

MOReTENs



PH360

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MOReTENs PH 360
Four-sided
planer/moulder

A little giant



Planes and
moulds on
all four sides
in one pass

Built in
planer
function

Horizontal cutters
have four functions

Five separate motors



Stainless for use
in cold rooms or
even outdoors

PH360's
size and
weight make
it portable

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Adapted for a very large range of standard blades and cutters

Extremely easy to adjust



Stepless feed using planetary gearbox

Feed system that can handle lumber with a lot of resin as well as lumber with high moisture content

The machine works:

- In carpentry
- At the sawmill
- On the farm
- In industry
- In construction



Ready for a
fifth universal
spindle

Digital position
indicators for
width and height

MORiTENs has
manufactured and
developed four-sided
moulders since 1993

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Inside the top cover of the PH360



Mechanical digital readout with reset function

Capacity

360 mm width and 130 mm height.

Planing and moulding can be done on all four sides.

Planing width with and without profiling, 510 mm.

Robust, strongly built, 675 kg.

High engine capacity, a total of 16 kW or 22 Hp.

Input table with planer function with rapid adjustment of the chip thickness of both the bottom and right side.

Cast iron planer table is in a fixed position regardless of the size of the work piece.

Bottom cutter 410 mm wide, for planing function.

Vertical cutter right is stationary for planing function.

Vertical cutter left is adjustable with digital counter with reset function.

Top cutter is 510 mm wide, for planing/thicknessing.

Digital readout of the height. The chip hood of the cutter can be optimized to the project.

The machine has five feeding rollers evenly distributed throughout the machine.

The machine is fitted with stepless variable feeding between 3 - 15 m/ min. Can alternatively be fitted with higher speed to 6 - 30 m/ min.

A planer for efficient planing

PH360 planes and profiles four sides in one pass. Gives good results with high quality, finish and perfect measurements.

The machine is easy to adjust; you can re-set profiles and dimensions in a matter of minutes. This makes PH360 suitable for the rapid production of planed wood in larger and smaller series.

Making it perfect for:

The joinery for the manufacture of furniture components, windows, frames and more thanks to PH360's capacity and rich moulder function.

The sawmill in the manufacture of smaller mouldings up to floorboards and beams.

On the farm for renovation, expansion and profit.

Industrial manufacturing of specialized and smaller series as PH360 is easily adjustable and economical for these challenges.

Building and construction where it's capacity from small mouldings to large profiled beams and timber blocks where special profiles and even smaller series are needed. It could also be used on-site because it is portable.

Large capacity

The machine has large capacity – up to 350 mm wide and 130 mm high with four-sided planing/moulding. With two-sided planing/moulding – up to 410 mm wide and 230 mm high.

One-sided planing/thicknessing capacity, with assembly modification, up to the entire 510 mm planing width could be used in a max height of 230 mm. Profile depth and cutting depth are also impressive.



Feed system

Stepless mechanical feed speed. When PH360 gears down to a slower speed pressure is simultaneously increased. Built with indicator gauge to allow returning to the proper feed speed.

Cutters

For vertical cutters PH360 has two spindles with 30 mm diameter and 130 mm height. This allows for a wide range of tools on the market.

Side cutters are standard. This makes machine ready for dimensional planing and to do moulding it is only necessary to add profile blades.

Horizontal cutters can be set up with a combination of four functions:

- planing with 2 blades
- planing with 2 blades and moulding with 2 profile blades
- moulding with 4 profile blades to combine 2 different profiles
- planing with 4 blades for even a better finish.

All cutter blocks can use moulding cutters and we have a large selection of profiles. You can also have them custom designed.

Feed

The machine has 5 feed rollers. The last feeding roller is made with a polyurethane surface for good grip and long life without affecting the planed surface.

Five motors

All four cutters and feed powered by separate motors with individual on and off buttons. The control panel with all switches and indicator lights is easily available. Built-in switch for optional chip extractor and fifth cutter is controlled from the control panel.

Clear and adapted to a fifth universal cutter.

The machine has a cast iron table for best stability, precision and durability.



Planer cut depth is easy to adjust between 0 - 10 mm.



Cut depth to the vertical cutter is simple to adjust.



The width is very easy to adjust as the moveable vertical cutter moves at the same time as the four pressure rollers. Change the width in seconds.



Feedrollers that do not need any correction when changing widths makes for easy adjustments.



Out-feed fence with micro adjustment.



Vertical spindle. Max moulding height 130 mm.



Top horizontal cutter, combination type. Planing and moulding in four different ways.



Hood for top cutter is adjustable and has a modifiable interior for best efficiency and surface.

Technical data

Capacity

Four-sided planing/moulding
Max width 350 mm
Height range 10 - 130 mm

Two-sided planing/moulding
Planing width 410 mm
Height range 10 - 230 mm

One-sided planing/moulding or
thicknessing (requires assembly)
Max width 510 mm
Height 230 mm

Upper horizontal cutter

Diameter 88 mm
Width 510 mm
Power 5,5 kW (7,5 Hp)
Rotation speed 6000 rpm
Cutting depth max 8 mm
Profile depth max 20 mm

Lower horizontal cutter

Diameter 72 mm
Width 410 mm
Power 4 kW (7,5 Hp)
Rotation speed 6000 rpm
Cutting depth 0 - 8 mm
Profile depth max 10 mm (slot drill 15 mm)

Vertical cutters

Spindle diameter 30 mm
Cutter height max 130 mm
Diameter max 140 mm
Power 3 kW (4 Hp)
Rotation speed 6000 t/min
Cutting depth max 30 mm

Standard cutters included

Type TB90 steel
Body diameter 90 mm
Body height 40 mm
Cut type plate HSS
Cutting width 50 mm

Feed, planetary gear

Power 0,75 kW (1 Hp)
Feed speed 3 - 15 m/min
or 6 - 30 m/min

Electrical system

Total power 16,25 kW (22 Hp)
Connection 3-phase, 16 - 32 A, 400V

Dimensions and weight

Length x width 2970 x 1125 mm
Height 1430 mm
Weight 675 kg

Chip Extractor System SP5000

Efficient fan with inclined and curved fan blades.

The heart of the system is a sturdily built extractor unit. Steel fan and casing. Well balanced. Flow up to 5000 m³/hr.

Adapted for PH360.

Outlet can be in several different directions.

Motor 4 kW (5 hp) Intake 1 x 250 mm.

Exhaust 1 x 250 mm or 2 x 200 mm.

Connection, 310-500.

Exhaust 5 x 100 mm, 1 x 125 mm, intake 1 x 250.

Cyclone with filters and chip bags CSF, 301-008.

Complete with filter, cyclone, bag holder.

Each unit has two filters and 250 liter chip bags.

For connection to the chip fan SP5000 two units needed [4 filters and 4 chip bags].

Connection for two filter systems to the SP5000, 310-501.

Intake connector [fit to SP5000], exhaust 2 x 200mm.



Accessories



Extended Fence (front) 1300 mm (standard 800 mm)
360-328. Including extra support from board.

Extended Fence (front) 2000 mm (standard 800 mm)
360-331. Including extra support from board.

Shortened Fence (front) 370 mm (standard 800 mm)
360-330.



Support Roller

For placement on the in feed or out feed
tables 360-371. For extra support and
control. Can be mounted on both the front
and back table.

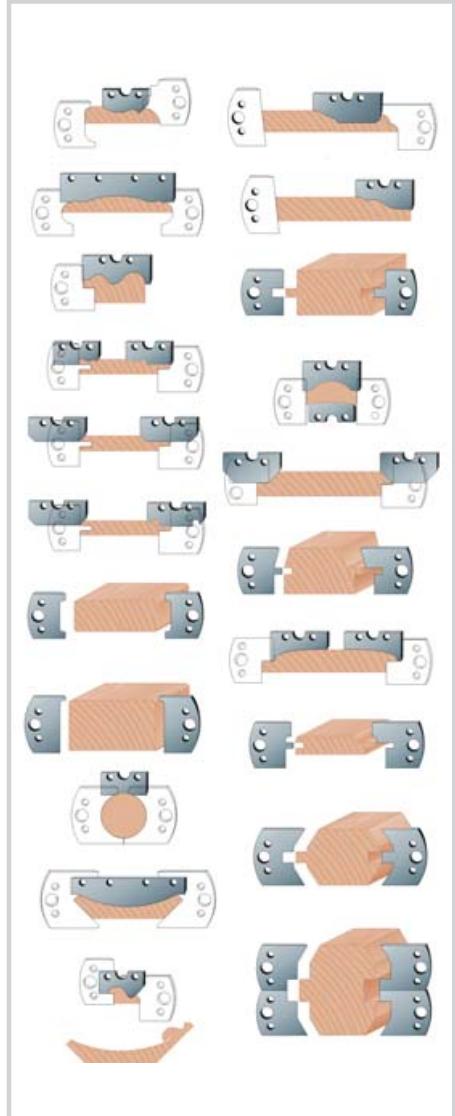


Extended Rear Rence 900 mm (standard 430 mm) 360-370.
Including extra support from board.

Should be purchased with Support Roller 360-371.

Wheel kit

Four lockable castors. Replaces standard legs.
360-045.



Examples of different profile
blades. Available in a separate
catalogue.



Fifth universal spindle

The PH360 can be modified with a fifth universal cutter. The fifth cutter can be adjusted and work on all four sides. It can also be tilted up to 270 degrees.

The spindle can be shifted so that shank cutters can be used.

Spindle diameter is 30 mm. This provides a wide range of cutters to be used as well as brushes and grinding wheels. Tools with shanks up to 20 mm in diameter can be used.

Technical data

Spindle, standard	30 mm
Spindle for shank router tools (option)	6-20 mm
Tool diameter	max 200 mm
Tool height	max 130 mm
Spindle speed	3000, 6000, 9000 rpm
Spindle speed for shank routers	3000, 6000, 9000, 14000 rpm

Spindle movement

Tilting	270 degree
Operating height	500 mm
Lateral movement	350 mm
Motor 3-phase	400 V (230V)
Power, motor	3 kW (4 Hp)
Weight	310 kg



PH360 on assembly line

Unique woodworking machines.

MORiTENs has been manufacturing machines for over thirty years.



A close-up, low-angle shot of a dark, metallic safe or vault door. A red rectangular sticker with the white text "MORETENS" and a diagonal black stripe is attached to the door. The safe has a vertical handle on the left side and a horizontal vent at the top.

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