

**RT55-2021**

**ANNEXURE E2**

**MEDICAL ORTHOTIST  
AND PROSTHETIST**

**TECHNICAL  
SPECIFICATIONS**

**RT5-A-1 : Work benches (2m)**

**Description**

The large table work surface made up of hardwood, and the fully welded steel fixtures that is used in the MOP industry to support structure and provide years of trouble free service

**Technical Specifications**

Workbench top must be made of strong parqueted red bench wood

Beech wood is a mild odorless, solid density relatively non-porous, strong surface wood

The chassis must made of square steel tubing (40 x 40 x 2 mm)

The drawers must be made of solid wood (1 x 150 x mm high on the left 2 x55 mm high on the right)

Free standing dimensions

The unit must have a shelf with swing door

Dimensions:

work surface height of minimum 850mm

workbench top WxDxH: 2000 x 700 x 50mm

weight of 105 kg

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-2 : Work benches (1.5m)**

**Description**

The large table work surface made up of hardwood, and the fully welded steel fixtures that is used in the MOP industry to support structure and provide years of trouble free service

**Technical Specifications**

Workbench top must be made of strong parqueted red bench wood

Beech wood is a mild odorless, solid density relatively non-porous, strong surface wood

The chassis must made of square steel tubing (40 x 40 x 2 mm)

The drawers must be made of solid wood (1 x 150 x mm high on the left 2 x55 mm high on the right)

Free standing dimensions

The unit must have a shelf with swing door

Dimensions:

work surface height of minimum 850mm

workbench top WxDxH: 1500 x 700 x 50mm

weight of 90 kg

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-3 : Hand sealing iron for welding PVA bags**

**Description**

A device for welding ,PVA AND PVC foils to fabricate sleeves used in the lamination process

**Technical Specifications**

The unit must have a temperature control

The unit must have a heating surface covered with welding tape

The unit must have a removable Teflon pad

The temperature range 100 - 180 °C

The maximum weight of 0.7 kg

Heating surface of 38 x 110 mm

Must be supplied with a stand

Consumables:

teflon welding tape (85 mm wide, 0.08mm thick, 0.011kg/m, 2 meter roll)

teflon sheet

Accessories:

stand

Electrical connection in (V/Hz/kW) 1 x 230 N/PE /50/60/0.2

Minimum of 1.5m connecting cable with three-pin earthed plug

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-4 : Plaster silo**

**Description**

Used for the storage and distribution of POP powder

**Technical Specifications**

The unit must have a cover plate

The unit must have a plaster dosing worm gear

The unit must have 4 swivelling wheels at least 2 castors with brakes

The unit must have a plaster bag ripper

The unit must have a removable grid has opener for bags of plaster

Approximate dimensions upper part (W x D x H) 846 x 1.100 x 1.486 mm

Plaster discharge on front bottom, with plug and hinged cover

Volume range from 150-350L

The material of the unit should be powder coated metal

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-5 : Bench vices**

**Description**

A device used for clamping MOP models

**Technical Specifications**

Features of the unit:

Forged steel surface hardened jaws

Opening to the front

Surface hardened jaws

Adjustable

Hardened guide rail and anvil

Attachment device for jaw protectors

Plastic jaw protectors included

Measurement scale for quickly setting the span width

Round stable forged vice base

The unit should be made of forged steel or equivalent material

Jaw width of 160mm

Jaw opening of 225 mm

Hole spacing of 145mm

Hole Ø: 14mm

Not weight more than 26kg

Mounting bolts included ( ordering department will indicate length needed)

**Accessories:**

vice lift assist with floor column and mounting base

mounting bolts

Optional accessories:

vice jaw protectors: for 160mm jaw

Swivel mount:

made from steel

360° radius

for 160mm vice

all accessories included  
vice lift assist with floor column:  
for freestanding mounting  
gas spring operational  
height adjustable  
rotating mounting plate for vice included  
pre drilled  
attachment materials included  
bottom plate included.  
suitable for workbenches with surface height 830-860mm  
height adjustment range 860-1.000mm  
not weight more than 13kg  
height adjustment option: gas spring only

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT5-A-12 : Oscillator / POP saw**

**Description**

An electrical oscillating cutter used for cutting plastic, lamination, and other materials.

**Technical Specifications**

Heavy duty electrical plaster saw with circular serrated oscillating blade.

Minimum motor power output of 180w

Equipped with speed controller, for pre-selection oscillating frequency

Additional bearing of driving shaft, powerful drive motor

3 m grounded plug.

Not weight more than 1.7kg

12,000 - 21,000 oscillations /min<sup>-1</sup>

Should be suitable to cut various thermoplastic material and lamination work

The unit should be supplied with:

two open end wrenches for changing blades

1 x PTFE coated circular saw blade: Ø 45mm

1 x PTFE coated circular saw blade: Ø 65mm

1 x PTFE coated circular saw blade: Ø 80mm

1 x Diamond toothed circular saw blade: Ø 60mm with 1.2mm thick blade

**Accessories:**

two open end wrenches for changing blades

1 x PTFE coated circular saw blade: Ø 45mm

1 x PTFE coated circular saw blade: Ø 65mm

1 x PTFE coated circular saw blade: Ø 80mm

1 x Diamond toothed circular saw blade: Ø 60mm with 1.2mm thick blade

Power requirements: (V/Hz/kHz) 1 x 230 N/PE/ 50 / 0.18

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list



**RT55-A-45 : Mobile Dust Extractor/Collector Unit**

**Description**

An extraction unit designed to capture, transport and separate dry material such as wood and plastic dust and shavings

**Technical Specifications**

The unit must comply with criteria for the "H2" test mark  $<0,1\text{mg/m}^3$  residual dust

The unit approximate dimensions WxDxH 1085 x 650 x 1995 mm

The unit must have 2 exhaust connection pieces to enable it to connect to 2 machines

Exhaust connection piece to be approximately 120mm

The unit Nominal volume flow must be  $1,120\text{m}^3/\text{h}$

Approximate  $4,3\text{m}^2$  filter surface area

The unit weight must be a maximum of 100kg

Clean air de-duster.

The unit should be supplied with:

filter material should be category C, electrically conductive and washable

disposable dust bag included

a minimum dust collection volume of 135L

lockable castors

pipes

**Accessories:**

filter material should be category C, electrically conductive and washable

disposable dust bag included

a minimum dust collection volume of 135L

lockable replacement castors

pipes

Power requirements V/Hz/kW 400/ 50/ 2.2

Power cord 2m, CEE plug 5x16A

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

**RT55-A-46 : Universal band Saw for Cutting Material**

**Description**

A heavy-duty device used for cutting wood ,plastic and non-ferrous materials

**Technical Specifications**

The unit must be a 3 phase heavy duty device

The unit must have Limit stop switch for prevention of accidents as safety feature

Two speeds

connection nozzle for exhaust (Ø 100mm)

The dust collection/suction system should be compatible with ordering facility

The unit should be a heavy duty enclosed steel construction, especially smooth running, very high performance

The approximate weight (net) 500 kg

Motor with motor protection switch

The band sawing speed 1,410/2,870 min<sup>-1</sup>

The unit dimensions (WxDxH) 1,300 x 760 x 2,350 mm

Space requirements (WxD) 1,800 x2,000 mm

The minimum cutting height of 475 mm

The minimum cutting width of 680 mm

The stop button can be inserted on the right and the left of the saw blade

The saw table:

minimum dimensions for (LxB) 600 x 600 mm

saw table can swivel up to 45° to the right and 15 left

The saw blade:

the saw blade completely protected up to the cutting point and easily accessible through two doors

the saw blade speed 839/1,678 m/min

the saw blade guide should act via three rollers that lie parallel to the saw blade

the minimum saw blade length of 5 050 mm - max, 5 118 mm

the minimum saw blade width of 20 mm - max. 35mm

The unit should include:

band saw blade for wood

band saw blade for plastic material and light metals

must be made manufactured from cast-iron and tilting 15deg to the left and 45deg to the right

#### Accessories:

complete service kit

3x cutting blades per material type (Overall 9 blades)

band saw blade for wood: 8 & 16mm

band saw blade for plastic: 8 & 16mm

Electrical connection in (V/Hz/kw) 3x 400 PE / 50/ 2.6/3.3

The connecting cable should be approximately 2 m with 5 x 16 A CEE plug and 5 x 16 A CEE socket

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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### **RT55-A-47 : Fixed Socket Router Machine (complete)**

#### Description

A fixed machine used for grinding and milling of orthotics and prosthetic materials

#### Technical Specification

The unit must have 5/8" milling shaft thread with adapter from 5/8" to M16 thread adapter 5/8"

The unit must be a 3 phase heavy duty device

The unit must consists of suction hood/extraction shroud with swivelling mounting rods

The dust collection/suction system should be compatible with ordering facility

The unit must have a shaft protector short and long

The unit must have a exhaust nozzle for external suction system

The unit must be fitted with adjustable mount for the extraction shroud and flexible hose with diameter of 125 mm

The tool set for changing the socket router cutters, exhaust arm with clamping lever for positioning , tool holder,

The unit must have a main safety switch

The unit must have a on/off button for router motor gear

The unit must have a emergency stop foot switch

The unit must have a emergency stop button

The unit approximate dimensions (WxDxH) 1,150 x 930 x 1,650 mm

The exhaust nozzle should be approximately 125 mm

A minimum of 300mm electric height adjustment

Variable rotation speed, min. 1 500 RPM

Two speeds and electro magnetic brake.

Router shaft length should be a minimum of 450 mm

Connection to a central chippings extraction system with a minimum air velocity of 20 m/s ( exhaust nozzle diameter 125mm)

The unit should include:

- open end spanner/wrench- 27 mm
- chip/dust extraction shroud - complete
- thread stud - for tools with 5/8" thread
- threaded stud - for tools with M16 thread
- 1 mounting/fastening set
- thread protector nut - 5/8" inside thread
- shaft guard - long, shaft guard short
- floor fastening set

#### Accessories :

- 27 mm wrench
- floor fastening set
- threaded stud
- protective nut
- extraction shroud
- protective shaft housing, long
- protective shaft housing, short

The unit must have an approximately 2m power cord with CEE plug and CEE socket

Electrical connection in (V/Hz/kw) 3x400N/Pe / 50-60 / 1.5

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-48 : Height Adjustable Socket Router Machine (complete)**

**Description**

A adjustable machine used for grinding and milling of orthotics and prosthetic materials

**Technical Specification**

The unit must have 5/8" milling shaft thread with adapter from 5/8" to M16 thread adapter 5/8"

The unit must be a 3 phase heavy duty device

The unit must consists of suction hood/extraction shroud

The unit must have a shaft protector short and long

The unit must have a exhaust nozzle for external suction system

The unit must be fitted with adjustable mount and flexible hose with diameter of 125 mm

The tool set for changing the socket router cutters, exhaust arm with clamping lever for positioning , tool holder,

The unit must have a main safety switch

The unit must have a on/off button for router motor

The unit must have a emergency stop foot switch

The unit must have a emergency stop button

The unit approximate dimensions (WxDxH) 1,150 x 930 x 1,650 mm

The exhaust nozzle should be approximately 125 mm

Electric height adjustment 400 mm

Variable rotation speed, min. 1 500 RPM

Two speeds and electro magnetic brake.

Accent colour should be anthracite grey

Router shaft length should be a minimum of 450 mm

Connection to a central chippings extraction system with a minimum air velocity of 20 m/s ( exhaust nozzle diameter 125mm)

The unit must be supplied with:

open end spanner- 27 mm

chip extraction shroud - complete

thread stud - for tools with 5/8" thread  
threaded stud - for tools with M16 thread  
1 mounting set  
thread protector nut - 5/8" inside thread  
shaft guard - long, shaft guard long

**Accessories :**

27 mm wrench  
floor fastening set  
threaded stud  
protective nut  
extraction shroud  
protective shaft housing, long  
protective shaft housing, short

The unit must have a approximately 3m power cord with CEE plug and CEE socket  
Electrical connection in (V/Hz/kw) 1x 230/ 50-60/ 2.2

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-49 : Normal Socket Router Machine**

**Description**

A machine used for grinding and milling of orthotics and prosthetic materials

**Technical Specification**

For connection to a central chD57:D87ipping/suction exhaust system

Min air velocity of 20 m/s and negative pressure of 703 Pa

Exhaust connection pieceØ125mm

Two adjustable speeds

Electro-magnetic brake

Extraction shroud with swivelling mount and flexible hose

Removable protective shaft housings, long and short lengths

Height between 1.350 - 1.500mm

Shaft length not less than 450mm

Not weight more than 250kg

**Accessories:**

27mm spanner/wrench

floor fastening set

threaded stud 5/8

protective nut

extraction shroud/ suction hood

all the swivelling mounts

flexible hoses

a short and long protective shaft housing

Electrical requirements:

CEE plug and socket 5 x 16 A

power cord not less than 2 m

emergency power off foot switch

2 speed selection switch

motor protection switch

V/Hz/kW - 3 x 400 N/PE /50-60/ 1.5

1.500/3.000 RPM min<sup>-1</sup>

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-51 : Floor model drill press (complete)-3 phase**

**Description**

A stand-alone heavy-duty drill press used for drilling holes

**Technical Specifications**

The unit must operate from 3 phase power

The unit must have variable speed

The unit must have a minimum usable bench area 340 x 280 mm

The unit must have a bench height-adjustable via toothed rack

The unit must have a drilling depth stop adjustable by means of an adjustable stop ring

The unit must have a motor protection switch with under-voltage release

The unit must have a emergency OFF switch

The unit must have a manual selector switch for clockwise/counter-clockwise rotation

The unit must have a illumination with two incandescent bulbs

The unit must be able to fit drill bits from 1mm

The chuck must be able to tighten by hand

Continuous/Normal drilling performance of 18/23mm

MK2 Spindle

Drilling depth of approximately 100 mm

Working radius of approximately 240 mm

Column diameter of approximately 82 mm

Distance from spindle to table should be between 160 - 880 mm

Spindle speed 250 - 4000 RPM



**Accessories:**

chuck

morse taper

1 set Drill bits

Electrical connection in (V/Hz/kw) 3 x 411 N/PE / 50 / 0.8

Connecting cable should be 2 m with 5 x 16 A CEE plug and 5 x 16 A CEE socket

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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**RT55-A-59 : Flat-Bed Belt Sander**

**Description**

A device used for accurate sanding of correct angles at a flat surface for wood and other porous material.

**Technical Specifications**

The unit must be floor mountable

Two belt tensioning arms with closed protective hoods

Two rubber drums Ø 250mm

Two sanding belts Ø 88mm

Exhaust/suction connector studs

The unit must have a adjustable length (supplier to state the range of adjustments)

Approximate dimensions (WxDxH) 890 x 450 x 2005 mm

Approximate Belt width 300 mm

Approx. Belt length 2500 mm

Speed 3000 miñ¹

**Accessories:**

2x Sanding grid (60 and 80)

Power requirements (V/Hz/kW) 3 x400 PE /50 / 2.5

2.5m power cord with CEE plug 5 x 16A and CEE socket 5 x 16A

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

\_\_\_\_\_END\_\_\_\_\_