



# AIRCRAFT ASTB2010 ALTERNATOR STARTER TEST BENCH

## DIODE TEST

Test Voltage 99 V pp  
Green LED: good  
Red LED: Faulty

## REGULATOR TEST

Range: 12/24/32 Volt  
Meter: 0-50 Volt Analog & Digital  
6 wire system Din plug with harness

## EXTERNAL VOLTMETER

Digital only

## LOW RESISTANCE METER

Analog & Digital  
3 Ranges: 1 10 100 Ohm  
1 milli Ohm resolution  
Set zero pot & over range LED

## AC POWER SOURCE

Voltage: 380 Volt AC  
Phases: 3 Phase  
Frequency: 50 Hertz  
Power consumption: 11KW  
Mains switch: 3 pole 25 A MCB  
Mains lead: 5 metre 4 square  
5 Wire with earth & neutral

## FIELD CURRENT SUPPLY

Voltage range: 13.8 V fixed  
Current range: 0-5 A variable  
Meter: 0 - 10 Amperes Analog only

## BATTERY VOLTAGE

Range: 0-50 Volt Analog & Digital

## ALTERNATOR OUTPUT CURRENT

0- 300 A Analog & Digital  
With normal and reverse  
selector switch

## VOLTAGE SELECTOR

Range: 24 V

## ACCESSORIES & TOOLS

all test leads to do required tests

## DRIVE SYSTEM

Programable computerised drive system  
Rotation: FWD & REV Switch  
Stop & start buttons with soft start feature  
active. Motor 11 KW  
Mechanical drive coupler to alternator/starter  
unit

## ALTERNATOR LOAD

30 Block 500 amp variable  
carbon pile unit, or  
4 x independent 0.6 Ohm  
1500 watt resistors that can  
be selected as required for  
a total load of  $\pm 200$  amperes  
forced air cooled

## ALTERNATOR FAULT LAMP

24 volt

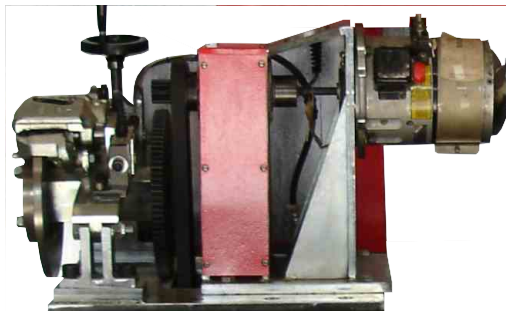


## UNIT DIMENSIONS H x W x D

1590 x 1770 x 950 MASS:  $\pm 600$  Kg

## DC POWER SOURCE

2 x 12volt 180 Amp/Hr Batteries (not supplied)  
Battery shelf with cables fitted with post  
connectors for easy installation. Power supply:  
one 27.6 volt CVCC robust tyristor controller  
regulator with current limit set at 15 amp and  
wired to keep the batteries always fully charged.  
(On /off mains MCB for manual use



## BRAKING DEVICE

225mm Diam caliper disk brake  
hydraulic foot pedal operation.  
manually engaged for loading  
starter section

## STARTER CONNECTION

Manual selected: HD Dinse socket  
& plug. Solenoid switched 2000 A

## SOLENOID VOLTAGE

Manual push button energize  
internal solenoid with overload  
MCB 63 A

## STARTER CURRENT

HD Dinse socket & plug  
Range: 0 - 2000A  
Analog & Digital  
With normal and reverse  
selector switch

## TORQUE MEASUREMENT

Display: 4 Digit LED reading  
Newton metre  
Load cell: 500 Kg = 3 milli Volt  
Measure running & lock torque

## INDICATING INSTRUMENTS

Measurements done: analog and digital simultaneously  
display units: Analog 109 x 66 Digital 4 digit 96 x 48  
With range voltage 99.99 Current 2000 or 300.0 Amp

## REV COUNTER

Range: 0-6000 RPM Digital only  
Motor drive ratio: 1-2 can drive  
alternator to 12000 RPM

**DESIGNED AND MANUFACTURED IN SOUTH AFRICA**

Appearance And specifications listed in this brochure are subject to change without notice