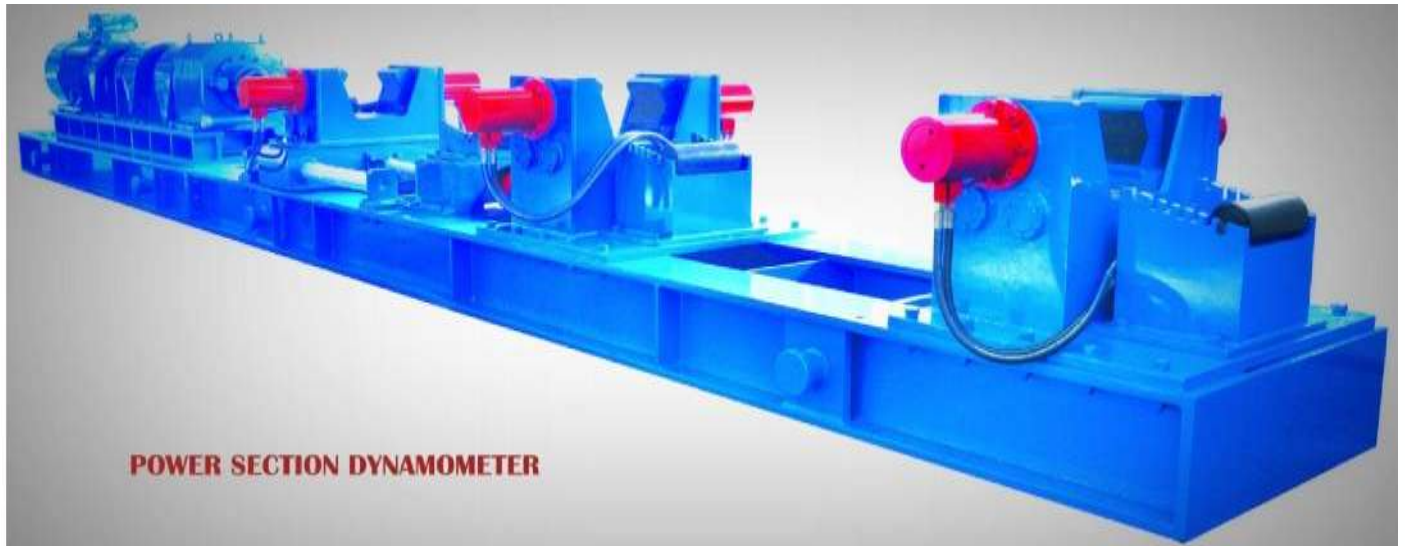


Specifications

Descriptions	1LSY		5LSY		20LSY		30LSY	
Motor O.D.	43mm - 73mm	1 11/16" - 2 7/8"	73mm - 120mm	2 7/8" - 4 3/4"	73mm - 244mm	2 7/8" - 9 5/8"	95mm - 286mm	3 3/4" - 11 1/4"
Working Torque Range	0 - 1 kN.m	0 - 738 ft-lbs	0 - 5 kN.m	0 - 3,690 ft-lbs	0 - 20 kN.m	0 - 14,750 ft-lbs	0 - 30 kN.m	0 - 22,120 ft-lbs
Rotating Rate Range	50 - 1,000 r/min	50 - 1,000 rpm	50 - 600 r/min	50 - 600 rpm	50 - 500 r/min	50 - 500 rpm	50 - 500 r/min	50 - 500 rpm
Starting Pressure	0 - 16MPa	0 - 2,320psi	0 - 16MPa	0 - 2,320psi	0 - 16MPa	0 - 2,320psi	0 - 16MPa	0 - 2,320psi
Exiting Pressure	0 - 1 Mpa	0 - 145psi	0 - 1MPa	0 - 145psi	0 - 1MPa	0 - 145psi	0 - 1MPa	0 - 145psi
Starting Flow Rate	0 - 6 L/s	0 - 95.1gpm	0 - 16 L/s	0 - 253gpm	0 - 45L/s	0 - 713gpm	0 - 45L/s	0 - 713gpm
Starting Fluid Temperature	0 ^o - 100 ^o C	32 ^o - 212 ^o F	0 ^o - 100 ^o C	32 ^o - 212 ^o F	0 ^o - 100 ^o C	32 ^o - 212 ^o F	0 ^o - 100 ^o C	32 ^o - 212 ^o F
Test Fluid			Water /	Drilling Mud				

POWER SECTION DYNAMOMETER

CHE Power Section Dynamometer consists of host machine, circulation system, hydraulic control system, data acquisition and processing. It is engineered to test coordination, compatibility of stator and rotor ranging from 2 7/8" to 9 5/8" sizes to provide reliable, accurate test data, it is easy and safe to operate and maintain.



Specifications:

Descriptions	30MD		20MD	
	Motor Power	132kW	177hp	110kW
Max. Output Torque	30kN.m	22,130ft lbs	20kN.m	14,750ft-lbs
Output Rotating Rate	30- 60 r/min	30- 60 rpm	47 r/min	47rpm
Differential Pressure	<=12MPa	<=1,740psi	<=12MPa	<=1,740psi
Diameter	73 - 244mm	2 7/8" - 9 5/8"	73 - 197mm	2 7/8" - 7 3/4"
Dimensions (L x W x H)	11,000 x 1,400 x 1,170 mm	433.1" x 55.1" x 46.3"	11,000 x 1,300 x 1,150 mm	433.1" x 51.2" x 45.3"
Total Weight	16,000kg	35,274lb	14,000kg	30,864lb