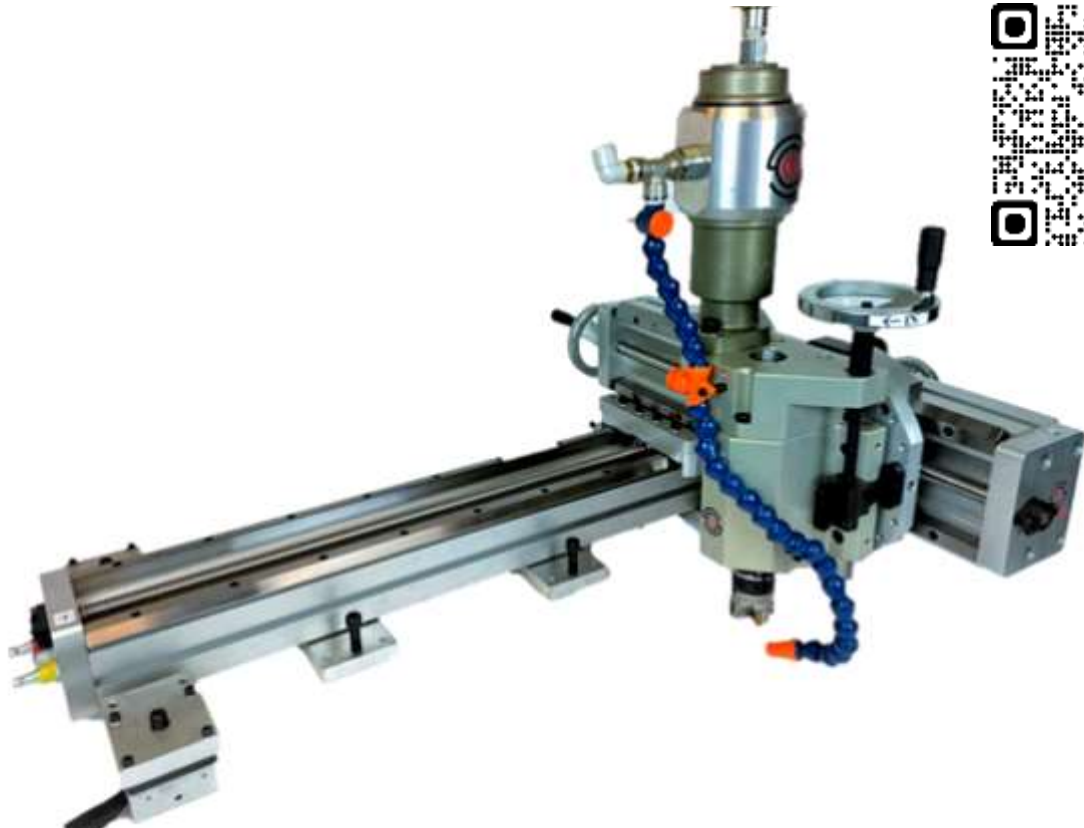


3-Axis LW Portable Milling Machine PLM3



- ⊗ Easily portable
- ⊗ Quick to assemble and dismantle on-site
- ⊗ Cold work - no sparking
- ⊗ Durable guide rails – no moving parts
- ⊗ Air cooling for mill cutter.
- ⊗ Comfortable and safe control system
- ⊗ Flexible mounting options

The Milling Machine has a light weight aluminium construction and it is equipped with high quality linear guideways and ball screws.

It is equipped with high quality air motors that power the machine reliably. The spindle can be quickly tilted +/-45 degrees. X-axis feed motor is protected from damage inside the frame, reducing the risk from damage.

Normaco Light Milling Machine PLM3 is a portable and pneumatically powered 3-axis milling machine.

It has been especially developed for applications where the extremely light weight of the machine is critical. For example for work in areas where the equipment must be carried by hand or rope access work.

The Portable Milling Machine is easily separated into portable sized parts that can be easily carried to the job site. Dismantling and re-assembly takes only few minutes.

The Portable Milling Machine is mounted directly to the work piece by bolting, welding or using a magnet base. It can also be secured with vacuum pads that allow the mounting to an non-ferrous material and without damaging the mounting area.

Pneumatic motor and low milling cutter speed make it possible to use the portable milling machine in areas where cold work is a requirement.

3-Axis LW Portable Milling Machine PLM3

Exhaust air flow direction adjustable away from the operator.

Powerful and reliable pneumatic motors.

Air cooling system for tool.

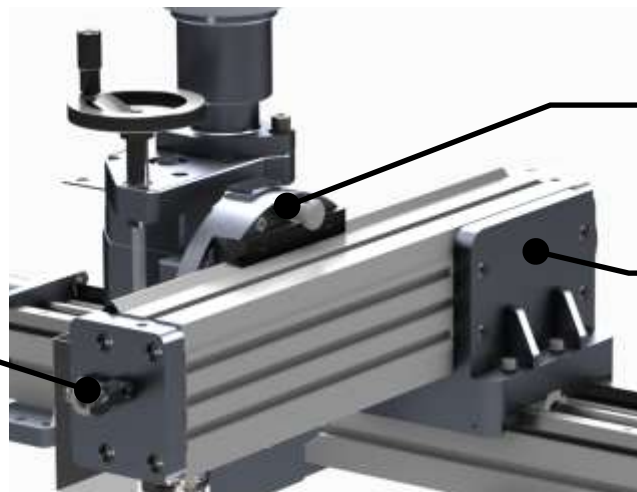
BT30 spindle accepts standard tooling.



Each axis features a locking system for increased stability.

Spindle tilts +/- 45 degrees.

Y-axis can be easily rotated from one side to the other.



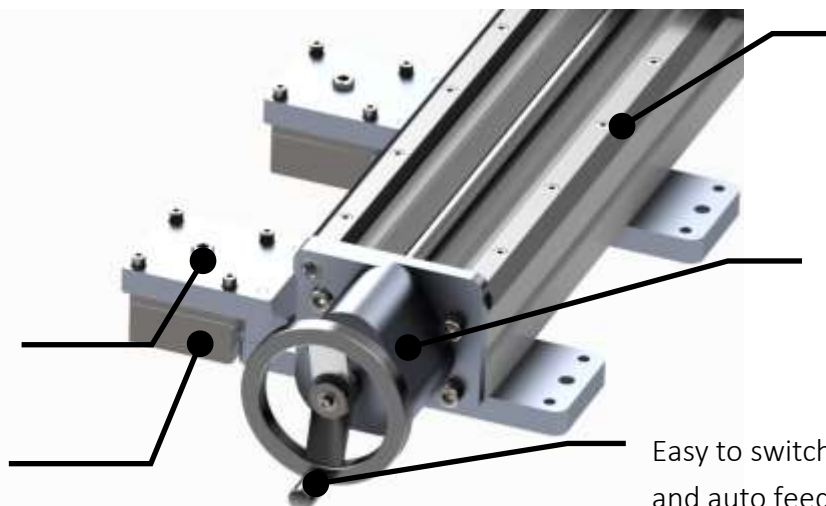
Easy levelling system.

Rigid guide rails, without moving components.

Feed motor protected in side the frame

Light & compact magnet clamping.

Easy to switch between manual and auto feed.



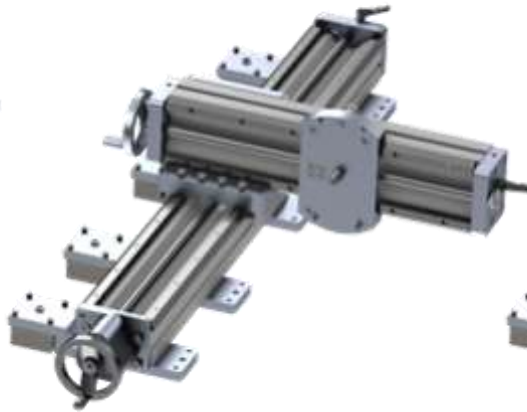
Easy and fast assembly in 3 steps

1.



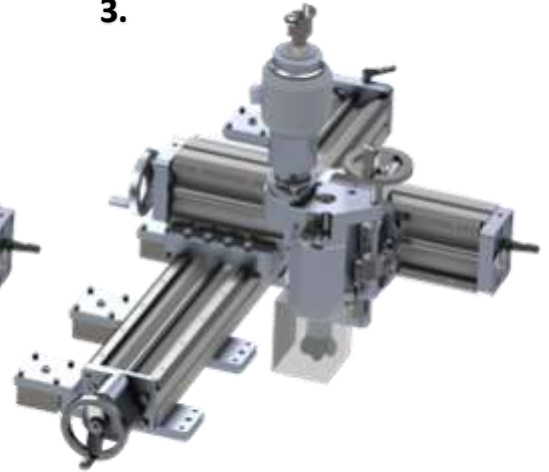
X-axis is placed on the work-piece with mounting plates.

2.



Y-axis is mounted on to the X-axis.

3.



Z-axis is mounted on to the Y-axis.

Control Unit

The control unit is used to control the Portable Milling machine air motors. It features spindle start/stop function, and directional control for the X-axis feeding as well as speed control for the X-axis.

The control unit makes it comfortable and safe to use the milling machine.

The unit provides safety functionality such as prevention of accidental start-up and emergency stop to, keeping the operator safe.

Air filter/lubricator such as [Normaco Air Treatment set](#) Must be used with the control unit to provide clean air supply and lubrication for the components and motors.



| Technical Data | |
|----------------|--------------------------------|
| Dimensions | 360 x 480 x 172mm |
| Weight | 12 kg |
| Functions | Spindle start/stop |
| | Feed control X+ / X- / stop |
| | Feed speed control |
| | Manometer |
| | Accidental start-up prevention |
| | Emergency stop |

The PLM3 offers versatile clamping options to suit various applications. The standard configuration includes a bolted or welded base, ensuring a secure and rigid setup. For added flexibility, optional magnet bases provide quick mounting on ferrous surfaces, while vacuum bases are ideal for flat, non-magnetic surfaces, offering a clean and non-invasive clamping solution. These options make the machine adaptable to a wide range of environments and materials.



| Clamping | |
|-----------|------------------------------------|
| Standard: | - Welded or bolted base |
| Options: | - Magnet base - Vacuum clamping |



Drive Options

The 3-Axis Milling Machine can be configured with various spindle motor options to meet specific application requirements:

Air Motors:

- **Straight Drive (Standard):** Equipped with a 3 kW air motor, this is the default drive option, providing reliable performance for most applications.
- **Right-Angle Drive:** Featuring a 2.5 kW air motor, this option is adjustable to multiple orientations, making it ideal for operations in confined or restricted spaces.

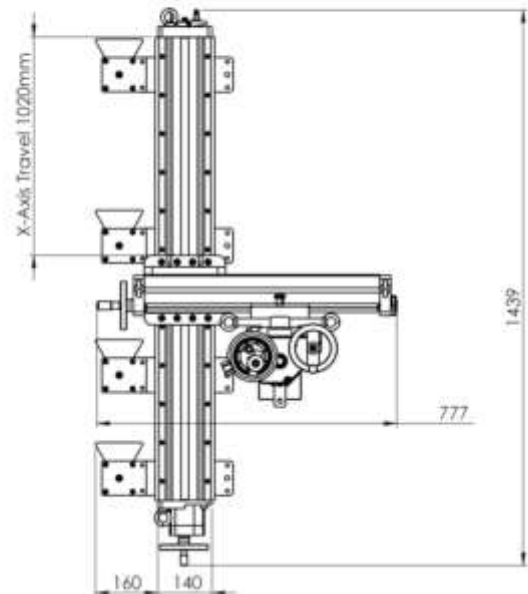
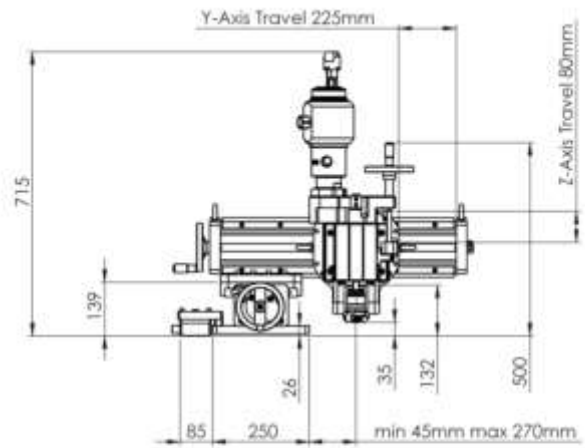
Electric motor:

- **Electric Drive:** For applications requiring an electric solution, we offer a powerful 1.8 kW electric motor that operates with a 230 V connection, delivering high efficiency and consistent performance.

| | Straight Motor | Right Angle Motor | Electric Motor |
|---------------------|-----------------------|--------------------------|--------------------------------|
| Speed | ~850 rpm @ max power | ~850 rpm @ max power | 1. 60-140 rpm 2. 200-470rpm |
| Output power | 3.2kW | 2.5kW | 1.8kW |
| Input | 3100 l/min @ 6.2bar | 2800 l/min @ 6.2bar | 230v/110v 1 phase |

3-Axis LW Portable Milling Machine PLM3

| Technical Details | |
|-------------------|--|
| Travel | X-travel: Option 1. 1000mm Option 2. 1500mm Option 3. 2000mm |
| | Y-travel: 225 mm |
| | Z-travel: 80mm |
| Feed | X-axis: Option 1. Pneumatic 0.3kW & manual Option 2. Manual |
| | Y-axis: Manual |
| | Z-axis: Manual |
| Spindle | Motor options: Option 1. Pneumatic straight motor 3kW Option 2. Pneumatic angle motor 2.5kW Option 3. Electric 1.8kW 230v |
| | Depth measurement with analogue read-out |
| | Spindle BT30 |
| Weights | Operational weight: 90 kg |
| | Shipping weight: 180 kg |



All information contained in this document is subject to change without prior notice



normaco
Portable Machining Tools

3-Axis LW Portable
Milling Machine **PLM3**



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