

Technical Specification

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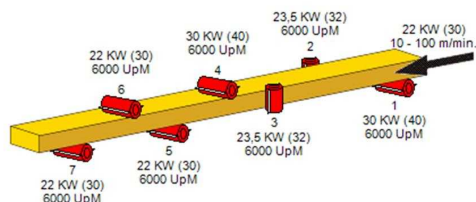
Customer: 0008000
Date: 23.08.2023
Our ref.: ZAB/LM/NE

100 m/min

Automatic planer and moulder WEINIG Hydromat 3000



2517395*



Spindle arrangement no. 010

Operating concept Comfort Set

A unique operating concept with scales and clear measurements located at all relevant setting points in the machine. All setup requirements can be performed either wrench-free or with the assistance of just a few hand tools.

This results in ergonomic and safe setup for the operator, short setup times and high quality of the end product.

The maximum possible feed speed depends on the motor power of the spindles, the chip removal, the raw material and the desired surface quality.

All displays in millimetre

Technical data

Working width (with tool cutting circle 125 - 163 mm)	20 - 230 mm
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Working height (with tool cutting circle 125 - 163 mm)	10 - 160 mm
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1. spindle

First horizontal bottom spindle

2986960 Motor	30 KW (40 HP)
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8102252* Diameter	50 mm
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3090053* Revolution speed	6000 rpm
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1226189 Tool cutting circle	143 - 180 mm
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2516638*

High-performance package first bottom spindle

Processing unit with reinforced design
incl. manual clamping of the radial adjustment of the bottom spindle,
of spindle slide and of front plate. Radial adjustment is only possible
after releasing the clamping.

107285*

Electronical digital display for radial adjustment

2363181

Hydro - outboard bearing with HydroLock:

Incl. interlocking of the radial adjustment of the bottom spindle.
 Radial adjustment is only possible after releasing the clamping.
 Axial adjustment of the spindle possible with closed outboard bearing.

Tool cutting circle min.143 mm.

Motor power min. 15 KW (20 HP)

Max. 6000 rpm!

Your advantages:

- Clamping of the outboard bearing with Allen key instead of grease gun
- Reduced set-up time
- Control display for clamping the outboard bearing by means of a pin
- No contamination of the working environment from leaking grease

2. spindle**First right vertical spindle**

2996158

Motor

23,5 KW (32 HP)

8102252*

Diameter

50 mm

3090053*

Revolution speed

6000 rpm

2516636*

High-performance package right spindle

Processing unit with reinforced design

Tool cutting circle

125 - 250 mm

Tool cutting circle for straight cutterheads max.

210 mm

2153014*

Maximum profile depth

35 mm

3094138*

Setting range axial

80 mm

Fence lip after the right vertical spindle with quick adjustment**Your advantages:**

- Reduced setup time due to quick positioning to the tool diameter
- Improved surface quality on the workpiece due to the small gap in the area of the right spindle

2363180

Heavy pressure roller (steel)

from above opposite the right spindle,
 pivoting out of the way and pneumatic.

Diameter 120 mm

Your advantage

- Safe guidance of workpieces near the right spindle
- Pivoting out of the way for easy access during tool changes
- Variable setting of pressure via manometer

3. spindle

First left vertical spindle

2996158 Motor	23,5 KW (32 HP)
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8102252* Diameter	50 mm
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3090053* Revolution speed	6000 rpm
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2516634* High-performance package left spindle Processing unit with reinforced design Tool cutting circle Tool cutting circle for straight cutterheads max. incl. reinforced pressure shoe in front of left spindle: hardened, receding from the tool and pneumatic	125 - 250 mm 180 mm
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2153014* Maximum profile depth	35 mm
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3094138* Setting range axial	80 mm
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Quick disconnect dust extraction hose

Your advantage:

- Reduced setup time and greater safety due to improved access to the left spindle and the area in front of it

Pressure shoe after left vertical spindle with electronic digital read-outs to display the minimum tool radius.

Your benefit:

- Quick adjustment of pressure shoe due to display of target
- Secure guiding of workpieces due to accurate adjustment of pressure shoe

Setting range of the feed rollers opposite left spindle, axial 35 mm

2363170
Heavy pressure roller (steel)
from above opposite the left spindle,
pivoting out of the way and pneumatic.
Diameter 120 mm
Your advantage
- Safe guidance of workpieces near the left spindle
- Pivoting out of the way for easy access during tool changes
- Variable setting of pressure via manometer

4. spindle

First horizontal top spindle

2986960 Motor	30 KW (40 HP)
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8102252*	
Diameter	50 mm
3090053*	
Revolution speed	6000 rpm
2660778*	
High-performance package top spindle	
Processing unit with reinforced design	
Tool cutting circle	125 - 250 mm
Tool cutting circle in connection with outboard bearing	143 - 250 mm
Tool cutting circle for straight cutterheads max.	180 mm
incl. EasySet pressure shoe pneumatic	
incl. automatic clamping of spindle slide for radial adjustment of the spindle with closed hood.	
2153014*	
Maximum profile depth	35 mm
30269*	
Adjustment range axial	40 mm
1101237	
Pressure element after top spindle, pneumatic	
Pressure shoe in front of and guide after top spindle with electronic digital displays integrated in Memory function or PowerCom.	
1101236*	
Top spindle prepared for subsequent attachment of the cassette system.	
2518612*	
Radial CNC-controlled adjustment and positioning of spindles.	
2363182	
Hydro - outboard bearing with HydroLock:	
With pneumatic clamping incl. interlocking of the radial adjustment of the top spindle. Radial adjustment is only possible after releasing the clamping. Radial adjustment possible with closed hood. Axial adjustment of the spindle possible with closed outboard bearing.	
Tool cutting circle min. 143 mm.	
Motor power min. 15 KW (20 HP)	
Max. 6000 rpm!	
Your advantages:	
- Clamping of the outboard bearing with Allen key instead of grease gun	
- Reduced set-up time	
- Control display for clamping the outboard bearing by means of a pin	
- No contamination of the working environment from leaking grease	

5. spindle

Second horizontal bottom spindle

9112141 Motor	22 KW (30 HP)
8102252* Diameter	50 mm
3090053* Revolution speed	6000 rpm
2516631* Tool cutting circle Tool cutting circle for straight planer heads max.	125 - 250 mm 180 mm
2516632* High-performance package bottom spindle Processing unit with reinforced design incl. manual clamping of the radial adjustment of the bottom spindle, of spindle slide and of front plate. Radial adjustment is only possible after releasing the clamping. incl. additional table plate for high-performance applications (profile depth 0 mm).	
3073844* Maximum profile depth	15 mm
30269* Adjustment range axial	40 mm
2645332* Radial range of adjustment	
Profiling/ planing:	
min. tool diameter to table surface	93 mm
min. tool diameter to table surface in connection with outboard bearing	143 mm
max. profile depth (tool diameter 250 mm)	15 mm
max. knife height above the table surface and behind fence line	10 mm
Sawing (only in combination with wooden insert):	
max. sawblade diameter (250 mm) below table surface	10 mm
max. depth of saw cut (sawblade diameter 250 mm, flange diameter 100 mm)	65 mm
max. depth of saw cut (sawblade diameter 250 mm, flange diameter 90 mm)	70 mm
max. depth of saw cut in connection with outboard bearing (sawblade diameter 250 mm)	53 mm

2363181

Hydro - outboard bearing with HydroLock:

Incl. interlocking of the radial adjustment of the bottom spindle.
 Radial adjustment is only possible after releasing the clamping.
 Axial adjustment of the spindle possible with closed outboard bearing.

Tool cutting circle min.143 mm.

Motor power min. 15 KW (20 HP)

Max. 6000 rpm!

Your advantages:

- Clamping of the outboard bearing with Allen key instead of grease gun
- Reduced set-up time
- Control display for clamping the outboard bearing by means of a pin
- No contamination of the working environment from leaking grease

6. spindle**Second horizontal top spindle**

9112141

Motor

22 KW (30 HP)

8102252*

Diameter

50 mm

3090053*

Revolution speed

6000 rpm

2660778*

High-performance package top spindle

Processing unit with reinforced design

Tool cutting circle

125 - 250 mm

Tool cutting circle in connection with outboard bearing

143 - 250 mm

Tool cutting circle for straight cutterheads max.

180 mm

incl. EasySet pressure shoe pneumatic

incl. automatic clamping of spindle slide for radial adjustment of the spindle with closed hood.

2153014*

Maximum profile depth

35 mm

30269*

Adjustment range axial

40 mm

1101237

Pressure element after top spindle, pneumatic

Pressure shoe in front of and guide after top spindle with electronic digital displays integrated in Memory function or PowerCom.

1101236*

Top spindle prepared for subsequent attachment of the cassette system.

2518612*

Radial CNC-controlled adjustment and positioning of spindles.

2516637

Straight jointer automatic

Moving with the spindle during radial adjustment

Remotely controlled with closed safety hood.

For tool cutting circle 125 - 180 mm.

Jointing width for conventional hydro tools without outboard bearing
max. 120 mm.Jointing width for conventional hydro tools with outboard bearing
max. 310 mm.

2363182

Hydro - outboard bearing with HydroLock:

With pneumatic clamping incl. interlocking of the radial adjustment of the top spindle. Radial adjustment is only possible after releasing the clamping. Radial adjustment possible with closed hood. Axial adjustment of the spindle possible with closed outboard bearing.

Tool cutting circle min. 143 mm.

Motor power min. 15 KW (20 HP)

Max. 6000 rpm!

Your advantages:

- Clamping of the outboard bearing with Allen key instead of grease gun
- Reduced set-up time
- Control display for clamping the outboard bearing by means of a pin
- No contamination of the working environment from leaking grease

7. spindle**Third horizontal bottom spindle**

9112141

Motor

22 KW (30 HP)

8102252*

Diameter

50 mm

3090053*

Revolution speed

6000 rpm

2516631*

Tool cutting circle

125 - 250 mm

Tool cutting circle for straight planer heads max.

180 mm

2516632*

High-performance package bottom spindle

Processing unit with reinforced design

incl. manual clamping of the radial adjustment of the bottom spindle, of spindle slide and of front plate. Radial adjustment is only possible after releasing the clamping.

incl. additional table plate for high-performance applications (profile depth 0 mm).

3073844*

Maximum profile depth

15 mm

30269*

Adjustment range axial

40 mm

2645332*

Radial range of adjustment

Profiling/ planing:

min. tool diameter to table surface

93 mm

min. tool diameter to table surface

in connection with outboard bearing

143 mm

max. profile depth (tool diameter 250 mm)

15 mm

max. knife height above the table surface and behind fence line

10 mm

Sawing (only in combination with wooden insert):

max. sawblade diameter (250 mm) below table surface

10 mm

max. depth of saw cut

(sawblade diameter 250 mm, flange diameter 100 mm)

65 mm

max. depth of saw cut

(sawblade diameter 250 mm, flange diameter 90 mm)

70 mm

max. depth of saw cut in connection with outboard bearing

(sawblade diameter 250 mm)

53 mm

2516637

Straight jointer automatic

Moving with the spindle during radial adjustment

Remotely controlled with closed safety hood.

For tool cutting circle 125 - 180 mm.

Jointing width for conventional hydro tools without outboard bearing

max. 120 mm.

Jointing width for conventional hydro tools with outboard bearing

max. 310 mm.

2363181

Hydro - outboard bearing with HydroLock:

Incl. interlocking of the radial adjustment of the bottom spindle.

Radial adjustment is only possible after releasing the clamping.

Axial adjustment of the spindle possible with closed outboard bearing.

Tool cutting circle min. 143 mm.

Motor power min. 15 KW (20 HP)

Max. 6000 rpm!

Your advantages:

- Clamping of the outboard bearing with Allen key instead of grease gun
- Reduced set-up time
- Control display for clamping the outboard bearing by means of a pin
- No contamination of the working environment from leaking grease

Spindles in general

118308*

All spindles with highly concentric running.

Start and stop of spindle drives via frequency convertor.

Your benefits:

- robust and reliable technology
- low power peak during start and stop of the machine
- low workload on the motor due to emission of the heat in the electric cabinet (cooling via air conditioning)
- low performance requirements to the transformer upstream to the machine (if in use)
- low vulnerability to mains fluctuations

Optimized flow of dust and wood chips due to aerodynamic hood design

Your advantages:

- Energy savings due to reduced performance requirements from the dust extraction system
- Reduced noise emission

Feed system

2879530+

Feed speed electronically variable incl. brake

10 - 100 m/min.

Feed roller diameter 170 mm

Operation only permitted with automatic feeding!

2364459+

7 additional cost per spindle for electronic feed speed

10 - 100 m/min.

2385754+

Drive power

22 KW (30 HP)

Durofer pointed tooth rollers self-cleaning with depth limitation

2381976

First feed roller with freewheel gearbox instead of the standard roller, diameter 220 mm

2914471*

CNC-controlled adjustment and positioning of feed up/down in combination with Machine control.

Machine electric

Operating voltage 400 Volt

(Range between 380 - 420 Volt), 50 Cycles

All spindle drives according to current energy efficiency standards (e.g. IE 3, NEMA Premium, etc.).

2803998*

Electrical design according to DIN VDE 0113,
Electrical equipment of machines EN60204, IEC-204-1. Additional
electrical regulations are not taken into consideration.

The machine is equipped with frequency-controlled drives. If an
RCD is used to protect the machine, it must be of type B (sensitive
to universal current) or type B+ (sensitive to universal current and
for enhanced electrical fire prevention).

The relevant country-specific regulations must be observed.
The power supply line of the machine must be designed by the
customer for an appropriate back-up fuse.

Should the main power supply to the moulder be less than 380 V
and it is equipped with soft start electronic brakes then a primary
transformer must be supplied by the user. The required rating of the
primary transformer depends upon the technical specification of the
moulder.

EMC

Limit value class A in accordance with DIN EN55011
(Installation of machine in industrial environment)

Potential free contact to control the dust extraction, for the whole
machine

Moulder prepared for signal exchange with an infeed
mechanization.

incl.

- Emergency stop chaining
(execution according to performance level d)
- Control signals

The following signals are provided on the interface
(terminal strip)

- Signal exchange:
 - Emergency stop contact channel 1
 - Emergency stop contact channel 2
 - Feed release
 - Feed pause
 - Message emergency stop channel 1: ok
 - Message emergency stop channel 2: ok
 - Message machine feed: running
 - Message continuous feed: on
 - Voltage value for feed speed adjustment 0-10V

Moulder prepared for signal exchange with an outfeed mechanization.

incl.

- Emergency stop chain
(execution according to performance level d)

- Control signals

The following signals are provided on the interface (terminal strip)

- Signal exchange:

Emergency stop contact channel 1

Emergency stop contact channel 2

Feed release

Feed pause

Message emergency stop channel 1: ok

Message emergency stop channel 2: ok

Message machine feed: running

Message continuous feed: on

2609512

Switch cabinet separate from the machine with 2.5 m flexible cable.

82347

- 3 Meters extension of the connection cable from machine to switch cabinet

Main switch and cable entry on right side

Cable entry into the side of the switch cabinet

Cable installation over the floor

2609501

Control panel mounted on swivel arm

1095711*

Cooling device for the switch cabinet

to protect against the overheating of electronic devices.

Required as of two tool holders equipped with electronically adjustable revolution

Recommended as of ambient temperatures of $\geq 40^\circ \text{C}$.

Machine base, tables and fences

2553493

Short infeed table 1.1 meters (4 rollers)

Heavy execution for feed speed 8-80 m/min and 10-100 m/min.

with 2 driven rollers above the table, diameter 220 mm,

and 2 driven, serrated roller in the table, diameter 140 mm.

Incl.2 lateral pressure rollers, diameter 100 mm, pneumatic.

Incl.2 heavy pressure rollers from above, diameter 120 mm, pneumatic.

3005917

Motorized adjustment of straightening table and edge jointing fence performed by WMC.

Advantage

- Quick adjustment of straightening table and edge jointing fence to the required chip removal
- Problem-free adjustment if the infeed area is difficult to access due to the mechanical handling

MarathonPowerCoating

for machine tables and fences incl. coating for pressure shoes (excluding infeed table and special table plates).
Special coating for table plates and fences to prevent high wear.

Automatic lubricant pump to remove resin from machine table, incl. 5 liters lubricant.

2342376

Table plates between 2nd horizontal bottom and second top horizontal spindle adjustable (0 / 0.5 mm)

2342375

Outfeed table adjustable 0/0.5 mm

2342377*

One driven roller in the outfeed table, hardened

210 mm wide

Pressure elements and guides

2516553*

Guiding fences after left spindle 8 mm thick with manual adjustments for width and height.

Machine operation

WEINIG Machine Control (WMC) Basic

- Touch screen with a diagonal measurement of 21.5" and multitouch function
- Management of profile and tool data
- Individual dashboard for central display of all relevant data at a glance, e.g.
 - Current profile
 - Linear meter counter
 - Indicator of operating hours
 - Power consumption
- Import of profile and tool graphics
- Management of users and their permission
- Connection to OptiControl measuring stand
- Connection to WEINIG App Suite
- Central motor start at operating panel
- Remote services via firewall

Customer benefits

- Excellent readability even from far away
- Efficient profile and tool management
- High process reliability due to automatic data exchange between machine and peripheral equipment (e.g. measuring stand)
- Significant reduction of navigation within the control system thanks to a central dashboard
- Individual adaptation of the dashboard to the user profile
- Error prevention due to simplification of operation and setup
- Quick support in case of service via remote services

Note:

It is up to the machine operator to save this data in an anonymous form by not creating the user in plain text but as a pseudonym. In data backups, the user names remain as they were when they were saved.

2799145

Firewall for remote maintenance (VPN),

suitable for up to 4 separate IP address ranges.

The firewall can be used for a single machine or for moulders which are linked to further machines (mechanization or machines from the Weinig Group).

Customer benefits

- Fast problem analysis via Internet (DSL)
- Avoidance of a technician visit on site
- Minimization of downtime
- Increased machine availability and productivity
- VPN connection can be switched on/off by the customer

Technical requirements

- The firewall must be integrated into the customer network, the connection uses port 443.
 - The connection is established from the firewall to WEINIG when the customer activates the key switch.
 - The tunnel endpoint is the firewall; access to the customer network is not possible.
 - The customer needs an IP address / network mask and a gateway to the Internet.
 - DHCP is also possible.
 - Term until the end of the agreed warranty.
- Remote maintenance can be extended by a remote maintenance contract.

Central position of lubrication points at the front side of the machine

Safety and noise protection

1064637*

Machine with spindle brakes

Electromagnetic interlocking of the safety enclosure (the machine can only be opened after the standstill of the spindles, approx. 15 seconds) and interior light inside the safety enclosure.

The machine is supplied with CE mark and the associated EC declaration of conformity. Please note that the EC declaration of conformity is only issued in combination with the machine's application according to the regulations as specified in the instruction manual.

2900775

Improved sound insulation of completely enclosed safety shell.

Design thickness of sound protection elements approx. 85 mm, multilayered design, surface weight approx. 25kg/m², with perforated metal plate cover.

Conditional on structure and number of spindles an effective noise reduction up to 15 dB (A) will be achieved.

An appropriate installation of the shell is a prerequisite. Less reduction at the machine feed and outfeed, also when using feed devices, anti kick-back devices, automatic straightening aids, etc. Customer shall provide 1 - 2 help mates for assembling the improved completely enclosed sound insulation shell!

1005911

7 Cost component per spindle for sound enclosure

1478621*

Two interior lights in the safety hood.

Package Light Plus

to improve the interior illumination of the machine.

One additional interior light in the safety hood

For splitting works, e.g. sawing or multiple profiling, you require appropriate protection devices. Please contact WEINIG.

Warranty

The warranty period for this machine is 12 months for single shift operation, 6 months for two shift operation and 3 months for more than 2 shifts.

The warranty terms are included in our general terms of sale and delivery.

1. The warranty exclusively covers new machines supplied by us.
2. The warranty refers to the delivery of faulty items, in particular to sub-standard material, inferior workmanship or construction. We will be liable to repair or replace the defective parts at no extra charge.
3. Excluded from the warranty are natural wear (standard wearing parts), damage caused by force or the use of unsuitable lubricants or fuels, non-compliance with prescribed machine care and instructions for use, incorrect assembly or putting into commission by the Orderer or third parties, incorrect or inadequate maintenance, unsuitable locations, repairs or alterations carried out by the Orderer or third parties at the Orderer's initiative, elemental influences, ambient conditions e.g. extremely high humidity, abnormal fluctuations in the power supply, the use of spare parts not manufactured or approved by us.
4. We shall bear the costs for replacement parts including their shipment and any reasonable dismantling and re-assembly costs.

For more information about tools and accessories (e.g. tool carrying handle), contact your WEINIG expert.

Connections

Total connection value

ca. 205 KW
(ca. 277,6 HP)
ca. 390 Ampere
ca. 226 KVA (p.r.n.
for transformer
upstream to the
moulder)

Operating pressure

6 bar

Nominal pressure

8 bar

Suction diameter per spindle	160 mm
Total air requirement m ³ /h	ca. 14640 - 16620
Air speed	ca. 30 - 34 m/s
Low pressure	
with 23 m/s	ca. 900 - 1400 Pa
with 26 m/s	ca. 1100 - 1800 Pa
with 30 m/s	ca. 1500 - 2300 Pa
with 34 m/s	ca. 2000 - 3000 Pa

Service

366875*

Machine without installation and commissioning

PRICE

FCA, [Free Carrier]
Weinigstrasse 2/4 Tauberbischofsheim,
according to ICC Incoterms 2020.
Packaged and loaded.