

MAGNETIC PARTICLE BRAKE

MAIN FEATURES

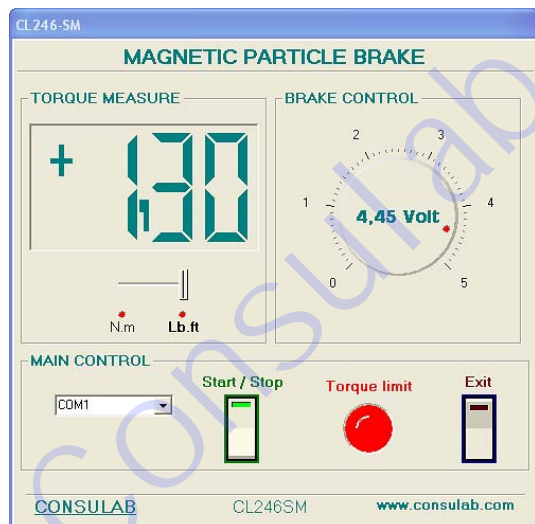
- Stable shockless braking torque
- Rated torque available from zero speed
- Low moment of inertia and low residual torque
- Operation in either rotational direction
- Braking torque measurement included



DESCRIPTION

Mounted on the test bench, the CL-246 can be coupled within seconds to any Consulab 1/3 HP rotating machines to establish the load of a machine. It is equipped with a magnetic particle brake in which the stator is assembled with a balance arm and a load cell system, as well a rotor driven by the tested machine. The load torque is directly proportional to the control voltage and fully independent from the rotor rotation speed.

In internal mode, the CL-246 is controlled with a potentiometer and its load torque measurements can be read in the analog meter display. In external mode, the unit can also be operated with 0-5V DC external drives or by computer and dedicated software. For ease of identification and use, the specifications and schematic diagrams are silk-screened on the reverse of the clear front panel.



CL-246 Interface Software



CL-246 Front Panel

SPECIFICATIONS

DESCRIPTION	CL-246-00	CL-246-50
Supply Voltage:	120V AC	220V AC
Frequency:	60 Hz	50 Hz
Load Torque:	<ul style="list-style-type: none"> ▪ Rated torque: 1.33 N.m / 1.0 lb.ft ▪ Maximum torque: 3.40 N.m / 2.5 lb.ft (maximum) 	
Residual Torque:	<ul style="list-style-type: none"> ▪ 0.20 N.m / 0,15 lb.ft (maximum) 	
Accuracy:	<ul style="list-style-type: none"> ▪ $\pm 2\%$ (FS) according to the model and its configuration 	
Maximum Rotation Speed:	<ul style="list-style-type: none"> ▪ 4 000 RPM 	
Control Modes:	<ul style="list-style-type: none"> ▪ Internal : potentiometer and analog meter ▪ External : control and measure with 0-5 VDC ▪ RS232 : Computer and dedicated software 	
Torquemeter Reading Scales:	<ul style="list-style-type: none"> ▪ 0 - ± 4 N.m / 0 - ± 3.0 lb.ft ▪ 0 - ± 2 N.m / 0 - ± 1.5 lb.ft ▪ 0 - ± 1.33 N.m / 0 - ± 1 lb.ft 	
Controls:	<ul style="list-style-type: none"> ▪ ON/OFF switch with indicating lamp ▪ Control mode selector ▪ Torquemeter reading scale selector ▪ Offset potentiometer ▪ Local control potentiometer 	
Protection:	<ul style="list-style-type: none"> ▪ Fuse-for electronic board ▪ Software load cell torque limit 	
Connectors:	<ul style="list-style-type: none"> ▪ BNC connector for load torque control : 0-5V DC ▪ BNC connector for load torque measure : 1,475 V/N.m – 2 V/lb.ft ▪ DB9 connector for computer interface 	
Dimensions:	25 x 33 x 33 cm / 9 7/8 x 13 x 13 in	
Weight:	9 kg / 20 lb	
Product Number:	52118	52119