



## TE Eddy Current Dynamometer



### Features:

- 'O' Ring pipe connections to minimize torque calibration errors from variations in water supply pressure.
- Water flow failure warning fitted as standard.
- Balanced high rigid shaft assembled on precision bearings to ensure smooth operation. The rotor is designed with low inertia.
- Available Precise control even at low loads or rapid changes in demands.
- Bi-directional operation.

### Applications:

- Vehicles
- Engine test
- Gas turbine
- Engine machines
- Internal combustion engines
- Middle and small power rating machines

### Description:

The TE Dynamometers provide with a range of Eddy-Current machines designed for testing engines from 6 kW to 630 kW capacity.

The strain gauge load cell provides with high accurate torque measurement for exacting test and development applications.

The rugged design of the power absorbing system ensures a long operating life, even in most of the demanding production and endurance testing environments.



## TE Eddy Current Dynamometer

### Specification:

- Max Torque: 25 to 4000 Kg-M
- Max Speed: 2000 to 12000 rpm
- Max Power: 6 to 630 kW
- Torque Accuracy: 0.2% F.S.
- Speed Accuracy:  $\pm 0.02\%$
- Cooling Water Inlet  $-10\sim 40^{\circ}\text{C}$  , 0.02~0.1MPa
- Cooling Water Outlet  $< 55^{\circ}\text{C}$

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Dynamometer System

### Technical Data

Model	Rated Power	Rated Torque	Max Speed	Rated Speed	Moment of Inertia
	kW	Nm	rpm	rpm	Kgm <sup>2</sup>
TEC-25P	6	25	12000	2000 ~ 2800	0.005
TEC-50P	10	50	12000	2000 ~ 2800	0.005
TEC-70P	16	70	12000	2000 ~ 2800	0.006
TEC-120P	25	120	10000	2000 ~ 2800	0.01
TEC-160P	40	160	9000	2000 ~ 2800	0.025
TEC-250P	63	250	8000	2000 ~ 2800	0.05
TEC-400P	100	400	7000	2000 ~ 2800	0.14
TEC-600P	160	600	6500	2000 ~ 2800	0.45
TEC-1100P	250	1100	5000	2000 ~ 2800	1.25
TEC-1600P	300	1600	5000	2000 ~ 2800	2.6
TEC-2600P	400	2600	4500	2000 ~ 2800	3.4
TEC-3300P	560	3300	4500	2000 ~ 2800	4.2
TEC-4000P	630	4000	4000	2000 ~ 2800	5.3

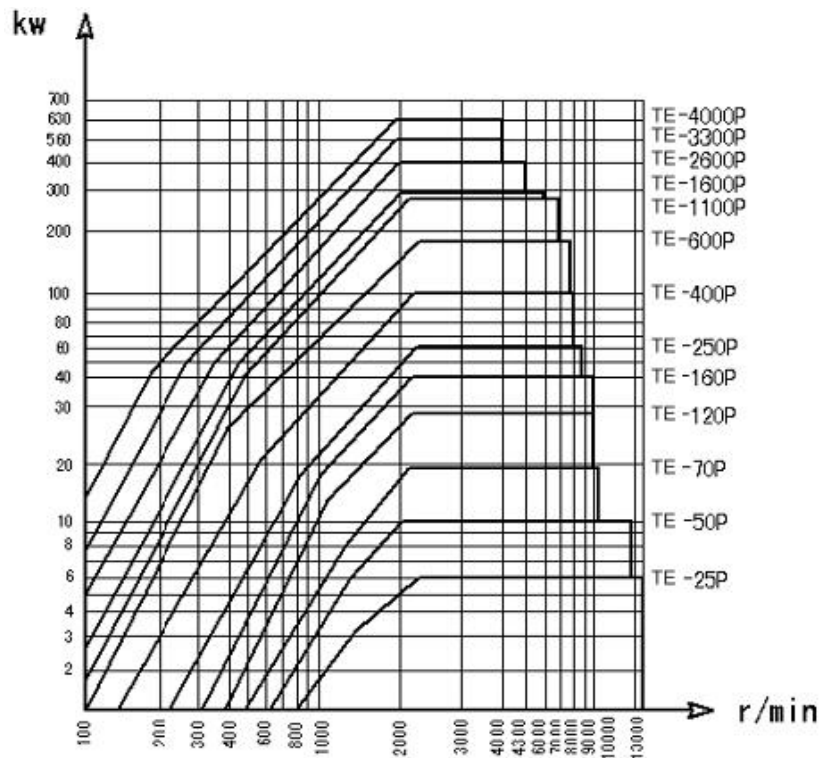
Model	Rated Power	Rated Torque	Max Speed	Rated Speed
	kW	Nm	rpm	rpm
TEW-250P	63	250	6000	1000 ~ 1600
TEW-400P	100	400	5300	1000 ~ 1600
TEW-600P	160	600	4800	1000 ~ 1600
TEW-1200P	250	1200	4100	1000 ~ 1600
TEW-1700P	300	1700	4000	1000 ~ 1600
TEW-2600P	400	2600	3200	1000 ~ 1600
TEW-3300P	560	3300	3000	1000 ~ 1600
TEW-4000P	630	4000	2500	1000 ~ 1600



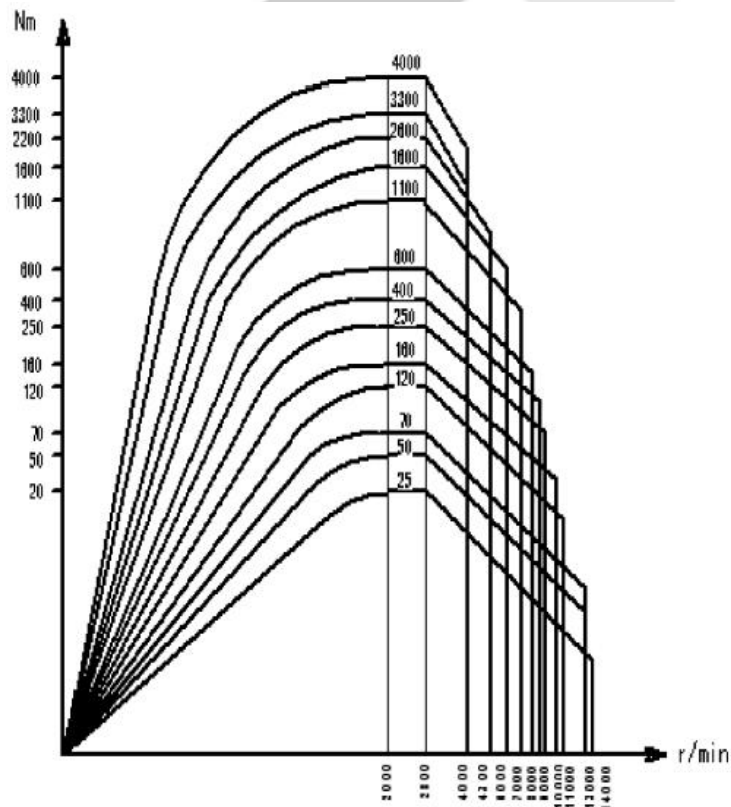
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Dynamometer System

## TE Eddy Current Dynamometer Absorption Power

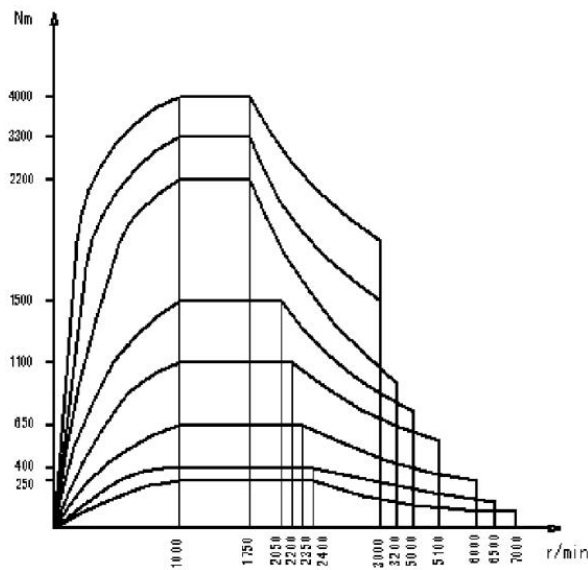


## TE Eddy Current Dynamometer Absorption Torque

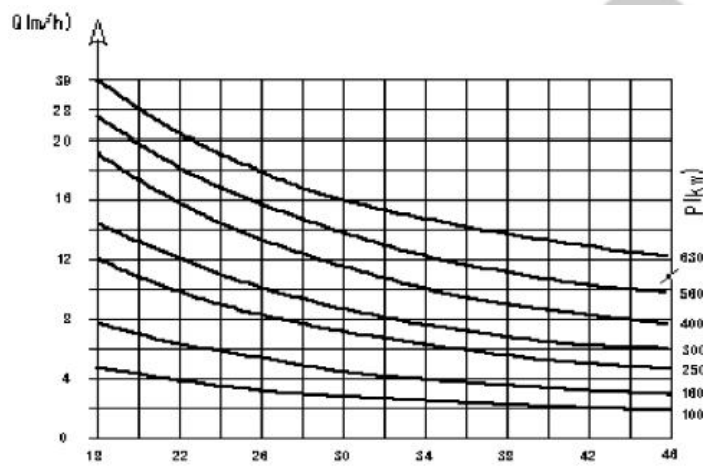




## TEW Eddy Current Dynamometer Absorption Torque



Cooling Water Flow Rate – 1



Cooling Water Flow Rate – 2

