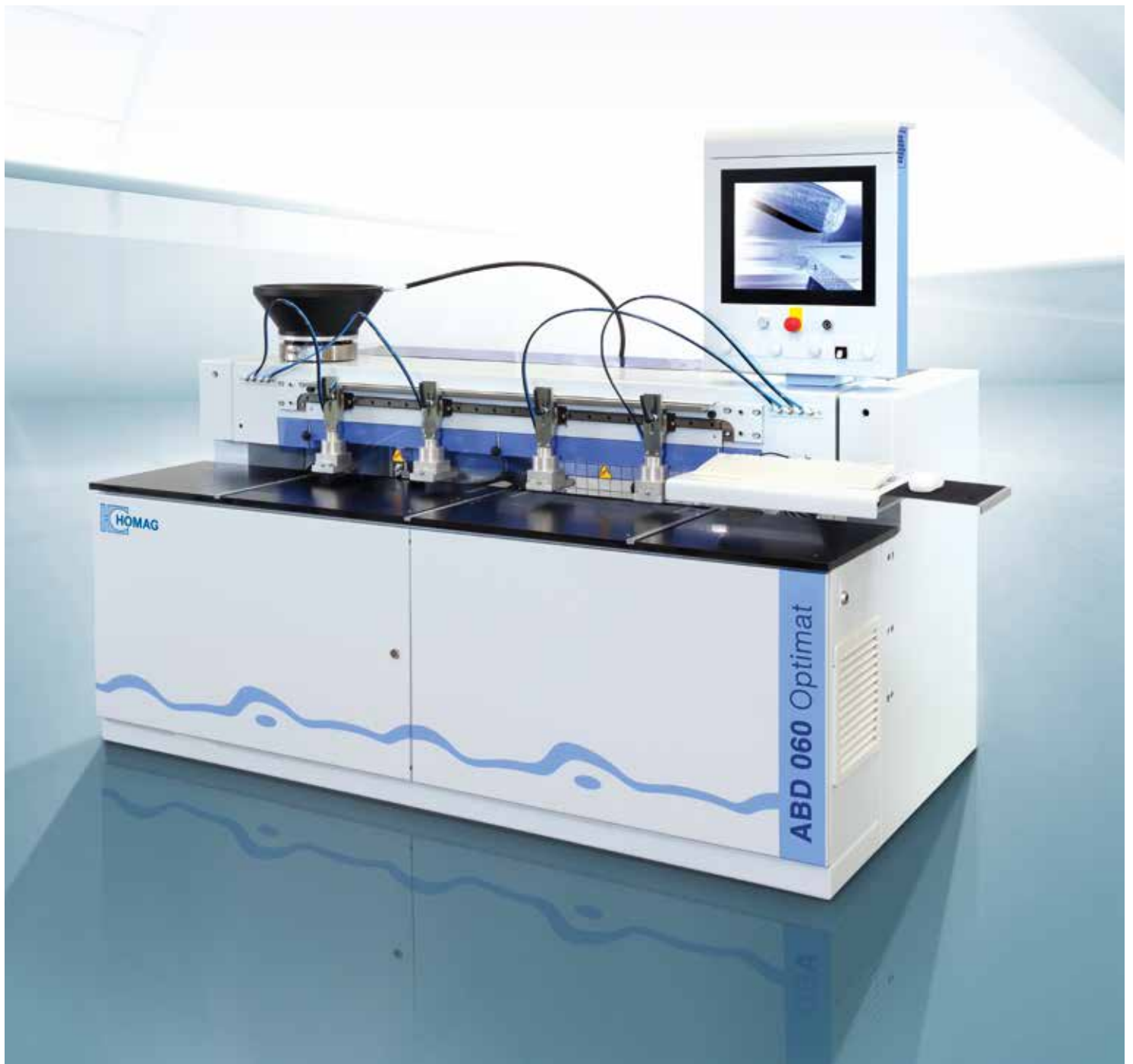


# ABD 050/060 Optimat CNC-Drilling and Dowel Inserting Machine







## Horizontal drilling and dowelling in a single machine

### The Result: **YOUR SOLUTION**

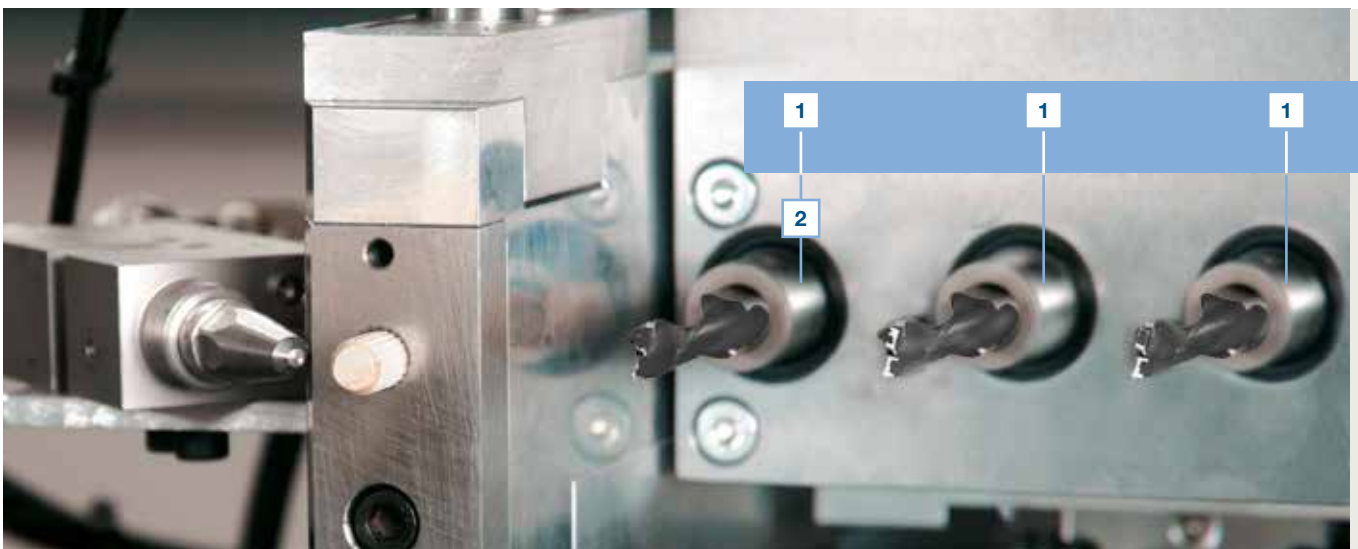
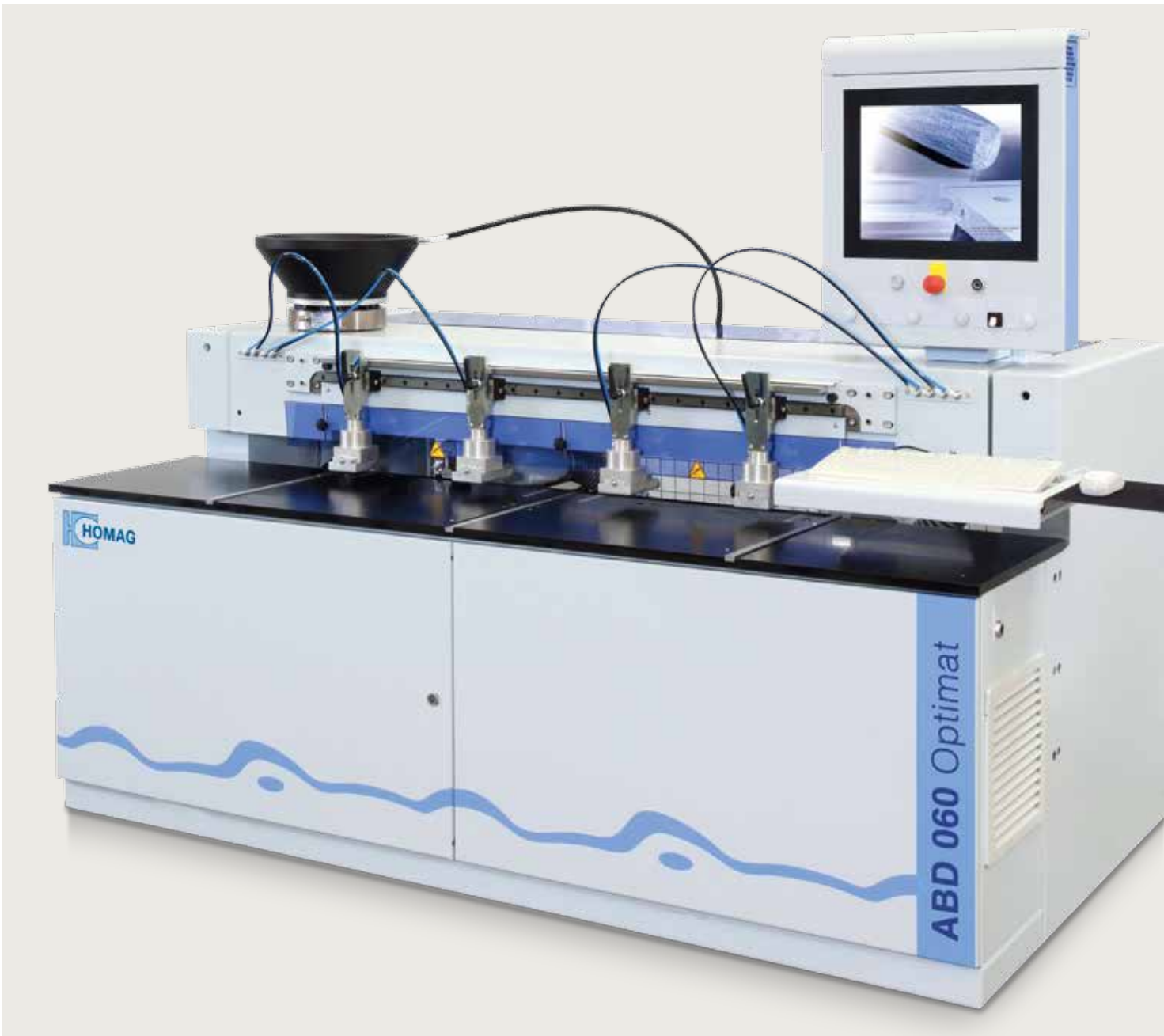
Whether as individual machine or as complementary product in connection with a CNC processing center – the ABD has got exactly two tasks: drilling and dowelling – making the machine more efficient than ever before.

Here you will find more: [www.homag.com](http://www.homag.com)

### Contents

- 04 ABD 050/060 Optimat | Highlights
- 06 Horizontal drilling and dowelling
- 08 Hardware – Software
- 09 Option – Office-Package
- 10 HOMAG LifeCycleServices
- 11 Technical Data





**Maximum workpiece dimension**

- ABD 050/12: 1250 mm
- ABD 050/28: 2800 mm
- ABD 060/12: 1250 mm
- ABD 060/28: 2800 mm

# ABD 050/060

**INCREDIBLY FAST...**

High-speed drilling and dowel insertion aggregate for accurate drill holes and precise positioning of dowels

**KEEPING A TIGHT GRIP...**

By using up to 8 clamping cylinders, adjustable to length and thickness, any workpiece is held firmly

**BENEFICIAL...**

The lowerable center stop allows for flexible handling of workpieces thereby ensuring an optimum two-field operation

**PROVIDES SILENCE...**

Heavy and sturdy machine bed made of SORB TECH for vibration-free operation (up to 2.2 t)

**ESTABLISHED ALL OVER THE WORLD...**

The powerful HOMAG Group software woodWOP is already included as a standard

**EFFICIENT...**

The quiet running low-pressure glue pump in a compact design

**CONFIGURATION**

**1 ABD 060**  
3 spindles individually selectable

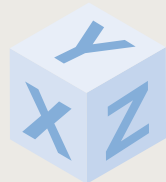
**2 ABD 050**  
1 spindle individually selectable

Pict. left:  
**High-speed dowelling and drilling unit**  
For precise processing while drilling and dowelling horizontally



**ABD 060**  
CNC-controlled:  
X, Y and Z axes

1



**ABD 050**  
CNC-controlled: X axes  
Manually adjustable: Y / Z axes

2



## Horizontal drilling and dowelling

**WITH THE ABD 050/060 YOU ARE PROVIDED WITH TOP-QUALITY EQUIPMENT FROM THE VERY BEGINNING.** Excellent processing quality is guaranteed in the long term by including fundamental technology already in the standard.

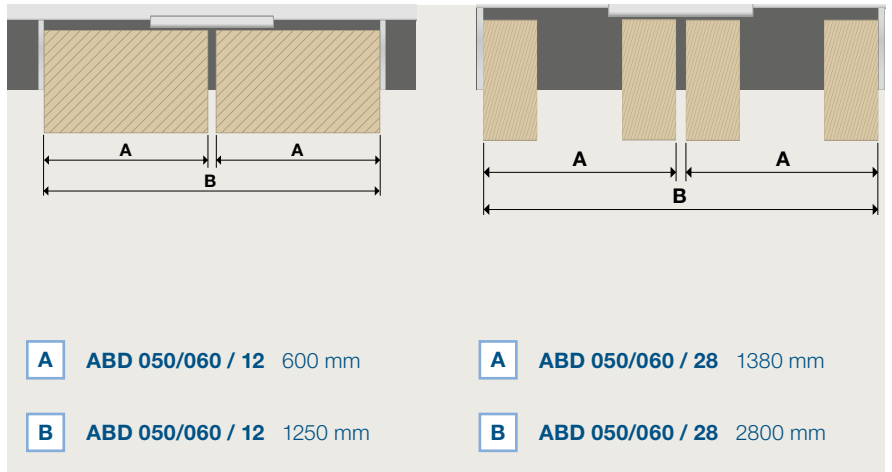
**Clamping cylinder**

- Manually length and thickness adjustable
- 4 Clamping cylinders ABD 050/060/12,  
8 Clamping cylinders ABD 050/060/28



**Alternating operation**

- Depending on the workpiece dimensions the ABD Optimats can be fed with up to 4 workpieces.



**Central stop and lateral stop**

- Pneumatically lowerabler



**Low-pressure glue pump 1:1**

- Double membrane pump 1:1, low-noise level, compact and with low energy consumption



**Vibrating conveyor**

- For automatic dowel infeed of standard dowels of 8 x 30 mm or 8 x 35 mm



# Software

**WITH THIS SOFTWARE PACKAGE YOU ARE »READY TO RACE«.** You will receive one of the most established CNC-programming systems, the woodWOP software, which has proven itself by more than 30.000 installations worldwide.

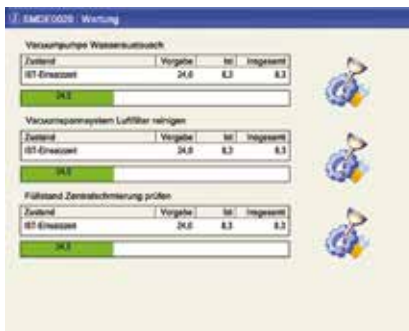
**Please use our website:  
Worldwide largest forum for woodWOP:**

**Free Download of woodWOP-components:  
[www.homag.com/Produkte/Software](http://www.homag.com/Produkte/Software)**



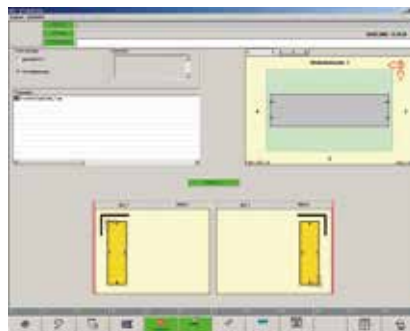
### powerControl

- 17" TFT monitor
- Provision of teleservice capability
- USB frontside bus
- Ethernet connection 10/100 Mbit



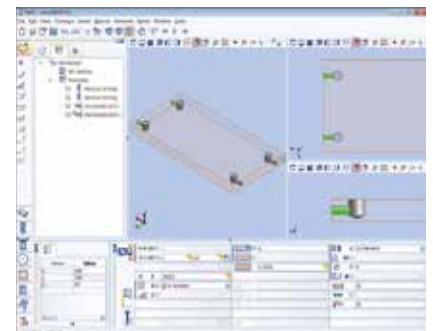
### Machine Data Recording

- Collecting and evaluating machine states via time meter and event meter



### ABD Work

- Modern and simple control of main machine functions through soft keys
- Graphical loading



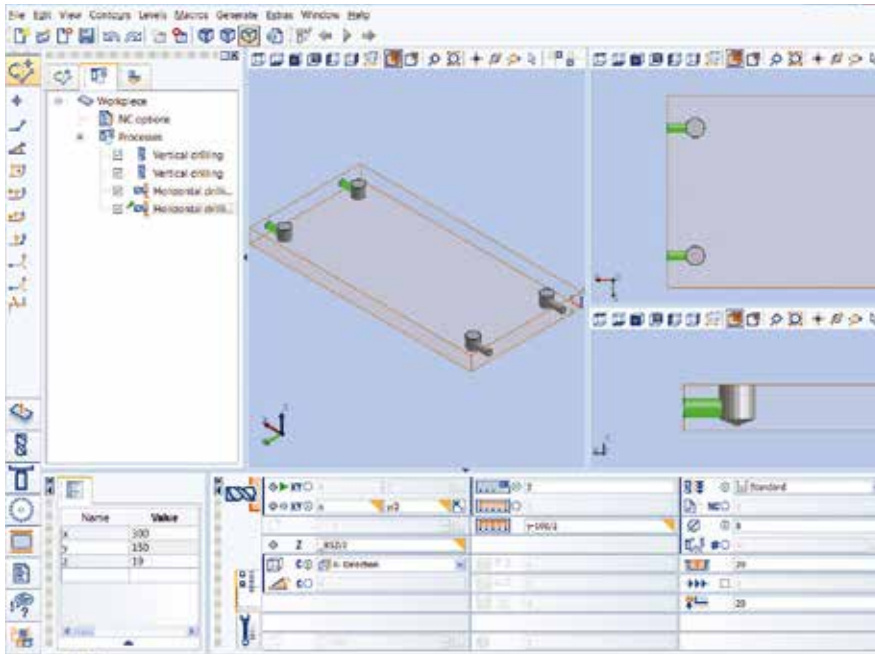
### woodWOP | License „Machine“

- Modern software based on Windows®
- More than 30,000 installations worldwide



# Option – Office-Package

**CONTENT:** woodWOP License „Process Planning Workplace“ | woodWOP DXF Basic | Bar code link | woodAssembler



## woodWOP | License „Process Planning Workplace“

- Modern software based on Windows®
- More than 30,000 installations worldwide



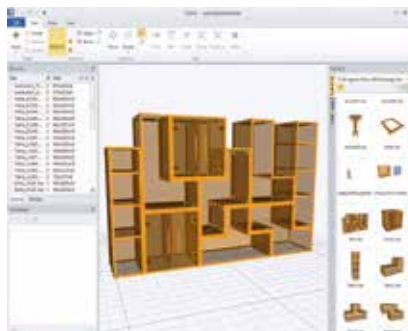
## woodWOP DXF Basic

- Interface for CAD-Data Import
- Basis to generate woodWOP programs



## Bar code link (optional)

- Barcodescanner / -software
- Supported barcodes: 1D – Barode, 2D – Data Matrix Code
- Every workpiece is exactly identified for the further workpiece flow



## woodAssembler

- To visualize woodWOP-programs (MPR) in 3D
- Enables the construction of individual workpieces to finished objects



1,200



Service employees around the world.

650

processed spare parts orders / day.

85,2%

less on-site-services through successful remote diagnosis.

>150.000

machines, all electronically documented in 28 different languages – in eParts

## HOMAG Group LifeCycleServices

The sale of our machines comes with all-in optimum service backup and individual advice. We support you with service innovations and products which are especially tailored to your requirements. With short response times and fast customer solutions we guarantee consistently high availability and economical production – over the entire life cycle of your machine.



### Remote Service

- Hotline support via remote diagnosis regarding control, mechanics and process technology. Thus the on-site service can be reduced by 85.2 %!
- Mobile applications such as ServiceBoard reduce the costs through fast help in case of troubles by mobile live video diagnosis, online service message and the online spare parts shop eParts



### Spare Part Service

- Identify, request and order spare parts around the clock via [www.eParts.de](http://www.eParts.de)
- Local availability of parts offered by our sales and service companies as well as sales and service partners all over the world
- Reduction of downtimes through defined spare parts and wear parts kits



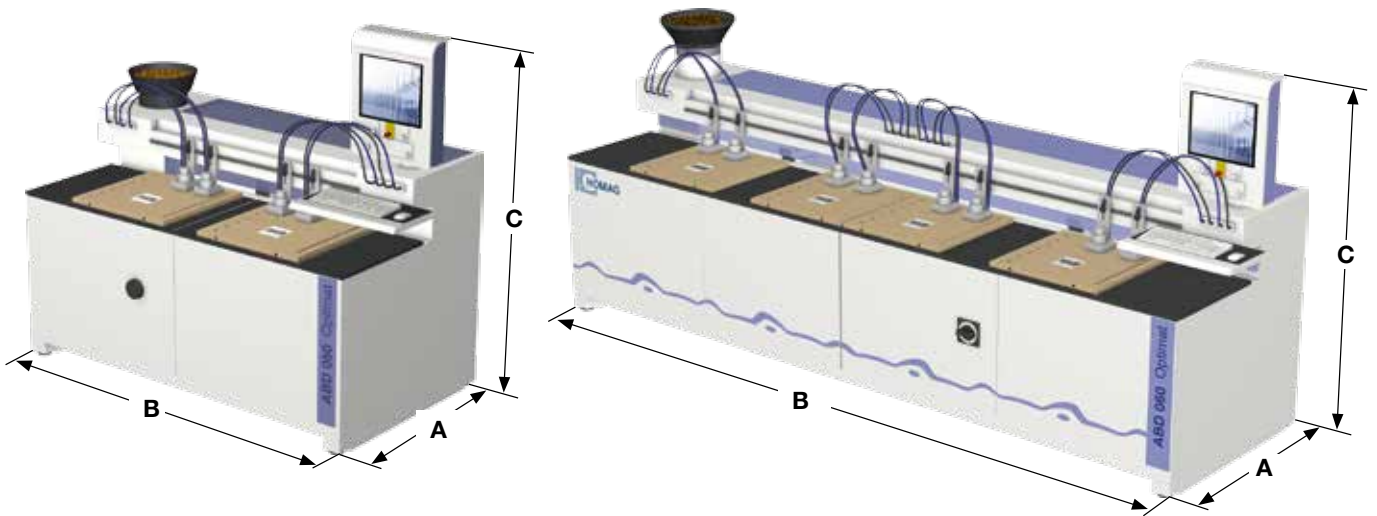
### Field Service

- Increased machine availability and product quality by certified service staff
- Regular checks through maintenance / inspection guarantee the highest quality of your products
- We offer you the highest availability of technicians in order to reduce downtimes in case of unpredictable troubles



Handling example

## Technical data



### TECHNICAL DATA HOMAG ABD 050/060

DIMENSIONS		ABD 050/12	ABD 050/28	ABD 060/12	ABD 060/28
A	mm / inch	1436 / 56.6	1436 / 56.6	1436 / 56.6	1436 / 56.6
B	mm / inch	2568 / 101.1	4118 / 162.1	2568 / 101.1	4118 / 162.1
C	mm / inch	2012 / 79.2	2012 / 79.2	2012 / 79.2	2012 / 79.2

WORKPIECE DIMENSIONS		ABD 050/12	ABD 050/28	ABD 060/12	ABD 060/28
Length	mm	20 – 1250	20 – 2800	20 – 1250	20 – 2800
Width	mm	20 – 800	20 – 800	20 – 800	20 – 800
Thickness	mm	10 – 60	10 – 60	10 – 60	10 – 60
Compressed air connection	inch	R 1/2"	R 1/2"	R 1/2"	R 1/2"
Compressed air supply	bar	min. 7	min. 7	min. 7	min. 7
Total connected voltage	kW	approx. 4.5	approx. 4.5	approx. 4.5	approx. 4.5
Extraction connection	mm	Ø 80	Ø 80	Ø 80	Ø 80
Extraction speed	m/sec.	30	30	30	30
Supply voltage	A	10	10	10	10
Total machine weight	kg	approx. 1100	approx. 2200	approx. 1100	approx. 2200

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Technology. A campaign of  
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