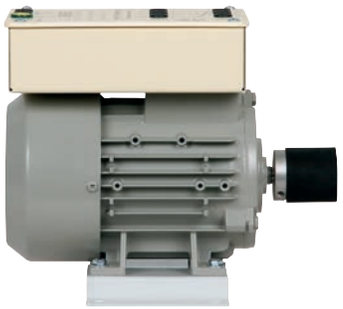
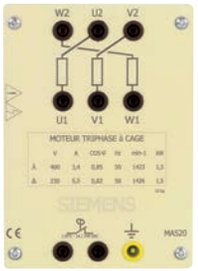
RORTARY MACHINES 1500RPM — RANGE 300W

3-PHASE SQUIRREL CAGE INDUCTION MOTOR

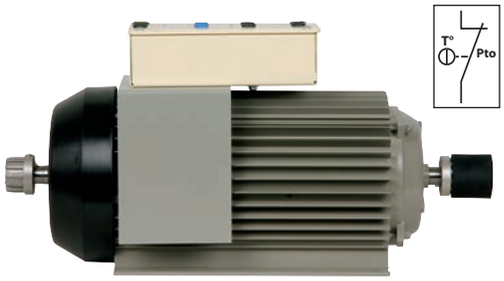


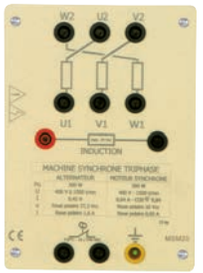



These engines work as well with a speed variator as directly connected to a 3-phase supply.

REF	U (V)	I (A)	H	B	L	Weight
MAS12	230/400V	1.5/0.9	90	172	235	8.2kg
MAS42	400V/690V	0.9/0.5	90	172	235	8.2kg

3-PHASE SYNCHRONOUS MACHINE

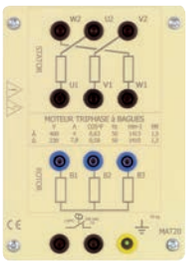




Works as a synchronous motor and 3-phase alternator.
Equipped with LEBLANC poles for the mains network synchronization.

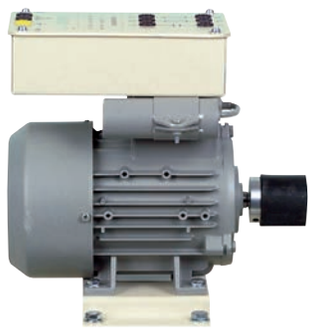
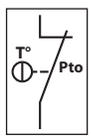
REF	U (V)	H	B	L	Weight
MSM10	230/400V	90	172	470	18kg

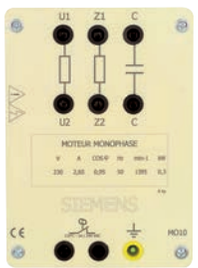
3-PHASE ASYNCHRONOUS SLIP RING INDUCTION MOTOR

REF	U (V)	I (A)	H	B	L	Weight
MAT10	230/400V	3.1/1.8	90	172	470	18kg
MAT10-C1	similar than MAT10 with 1024 points encoder.					

SINGLE-PHASE MOTOR WITH 2 CAPACITORS

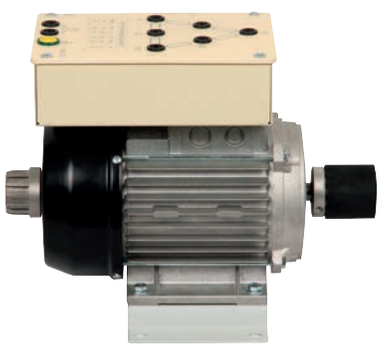



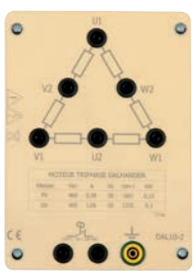


2 capacitors, 1 starting and 1 running

REF	U (V)	I (A)	H	B	L	Weight
MO10	230V	2.6A	90	172	295	9kg

3-PHASE ASYNCHRONOUS 2-SPEED MOTOR (AC)

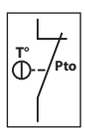


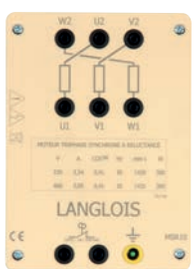



1 coil winding motor with 4/8 pole Dalhander coupling for quadratic resistive torque machines

REF	n in RPM	U (V)	I (A)	P (W)	H	B	L	Weight
DAL10	1500/750	400/400	1.1/1	300/150	90	172	275	7,3kg

3-PHASE RELUCTANCE SYNCHRONOUS MOTOR (AC)



This type of motor works as well on frequency converter as on 50Hz direct mains.

REF	U (V)	I (A)	P (W)	H	B	L	Weight
MSR10	400V	2A	300W	90	172	320	12.1kg

RORTARY MACHINES. 1500RPM RANGE 300W

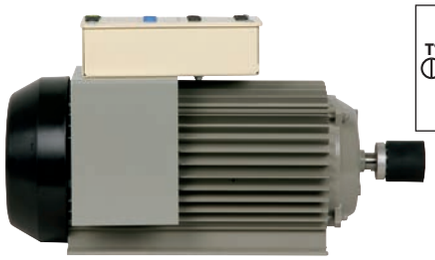
POWDER BRAKE

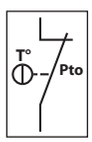
POWDER BRAKE PRINCIPLE

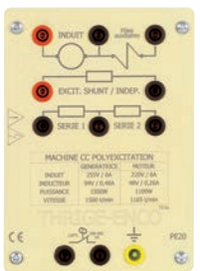
The DC current injected into the brake coil creates a field which causes the magnetic powder placed in the air gap to agglomerate. The braking torque is proportional to the field current alone; in particular it is independent of the speed of rotation. Waste heat is eliminated by natural ventilation.
A protection cuts the excitation in case of overheating of the brake. An externally accessible fuse protects the brake coil in the event of overvoltage.
The torque measurement requires a rotary sensor to be positioned either on the left or on the right. Maximum rotation speed 1800 rpm.

REF	FP1
Voltage/Current max for blocking	2V / 0,1A
Max torque	35Nm
H / B / L in mm	90x172x240
Weight	18kg
Ventilation	Fanless

POLYEXCITATION (COMPOUND) GENERATOR



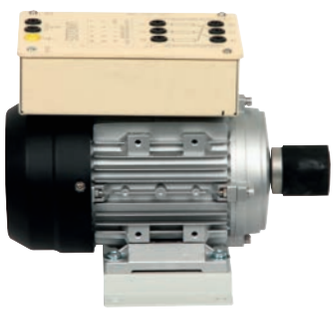


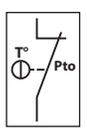


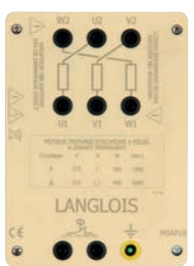
Designed to be high-performance generator (characteristics below), this machine also works as a motor.

REF	U (V)	I (A)	H	B	L	Weight
PE10	220V	2A	90	172	420	20kg

PERMANENT MAGNET SYNCHRONOUS 3-PHASE MOTOR (AC)







High efficiency motor, requires a control by speed variator.

REF	n (RPM)	U (V)	I (A)	f (Hz)	P (W)
MSAP10	1000/1500	375/445	1/1	50 / 75	300/440

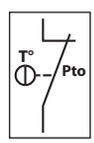
H	B	L	Weight
90	172	270	4,1kg

POLYEXCITATION (COMPOUND) MOTOR

Designed to be high-performance motor (characteristics below), this machine also works as a generator.

REF	U (V)	I (A)	H	B	L	Weight
PM10	220V	2.3A	90	172	420	25kg

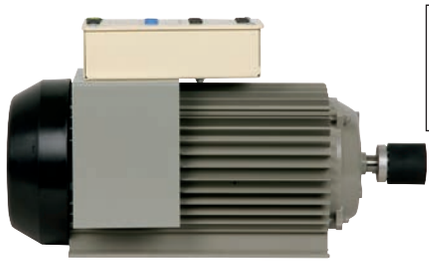
SHUNT / SEPARATED DC GENERATOR

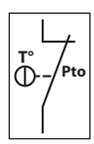


Designed for a didactic use.

REF	U (V)	I (A)	H	B	L	Weight
CG10	220V	2A	90	172	420	20kg

SHUNT / SEPARATED DC MOTOR 220/220V



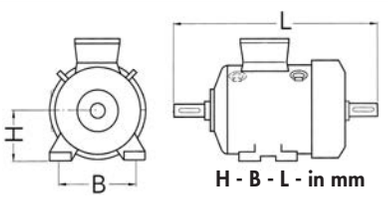


This engine works as well with a **speed variator** as directly connected to a DC supply.

REF	U (V)	I (A)	H	B	L	Weight
CC10	220/220V	2A sous 230V	90	172	420	21kg

Each machine is equipped with a binary temperature sensor with a contact that can be inserted into a control circuit.

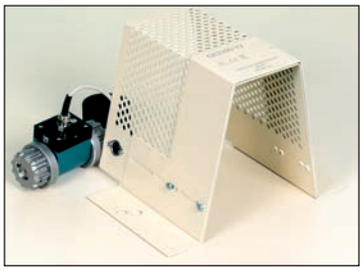
The couplings are compatible across a single power range. Coupling and fastening screws provided with each reference number.



H - B - L - in mm

ACCESSORIES FOR ROTARY MACHINES - **300W**

BRUSHLESS TORQUE SENSORS WITH OR WITHOUT SPEED OUTPUT



** The use of an inertia wheel and/or a frequency converter generates starting torques up to 7 times the rated torque. It is recommended to consider this to avoid destroying the sensor.*

BRUSHLESS VERSION

These brushless torque sensors have to be placed between 2 machines and measure the torque sensor V2 and the twist torques and speeds for the version V22. It is equipped with an optical torque so without mechanical wear and maintenance, with a dynamic range allowing to measure some important torque changes and high speeds. The values of starting are so easily measurable.

Torque output signal: 0 to 5V for the measuring span in Nm (0 to -5V according the rotating way).

Maximum rotating speed: 2000 rpm

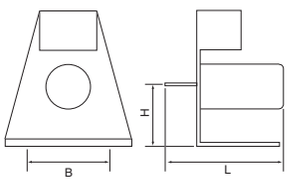
Sensor supply: between 12 and 28 VDC

REF	Power	Sensor range	Speed output	L mm	Use with an important inertia
CR1-V2	300W	20 Nm	no	220	Yes
CR1-V22	300W	20 Nm	5V at 2500 rpm	220	Yes

Connecting cable and protection casing supplied with all our sensors.

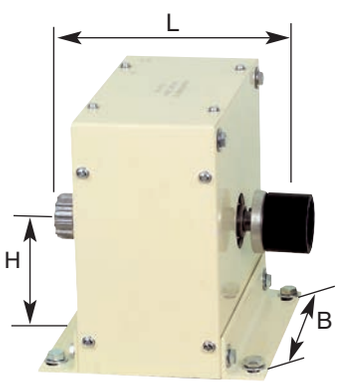
DC TACHOGENERATORS

These tachogenerators deliver a continuous voltage proportional to the rotating speed.
Supplied complete with couplings, housings and screws bolt.



REF	Power	Voltage at 1000 rpm	Connection	H (mm)	B (mm)	L (mm)
DYTA10	300W	10V	Safety Terminals	90	172	170

INERRTIA WHEEL

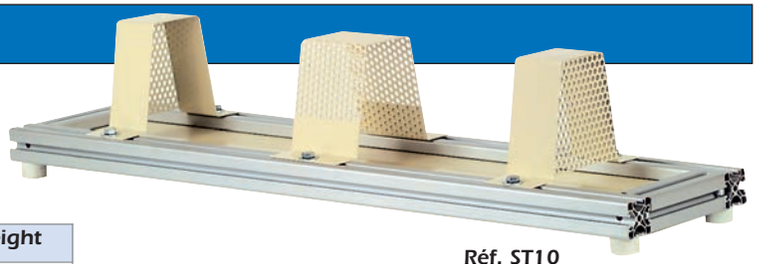


This inertia wheel allows to simulate rotary machines with a high moment of inertia.
Supplied with 1 coupling + 1 cover + screws.

REF	VOL1
For power	**300W**
Inertia	0.025kg/m²
Weight	10kg
H	90mm
B	172mm
L	111mm

MOTORS RAILS SUPPORT

These rails will be used for aligning and fixing the machines constituting of the made up groups according to your own configuration. With each pair of guide rails are included 2 end of shaft protective covers and 1 intermediate housing. All the powder brakes are delivered on guide rails. Total width: 212mm



Réf. ST10

Réf.	Power	Overall length	Pitch of rails	Weight
ST10	300W	1100mm	172mm	7kg
STL	300W	1450mm	172mm	8kg

WHEEL OPTIONS FOR A MOBILE SOLUTION WITHOUT MOTORS STAND

This economical option consists in fixing 4 wheels equipped with brakes directly under the aluminum rails. This solution effectively replaces a motors bench on wheels and facilitates you to easily move your power unit. This solution elevates the set of 170mm.

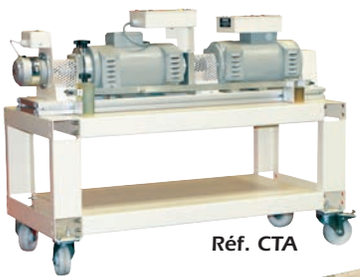
ref. ROU-4

BENCH ON WHEELS FOR MOTORS/MACHINES

Designed to transport a complete set of machines. 4 wheels, 2 of them with a brake.

Réf.	Useful Length	Width	Height	Weight
CTA	950mm	470mm	500mm	30kg
CTB	1300mm	470mm	500mm	30kg
CTC	1610mm	470mm	500mm	39kg
CTH	1610mm	470mm	845mm	45kg
CTL	1900mm	470mm	500mm	45kg

Réf. CTH



Réf. CTA

Réf. CTC

Handle option
to move easily

ref. OP-CT

SAFETY STARTER RHEOSTAT

Safety starter rheostat for **LOW** powerful slip ring machines

ref. RD3

Safety starter rheostat for **LOW** powerful DC machines

ref. RDC

STAR/DELTA starter

ref. CO-ET-8A