





IMH-DM	l-1500	IMH-DM	-2000	IMH-DN	1-3000
Machine specification	on	Machine specification	on	Machine specification	on
Over board magazines	2 pcs	Over board magazines	2 pcs	Over board magazines	2 pcs
Under board channels	3 pcs	Under board channels	3 pcs	Under board channels	3 pcs
Nail boxes	1 pcs	Nail boxes	1 pcs	Nail boxes	1 pcs
Individual nailers	6 pcs	Individual nailers	6 pcs	Individual nailers	6 pcs
Clinching plate	1 pcs	Clinching plate	1 pcs	Clinching plate	1 pcs
Minimum ceiling height	4 400 mm	Minimum ceiling height	4 400 mm	Minimum ceiling height	4 400 mm
Dimension of mater	ial	Dimension of materi	al	Dimension of mater	ial
Over boards:		Over boards:		Over boards:	
Tickness	12-35 mm	Tickness	12-35 mm	Tickness	12-35 mm
Width	75-145 mm	Width	75-145 mm	Width	75-145 mm
Length	600 - 1500 mm	Length	600 - 2000 mm	Length	600 - 3000 mm
Under boards:		Under boards:		Under boards:	
Tickness	16-35 mm	Tickness	16-35 mm	Tickness	16-35 mm
Width	75-145 mm	Width	75-145 mm	Width	75-145 mm
Length	600 - 1400 mm	Length	600 - 1400 mm	Length	600 - 1400 mm
Performance		Performance		Performance	
Change over time	3-15 minutes	Change over time	3-15 minutes	Change over time	3-15 minutes
Deck boards:		Deck boards:		Deck boards:	
600 - 1500 mm	25* boards / min	600 - 1500 mm	25* boards / min	600 - 1500 mm	25* boards / min
		1501 - 2000 mm	20* boards / min	1501 - 2000 mm	20* boards / min
				2001 - 3000 mm	17* boards / min
Wings	0-100** mm	Wings	0-100** mm	Wings	0-100** mm

<sup>\*</sup> Using both deck board magazines

## Usage

Production of wooden decks for 4-way pallets. Can also be used for 2-way pallets, see options below.

## Function

Over and under boards are laid in their magazines from where they are fed to the nailing position. Two separated operations make it possible to position them individually. The two over board magazines allow two different kinds of boards to be used (different widths and / or quality). Nails are clinched, which means that they are bent and returned back up into the under board. This is done across fibre direction to give extra strength. We recommend 10-15 mm oversized nails to have enough length for them to reach back up into the under board. The finished deck is pushed forward by the deck behind.

The release function of boards from the over board magazines and the nail picking are pneumatic. All other operations, incl. individual nailing guns, are hydraulic and the machine has its own hydraulic unit. The machine is controlled and monitored by its own PLC via an operator's panel.

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 $<sup>^{\</sup>star\star}\text{In}$  the length of the over boards. Other dimensions of wings, contact IMH.





## **Nail dimensions**

IMH nail boxes can handle following nail dimensions. Each ordered nailbox will be set for one selected nail dimension.

Diameter 2.1 - 4.2 mm
Length 40 - 100 mm
Quality Machinery

**Electrical connections** 

Voltage 3 Phase 400 V 50 Hz
Main fuses 3 x 63 Ampere / Delay Action
Power consumption at 100% capacity 15 kWh

**Pneumatic connections** 

System pressure 6-10 bar
Nominal working pressure 6-7 bar
Air consumption at 100% capacity 250 L / min

## Operators side

To the right of the machine when looking in the production flow. The machine can be constructed to have the operator on the left side if needed.

Options
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Products Remarks

Super speed Over board capacity increased from 25 to 35 pcs / min (max 1400 mm under boards).

Extra space for nail storage.

Extra nail box and fast change over

Extra nailers

Extra space for nail storage.

Standard 1 pcs, max 3 pcs.

Standard 6 pcs, max 12 pcs.

Automated side feeding of over boards Removes 1 of 2 magazines. Side feeding can have more magazines added.

4 under board channels 2 center channels are individually, manually adjustable. 1 with own manual change over system.

5 under board channels The center channel is fixed.

2.5 channel sections per channel
 3.0 channel sections per channel
 4.0 channel sections per channel
 5.0 channel sections per channel
 6.0 channel sections per channel
 7.0 channel sections per channel
 8.0 channel sections per channel
 9.0 chann

2-way pallet option added on channels
 2-way pallet only
 Positioning over boards higher for 2-way under boards.
 No clinching plate included.

Hydraulic boom lifter Boom can be lifted faster. Recommended when 2-way pallet option has been added.

Extra long wing size of over boards Extended sliding bars for over board magazines (300 instead of 100 mm).

Pallet outfeed gripper Needed when channel conveyor is added after deck machine.

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