



# NOVUS GROUP MEDICAL

## PRODUCT CATALOGUE

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NOVUS\_MACHINE

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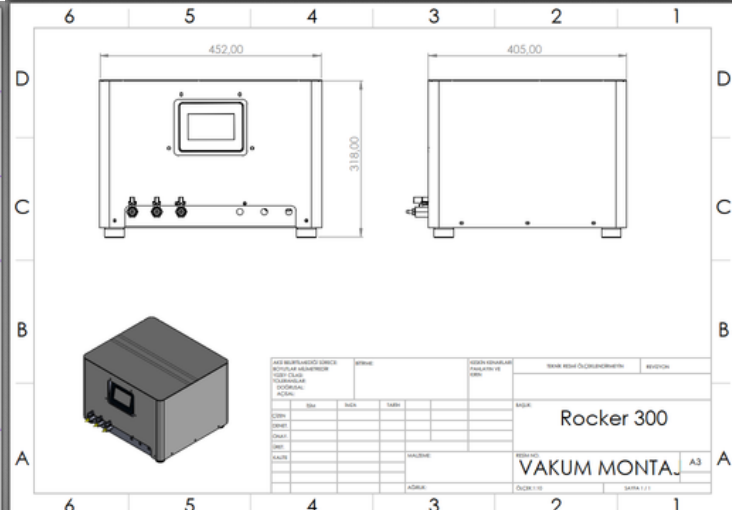
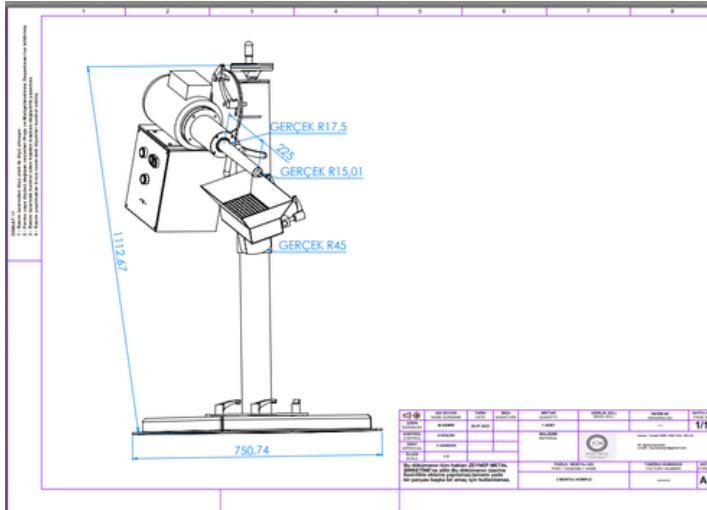
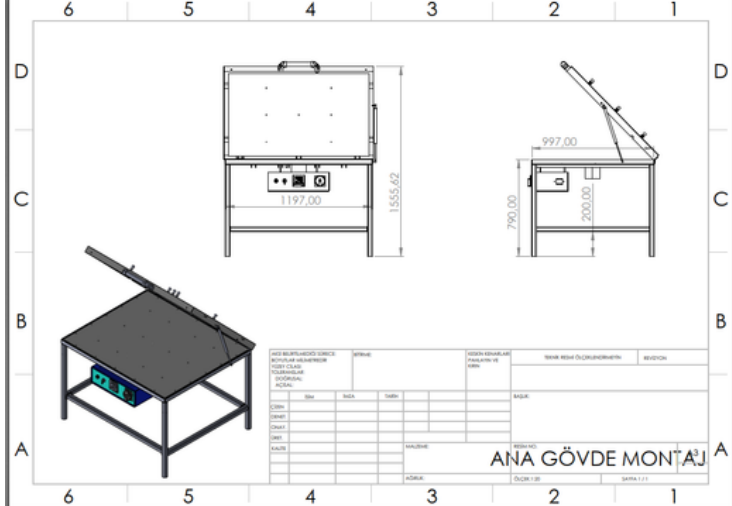
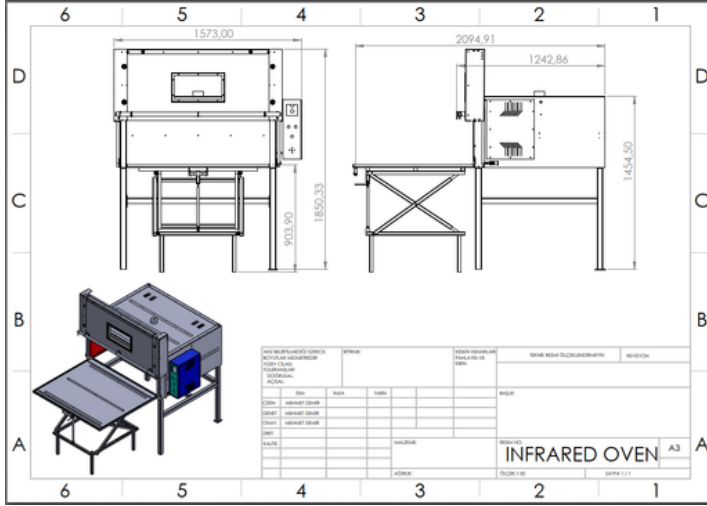
IVEDIK ORGANIZED INDUSTRIAL ZONE,  
YENIMAHALLE, ANKARA



## ABOUT NOVUS GROUP MEDICAL

After 16 years knowledge in manufacturing Laboratory test equipment, in 2022 we have decided to start manufacturing equipment health sector with our design, technician and sales team to provide services for the production and applications of high quality artificial limbs (prosthesis) for the disabled, who are needed in the health services sector, and for the disabled people with loss of function in the limb.

For us, quality of life is closely linked to personal freedom and independence. That's why we help people maintain or regain their freedom of movement. Whether through a prosthesis or an orthosis, our focus is always on finding the best solution for our users.



# INFRARED OVEN NM-M.9000

6 infrared quartz tubes equipped with single reflector ensure the uniform heating of thermoplastic material. The temperature range can be adjusted from 30 degrees to 250 degrees.



This facilitates help easy shaping and bending around the edges and lower contours of the material. An opto-electronic sensor continuously monitors surface temperature to prevent overheating. Equipped with a vertical lift sliding door for efficient access.

Precise temperature control is achieved through a PID controller.

The platform moves smoothly up and down with a shock absorber.

Heating surfaces are coated with air-permeable Teflon for enhanced thermal performance and durability.

|                         |                                                                                  |
|-------------------------|----------------------------------------------------------------------------------|
| Screen                  | Digital adjustable screen with Programmable timer function                       |
| Operation Range         | 30-250 °C                                                                        |
| Heating                 | 6 infrared quartz tubes (6x1000W)                                                |
| Heating table Surface   | Air-permeable Teflon                                                             |
| Thermostat              | Analogue                                                                         |
| Security                | Door switch mechanism. (stops heating when door is open)                         |
| Interior lighting       | 2 pcs 35 W illuminants                                                           |
| Temperature Measurement | Opto-electronic IR-measuring head for measuring the material surface temperature |
| Inner Surfaces          | Stainless steel housing front and interior                                       |
| Outer body              | Electrostatic powder paint                                                       |
| Observation windows     | 400x200 mm                                                                       |
| Dimensions Unpacked     | 1600x1200x1600 mm                                                                |
| Dim. Door open          | 1600x2100x2300 mm                                                                |
| Heating Table Dim.      | 1200x1050 mm                                                                     |
| Weight (approx.)        | 300 kg                                                                           |
| Power                   | 220 V Single ph.- 380 V, 50-60 Hz. 3ph. (6070 VA)                                |

# PRESS OVEN NM-M.6000



## Features

- Press Oven for Prosthetic and Orthotic Uses
- Digital screen control panel
- PID regulation
- Heating system capable of reaching 250 degrees.
- 0.25 mm air-permeable Teflon heating surface



TIME ALERT  
INDICATOR

HEATING  
CONTROL  
BUTTON

CONTROL  
DISPLAY

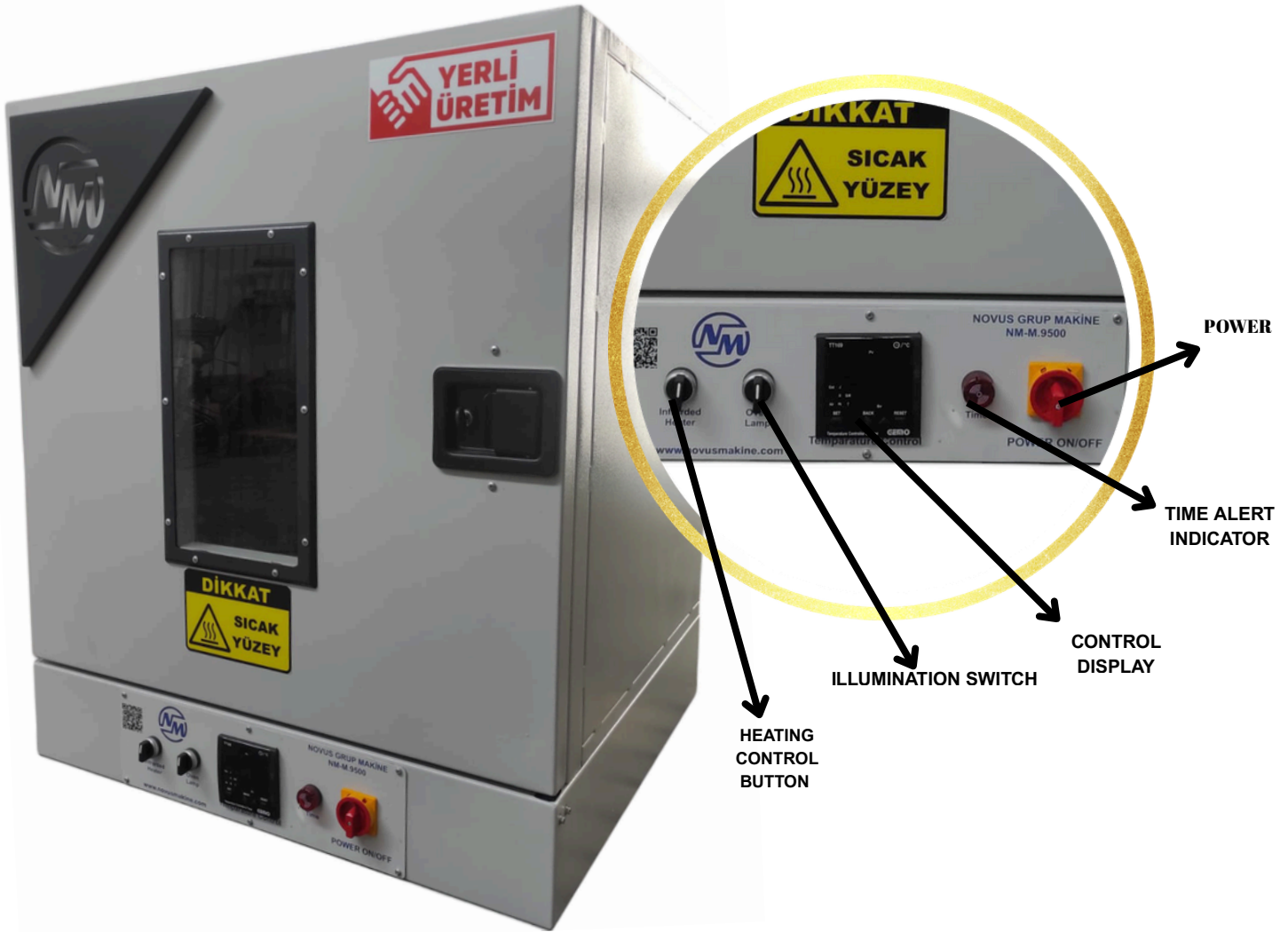
POWER

THICKNESS  
ADJUSTMENT

### Technical Specifications

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| Screen                 | Digital adjustable screen with Programmable timer function |
| Operation Range        | Room Temperature to 250 °C                                 |
| Heating resistances    | 4 x 1500W total : 6000W                                    |
| Heating table surfaces | Air-permable Teflon both on lower and upper table          |
| Thermostat             | Analogue                                                   |
| Temperature sensor     | K-type sensor                                              |
| Outer body             | Electrostatic powder paint                                 |
| Heating area           | 1180x980 mm                                                |
| Dimensions             | 1230x1020x900 mm                                           |
| Weight (approx.)       | 110 kg                                                     |
| Power                  | 220 -380 V 50-60 Hz. 721 amph.                             |

## CABINET OVEN



|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Inner Chamber         | Stainless steel housing front and interior                            |
| Body                  | Electrostatic powder paint                                            |
| Observation window    | 400x200 mm                                                            |
| Inner chamber area    | 700x600x700 mm (295 liter)                                            |
| Heating resistances   | 1000 x 4 = 4000 Watt                                                  |
| Inner Lights          | 2 x 35 Watt                                                           |
| Sound intensity level | 84 dB                                                                 |
| Power                 | 220 Volts, 50-60 Hz                                                   |
|                       | When the process finishes device gives voice alarm and red lamb alarm |

## WATER BATH

The water baths offer superior temperature accuracy and distribution relative to other devices in this category, featuring programmable microprocessor control systems and triple-layer insulation concealed beneath their unassuming exterior design.

### Technical Specifications

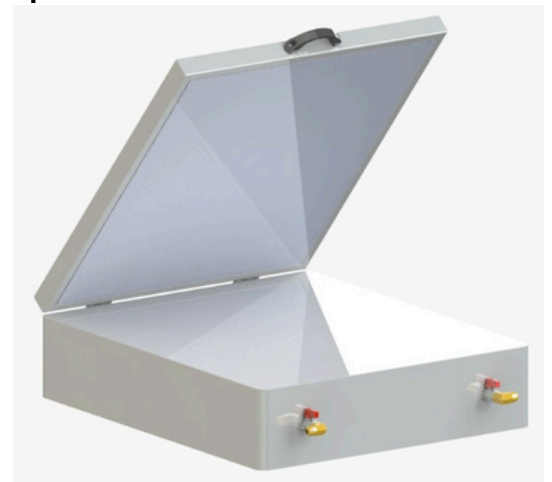
|                   |                                            |
|-------------------|--------------------------------------------|
| Capacity          | 6 liters, 12 liters, 30 liters             |
| Temperature range | Room temp, to 100 °C ±5%                   |
| Inner dimensions  | 200x240x140 – 290x600x340 – 260x800x410 mm |



## VACUUM PRESSURE NM-M-1900

Vacuum-press for manufacturing of soles and foot-orthotics. In sole production, it is produced individually. It is used with low vacuum. vacuum starts manually, discharging is done manually at the end of the process.

|                    |                                                                      |
|--------------------|----------------------------------------------------------------------|
| Dimensions (WxDxH) | 620 x 680 x 140 mm                                                   |
| Capacity           | 3 m3 /200 mbar                                                       |
| Vacuum             | Vacuum On                                                            |
| Vacuum             | Vacuum off                                                           |
| Material           | Sheet Metal electrostatic powder painted –<br>2 mm Silicone Membrane |
| Accessories        | 1 Pcs Hose 4 mt                                                      |



## SILICON ROLLING MACHINE

### NM-M8500

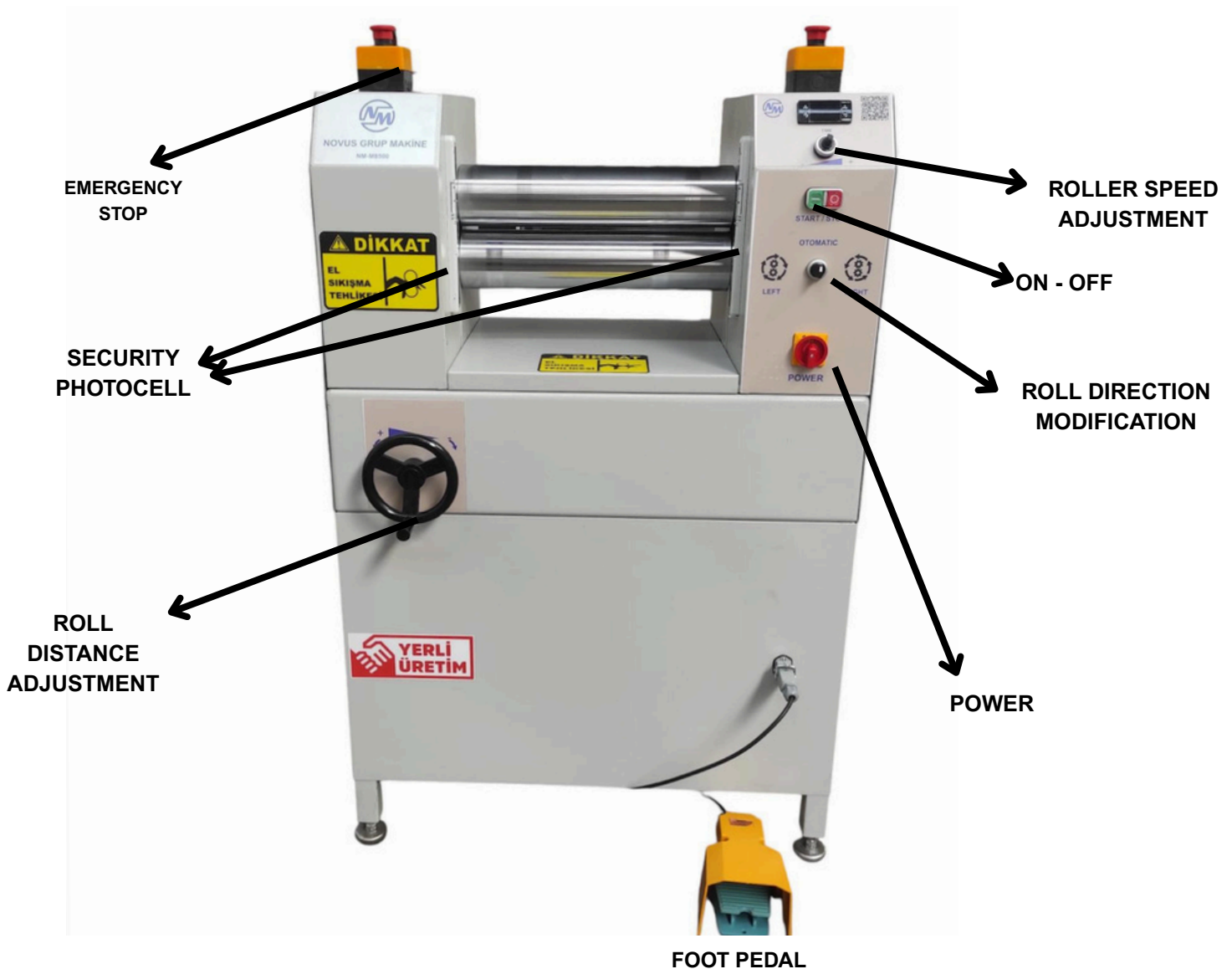
- Cylinder Ø200 x 750 mm
- Cylinder clearance 0 to 20 mm
- Touchscreen control display
- Cylinder clearance regulation via digital display
- Digital display management of cylinder reverse and forward rotation
- Digital display for cylinder rotation speed adjustment.
- Selection of cylinder rotation number via digital display
- Foot pedal cylinder rotational control
- Two emergency stop buttons for safety precautions.
- Safety photocell



# SILICONE ROLLING DEVICE

## NM-M8550

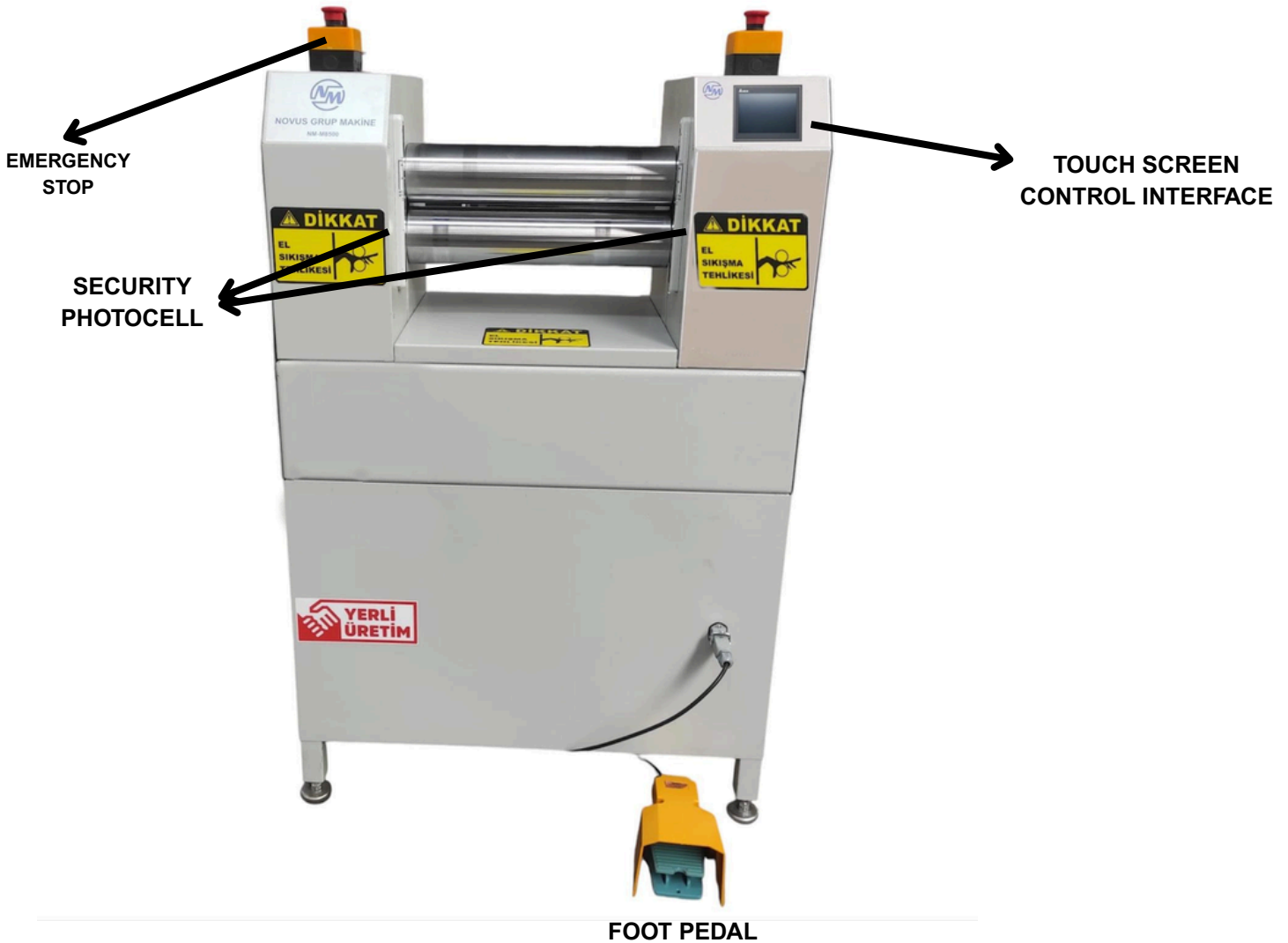
- Cylinder Ø200 x 750 mm
- Cylinder clearance 0 to 20 mm
- Manual adjustment of cylinder clearance
- Cylinder rotation control for reverse and forward motion
- The rotation speed of the cylinder is adjustable via a potentiometer.
- Footswitch
- Cylinder rotation management
- Two emergency stop buttons for safety precautions.
- Safety photocell



# SILICONE ROLLING MACHINE

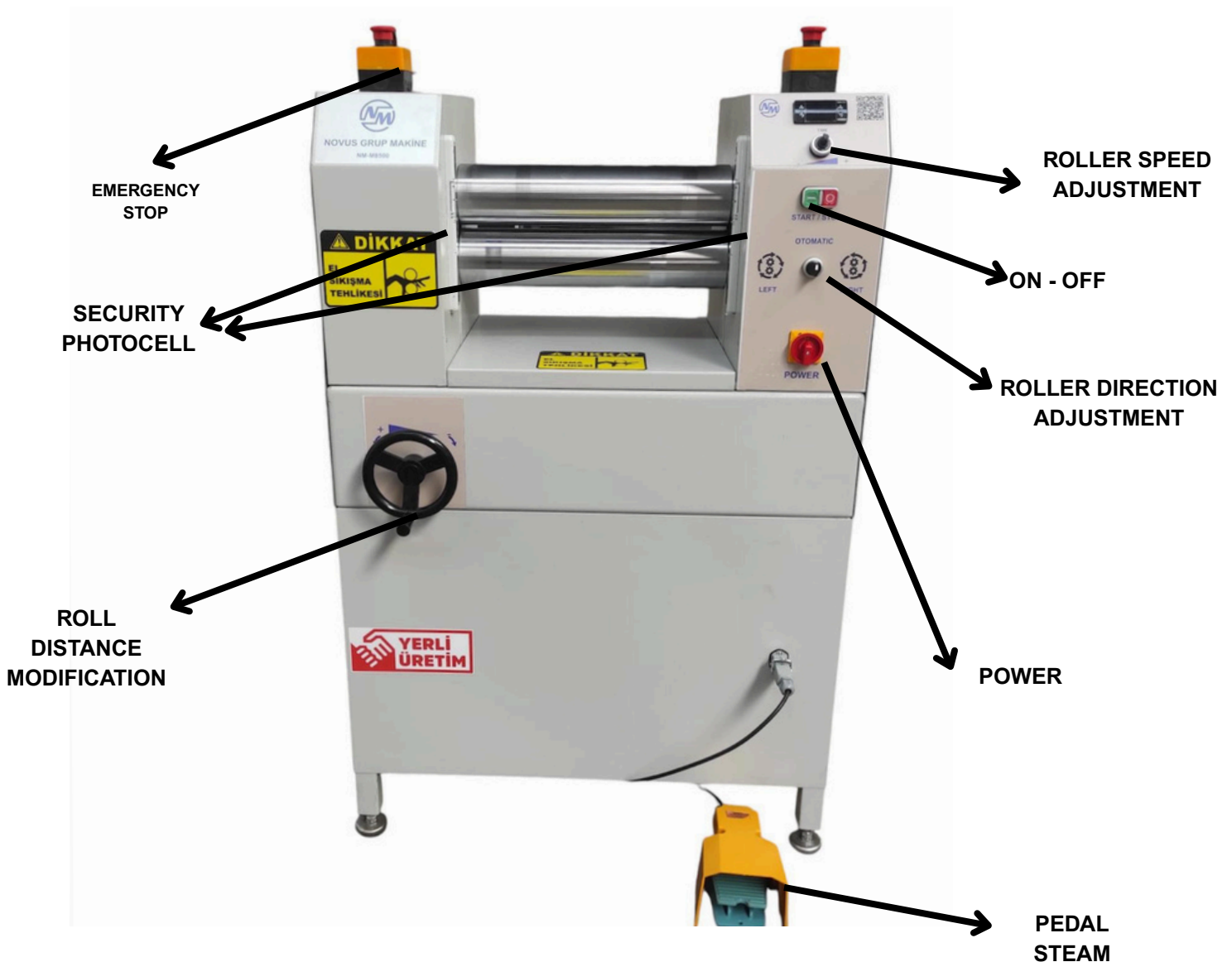
## NM-M8650

- Cylinder Ø100 x 450 mm
- Cylinder clearance 0 to 20 mm
- Touchscreen control
- Cylinder clearance regulation via digital display
- Digital display management of cylinder reverse and forward rotation
- Digital display for cylinder rotation speed adjustment.
- Selection of cylinder rotation number via digital display
- Foot pedal cylinder rotational control
- Two emergency stop buttons for safety precautions.
- Safety photocell



## SILICONE ROLLING MACHINE NM-M8700

- Cylinder Ø100 x 450 mm
- Cylinder clearance 0 to 20 mm
- Manual adjustment of cylinder clearance
- Cylinder rotation control for reverse and forward motion
- The rotation speed of the cylinder is adjustable via a potentiometer.
- Foot pedal cylinder rotational control
- A minimum of two emergency stop buttons for safety considerations.
- Safety photocell

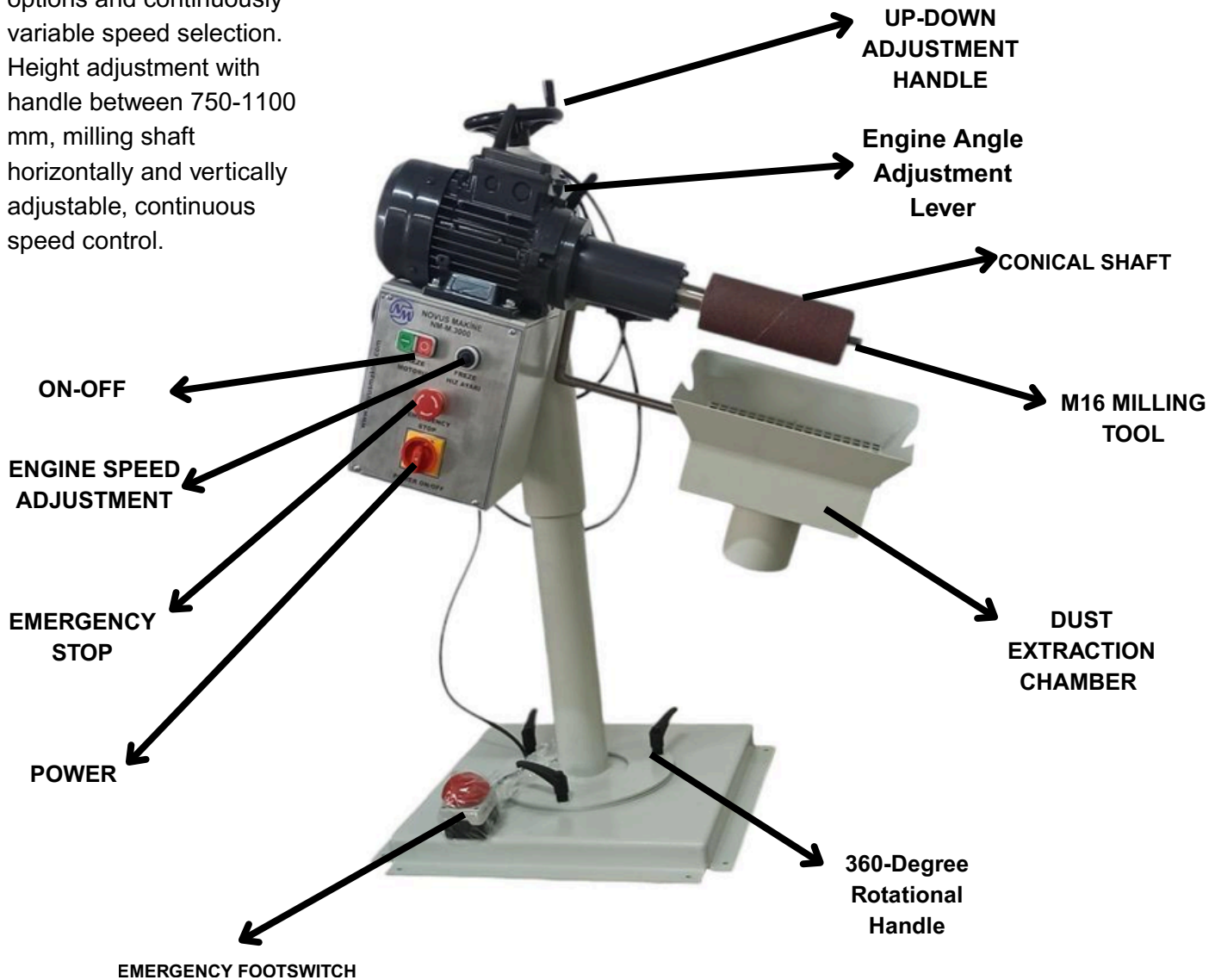


## MILLING EQUIPMENT

### SOCKET ROUTER

#### NM-M.3000

It is characterised by a variety of ergonomic setting options and continuously variable speed selection. Height adjustment with handle between 750-1100 mm, milling shaft horizontally and vertically adjustable, continuous speed control.

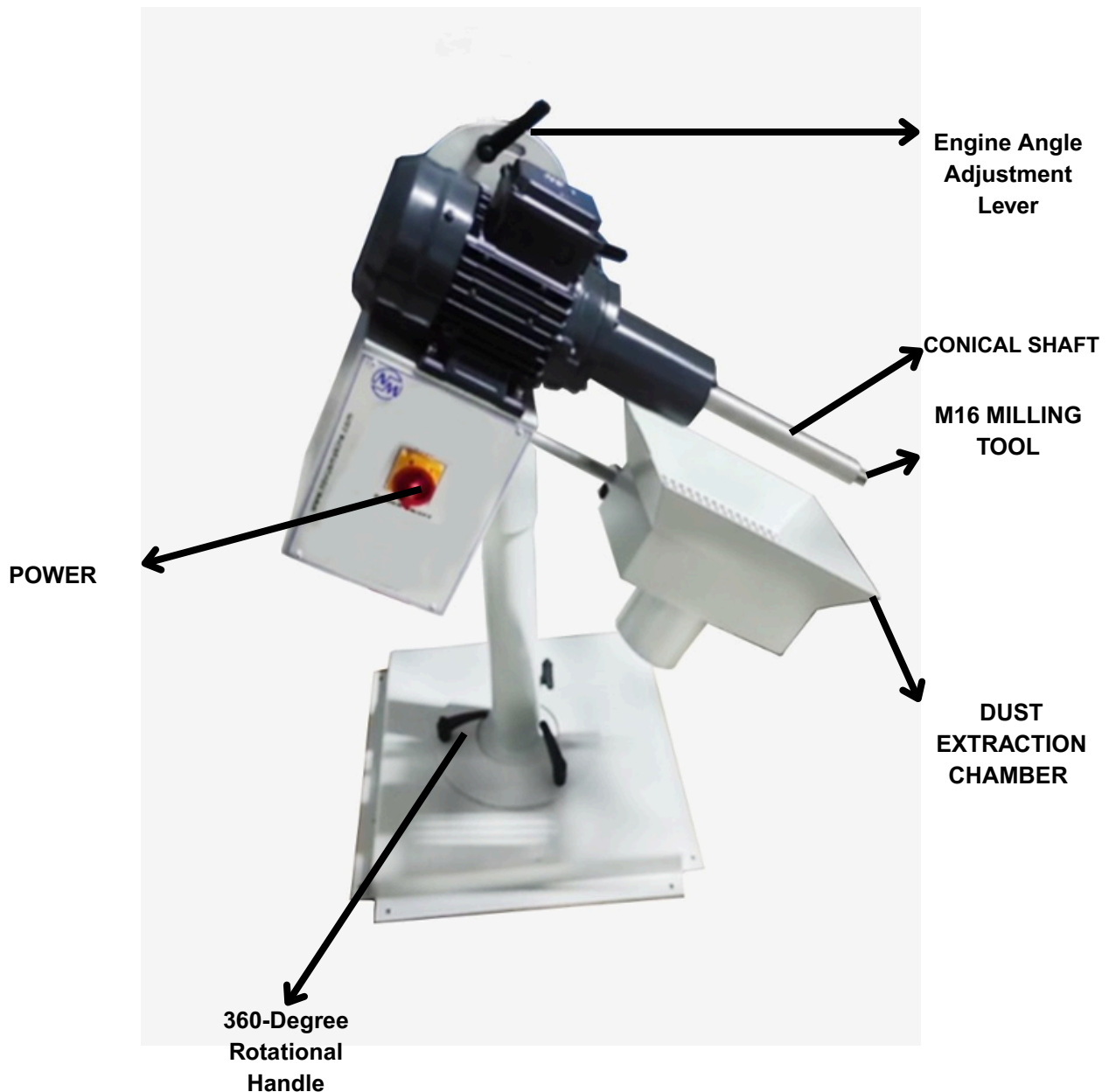


#### Product Data

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Rotation speed range        | Variable rotation speed, max. 3,600 rpm |
| Motor angle adjustment      | adjustable up to 45°                    |
| Dust Extraction Outlet      | Ø90 mm                                  |
| Router shaft length         | 35 x 30 x 225 mm (conical)              |
| Milling Tool                | M16                                     |
| Option of height adjustment | 350 mm                                  |
| Sound intensity level       | 84 dB                                   |
| Power                       | 220 Volts, 50-60 Hz                     |
| Working space required      | 1500 x 1500 mm                          |
| Size (W x D x H)            | 800 x 1300 x 1100-1450 mm               |

## SOCKET ROUTER NMM.3100

- Noise: 84 dB
- Power: 220 Volts, 50-60 Hz
- Engine: 3600 rpm (constant speed)
- Shaft Length: 30 x 35 x 225 mm
- Motor angle adjustment: adjustable up to 45°.
- The foot is fixed, with no adjustments available for up or down movement.
- Dust Extraction Outlet: Ø90 mm
- Milling Tool: M16



## **TABLETOP SOCKET ROUTER NM-M3500**

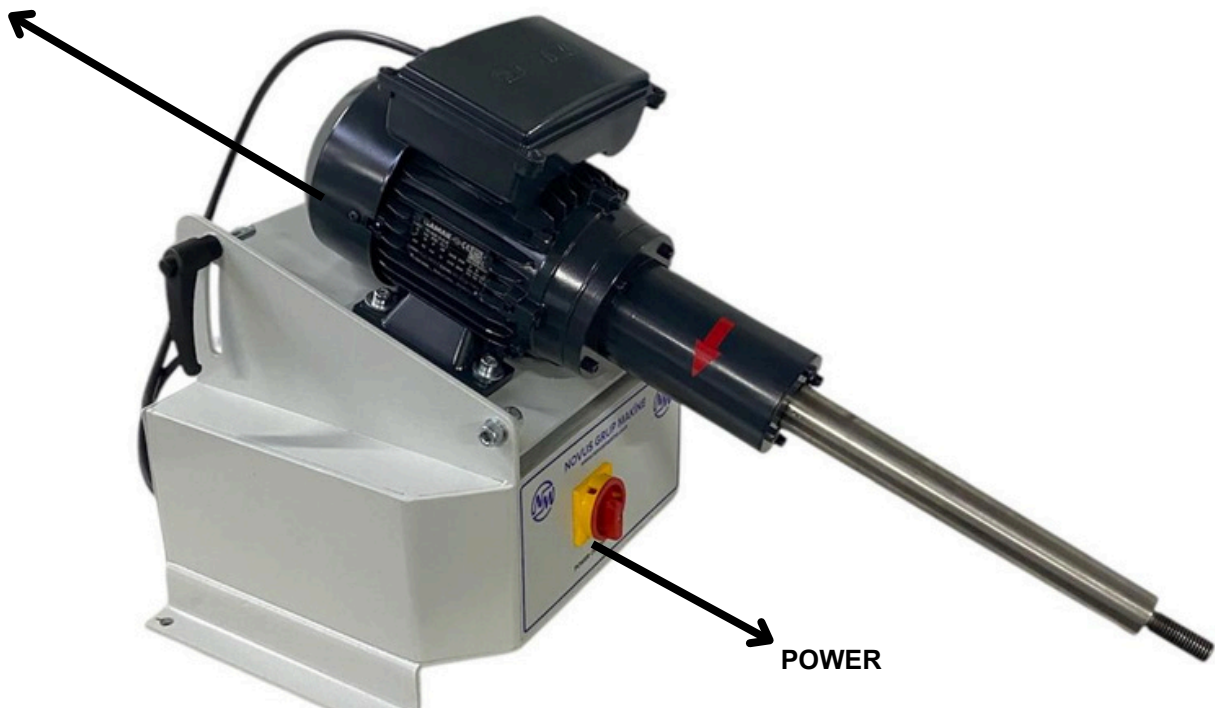
- Noise: 84 dB
- Power: 220 Volts, 50-60 Hz
- Engine: 0 to 3600 rpm (Variable)
- Shaft Length: 30 x 35 x 225 mm
- Potentiometric control of motor speed
- Motor angle adjustment: adjustable up to 45°
- Milling Tool: M16
- Emergency footswitch



## TABLETOP SOCKET ROUTER NM-M3600

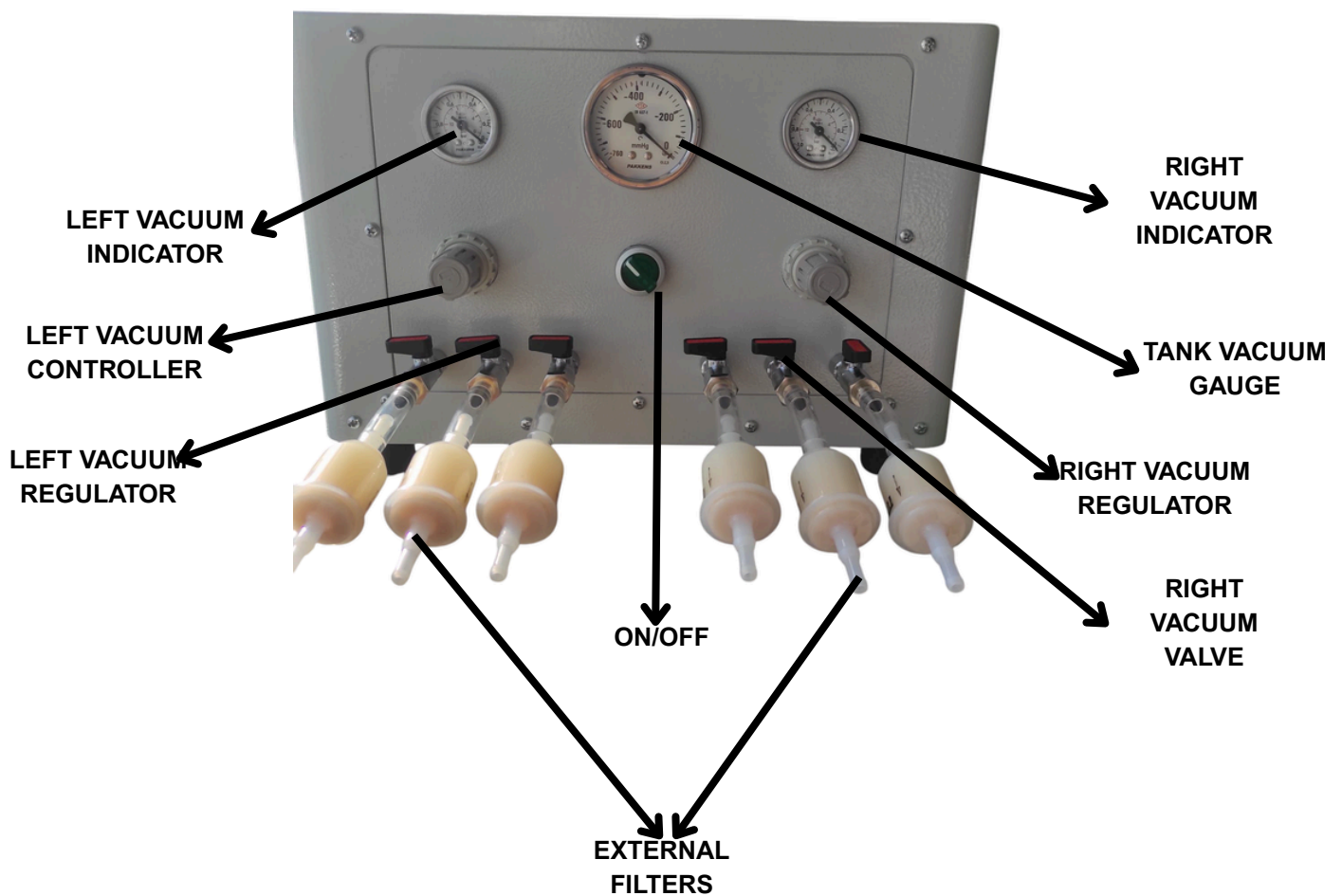
- Noise: 84 dB
- Power: 220 Volts, 50-60 Hz
- Engine: 3600 rpm (constant speed)
- Shaft Length: 30 x 35 x 225 mm
- Motor angle adjustment: adjustable up to 45°.
- Milling Tool: M16

ENGINE  
ANGLE  
ADJUSTMENT



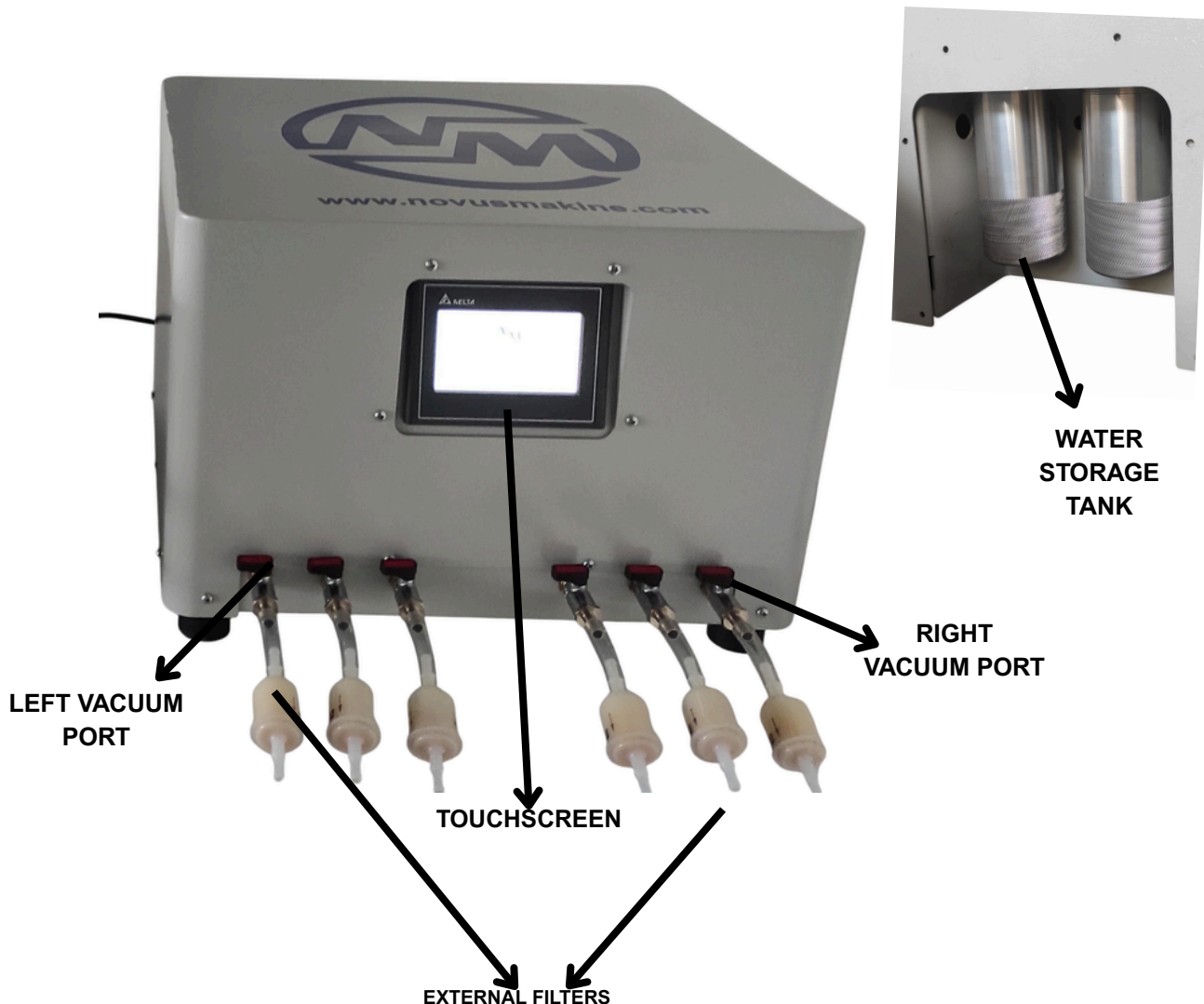
## Manual Lamination Vacuum Apparatus

- Vacuum Range: 0 to 650 mmHg
- Noise: 60 dB
- Power: 220 Volts, 50-60 Hz
- Vacuum Setting: 90 mbar (=78%)
- Vacuum Power: 59 L/min
- Two vacuum circuits controlled independently.
- 6 vacuum ports
- Six ball valves for vacuum regulation.
- Adjustable vacuum cleaner
- 6 external filters



## Automatic Lamination Vacuum Apparatus (NM-M.2000)

- Pressure Range: 0 to 650 mmHg
- Noise: 60 dB
- Power: 220 Volts, 50-60 Hz
- Pressure Setting: 90 mbar (=78%)
- Suction Power: 59 L/min V/Hz/kW
- Electrical connection: 1 x 230 V / PE / 50 Hz / 0.11 A
- Touchscreen
- 4.3" Screen with two independently controlled vacuum circuits
- 6 vacuum outlets, 6 ball valves for vacuum regulation.
- Adjustable vacuum operation duration
- 2 external water reservoirs
- 6 external filters
- Alert with notification when the water tank reaches capacity.



## **MEASURING INSTRUMENT NM-M.5000**

It facilitates straight forward measurement of the machined component at the workbench.



### **Measuring Stand**

- Measuring Range: 250 to 1150 mm
- Stabilization during assessment
- Ring Dimensions: 103 mm - 113 mm - 126 mm - 135 mm
- Adjustable legs
- The measuring ring angle is constructed from stainless steel.
- The ring is composed of natural plastic.
- The table is constructed from wooden material.

## DUST COLLECTION CHAMBER

AS Type Cyclone dust collector filters can be manufactured with a backward-curved sparse wing fan, supply cover, filter, and air lock reducer if required. Under the strong negative pressure generated by the turbine fan, when the contaminated air enters the air inlet, it first encounters the turbulence generator positioned between the air inlet. This turbulence generator disrupts the incoming airflow and reduces the flow rate. Due to gravity, larger dust particles fall directly into the dust inlet, facilitating preliminary dust removal. Once the fine-grained and low-density dust particles enter the dust filter chamber, the dust in the air adheres to the surface of the filter element, while the filtered clean air is directed into the air chamber and collected at the outlet through the exhaust pipe and fan.

### Areas Utilized:

**Powder coating facilities gather sawdust, sandpaper, and paint dust within their chambers.**



### Technical Specifications

|                    |                                                 |
|--------------------|-------------------------------------------------|
| Dimensions (WxDxH) | 400 x 600 x 800 mm                              |
| Flow               | 1300m <sup>3</sup> /h                           |
| Engine Power       | 0.55 kw, 3000 rpm                               |
| Suction Speed      | 24 m/sn                                         |
| Suction Diameter   | Ø100 mm                                         |
| Porosity           | 5 micrometer                                    |
| Filter Size        | Ø400 x 500 mm                                   |
| Filter Quantity    | 1 pcs                                           |
| Noise Level        | 90-95 dB                                        |
| Power              | 220-380 V 50-60 hz(please mention during order) |
| Weight             | 35 kg                                           |

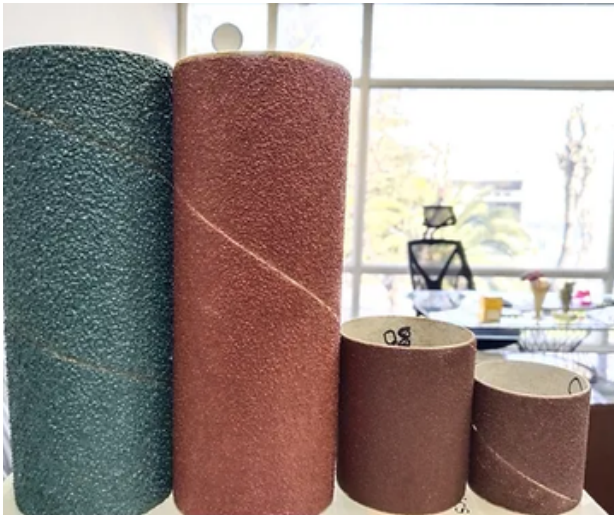
## **ELECTROMECHANICAL TENSILE AND COMPRESSION TESTING DEVICE**

Fully automatic Novus Laboratory Testing Machines, with capacities ranging from 1 kN to 300 kN, are versatile electromechanical universal testing devices tailored to fulfill the requirements of R&D laboratories, university laboratories, institute laboratories, and quality control laboratories. These machines are capable of conducting load or displacement-controlled tensile, compression, and bending tests on a diverse array of materials. Electromechanical universal testing machines can execute tensile tests on various substances, including metal, plastic, textile, and wood, provided that the appropriate accessories are utilized. In addition to tensile testing, these devices are also equipped to perform compression and bending tests on materials such as steel, soil, concrete, cement, and asphalt, again with the use of suitable accessories.



## ELASTIC FOAM

Diameter 30 - 35 conical rubber foam

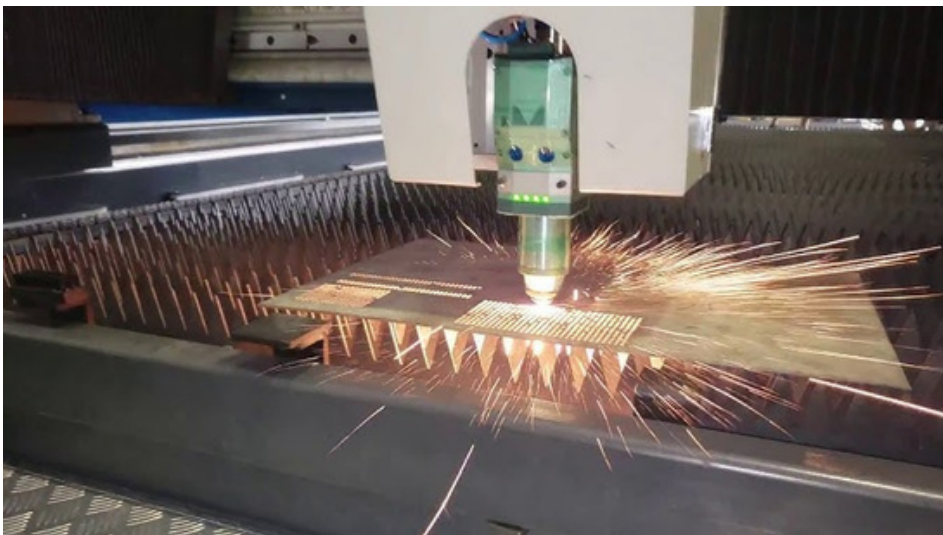
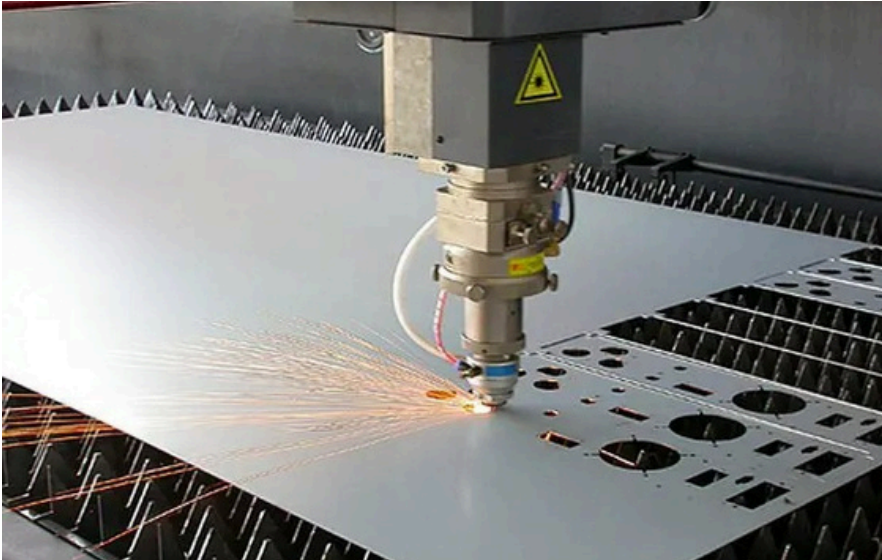


## PERISHABLE GOODS

## MILLING TOOLS

M16      Milling  
Cutters





## DIGITAL WATER BATH

### Product code

**NT-D3000** 30 Liter capacity digital water bath

### GENERAL PROPERTIES

Water baths are used in various material experiments. The fully insulated digital water baths is completely made of 304 quality stainless steel inner chamber and exterior body. They are supplied with a circulation pump and lid.

Operating temperature: Ambient temperature to 90°C

Temperature range: 40°C ± 1°C

| Product Code    | Inner Dimensions | Outer Dimensions |
|-----------------|------------------|------------------|
| <b>NT-D3005</b> | 325x530x200 mm   | 402x630x600 mm   |





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