

**UNITEC 3HP WOUND ROTOR  
INDUCTION MACHINE****CL-U104 REFURBISHED VERSION****DESCRIPTION**

The Consulab CL-U104 Wound Rotor Induction Machine is a console specially designed to teach and aid in typical experiments on wound rotor induction motors, frequency changers and dynamic brakes. This machine console is also used as a variable speed prime mover for other Unitec machine consoles.

**TYPICAL EXPERIMENTS**

- Basic characteristics of a wound rotor induction motor.
- Wound rotor induction motor circle diagram.
- Single-phase operation of three-phase wound rotor induction motor.
- Operations of single-phase capacitor start induction run wound rotor induction motor.
- Wound rotor induction motor as an induction generator.
- Wound rotor induction motor as a frequency changer.
- Dynamic braking of a wound rotor induction motor.
- Cascading wound rotor induction motors.

**SPECIFICATIONS**

Rated Power:	2.2 kW – 3HP
Rated Input Voltage, 3-phase:	110 / 208 / 220V AC
Frequency:	60 Hz
Full Load Current:	19.4 / 10.3 / 9.7 A
Speed:	1725 RPM

**MEASURING INSTRUMENTS (Analog)**

3-phase wattmeter (1):	0-4 kW
Voltmeter (1):	0-300V AC
Ammeters (3):	0-15 A AC

**CONTROL INSTRUMENT**

Across-line starter (1)
Manual drum controller (1)

**TERMINAL BLOCK**

Stator coils (6)
Rotor terminals (3)

**DIMENSIONS**

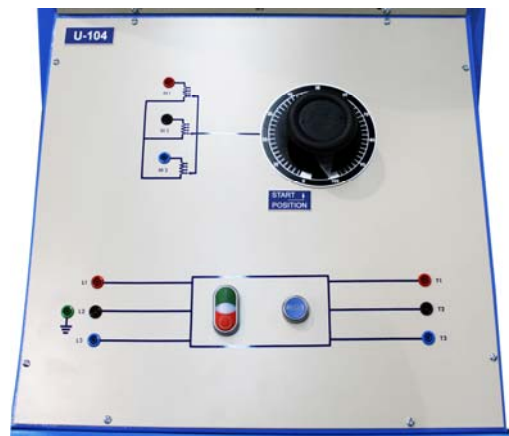
59 x 73 x 190 cm

**CL-U104  
STORAGE COMPARTMENT****CL-U104  
REAR VIEW****CL-U104  
FRONT VIEW**

**UNITEC 3HP WOUND ROTOR  
INDUCTION MACHINE****CL-U104 REFURBISHED VERSION PACKAGE**

The CL-U104 old version Unitec machines can be refurbished on request. The refurbished version package includes the following:

- Checking and cleaning various components;
- Sand blast cleaning of the console housing;
- Console recoating with baked enamel;
- Shelf re-built and hinge replacement;
- Safe part and wiring terminal mounting;
- Wiring replacement;
- Checking the mechanical coupling operation;
- Commutator replacement;
- Motor brush replacement;
- Ball bearing replacement;
- Motor recoating;
- Front panel replacement (with metal);
- Checking, cleaning and replacing, if necessary, AC starter and field rheostat contact terminals;
- Fuse and fuse holder replacement;
- Checking and replacing, if necessary, the caster treads;
- Machine starter replacement;
- Replacement of missing components; and
- Console quality control.

**CL-U104 OLD VERSION****CL-U104  
CONSOLE TOP VIEW****CL-U104  
CONSOLE BOTTOM VIEW**