

# DYNACRAFT ASYNCHRONOUS DRIVE

» A FULL RANGE OF  
ASYNCHRONOUS  
DYNAMOMETERS



CONTROL

The FEV DynaCraft series is a foot mount asynchronous drive covering a wide speed and torque range for all applications from the smallest single-cylinder engine up to high power output passenger cars or high-torque heavy-duty diesel applications.

In combination with the state of the art IGBT frequency converter technology with rotor flux vector control it is suitable for everything from steady state to high dynamic powertrain testing.

Based on our know-how in mechanical engineering, measurement and design of transmission shafts, it suitably responds to all the requirements of test bed applications.

## Benefits

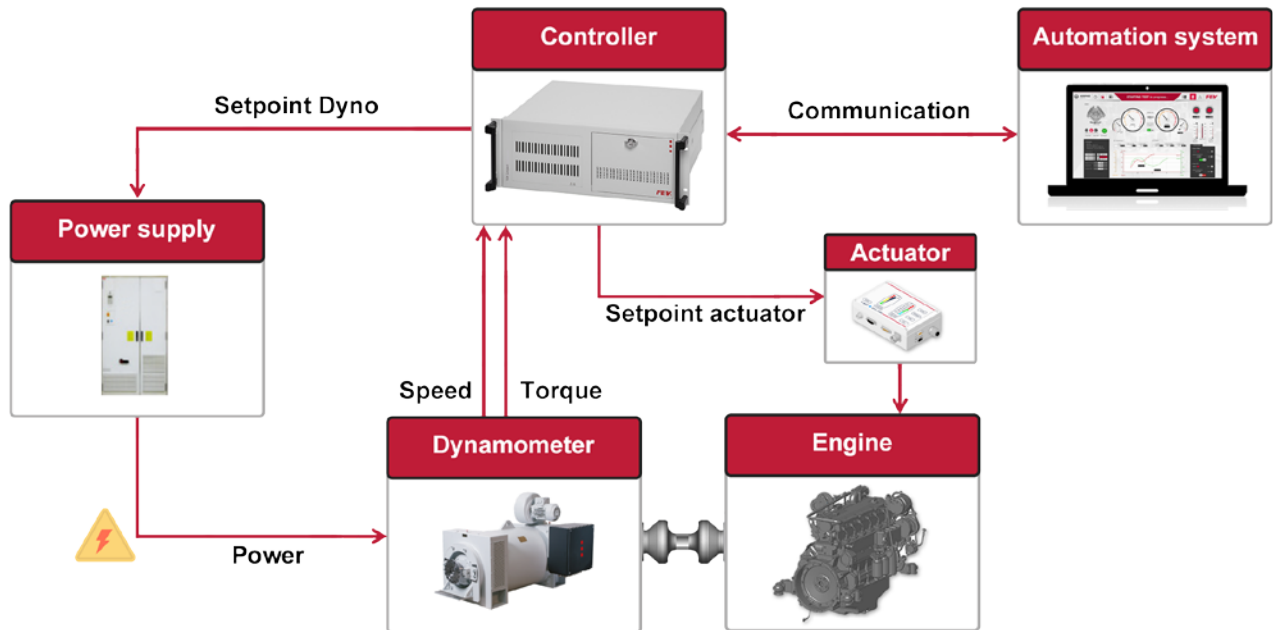
- Suitable for steady state, transient and dynamic testing
- Long lifetime ensured by ultra-low vibration
- Integrated electrical and mechanical safety monitoring (coil and bearings)
- Reduced maintenance and spare part costs through modular design of motor and frequency converter
- Low noise radiation due to compact design, high switching frequency, multifan technology
- Worldwide uniform electrical application possible through advanced Power Filter
- Standard overload capacity of 1.2 for excellent dynamics
- Reliable individual solution through strong CAE support
- High Quality of control

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## Technical Data

High Speed Dynamometers							
	Rated Power [kW]	Rated Torque [Nm]	Max. Speed [rpm]	Inertia [kgm <sup>2</sup> ]	[rpm]	Rotational Speed Gradient [rpm/s]	Weight [kg]
DU 60	66	154	9000	0,11	4110	13 369	310
DR 130	132	250	10000	0,12	5021	19 894	650
DU 150	151	327	10000	0,20	4402	15 613	600
DR 160	160	350	10000	0,22	4370	15 192	850
DR 250	250	550	10000	0,29	4340	18 111	900
DU 250	252	473	10000	0,30	5090	15 056	740
DR 300	300	700	10000	0,65	4090	10 284	1200
DU 350	350	732	9000	0,65	4566	10 754	1000
DR 380	380	815	10000	0,65	4450	11 973	1200
DU 400	409	794	9000	0,85	4914	8 920	1350
DU 450	452	1000	9000	0,85	4312	11 234	1350
DR 500	500	1100	8500	0,90	4340	11 671	1450
DR 600	600	1350	6000	1,15	4240	11 210	1550
High Torque Dynamometers							
	[kW]	[Nm]	[rpm]	[kgm <sup>2</sup> ]	[rpm]	[rpm/s]	[kg]
DS 250	250	1100	8500	0,9	2170	11 671	1500
DS 300	300	1400	7500	1,8	2040	7 427	1600
DS 380	380	1800	7500	2,3	2015	7 473	1700
DS 470	470	2200	7000	2,7	2040	7 781	1900
DS 530	530	3000	6500	3,0	1740	9 549	2000
DS 630	630	3500	4500	4,5	1720	7 427	2700
Low Speed Dynamometers							
	[kW]	[Nm]	[rpm]	[kgm <sup>2</sup> ]	[rpm]	[rpm/s]	[kg]
DV 265	265	1312	6000	1,5	1966	8 352	1540
DT 280	280	1900	4000	4,2	1400	4 320	2100
DT 360	360	2300	4000	4,9	1495	4 482	2300
DV 370	372	2221	4500	5,6	1599	3 787	1785
DT 410	410	2600	4000	6,0	1510	4 138	2500
DV 460	460	2822	5000	6,2	1539	4 346	1800
DT 490	490	3100	3500	6,7	1510	4 418	2800
DT 570	570	3600	4000	11,0	1510	3 125	3200
DV 600	602	3700	4500	9,8	1553	3 605	2500
DT 610	610	4000	4000	12,7	1460	3 008	3200
DV 700	700	4519	4500	9,8	1479	4 403	2600
DT 800	800	5100	3500	12,9	1500	3 775	3500
Wheel Dynamometers							
	[kW]	[Nm]	[rpm]	[kgm <sup>2</sup> ]	[rpm]	[rpm/s]	[kg]
DW 220	223	3507	1500	8,6	607	3 894	2400
DW 320	318	4000	2000	9,8	758	3 898	2500

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Engine test bed



Heavy Duty test bed



Powertrain test bed



Hybrid test bed

Technical specifications may be modified without prior notice.

FEV/2017-DYNACRAFT