

The perfect nesting technology

# DYNESTIC 7515 | 7516



PRODUCTIVITY AND PRECISION



# Precise, quick, efficient

With the DYNESTIC 7515 | 7516, HOLZ-HER offers a perfect entry into nesting technology to modern manufacturers. The standard key features of the DYNESTIC machining centers are:

- Technology at its best
- Tool changer (for 8/12/18 tools) for quickly changing tools (optional) or Option: tool changer for 12 tools – Pick-up
- Manual operator interface for remote control of the machine
- Vacuum pump with an output of 250 m<sup>3</sup>/h

The welded machine frame, polished and hardened prismatic guides and the robust control platform stand for high precision of production even in continuous operation or under heavy duty. The DYNESTIC 7515 and 7516 machines are available in practical machine lengths up to 6405 mm in the X-direction. The dimensions for the machining fields in the Y-direction are up to 1561 mm.



Illustrations may contain optional features.

## Reliable through centralized lubrication



Lubrication is done via central lubrication strips. Optional: manual and automatic centralized lubrication [Figure shows manual centralized lubrication].



## Machining head – equipped to fulfill all requirements [Fig. 1]

- Powerful router unit with an output of 11 kW with tool-receiving socket
- Drilling head with six vertical drills in the X-direction, four drills in the Y-direction
- Two horizontal drills each in X- and the Y-direction
- Second double drilling spindle in the X-direction (optional)
- Groove saw in the X-direction (optional)



## Precision through linear guides

Highly precise, covered linear guides (dust and dirt protection) of referential quality allow the axes to run smoothly. They are designed for maximum precision and a very long service life. Dust-proof recirculating ball pads additionally allow for an even smoother operation [Fig. 2]



# Effective through nesting ...

## Nesting table for complete utilization

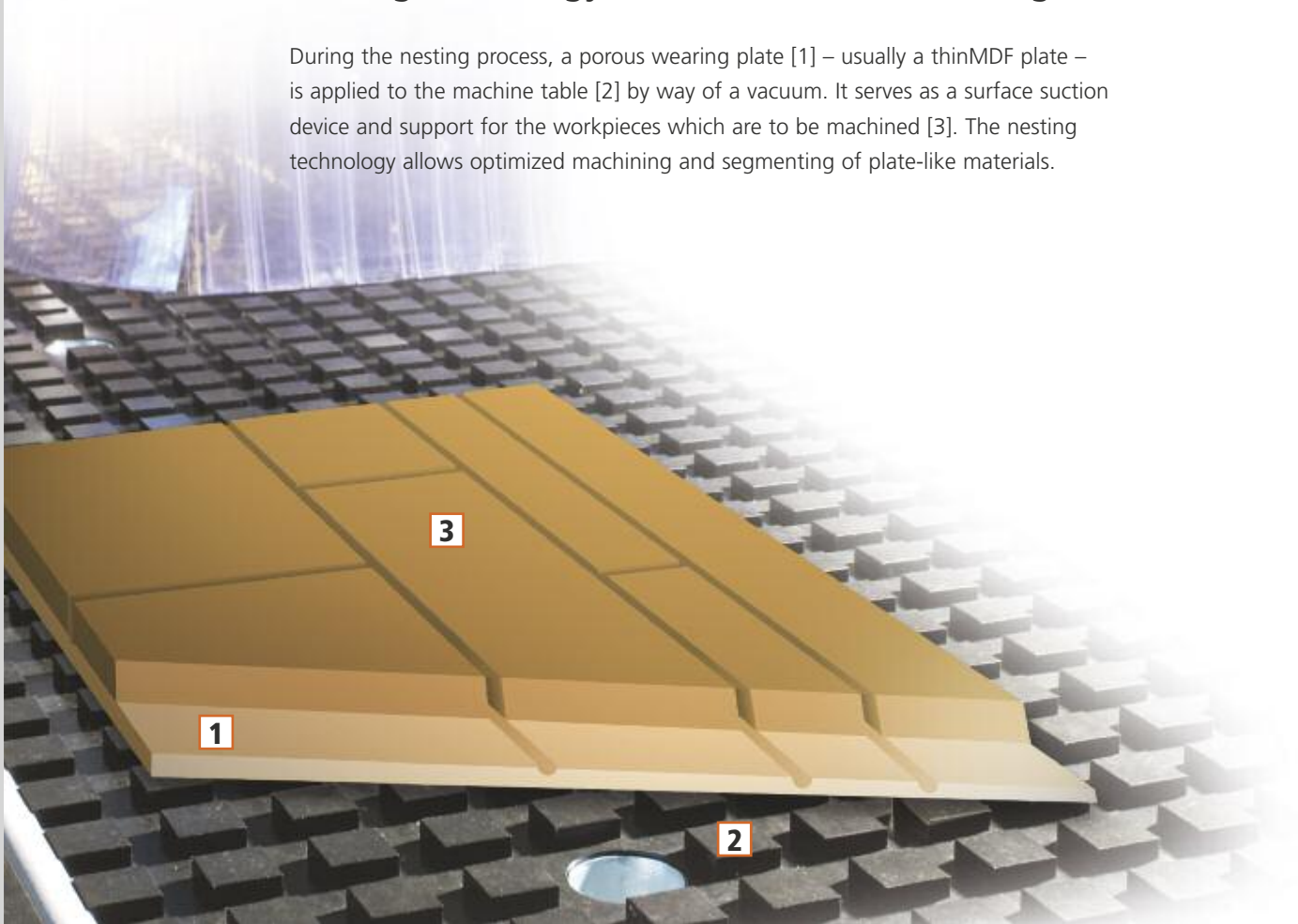
The small matrix dimension – 50 mm – of the HOLZ-HER nesting table guarantees good vacuum flux over the entire surface of the table [Fig. 2].

- Complete utilization of the working area as the matrix reaches up to the table's edge
- Edge-routing and horizontal machining with double drilling spindle and groove saw (both optional) with 1561 mm in the Y-direction (DYNESTIC 7516)
- Machining zone with four pneumatically controlled limit stops (three limit stops in the Y-direction; one limit stop in the X-direction)
- Front row of stops (optional)



## Nesting technology for efficient manufacturing

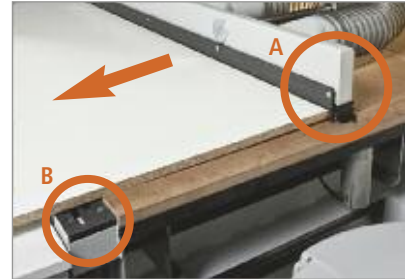
During the nesting process, a porous wearing plate [1] – usually a thinMDF plate – is applied to the machine table [2] by way of a vacuum. It serves as a surface suction device and support for the workpieces which are to be machined [3]. The nesting technology allows optimized machining and segmenting of plate-like materials.



# ... even more efficient with feed

- 1 Running surface feeder for workpieces
- 2 Vacuum suction device for insertion
- 3 Machining panel
- 4 Movable push-off table

Dust extraction included in the pusher (A) and at the end of the waste board (B).



## Feed table

The workpiece is placed onto the running surface feeder manually or by using a feeding device and then pushed into the machine [Fig.1].

## Suction of the plate

Vacuum suction devices on the control platform pull in the workpiece and position it on the machining table [Fig. 2].

## Plate on the table

Optimized machining and segmenting of the plate-like workpiece [Fig. 3].

## Push-off

After the nesting process the workpiece will be brought on the table for unloading by the pusher. During the manual unloading the following nesting process is working [Fig. 4].



## Specially adjusted control package

The HOLZ-HER machine control is an integral part of the machine concept. The equipment package includes the CAMPUS Basic Bundle. This powerful software provides the prerequisites for effective machining and convenient operation.

- 17" TFT monitor or 19" monitor (optional)
- Continuous graphical user interface
- Barcode interface
- Manual control device
- Various import possibilities
- Software CAMPUS Basic Bundle
  - CAMPUS NC HOPS (graphical variant system with WOP and CAD/CAM properties)
  - CAMPUS MT Manager (tool management)
  - CAMPUS Work Center (Drag & Drop)
  - CAMPUS DXF interface
  - CAMPUS aCADemy
- Optional:
  - CAMPUS Square Nest  
Square and rectangular nesting
 or
  - CAMPUS True Shape  
Real true shape nesting for all applications



### CabinetControl

Allows you to easily design furniture

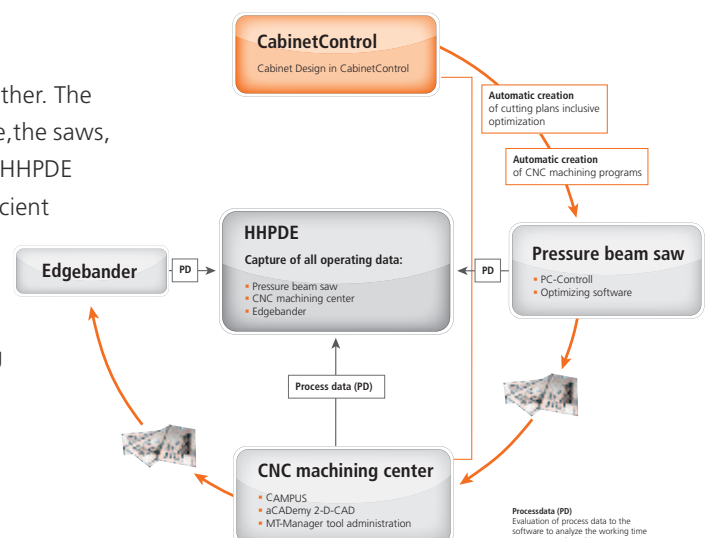
- 2-D or 3-D views.
- Quick adaptation to tailor-made desires of furniture buyer.
- Perfect presentation of furniture.
- Automatic generation of cutting plans.
- Automatically creates CNC machining program at the touch of a button.

## HHPDE – network-compatible software for all HOLZ-HER machines

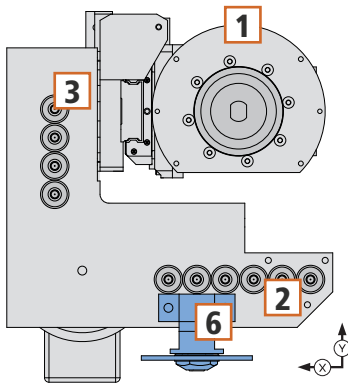
All HOLZ-HER machines can be networked with each other. The digital workflow between the CabinetControl software, the saws, the edgebanders, the CNC machining centres and the HHPDE software (HOLZ-HER process data capture) ensures efficient production. HHPDE offers:

- Capture of all operating data
- Time scheduling and calculation for order planning
- Exact evaluation of job-related production data

HHPDE is therefore the basis for efficient calculation.



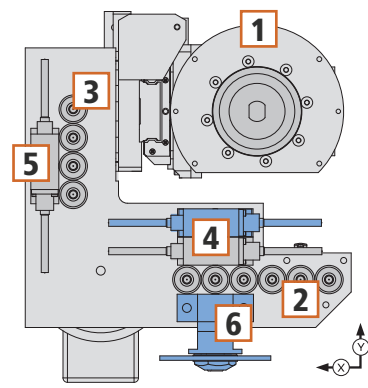
## Machining head 7879



- 1 Router unit
- 2 Vertical drill in X
- 3 Vertical drill in Y
- 4 Horizontal drill in X
- 5 Horizontal drill in Y
- 6 Groove saw

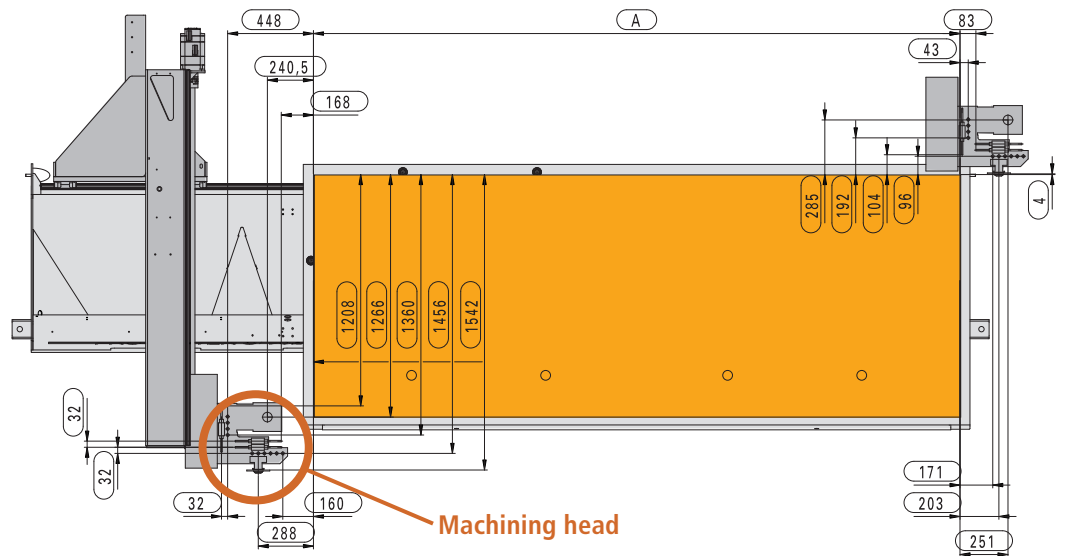
■ = Optional

## Machining head 7979



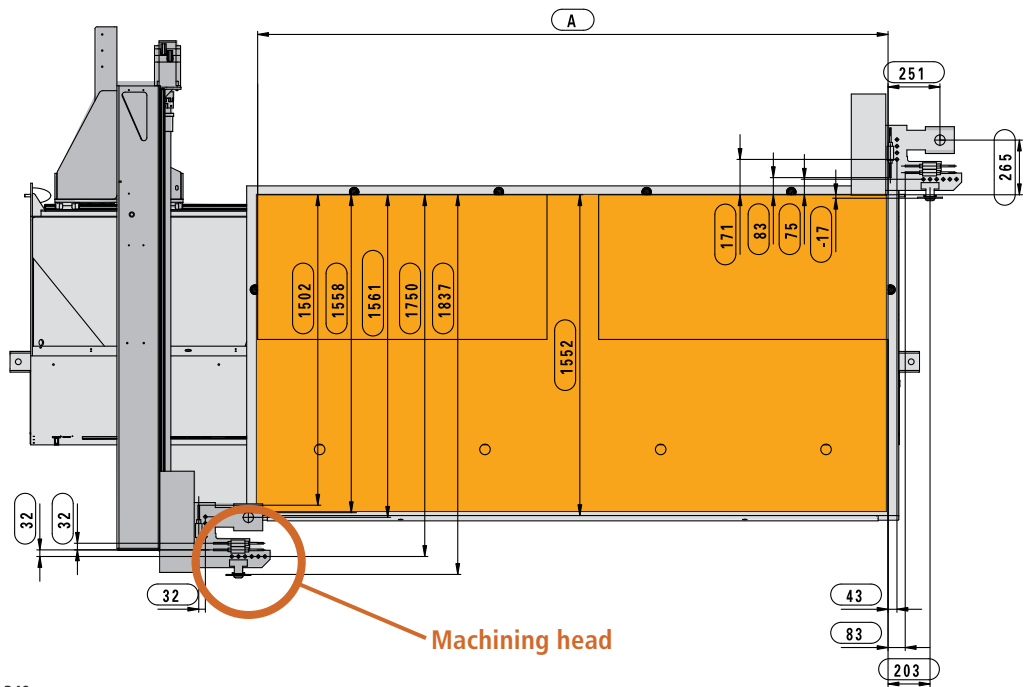
## Traverses DYNESTIC 7515

Dimensions (mm)	A
DYNESTIC 7515 8.4	2690
DYNESTIC 7515 10.4	3375
DYNESTIC 7515 20.4	6350

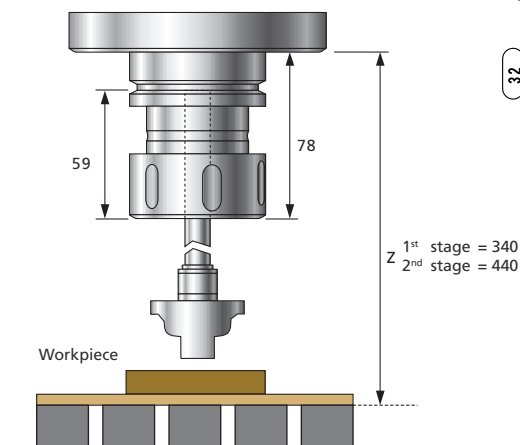


## Traverses DYNESTIC 7516

Dimensions (mm)	A
DYNESTIC 7516 10.5	3105
DYNESTIC 7516 12.5	3705
DYNESTIC 7516 20.5	6405



## Z-axis



Z measured from the top edge of the matrix table



## Technical Data

DYNESTIC 7515 | 7516

### Machine

Weight (kg) (7515 | 7516) 2900 | 3200 | 2900 | 3200

### Drives basic machine

Max. traverse speed X-axis (m/min   ft/min)	70   229.66
Max. traverse speed Y-axis (m/min   ft/min)	70   229.66
Max. traverse speed Z-axis (m/min   ft/min)	20   65.62
Max. vector speed (m/min   ft/min)	100   328.08
Motor power, cutter unit, type 7831 (kW)	11   11
Rotational speed, cutter unit, type 7831 (rpm)	1000 – 24000   1000 – 24000
Motor power, drilling unit, type 7879 and 7979 (kW)	1.7   1.7
Rotational speed, drilling unit, type 7879 and 7979 (rpm)	1000 – 4400   1000 – 4400

### Electrical system

Supply voltage (Volt)	3 x 400   3 x 400
Mains frequency (Hz)	50 / 60   50/60
Output (depends on equipment) (kW)	20   20

### Compressed air

Operating pressure (bar)	6.0   6.0
Admissible limit pressure (bar)	8.0   8.0
Compressed air required (l/min)	300   300

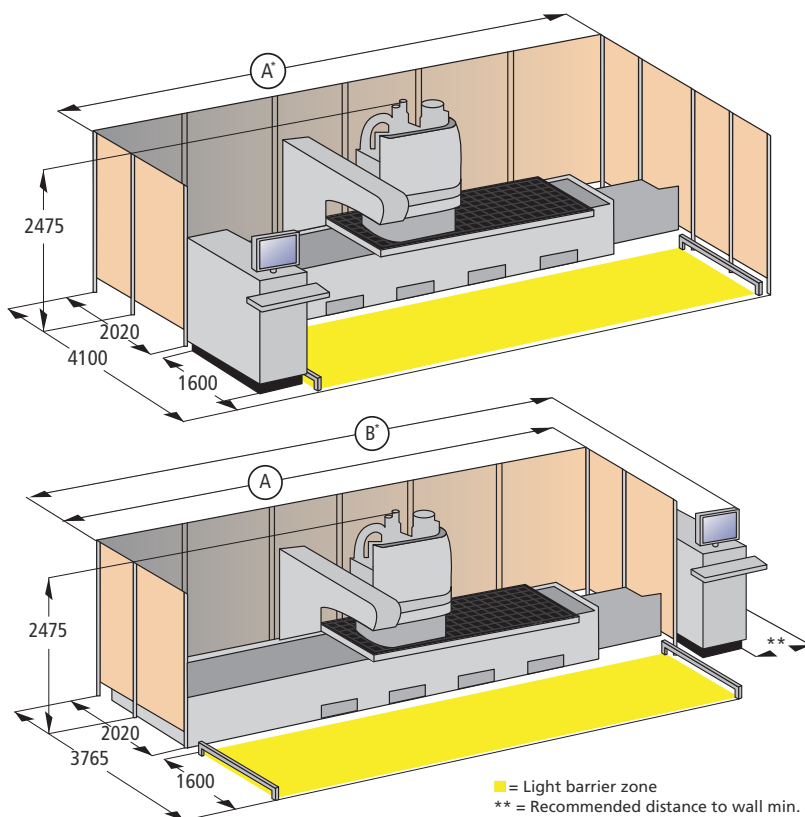
### Suction

Suction performance (m <sup>3</sup> /h   ft <sup>3</sup> /h)	3400   120 060
Static negative pressure (Pa)	2500 – 3000   2500 – 3000
Feed connection ø (mm   inch)	200   7.87
Suction speed at feed connection (m/sec   ft/sec)	30   98.43

### Vacuum pump

Vacuum pump VP 8 (m <sup>3</sup> /h   ft <sup>3</sup> /h)	250   8 831
Vacuum pump VP 14 (optional) (m <sup>3</sup> /h   ft <sup>3</sup> /h)	500   17 662
Vacuum pump VP 9 (optional) (m <sup>3</sup> /h   ft <sup>3</sup> /h)	750   26 492

Product brochures and numerous videos can be found at  
[www.holzher.com](http://www.holzher.com)



### Switchgear cabinet left side of the machine

Dimensions (mm)	A'
DYNESTIC 7515 8.4	5438
DYNESTIC 7515 10.4	6118
DYNESTIC 7516 10.5	5750
DYNESTIC 7516 12.5	6420
DYNESTIC 7516 12.5	6420
DYNESTIC 7515 20.4	9120
DYNESTIC 7516 20.5	9120

\* For the vacuum pump, an additional floor area of 2 x 2 m (max.) is required.

### Switchgear cabinet right side of the machine

Dimensions (mm)	A	B'
DYNESTIC 7515 8.4	5864	6480
DYNESTIC 7515 10.4	6654	7260
DYNESTIC 7516 10.5	6180	6780
DYNESTIC 7516 12.5	6880	7480
DYNESTIC 7515 20.4	9580	10180
DYNESTIC 7516 20.5	9580	10180

The technical data specified is intended for reference only. HOLZ-HER woodworking machines are subject to constant development and are therefore subject to modification without prior notice. The illustrations are therefore not binding. Some of the machines shown also contain special equipment not included as a standard feature. For clarity, some of the machines are shown without protective hood.

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