



QINGDAO | CHINA | ENGINEERED FOR HIGH-SPEED TESTING

MDP Technology

高速测功电机 PRODUCT BROCHURE

HIGH-SPEED DYNAMOMETER MOTORS

面向高速测试台、加载与对拖试验应用的专业电机平台

Application-engineered motor platforms for high-speed test benches and back-to-back loading systems.

麦德普科技有限公司

MDP Technology Co., Ltd.

PRECISION AT SPEED.

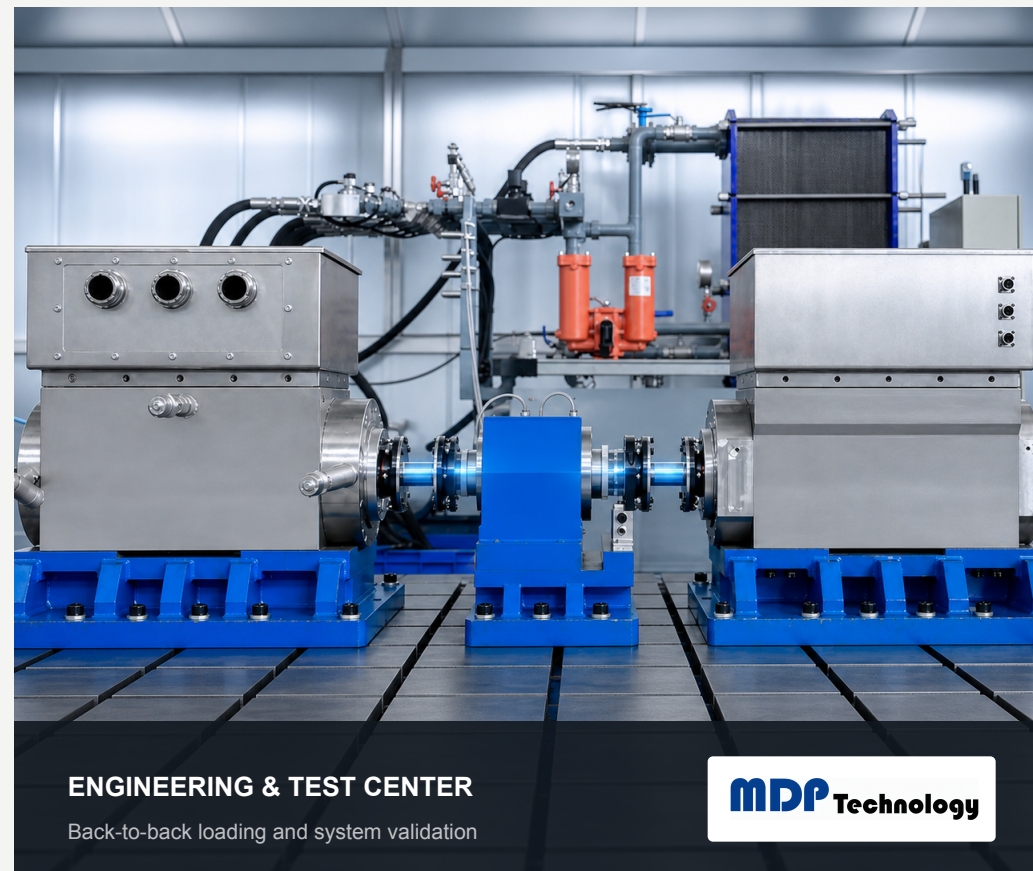
速度为锋，精度为魂，创新为驱。

麦德普高速电机以“速度为锋，精度为魂，创新为驱”为品牌理念，致力于打造中国高速测功电机专业品牌。

公司高速电机事业部专注于高速测功电机领域的研发与制造，聚焦测试台应用场景，严格参照国际先进技术标准，践行持续创新，为世界智造的发展贡献价值。

MDP High-Speed Motors is guided by the brand philosophy of “Speed as the Edge, Precision as the Soul, Innovation as the Drive.” We are committed to building a leading professional brand of high-speed dynamometer motors in China.

The High-Speed Motor Division specializes in the R&D and manufacturing of high-speed dynamometer motors for test-bench applications. By adhering to advanced international technical standards and continuously pursuing innovation, we create value for global intelligent manufacturing.



为高速工况而设计 BUILT FOR SPEED.

面向高速测功、加载及测试台应用，提供低惯量、低振动、连续运行的电机平台。轴伸、法兰、接口与反馈系统可按项目需求配置。

Designed for high-speed dynamometer, loading and test-bench applications, this motor platform delivers low inertia, low vibration and continuous-duty operation. Shaft extensions, flanges, interfaces and feedback systems can be configured to project requirements.

30,000 rpm
MAXIMUM SPEED

630 kW
MAXIMUM RATED POWER

S1
CONTINUOUS DUTY

FRAME PLATFORM

112 | 132 | 160 | 230



NEW PLATFORM



面向商用车测试台的高功率平台 POWER FOR HEAVY-DUTY TESTING.

针对商用车动力总成与电驱测试台开发的新型高功率测功电机平台，兼顾高速重复加载能力与连续热稳定性。

A high-power dynamometer motor platform for commercial-vehicle powertrain and e-drive test benches, engineered for repeatable loading at speed and continuous thermal stability.

核心配置

CORE CONFIGURATION

630 kW

1,200 N.m | 20,000 rpm

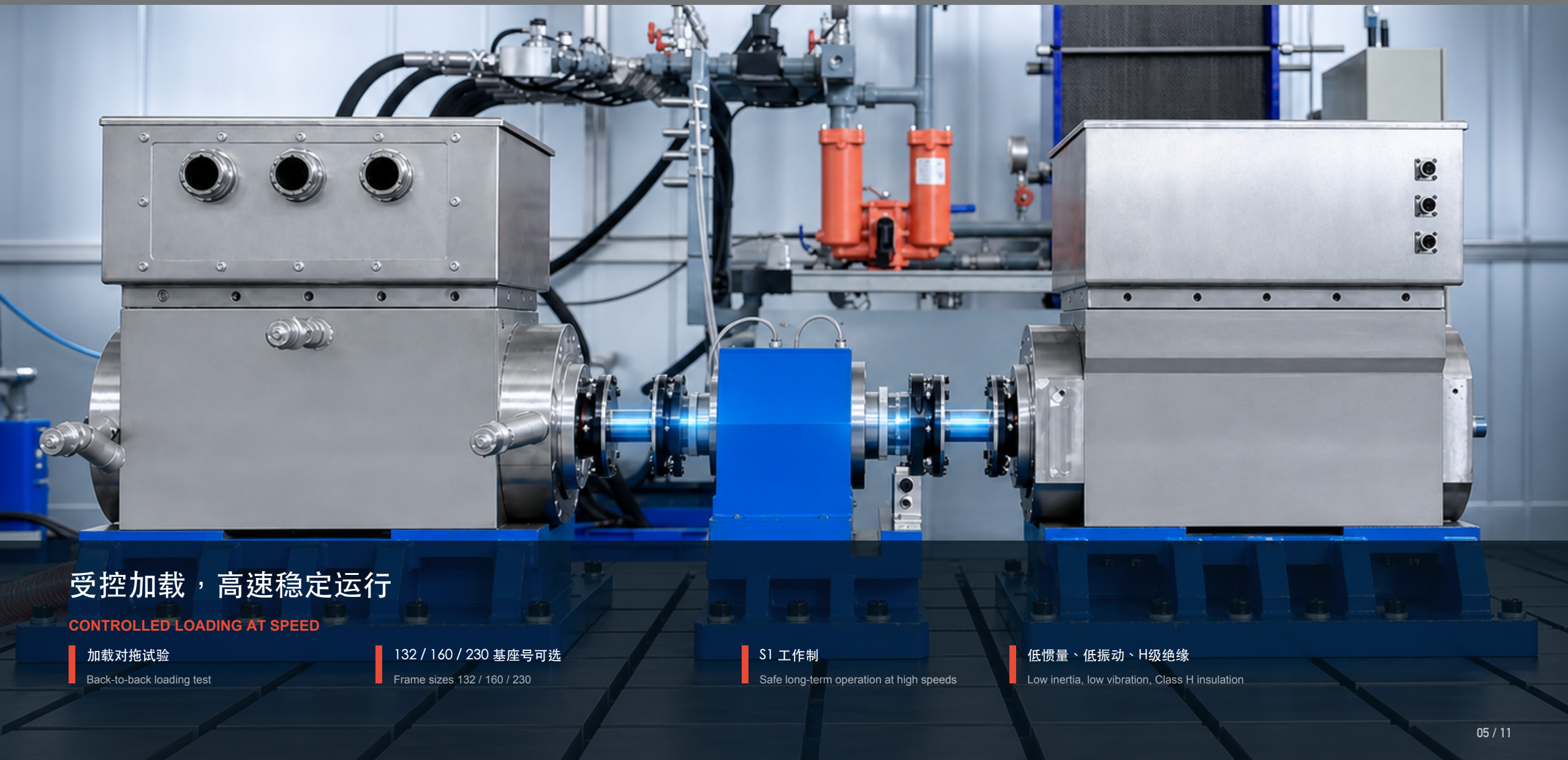
扩展配置

COMPLEMENTARY CONFIGURATION

800 kW

1,600 N.m | 16,000 rpm

闭环油冷 | 高速加载 | 接口定制 | CLOSED-LOOP OIL COOLING | HIGH-SPEED LOADING



受控加载，高速稳定运行

CONTROLLED LOADING AT SPEED

加载对拖试验

Back-to-back loading test

132 / 160 / 230 基座号可选

Frame sizes 132 / 160 / 230

S1 工作制

Safe long-term operation at high speeds

低惯量、低振动、H级绝缘

Low inertia, low vibration, Class H insulation

VALIDATED AS A SYSTEM.

从电机加载台到高功率变频系统，覆盖系统级验证与项目交付。



01

背靠背加载台

Back-to-back loading bench



02

单机加载验证

Single-machine loading verification



03

高功率变频系统

High-power converter system



04

整套试验现场

Integrated test system

工程说明 / Engineering note

所有电机均可按客户要求设计，以满足特殊应用需求。All motors can be customized to meet specific application requirements.

ONE PLATFORM. NINE CONFIGURATIONS.

标准平台覆盖 200-630 kW、10,000-30,000 rpm；全系列采用油冷。

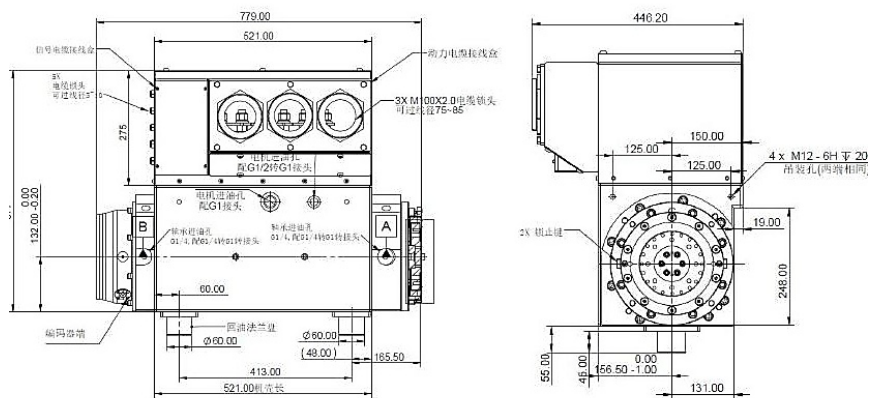
中心高 Frame (mm)	扭矩 Torque (N.m)	额定电压 Voltage (V)	最大电流 Current (A)	额定功率 Power (kW)	最高转速 Speed (rpm)	转动惯量 Inertia (kg/m²)	冷却方式 Cooling	重量 Weight (kg)
112	318	380	1040	200	30000	0.10	油冷 / Oil	300
132	546	460	1192	400	20000	0.10	油冷 / Oil	400
132	546	460	1369	400	25000	0.11	油冷 / Oil	450
160	546	460	1369	400	25000	0.11	油冷 / Oil	450
160	682	460	1570	500	25000	0.11	油冷 / Oil	500
230	1200	460/690	1190/925	500	10000	0.40	油冷 / Oil	900
230	1200	690	1696	630	20000	0.15	油冷 / Oil	1200
230	750	460/690	1365/1025	550	20000	0.20	油冷 / Oil	800
230	546	460	1290	400	30000	0.13	油冷 / Oil	700

ENGINEERED TO INTEGRATE.

132 与 160 中心高参考外形；轴伸、法兰与接口可按项目要求定制。

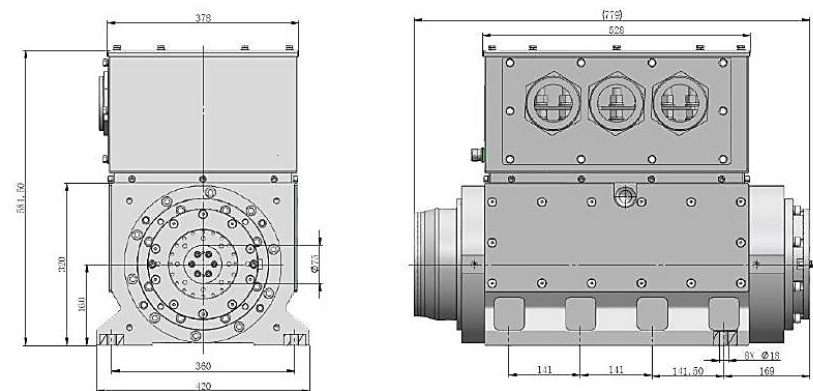
132 中心高

132中心高
Frame Sizes 132



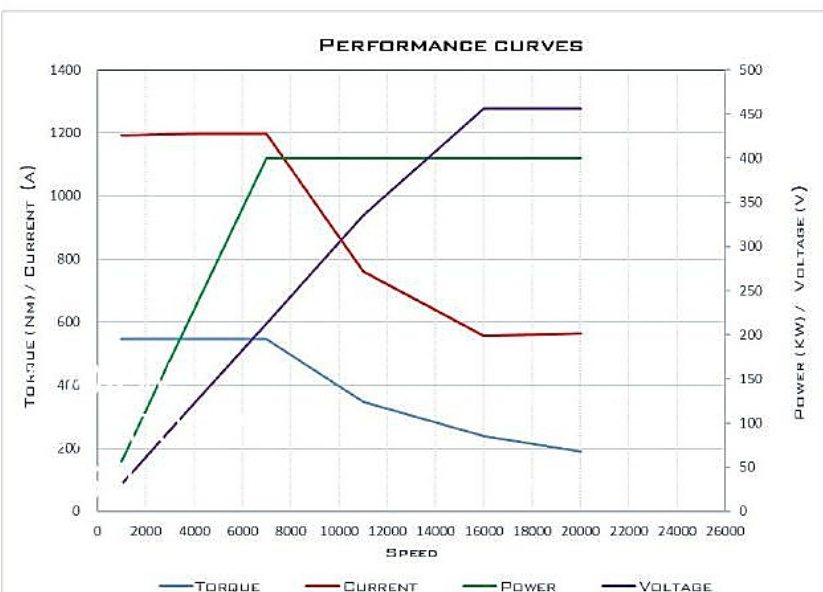
160 中心高

160中心高
Frame Sizes 160

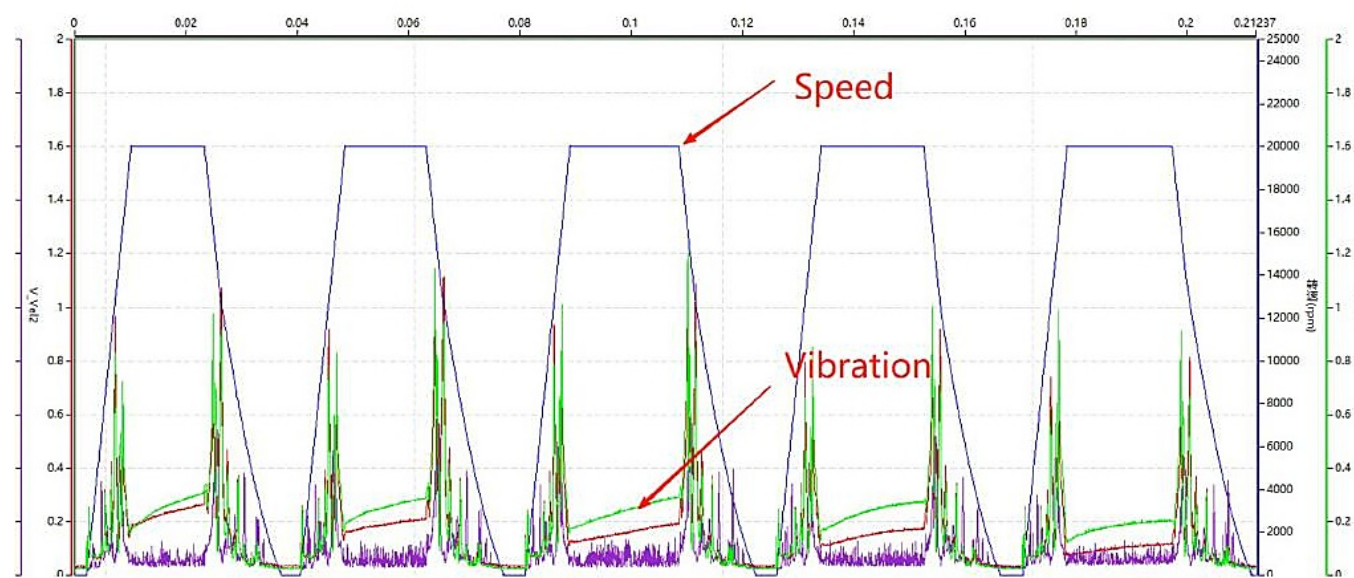


400 kW / 20,000 rpm

PERFORMANCE CURVE + SPEED / VIBRATION TEST RECORD



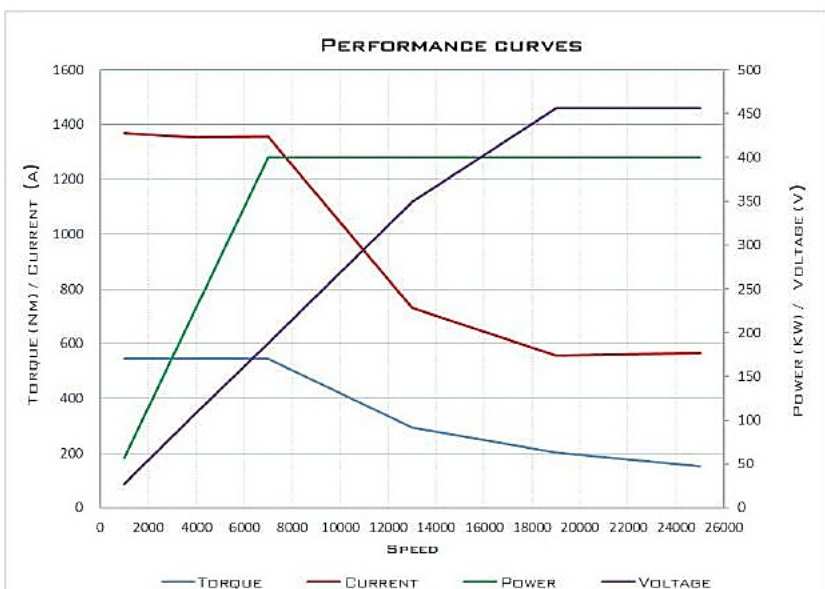
TORQUE / CURRENT / POWER / VOLTAGE



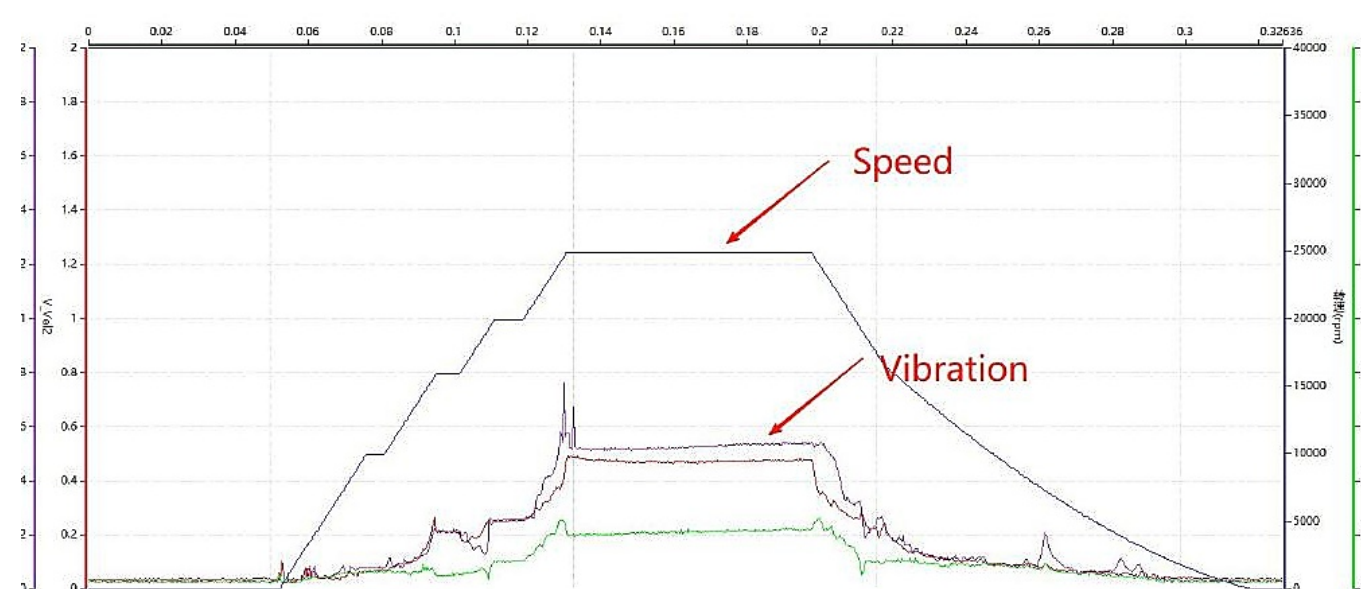
SPEED AND VIBRATION RECORD

400 kW / 25,000 rpm

PERFORMANCE CURVE + SPEED / VIBRATION TEST RECORD



TORQUE / CURRENT / POWER / VOLTAGE



SPEED AND VIBRATION RECORD



提交您的项目参数 START A PROJECT.

Preliminary technical review for high-speed motor applications

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