1. Technical Requirements.

1.1 Guarantee and Inherent Defects:

- Until such time that the instrument certifications have expired,12 months, the approved supplier shall be entirely responsible for repairing all defects occurring within this period.
- Supply, calibrate and certify in accordance to Prasa requirements and relevant standards.
- The approved supplier shall guarantee that when the instrument fails will be repaired and returned to service within 10 (ten) working days, from the date of being notified of the defect.

1.2 Document Management.

- Certificate of compliance, calibration and guarantee should be submitted during delivery.
- Test report and results should also accompany delivery

2. Specifications of the Work or Products or Services Required Definitions

SANS – South African National Standard

EMU Maintenance Tools and Equipment Specification

TOOLS	DESCRIPTIONS
-------	--------------

1. 3 1/2 Digit Digital Multimeter



- Digital multimeter includes an 80BK type K bead thermocouple probe with integral adaptor.
- The digital multimeter is suitable for a variety of measurement applications that comes with its own test leads; instruction manual; 9v alkaline batteries.
- This digital meter also features a display backlight for easier measurement reading.
- Features and Benefits 6000 count LCD with 33 segment bar graph, True RMS (A.C.) measurement, EN61010-1 safety standard compliance to Cat IV 600V & Cat III 1000V, Resistance; continuity and diode measurement, Capacitance measurement up to 10000μF, Frequency measurement up to 100kHz, Min/Max/Average recording, Display and Auto Hold, Separate battery and fuses access without breaking the calibration seal
- Specification
 - Multimeter Handheld;
 - Absolute Maximum AC Current Measurement is 10A ac;
 - Absolute Maximum DC Current Measurement is 10A dc;
 - Absolute Maximum Resistance Measurement is 50GΩ;
 - Absolute Maximum AC Voltage Measurement 1000V ac;
 - o Absolute Maximum DC Voltage Measurement 1000V dc;
 - Absolute Maximum Temperature Measurement +400°C;
 - Absolute Maximum Capacitance Measurement 9.999F;
 - Functions Measured: AC Current; AC Voltage;
 Capacitance; Continuity; DC Current; DC Voltage; Diode;
 Frequency; Resistance; Temperature True RMS;
 - Maximum Frequency 1kHz;
 - LCD Display;
 - AC Current Measurement Resolution 0.01mA;
 - DC Current Measurement Resolution 0.01mA;
 - o DC Voltage Measurement Resolution 0.1mV dc;
 - \circ Resistance Measurement Resolution 100m Ω ;
 - AC Voltage Measurement Resolution 0.1mV ac;
 - Capacitance Measurement Resolution 1nF;
 - Temperature Measurement Resolution 0.1°C;
 - Best Resistance Measurement Accuracy ±1.5% + 3 Digits;
 - Safety Category Voltage 600 V; 1000 V;
 - Maximum Operating Temperature +50°C;
 - Battery Life 200 h;
 - Best AC Voltage Accuracy ±1% + 3 Digits;
 - Best Capacitance Measurement Accuracy ±10 %; Best DC
 Voltage Accuracy ±0.1% + 2 Digits;

TOOLS	DESCRIPTIONS	
	Best AC Current Accuracy ±1.5% + 3 Digits	
Rigid Back Probe Pins Sure Grip Alligator Clips	 Slides onto test probes of the multimeter. Should be compatible with make of multimeter supplied. Sharp point allows for contact to electrical connectors and insulation protects from shorting. For use with the multimeter, thus should be compatible with the supplied multimeter. Red and black. One warranty. Multipurpose tooth grip for fine wire to 20mm bolt. 	
4. USB to Serial (RS232) port converter	 The USB to Serial Adapter provides the connection between USB and the traditional RS-232 serial port. The adapter is designed for connections to Cellular phones, PDA's, digital cameras, modems, or ISDN terminal adapters through your USB port with over 230 kbps data transfer rate. Since the adapter uses no IRQs, it is perfect if you need many serial devices attached to your PC. The USB to Serial adaptor is Bus Powered and provides true Bi-Directional communication. Connector 1: USB 2.0 Type A Male Connector 2: DSUB 9 Pin Male 5m length 	
5. RJI CAB IP20/M12 4XAWG	STX M12x1 Series, 4 Way, X Coded, patch cables are ideal for	
22/7SCHL;1,5m (RJ45 TO M12 CABLE)	 ethernet applications. The X-coded CAT.6A cable assemblies can transmit data rates of up to 10 GB/s, and with a M12 circular screw lock connector, they resistant to vibration and ideal for industrial environments. STX M12x1 series of 4 way patch cables can be used for many applications, such as security and video surveillance systems, production and manufacturing, renewable energy or use with railway vehicles data systems. Features and Benefits: Dust poof and watertight, IP67 rated (RJ45 IP20 rated), Robust die cast housing, 360 degree shielding, Vibration protection, Full metal shield between pairs of wires, Connector A Straight M12, Connector B Straight RJ45, Length 5m, Connector A Number of Contacts 4, Connector B Number of Contacts 4 Sheath Colour Green, IP Rating IP67, Cross Sectional Area 0.14 mm²Connector A Housing Gender Plug, Shielding Shielded, Connector B Housing Gender Plug, Sheath Material Polyurethane PUR, American Wire Gauge 26 	
6. Tool Bag/Carry bag	Tool Back Pack The best way of storing and transporting tools is by using specially designed backpacks that feature easy-	

TOOLS	DESCRIPTIONS	
	 access compartments in a variety of sizes and are made from extra-durable materials. Features & Benefits: Made from heavy-duty 600 x 600 denier fabric for long-lasting and extra durability 50 Pockets/tool holders for a wide variety of tools, including longer tools on the side such a level Removable dividers system with tool holders is easily detachable, with handle for easy carriage Padded back and shoulders - provide extra comfort when carrying heavier loads Hooks and nets give extra storing options Separate internal laptop compartment Dual Zipper mechanism allows for easy opening Waterproof, extra durable plastic bottom Large capacity: 28l 	
7. RS232 Gender Exchange (Female to	Serial Port Female to Female Coupler / DB9 RS232 Gender	
Female)	Changer This gender changer is to change a male connector to a female connector. Don't buy another cable, just change its gender with this RS232 / Serial 9 pin F/F Gender Changer Adapter. RS232 / Serial 9pin Gender Changer F-F ● Typically used with RS232 serial 9pin cables ● Also helps make a longer extension to existing video cords	
	 Cat6 Cabinet Line RJ45 to RJ45 angled patch cable assemblies with an IP20 RJ45 plug connector on either end. These Cabinet Line RJ45 to RJ45 patch cables have S/FTP shielding with a PE insulation and a grey LSZH sheath with a 5.9mm diameter. The operating temperature range for these Cabinet Line RJ45 to RJ45 patch cables is -20 to +60°C. These RJ45 to RJ45 angled patch cables must be 10m in lengths. Standards 	
	 Halogen: to IEC 60754-2 Resistance to spread of flame: to IEC 60332-1/ UL 1581 FT2 Cable: ANSI / TIA / EIA-568- B.2-10, ISO / IEC 11801:2002, EN50173-1:2007 Connector: IEC 60603-7-51 	
	 M12 Panel Mount RJ45 Adaptors The M12 female-RJ45 panel feed-through adaptors are Dcoded. With a hex-nut and seal included, a secure connection is assured and is protected to IP65 / IP67. A convenient and easy to install way of connecting conventional RJ45 devices to a more advanced and versatile M12 system. The D shaped cut out measures Ø16.3 mm with 15.4 mm flat. 	
10. RS232 cable (Male to Female)	Assembled D-SUB cable, shielded, 9-pos., stranded (7-wire),	

TOOLS	DESCRIPTIONS
	 IP20 protection, head 1 with socket shell 1 and straight cable outlet, head 2 with pin shell 1 and straight cable outlet. Connector A Male D-Sub, Connector B Female D-Sub Length 5m Number of Populated Ways 9, Series VS-09-DSUB-20-LI5.0, Voltage Rating 125 V, Current Rating 1 A, Outer Sheath Material PVC, Shielding Shielded, Standards Met EAC Approval
11. Digital Endoscope	 The "Up is Up"™ function offers the user optimum orientation due to automatic rotation of the image. Transfer images and videos directly via a micro USB cable or a micro SD card for documenting critical areas Dual Power Source - can be operated both with 10.8 V Li-ion battery and with standard alkaline batteries. GIC 120 C Professional Cordless Inspection Camera Charger GIC camera cable - 8.5 mm diameter, 120 cm long Hook, magnet, mirror L-BOXX inlay Micro USB cable 1 x battery GBA 10.8 V 1.5 Ah (1 600 Z00 02W) 4GB MicroSD card Digital zoom for better recognition of details 120 cm long camera cable for better reaching of problem areas Bright LED for illuminating dark areas Display size: 3.5 " Display resolution: 320 x 240 px Diameter of camera head: 8.5 mm Length of camera cable: 120 cm Number of LED lighting stages: 3 Weight: 0.64 kg
12. Ethernet Adapter 13. Oil Draining Canister	DB9 RS232 Female to RJ45 Female Adapter The canister must be able to effectively catch oil being drained from the top with minimal spillages.
OR COMP.	ITEMPARAMETERUNIT MEASUREWeight1 kgDimensions59 x 31 x 25 cm

14. Gurtech Grease gun

TOOLS





MANUFACTURED IN SOUTH AFRICA BY GURTECH™

narketing@gurtech.co.za 🏿 www.gurtech.co.za 📘 +27 (0)33 234 2021

15. Grease gun fittings.



- [ACCESSORIES]: Perfect for garages or automotive workshops and includes common lubing attachments that fit most grease gun couplers and guns.
- [VERSATILE]: All-in-one grease gun kit includes an easy-to-use connect design with a 90-degree swivel coupler and a 360-degree coupler for greasing at all angles.
- [CONVENIENT]: 12" flexible hose with spring fits in tight spaces and each kit includes grease injector needle and 1-1/2" needle nose adaptor.
- [VALUE]: Includes practically every zerk fitting at half the price (4" needle nose adaptor, grease gun adaptor and coupler).

TOOLS	DESCRIPTIONS
	 [INCLUDED]: 12" flexible hose w/spring, grease injector needle, 1-1/2" needle nose adapter (flat),
	standard coupler, heavy duty coupler, 90° swivel
	coupler, 360° swivel coupler, oil gun clamp, short grease gun adapter, and heavy duty case.

16. DPI 705 Digital pressure gauge



Pressure Units

psi, inHg, inH₂O (4°C, 20°C and 60°F), ftH₂O (4°C, 20°C and 60°F),

mmHg, mHg, mbar, bar, mH $_2$ O, Pa, hPa, KPa, MPa, Kgf/cm 2

Calibration Units

mbar, bar, psi, kPa, mPa, hPa, Kgh/cm²

Leak Test

Standard 60 second leak test.

Zero

Zero pressure correction.

Tare

0 to 100% FS zero offset capability.

Filter

10 reading rolling average for unstable pressures.

Δlarm

Adjustable high pressure alarm with visual and audible warning.

Ambient Temperature

°C and °F reading of local condition ±1.5°C (±3°F).

Calibration

TOOLS	DESCRIPTIONS
17. Fowler Digital inside caliper	 LCD Display: High-quality thickness caliper with a steel body; easy-to-read LCD display allows you to get precise results quickly and easily Measuring Capabilities: This digital caliper measures Inside dimensions for hole diameters and groove depths Accurate Measurements: The caliper measuring tool has an accuracy of 0.01" and a reading of 0.01"; perfect for machinists and household/DIY measurements Three-Unit Conversion: Quickly switch between inch, fraction, or metric units with a single click; allows you to set zero for taking intermediate or differential measurements; hold feature freezes display for later viewing Set Includes: Xtra-Value electronic caliper gage, CR2032 battery, manual, and a plastic case
18. Torque Wrench Set . Combination	• 10-50Nm
and Open End	Torque wrenches should be combination of hexagon
19. Digital Venier – 150mm	 Easy-to-read LCD display. A useful conversion table is at the end. The perfect tool for a wide variety of industrial and automotive uses Range of measurement: O- 150 mm: accuracy: +0.02 mm."O.OOI in (100-150 mm). Resolution: 0.0005 in (0.11 mm). Repetition: 0.01 mm (0.0005 inches). I Ill's maximum reading speed
20. Lazer Distance Meter	 Measuring range: 0.15 - 20m Laser class: 2 feature and benefits Compact one button laser measure, measuring up to 20m.One button for everything — intuitive and easy measuring.

TOOLS	DESCRIPTIONS
Bosch 1 18.850m Professional across	 Measure and Capture — Holds one measurement while taking another. Real Time Measurement Mode — Measurement automatically adjusts closer to or farther from target.
21. Airflow Meter	 Air temperature: O c 50 °c Anemometer functions: CFM (ft'/min), CMM (m³/min). Knots, ft/min, km/h, m/s, mph Display Type: LCD Pressure measurement: PA, PSI, inH20, mBar, mmH20 Measurement of air velocity and air flow Measurement of air temperature, barometric pressure and differential pressure Average, minimum and maximum value recording Switchable auto power off function Data hold and zero function Internal memory for 99 measurement readings PC software and USB 2.0 interface Accessories: case, USB-interface cable, pitot-tube, connection hose, software for Windows 20001XP/VISTA/7, battery and manual
22. Vacuum Cleaner	 Hoover or equivalent Bagless Vacuum Cleaner (2000W) 220 Volts AC
23. Rechargeable Vacuum Cleaner	 Handheld Vacuum Cleaner product Hoover Wet and Dry Handheld or equivalent Vacuum Cleaner 14.8V Model: HHWD14
24. Angled Socket Wrench	 9 Piece Metric 8 to 19mm 75.J9PB

TOOLS	DESCRIPTIONS
25. 12 Piece ratchet spanner set	• Size 8 to 19
	Chrome
	Metric
The state of the s	• Combination
26. 9 Piece Allen key set	9 piece
	Metric
	Ball type
27. 8 Piece tamper proof, Trox	Magnetic
screwdriver set	• Trox
	Dual grip, tri-angular handle
28. Padlock	4 piece
	40mmKeyed Alike
	Keyed Alike Waterproof Laminated Gate Door Padlock
	Pad Lock with Same Keys

TOOLS	DESCRIPTIONS
29. Wago tool	 Tip Size: 0.5mm Blade Length: 3.5mm Suitable for 280 Series Actuator
30. 6 Piece Screwdriver set	• VDE 1000V
	Insulated Magnetiating
	Magnetic tips
31. 3 Step Ladder	Aluminium
	150 kgA frame
32. ¼" Drive socket set	• 33 piece
	With casing

TOOLS	DESCRIPTIONS
100LS	DESCRIPTIONS
33. Safety harness and double lanyard	 Safety harness and lanyard required are similar to the picture Full body harness with padding on both shoulder and leg straps, a kidney support and a double battery strap on waist belt 3 x attachment points - 1 back and 2 front D ring on chest strap for rescue Standing step - up strap in pouch on waist belt SANS 50354/ 50355/ 50361 certification for harness, energy absorber and lanyards to be submitted on delivery Detachable double leg lanyard, built-in shock absorber 1.75m lanyard length with 2 large scaffold steel hooks (53mm gate) and 1 steel snap hook Equipment to be serial numbered. To be supplied with carry bag

TOOLS	DESCRIPTIONS
34. VOLTAGE DETECTOR	VOLTAGE DETECTOR
	Measures AC, DC Voltage 24VAC to 240VAC,
EXECUTE FOR STATE AND	32VDC to 330VDC
35. Shore supply Kit	Consisting of:
	 Railway connector Female (to fit into train plug) Refer to specifications below
	 AMPCO Socket 63A 6h/380-415V AC 3P (L1, L2, L3) +Neutral, with Interlock Round Socket Outlet Refer to specifications below
	 AMPCO 63 Amp Plug 63-6H 3P (L1, L2, L3) +Neutral IP67 Type 2189 Refer to specifications below
	 Cable 14 meters long Supplied assembled with plugs on either side. Refer to specifications below

Railway Connector - Female





Railway Connector (female)	
1. Housing Material	Aluminium
2. Contact Material	 Silver Plated Brass
3. Insulator	 Thermosetting
4. Protection Index	• IP53 IK7
5. Contact Size	• Ph/Ph: 7mm
	Ph/T: 3mm
6. Contact Stem Size	• Ph/Ph: 7mm
	Ph/T: 3.3mm
7. Termination	Soldering
8. Contact Type	• Sleeve
9. Max O.D.	• 30mm
10. Max Cross-Section	• Ph/Ph: 16mm ²
	• Ph/T: 6mm ²
11. Max Ø Cable over	• 11.5mm
Insulation	

Industrial Plug and socket - Workshop Side





Industrial Plug (male) and S	
1. Number of Poles	• 3P+N+E
2. IP Grade	• IP67
3. Rated Current	• 63A
4. Rated Operating Voltage	• 220-380V AC

Wiring Diagram						
	Industrial			Rail		
Phase	Plug	Cable		Cable Connecto		Connector
	Pin Number	Col	our	Pin Number		
L1	L1	Brown		1		
L2	L2	Grey		2		
L3	L3	Blue		3		
N	N	Black		4		
Е	Е	Green/Yellow		NC		
			• 240-4	15V AC		
5. Rated Insulation Voltage		• 690V AC				
6. Rated Frequency		• 50/60	Hz			
7. Earth	7. Earth Position					

• IEC/EN 60309-1/2

<u>Cable</u>

8. Standard

Cable	
1. Insulation Type	HO7RNF Heavy Duty Rubber
2. Insulation Colour	Black
3. Outside diameter of insulation	• 23.74mm
4. Insulation Thickness	• 4.56mm
Inside diameter of insulation	• 17mm
6. Number of cores on the cable	• 5 (3P+N+E)
7. Inside Diameter of Wire	• 5.96mm
8. Outside Diameter	• 6.69mm
9. Thickness of wire insulation	• 0.73mm
10. Area of wire (inside)	• 27.898mm ²
11. Number of strands	• 43
12. Total cable length	• 14m





36. Specifications of In-place Inclinometer System:



Sensor Uniaxial or biaxial sensor

Accuracy $\pm 0.1\%$ fs

Resolution ± 0.05 mm/m (8 arc seconds)

Output SDI-12 serial output

Temperature Range -20°C to 80°C

37. DIGITAL SPIRIT LEVEL:



- Digital accuracy: 0.10 at level and plumb, 0.20 at other angles
- LCD screen means easy to read measurements

- 360° readout flips in upside down position. Functional in all positions
- HOLD function make it easy to use even in low light condition
- MODE function gives the degree/percentage/in-ft
- MEMORY RECALL (9 measurements)
- Buzzer at 0°, 45° and 90°
- Low battery indicator
- Waterproof bag included

38. <u>VIBRATION METER</u>

Sensor	Piezoelectric Transducer
Magazina Panga	Velocity: 0.01~400 mm/s 0.004~16.0 inch/s True RMS
Measuring Range	Displacement: 0.001~4.0 mm 0.04~160.0 mil Equivalent Peak-peak
Eroguenov Pango	Acceleration: 10 Hz ~ 1k Hz 10 Hz ~ 10k Hz
Frequency Range	Velocity: 10 Hz ~ 1k Hz

39. Mirror:



5 x 9.2cm Telescopic Inspection Mirror

- Features:
- The Duel Ball Joint positions the mirror at any angle for those hard to see places

Specifications: - Dimensions: 25 x 15 x 4cm - Weight: 0.25kg - Colour: silver & Black - Material: Steel & glass - Warranty: 12 Months

40. Cable and Antenna analyzer:



Condition > New, original Anritsu S331L Site Master, multi-languages (including English)

Brand > Anritsu

Frequency Range > 2 MHz to 4 GHz

Installed Options > inst. calibration kit

Soft bag > included

Size: > 800x480 7" TFT touch screen

MPN

Battery > built-in

Frequency Resolution: > 1 kHz

Touch pen > included

UPC

41. SOCKET SET 1/2"

02330A 1/2 Impact Socket Set, 45 Piece Deep and Shallow Assortment, Metric Sizes 9mm to 32mm, Chrome Vanadium Steel, Extension Bars, Universal Joint and Adapter, 1/2" Drive Deep Well Socket Set



42. BATTERY OPERATED CRIMPING KIT KITB1300-C-1

B1300 series portable crimping tool General features: LED light illuminating working area Li-Ion 18.0V 4.0Ah high power battery Crimping cycle data stored (up to 200.000 events) in memory for later transfer to PC Digital display indicating: crimp pressure, available battery life, service/maintenance information Supplied with plastic carrying case for tool, battery and charger and (included) die sets: ME 10-C, 14-C, 19-C, 24-C, 30-C, 37-C, 48-C/li/table SERIES B series TYPE OF TOOL Battery operated crimping tools DESCRIPTION Battery operated crimping tool FOR TERMINALS Die dependant CONDUCTOR Maximum 400 CRIMPING FORCE (kN) 132 kN



43. Insulation testers

insulation Resistance up to $10T\Omega$

Short-Circuit Current up to 5mA

Wide Test Voltage from 250V to 5000V

Diagnostic Insulation Tests: IR, PI, DAR, DD, SV, RAMP.

Wireless communication by Bluetooth for transferring and showing real-time data to PC and Android device.

Memory and Logging functions.

Filter function reduces noise interference.

Robust design for field use with IP65 (lid closed).

Powered by rechargeable battery.

The K3127 is a 5kV High Voltage Digital Insulation Tester that is microprocessor controlled and is capable of performing tests from 250V up to 5000V, and will automatically discharge the circuit after the test has been completed. The meter is a battery powered instrument and operates on a simple and clear basis. Other features include Insulation Resistance $10T\Omega$, Short-Circuit Current 5mA, IR, PI, DAR, DD, SV, RAMP. The K3127 has the capabilities of being a diagnostic tool and is intended for testing insulation on Rotating Machines, Transformers, Cables, High Voltage Generators, Electrical Circuits and Surge Arresters. These readings are displayed on the large LCD display with a bargraph together with the actual output voltage thus making it easy for the user to read the results. Once the meter test is completed it will automatically discharge the apparatus under test and indicate the discharge voltage on the display while the meter is still on.

Dimensions: 208 x 225 x 130mm

Weight: 8kg

Accessories:

Carrying Case

12V Lead-Acid Battery

Test Leads

Instruction manual

Charger

COC



44. 4 Pack 7 inch Snap Ring Pliers Set Heavy Duty Internal/External Circlip Green

Material: CRV Carbon Steel

Length: 175mm/7"



45. . Cordless Impact Drill

Power source Battery Powered

Maximum rotational speed 3250 RPM

Voltage 18 Volts

Maximum chuck size 13 Millimeters

Colour Black

Included components 1 x DeWalt 18V 2 x 5.Ah Li-on XR Compact Brushless Hammer Drill Drive

Special feature customizing your speed and power

Product dimensions 6.7L x 20.3W x 19H centimetres

MaterialMetal



46. Cable cutter

Heavyduty, Industrial long-Arm wire Pliers Hand Tool, 24 inch



47. Trimming Knife

KNIFE TRIMMING STANLEY RETRACT 99E 210-099



48. Extention cord/cable

RO-XT HEAVY DUTY 50M CABLE REEL - 4 SOCKET WITH SWITCH



49. . Tennant T2, Scrubber Dryer

Voltage: 220V

Vacuum Motor: 500W

• Suction Volume: 1750mmH₂O

Brush Motor: 550W

Brush Speed: 200rpm

Noise Level: <=78dB

Clean Water Tank: 48L

• Dirty Water Tank: 55L

• Max Solution Supply: 2.6L/min

• Squeegee Width: 75cm

• Theoretical Coverage: 2250m²/h

Brush Diameter: 50cm

• Cleaning Width: 51cm

Brush Pressure: 0-30 kg

Max Angle: 2%

Min Turning Radius: 90cm

Power Cord: 0.5m

• Extended Power Cord: 25m

50. .Staple gun



- 12.7mm CRW X
- 6-25MM

51. Cordless Rivet Gun



• GRG 18V-16C

52. BENCH SAW



- Cast-iron table and wings
- Saw Stop Safety System stops on contact with skin
- Integrated and Industrial mobile base options
- Cabinet base, cabinet-mounted trunnion, interior motor
- MAX 3.0HP Power, 203 kg (449 lbs) typical config weight
- 1760 mm wide X 927 mm deep X 864 mm high
- 32 tooth saw blade
- Assembly tools
- Automatic safety return
- Blade brake
- Legstand

53. Radial Arm Saw





- 32 tooth saw blade
- Assembly tools
- Automatic safety return
- Blade brake
- Legstand
- Power Input:2200 Watts
- Power Output:1820 Watt
- Blade Speed:2800 rpm
- Blade Diameter:350 mm

- Blade Bore:30 mm
- Max. Cutting Speed:53 m/sec
- Max. Ripping Width:N/A mm

54. Flood light

2x50W LED FLOODLIGHT +STAND 2000x295MM 6400K DAYLIGHT



55. Cordless angle grinder

Cordless angle grinder 18V, BL1830B 3.0Ah Li-Ion battery and rapid charger



56. Impact machine

20V Battery operated impact machine



57. Laptop

With a metallic finish, thickness of approx. 14.6 mm and weighing only at approx. 1.33 kg, the MateBook X Pro is a premium, lightweight personal computer that you would not want to miss. It features a 13.9-inch LTPS screen with a resolution of 3000 x 2000 pixels, 4.4-mm narrow bezel and 91% screen-to-body ratio combined with an aspect ratio of 3:2 and 3K display deliver an outstanding user experience.

KEY FEATURES:

CPU: Intel® Core™ i7-1165G7 Processor 12M Cache, up to 4.70 GHz, with IPU

Operating System: Windows 11 Home 64 bit

Memory: 16GB LPDDR4

Storage: 1TB NVMe PCIe SSD

Display: 13.9 inches, 3000 x 2000 pixels (3K, 3:2 Aspect Ratio), 450nits, 10-point multi-touch sensitive screen

with finger gesture screenshot

Graphics: Intel Iris XE Graphics

Wireless: IEEE 802.11a/b/g/n/ac, 2.4 GHz and 5 GHz, 2 x 2 MIMO, WPA / WPA2 / WEP + Bluetooth 5.0

Webcam: Full HD 1MP@60fps with recording indicator under a dedicated key

Audio: 4x Stereo Speakers + 4x Integrated Microphones

Ports: USB-C x 2 (support data, charging and DisplayPort), USB-A 3.0 x 1, 3.5 mm headset and microphone jack

x 1

58. iPad

Spec Summary:

Storage: 64GB

• Width: 250.6 mm

• Height: 174.1 mm

Depth: 7.5 mm

• Weight: 487 grams

Processor: iPadOS 15

Camera: 8MP

Battery: 8557 mAh

• Display: 10.2 inches

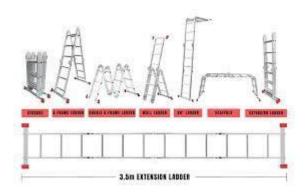
59. 10-ton Hydraulic jack

10-ton Hydraulic jack ,10 Tonne Body repair



60. Ladder

Multipurpose, folding ladder, 3.5m A frame



61. . Portable gas complete

Oxyacetylene portable gas cutter



62. Hand winch

Heavy duty hand winch



63. come along

Heavy duty come along



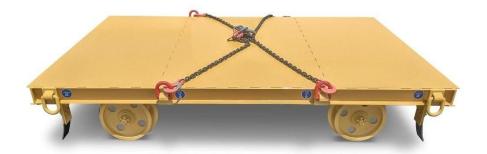
64. Generators

Heavy duty generators (Derailments)



65. Rail mobile cart

Custom made rail mobile cart



66. 1000KPA Power washer

Power source Corded Electric Item weight 11.46 Kilograms

Hose length 6 Meters

Product dimensions 32.9L x 90.1W x 36.9H centimetres Global Trade Identification Number 04054278907154

67. VGA Male- Female

PRODUCT SPECIFICATIONS

Brand Microworld

Item model number ADA014

Item type VGA Male to VGA Female 90 degree Angle Adaptor

Color Black

Bill Of Quantity

NO	DESCRIPTION	UOM		UNIT	TOTAL
1.	3 1/2 Digit Digital Multimeter	ea.	25		
2.	Rigid Back Probe Pins	ea.	25		
3.	Sure Grip Alligator Clips	ea.	25		
4.	USB to Serial (RS232) port converter cable	ea.	25		
5.	RJI CAB IP20/M12 4XAWG 22/7SCHL;1,5m (RJ45 TO M12 CABLE)	ea.	25		
6.	Tool Bag/Carry bag	ea.	25		
7.	RS232 Gender Exchange (Female to Female)	ea.	25		
8.	RJ45 to RJ45 Straight Ethernet Cable	ea.	25		

9.	RJ45 socket to M12 Female adapter	ea.	25	
10.	RS232 cable (Male to Female)	ea.	25	
11.	Digital Endoscope	ea.	25	
12.	Ethernet Adapter	ea.	25	
13.	Oil Draining Canister	ea.	25	
14.	Gurtech Grease gun	ea.	2	
15.	Grease gun fittings.	ea.	5	
16.	DPI 705 Digital pressure gauge	ea.	25	
17.	Fowler Digital inside caliper	ea.	25	
18.	Torque Wrench Set	ea.	2	
19.	Digital Venier – 150mm	ea.	25	
20.	Lazer Distance Meter	ea.	25	
21.	Airflow Meter	ea.	25	
22.	Vacuum Cleaner	ea.	2	
23.	Rechargeable Vacuum Cleaner	ea.	2	
24.	Angled Socket Wrench	ea.	25	
25.	12 Piece ratchet spanner set - combination	ea.	25	
26.	9 Piece Allen key set	ea.	25	
27.	8 Piece tamper proof, Trox screwdriver set	ea.	25	
28.	Padlock	ea.	25	
29.	Wago tool	ea.	25	
30.	6 Piece Screwdriver set	ea.	25	
31.	3 Step Ladder	ea.	5	
32.	1/4" Drive socket set	ea.	25	
33.	VGA Male -female	ea.	25	
34.	Safety harness and double lanyard	ea.	20	

35.	Voltage detector	ea.	5	
36.	Shore supply Kit	ea.	8	
37.	Inclinometer	ea.	5	
38.	Digital spirit level	ea.	25	
39.	Vibration Meter	ea.	2	
40.	Telescopic Inspection Mirror	ea.	25	
41.	Cable and Antenna analyzer	ea.	2	
42.	1/2" Drive socket set	ea.	25	
43.	BATTERY OPERATED CRIMPING KIT KITB1300-C-1)	ea.	2	
44.	Insulation testers	ea.	2	
45.	Internal & External Circlip pliers	ea.	25	
46.	Cordless Impact Drill	ea.	5	
47.	Cable cutters	ea.	2	
48.	Trimming Knife	ea.	25	
49.	Extension cord/cable	ea.	2	
50.	Tennant T2, Scrubber Dryer	ea.	1	
51.	Staple Gun	ea.	2	
52.	Cordless Rivet Gun	ea.	5	
53.	Bench Saw	ea.	1	
54.	Radial Arm Saw	ea.	1	
55.	Flood light	ea.	10	
56.	Cordless angle grinder	ea.	10	

57.	Battery operated impact machine	ea.	10	
58.	Laptop	ea.	20	
59.	iPad	ea.	20	
60.	10 ton Hydraulic jack Kennedy 10 Tonne Body repair	ea.	2	
61.	Multipurpose folding ladder 3.5m A frame	ea.	2	
62.	Oxyacetyle portable gas cutter	ea.	1	
63.	Heavy duty hand winch	ea.	1	
64.	Heavy duty come along	ea.	1	
65.	Heavy duty generators (Derailments)	ea.	1	
66.	Custom made rail mobile cart	ea.	1	
67.	1000KPA Power washer	ea.	2	
68.				
	TOTAL			