



HIGH SPEED RAILWAYS BRAKE DYNAMOMETER

TECHNICAL CHARACTERISTICS

✓ Maximum speed	3000 rpm (486 km/h with 0.445 m wheel radius)
✓ Overall mechanical inertia	2200 kgm ²
✓ Inertia range, with simulation	from 100 to 5000 kgm ²
✓ Main motor	AC, 500 KW
✓ Drag torque	4700 Nm
✓ Maximum braking torque	30 KNm
✓ Maximum pneumatic pressure	1.4 Mpa
✓ Maximum braking force for wheel application	150 kN
✓ Maximum braking force for disk application	100 kN
✓ Braking force detection	indirect from pressure (characterization by load cells)
✓ Braking moment detection	by torque-meter
✓ Ventilation Brake	modulated max 15000 m ³ /h
✓ Water system	up to 50 l/h
✓ Telemetry	6 channels
✓ Thermo-camera, Video-surveillance, Laser sensors for displacements measuring	

OPTIONS

✓ Static friction by auxiliary motor	max. 30 kNm, max 5 rpm
✓ Noise acquisition	equivalent level
✓ Inertia changing	automatic insertion of fly wheel
✓ Climatic system	-40° C/+50° C with humidity 10-90%
✓ Snow	at -10° C



MOUNTINGS OF BRAKE

- ✓ With disc and standard calliper
- ✓ With wheel and shoes

