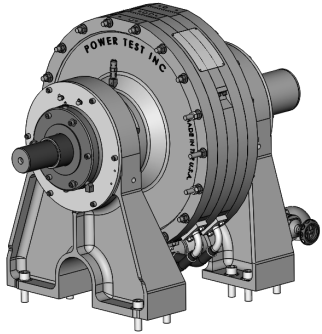


# Water Brake Engine Dynamometers - 50X-Series

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73509.02 50X02 Water Brake Engine Dynamometer Shown

## Overview

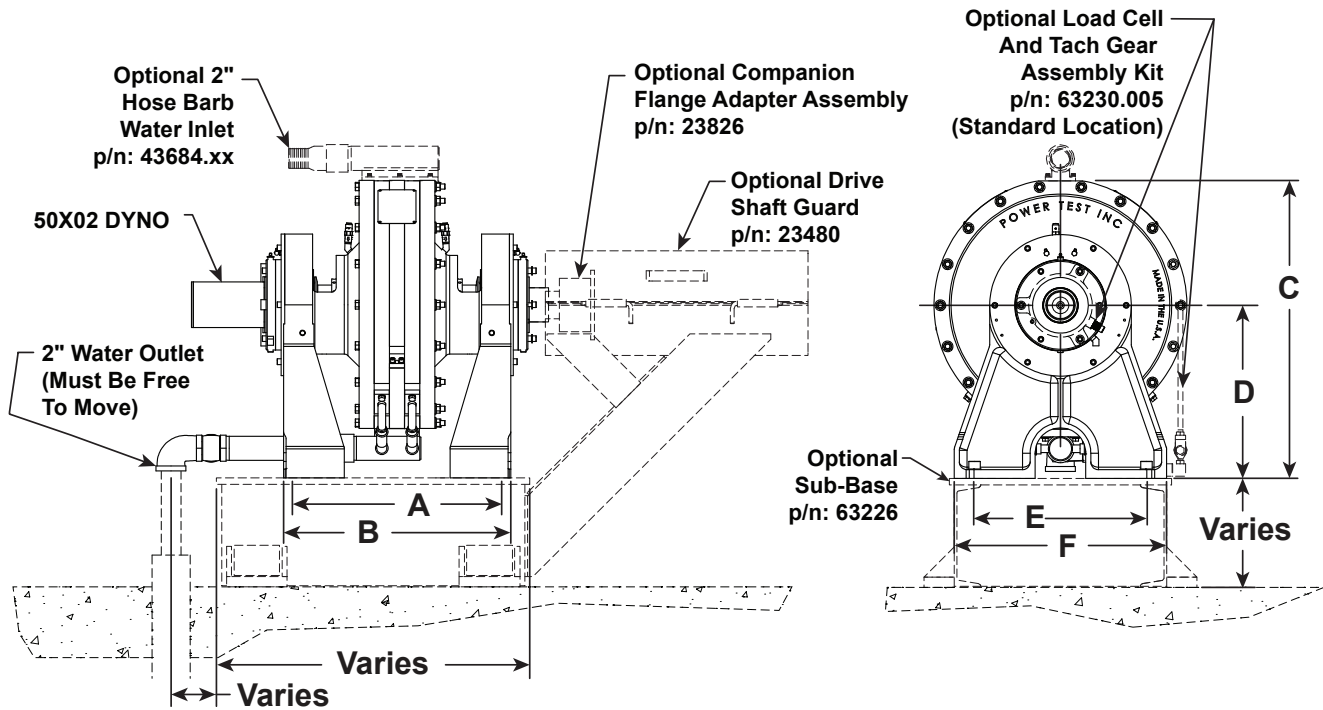
Power Test 50X-Series Water Brake Engine Dynamometers are designed for testing on-highway, military and construction applications from 50 HP to 1,000 HP at speeds up to 6,000 RPM.

The 50X-Series Water Brake Engine Dynamometers feature:

- The ability to test a wide range of engine displacements on the same dynamometer.
- Very low inertia and high absorption characteristics in a compact package.
- Through-shaft design allows either end of the dynamometer to be driven and to accept additional dynamometers plus a variety of accessories including starting systems.
- A stainless steel non-tapered shaft
- Inlet control allows for low minimum horsepower.
- Low minimum loading characteristics
- Equal absorption capabilities in either direction of rotation.
- Positive lip absorber seals.
- Removable bearing and seal housings to facilitate field servicing without the need for disassembly of the absorber.
- Equipped with grease-lubricated high-speed bearings.

These trunnion-mounted, fixed-base Water Brake Engine Dynamometers may be used for continuous-duty engine power verification, quality assurance, endurance, and certification testing.

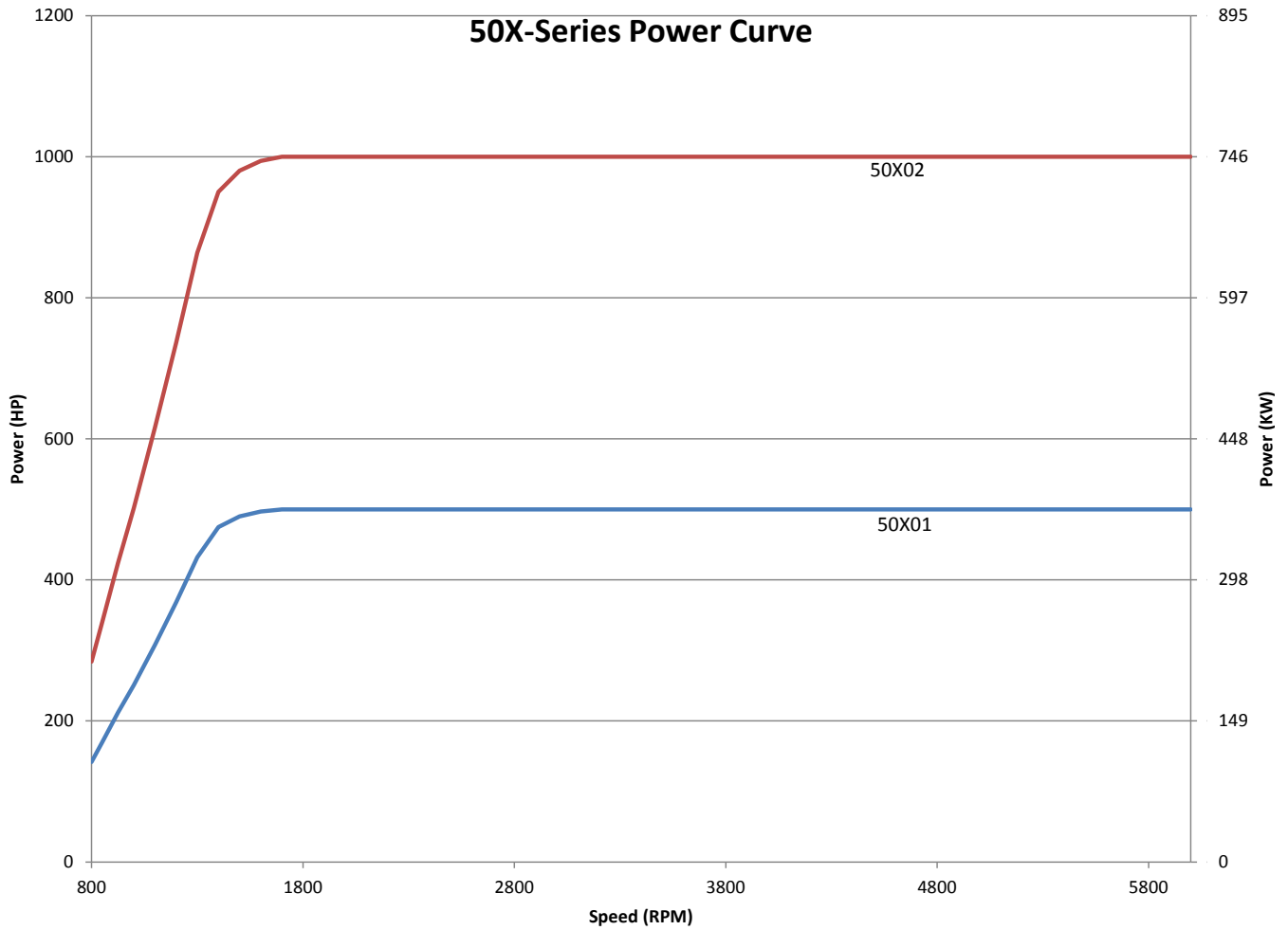
# Water Brake Engine Dynamometers - 50X-Series



Description	Part #	Dimensions (inches)						Weight (lbs)	Inertia (lb-ft <sup>2</sup> )
		A	B	C	D	E	F		
50X01 Water Brake	73509.01	17 23/32	19 15/32	29 7/16	17 1/8	17	21	985	13.1
50X02 Water Brake	73509.02	20 23/32	22 15/32					1,165	25.2

Description	Part #	Dimensions (mm)						Weight (kg)	Inertia (kg m <sup>2</sup> )
		A	B	C	D	E	F		
50X01 Water Brake	73509.01	450	494.50	747.71	434.97	431.8	533.4	446.78	0.55
50X02 Water Brake	73509.02	526.25	570.70					528.43	1.06

# Water Brake Engine Dynamometers - 50X-Series

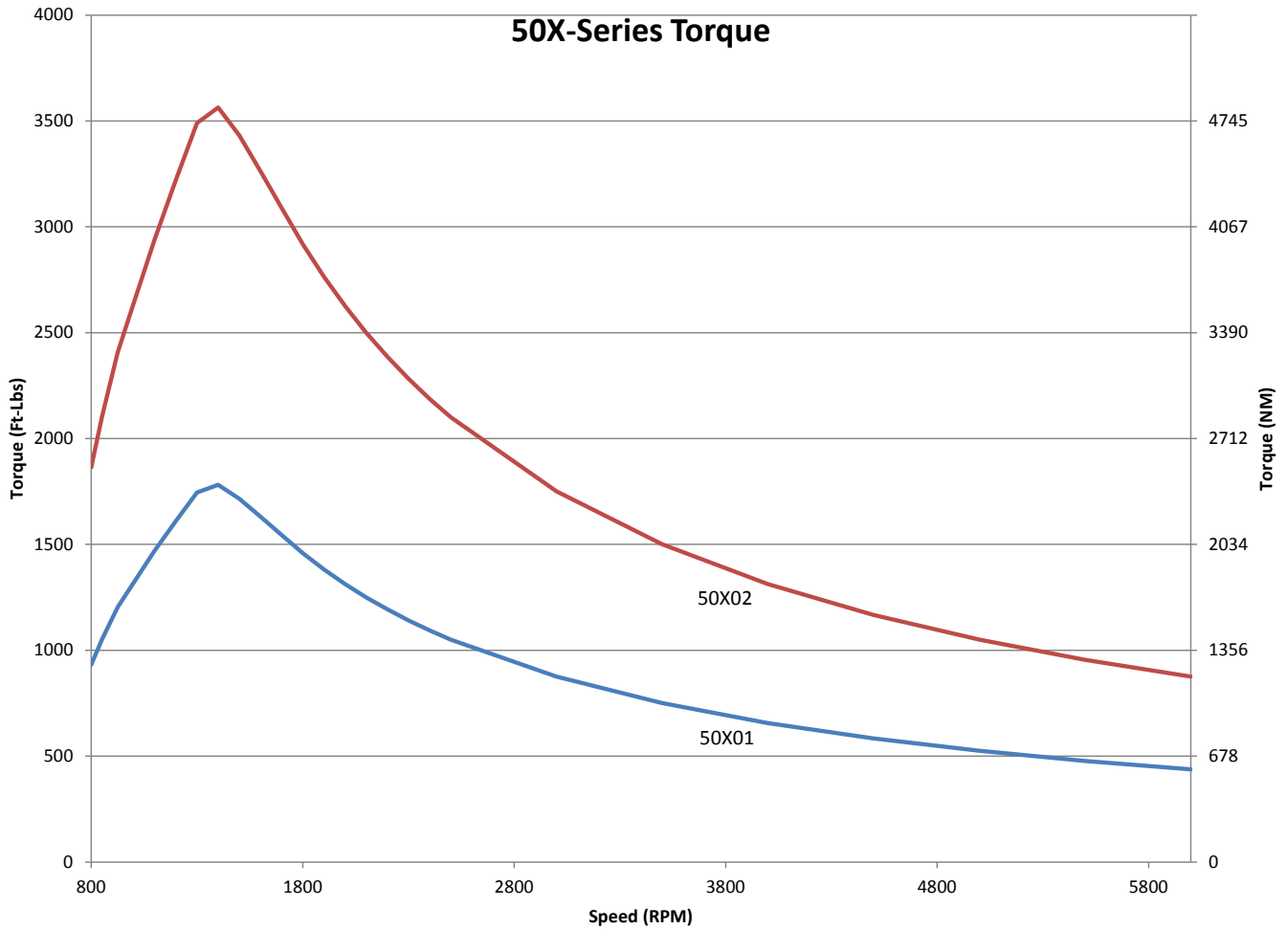


RPM	Power - HP (KW)		RPM	Power - HP (KW)	
	50X01	50X02		50X01	50X02
800	142 (106)	284 (212)	3,000	500 (373)	1,000 (746)
925	212 (158)	424 (316)	3,500	500 (373)	1,000 (746)
1,000	251 (187)	501 (374)	4,000	500 (373)	1,000 (746)
1,200	368 (274)	736 (549)	4,500	500 (373)	1,000 (746)
1,500	490 (365)	980 (731)	5,000	500 (373)	1,000 (746)
2,000	500 (373)	1,000 (746)	5,500	500 (373)	1,000 (746)
2,500	500 (373)	1,000 (746)	6,000	500 (373)	1,000 (746)



N60 W22700 Silver Spring Drive • Sussex, WI 53089 USA  
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# Water Brake Engine Dynamometers - 50X-Series



RPM	Torque Lb-Ft (NM)		RPM	Torque Lb-Ft (NM)	
	50X01	50X02		50X01	50X02
800	932 (1,264)	1,864 (2,528)	3,000	875 (1,187)	1,751 (2,374)
925	1,204 (1,632)	2,407 (3,264)	3,500	750 (1,017)	1,501 (2,035)
1,000	1,318 (1,787)	2,637 (3,575)	4,000	657 (890)	1,313 (1,780)
1,200	1,611 (2,184)	3,221 (4,367)	4,500	584 (791)	1,167 (1,582)
1,500	1,716 (2,326)	3,431 (4,652)	5,000	525 (712)	1,050 (1,424)
2,000	1,313 (1,780)	2,626 (3,560)	5,500	477 (647)	955 (1,295)
2,500	1,050 (1,424)	2,101 (2,848)	6,000	438 (593)	875 (1,187)

Power Test, Inc. manufactures a wide range of standard and custom water brake engine dynamometers. For absorption characteristics other than the model shown, please contact your Power Test representative.



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