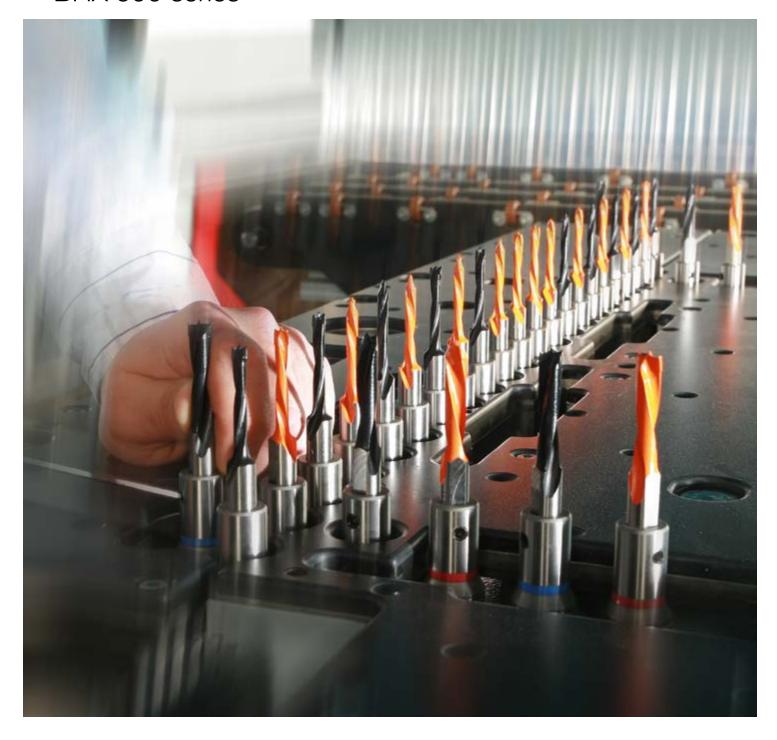


## CNC-Processing Centers BHX 500 series







# BHX 500 series – Drilling just for professionals... The Result: **YOUR SOLUTION**

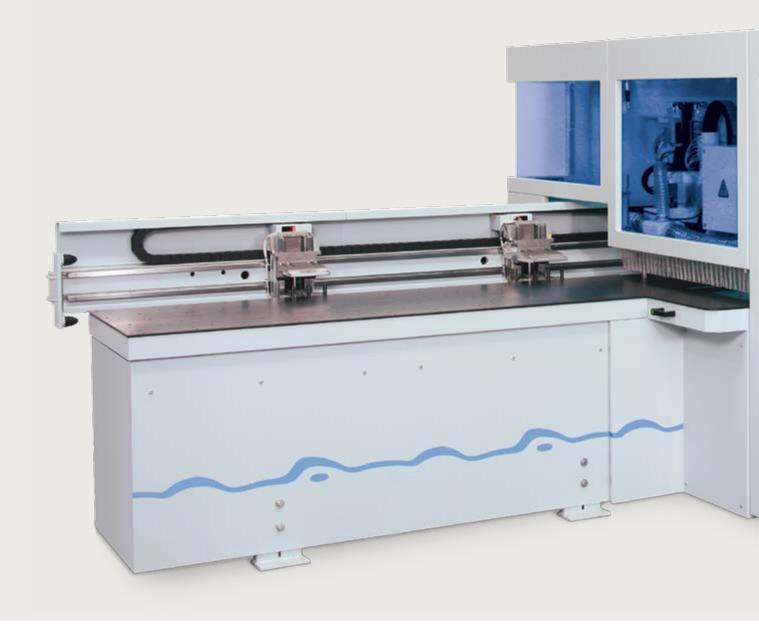
Never before was the WEEKE drilling competence packaged in such a clear, competent and innovative way. For years, the BHX 500 series has impressed by speed and precision – in workpiece handling as well as in processing.

Every drill is executed with an extreme repeat accuracy. The same applies to routing and grooving operations. The workpiece surfaces are perfectly protected despite extremely high processing speeds. The possibility to process two workpieces simultaneously leads to extreme efficiency and the varied connection possibilities of the machine provide extreme flexibility. The result: CNC-Xtreme. Finest coordinated technology which can be combined.

Here you will find more: www.homag.com

#### **Contents**

- **04** BHX 500 | BHX 500/D
- **06** BHX 560 | BHX 560/D
- os 3D-model
- 10 All inclusive Hardware
- 12 All inclusive Software
- 13 Options
- 14 Configuration
- 16 Connection possibilities
- 18 LifeCycleServices
- 19 Technical data





The optional dowel inserting tools ensure the flexibility even with low batch sizes. The BHX 500/D has each one dowel inserting tool at the left and right hand side of the aggregate.

## BHX 500 | BHX 500/D - There's no limit to flexibility...

**UP TO 104 SPINDLES** can provide precise processing in any fields of application. Choose from a clever variety of equipments the correct one for your application. With the corresponding equipment even acoustic panels can be professionally and quickly produced – e.g. 3.400 drills in less than 3 minutes. And when horizontal drilling is required... no problem for the BHX 500/D.



#### LIKE A CHAMELEON...

Never was a processing center more flexible regarding its connection possibilities – whether robot or gantry feeder, right or left hand side, manual or automated

#### **INCREDIBLY FAST...**

A travel speed of up to 130 m/min provides a rapid execution of the tasks

#### **EVERYTHING UNDER CONTROL...**

Two CNC-controlled clamping devices ensure permanently firmand precise positioning of the workpieces – regardless of the speed

#### **EASY HANDLING...**

Even a workpiece thickness of up to 80 mm (2 x 40 mm) is easy to handle

#### **CYCLES ARE PROTECTED...**

Thickness control and length measuring ensure safe process cycles

#### PRECISE IN DEPTH...

The patented spindle clamping provides a permanently exact drilling depth for all drilling operations

#### **CONSTANTLY AT TOP LEVEL...**

The closed straight guiding system is protected against dust and dirt and thus very durable

#### **BEING SMOOTH - ENSURING QUALITY...**

The Smooth-Pressure System© provides for a protecting air cushion below the workpiece and thus for a high-quality workpiece handling



## BHX 560 | BHX 560/D – Processing from six sides

#### **COMPLETE PROCESSING...**

The aggregate for processing the 6th side offers the complete processing of the workpiece. Thus routing operations as well as horizotal drilling can be carried out as well as corner notching by means of a saw...

#### LIKE A CHAMELEON...

Never was a processing center more flexible regarding its connection possibilities – whether robot or gantry feeder, right or left hand side, manual or automated





#### Variant 1:

Drilling aggregate, 3 spindles

#### Variant 2:

Corner notching saw (0° / 90° / 180°)

#### Variant 3:

Routing aggregate, 2 spindles



Option: Precise dowelling aggregate

#### **INCREDIBLY FAST...**

A travel speed of up to 130 m/min provides a rapid execution of the tasksn

#### **EVERYTHING UNDER CONTROL...**

Two CNC-controlled clamping devices ensure permanently firm and precise positioning of the workpieces – regardless of the speed

#### **EASY HANDLING...**

Even a workpiece thickness of up to 80 mm (2 x 40 mm) is easy to handle

#### **CYCLES ARE PROTECTED...**

Thickness control and length measuring ensure safe process cycles

#### PRECISE IN DEPTH...

The patented spindle clamping provides a permanently exact drilling depth for all drilling operations

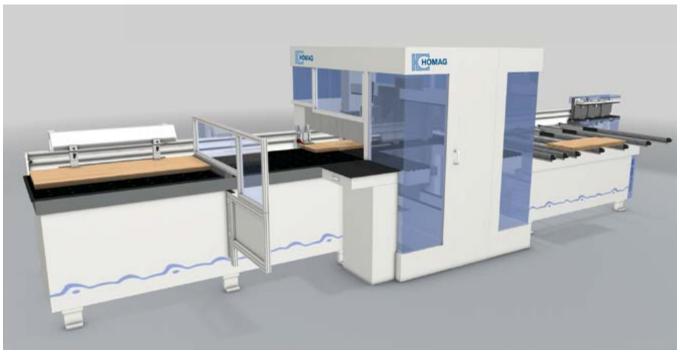
#### CONSTANTLY AT TOP LEVEL...

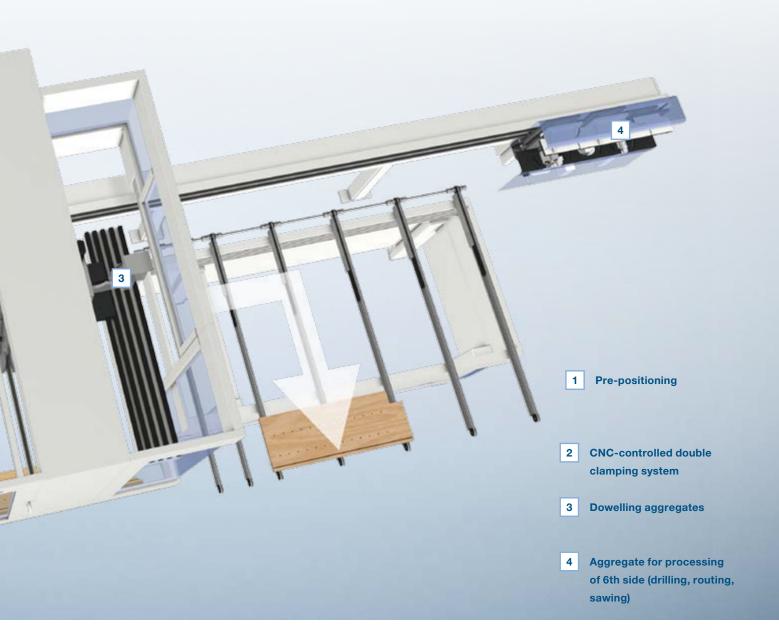
The closed straight guiding system is protected against dust and dirt and thus very durable

#### **BEING SMOOTH - ENSURING QUALITY...**

The Smooth-Pressure System© provides for a protecting air cushion below the workpiece and thus for a high-quality workpiece handling









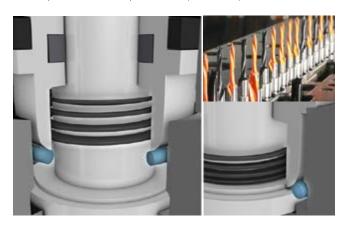






#### **CNC-controlled clamping system**

- Quick and precise no setting times
- Integrated measuring system for workpiece length
- Integrated control system for workpiece thickness
- Workpiece thickness up to 80 mm (2 x 40 mm)



#### Automatic spindle clamping system

- Patented system
- Always exactly the same drilling depth irrespective of materials
- Constant quality by high repeat accuracy



#### TBO-System©

- Clamping device opens at top and at bottom no contact with the workpiece
- No friction points



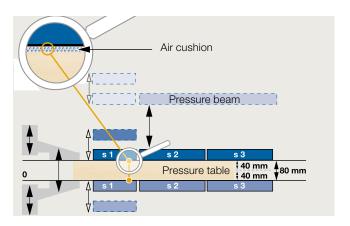
#### Divided pressure board beam

 The front part of the beam can be moved upwards and downwards for easy processing at the zero line



#### "The simple way"

- As required, the operator gets fast and easy access to the processing aggregates
- Cleaning and maintenance tasks are easier to handle



#### Smooth-Pressure-System©

- Pressure beam and pressure table create a small, but very solid air cushion
- Optimal and smooth feeding of workpieces
- Controlled air consumption

### All inclusive - Software

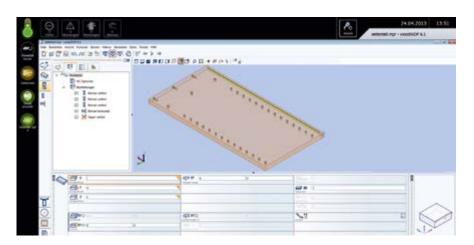
POWERTOUCH IS THE LATEST OPERATING PHILOSOPHY OF THE HOMAG GROUP: SIMPLE, UNIFORM, ERGONOMICAL, EVOLUTIONARY. The new system unites design with functionality in a totally new user interface.

At the focus of this solution is a large multi-touch monitor in widescreen format, which is used to control machine functions by direct touch contact. The entire user interface has been optimized for touch operation and offers an array of help and assistance functions designed to radically simplify the work experience. Standardized control elements and software modules ensure that all HOMAG Group machines

can be operated in the same way using powerTouch. They differ only in terms of a few machine-specific details.

This not only simplifies the operation of different machines, but also makes for greater efficiency by significantly reducing time for servicing and training.



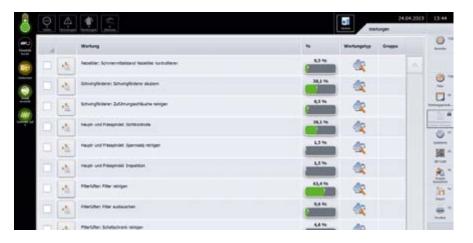


#### powerControl with powerTouch

- 21,5" Full-HD multitouch display with wide screen 16:9
- Front USB interface
- Ethernet connection 10/100 Mbit

#### woodWOP

- Modern software based on Windows<sup>®</sup>
- More than 30.000 installations worldwide



#### **Machine Data Recording Basic**

Collecting and evaluating machine states via time meter and event meter

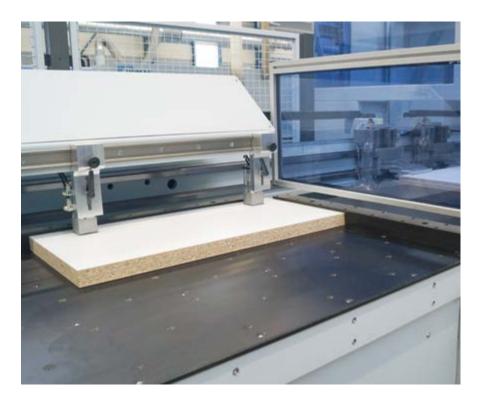


#### woodWOP DXF Basic

- Interface for CAD data import
- Basis to generate woodWOP programs

## Additional equipment – Options

**WITH THIS ADDITIONAL EQUIPMENT** specially tailored to the BHX 500 series you can further optimise and automate your machine...





#### Horizontal special buffer system

- For manual feeding and removal of workpieces
- Higher buffer capacity on relatively small base area

#### **Pre-positioning**

- Fast and easy automation of the process chain
- Easy handling by fence guidance
- Safe positioning by clamping cylinder



#### **Barcode connection**

- Barcode scanner / software
- Supported barcodes: 1D Barcode | 2D Data Matrix Code
- Every workpiece is excactly identified for the further workpiece flow

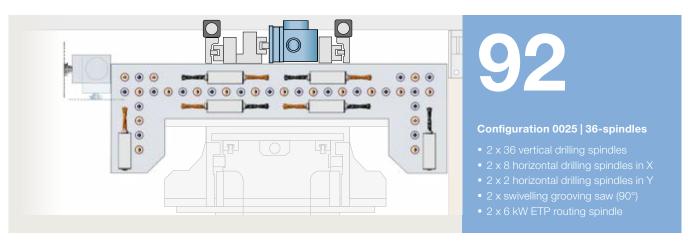


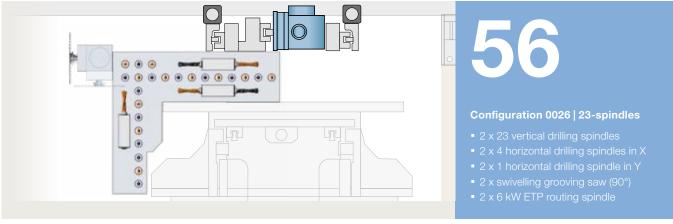
#### Air-conditioning

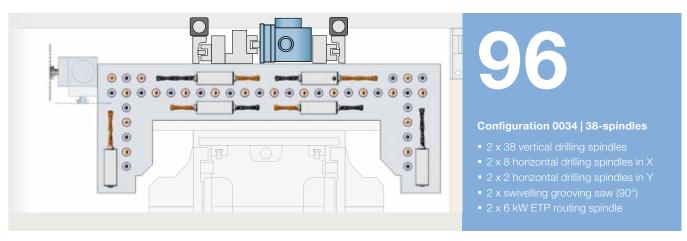
- Air-conditioned switch cabinet
- Provides permanently solid temperatures even under challenging climatic conditions – continuous system protection

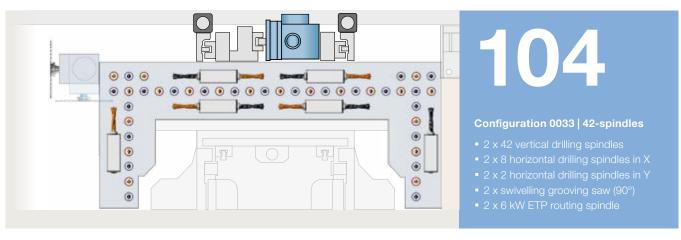
## Configuration and equipment

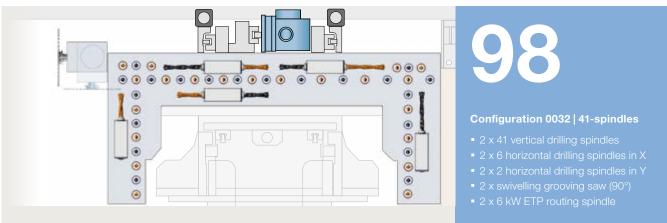
CLOSE TO PERFECTION! THE CONFIGURATION VARIETY OF THE DRILLING EQUIPMENT FOR THE BHX 500 SERIES PROVIDES ALL POSSIBILITIES REGARDING YOUR REQUIREMENTS.

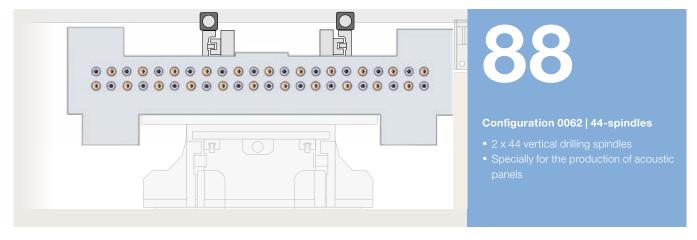


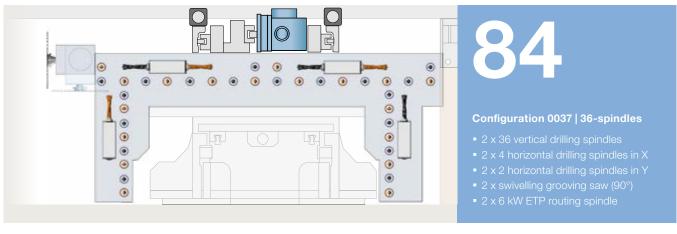








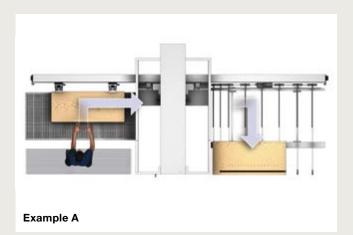


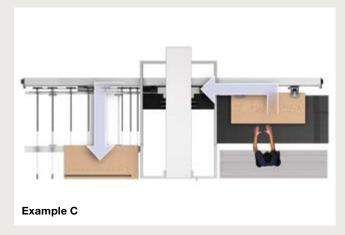


## Discover the BHX connection possibilities – at least one is for you...

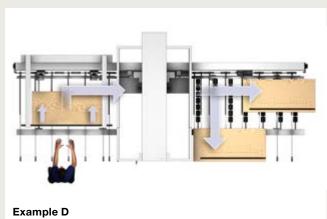
**LIKE A CHAMELEON THE BHX 500 SERIES HARMONICALLY ADJUSTS TO THE ENVIRONMENT.** Here is an excerpt of our most established versions from a range of connection possibilities. All possibilities from manual feeding up to fully-automatic processes are provided.

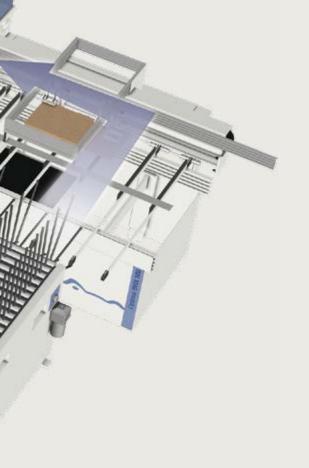


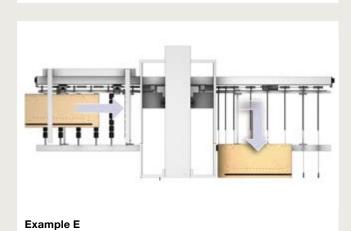


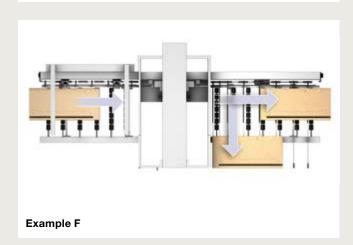














1,200



Service employees around the world

85.2 %

less on-site-services through successful remote diagnosis

650

processed spare parts orders / day

>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**

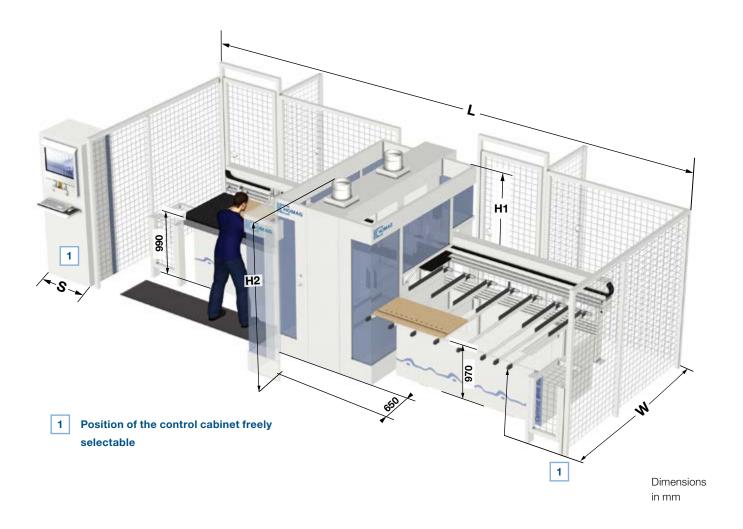
- Identify, request and order spare parts around the clock via www.eParts.de
- Local availability of parts offered by our sales and service companies as well as sales and service partners all over the world
- Reduction of downtimes through defined spare parts and wear parts kits



#### Field Service

- Increased machine availability and product quality by certified service staff
- Regular checks through maintanance / 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

## Technical data



SETTING UP DIMENSIONS		BHX 500	BHX 500/D	BHX 560	BHX 560/D
L	mm / inch	<b>7300</b> / 287.4	<b>8050</b> / 316.9	<b>9250 /</b> 364.2	<b>9650</b> / 379.9
W	mm / inch	<b>3850</b> / 151.6	<b>4750</b> / 187	<b>3850</b> / 151.6	<b>4750</b> / 187
H1	mm / inch	<b>2100</b> / 82.7	<b>2100</b> / 82.7	<b>2100</b> / 82.7	<b>2100</b> / 82.7
H2	mm / inch	<b>2800</b> / 110.2	<b>2800</b> / 110.2	<b>2800</b> / 110.2	<b>2800</b> / 110.2
s	mm / inch	<b>1000 x 800</b> / 39.4 x 31.5	<b>1000 x 800</b> / 39.4 x 31.5	<b>2000 x 600</b> / 78.7 x 23.6	<b>2000 x 600 /</b> 78.7 x 23.6

TECHNICAL DATA		BHX 500	BHX 500/D	BHX 560	BHX 560/D
Workpiece feeding dimensions	mm	2500 x 1300	2500 x 1300	2500 x 1300	2500 x 1300
Workpiece dimensions	mm	2500 x 1000	2500 x 1000	2500 x 1000	2500 x 1000
Travel range of the X - Y - Z-axis	m/min	138 - 80 - 50	138 - 80 - 50	138 - 80 - 50	138 - 80 - 50
Compressed air connection	inch	1	1x1 + 1x½	1	1x1 + 1x½
Compressed air required	bar	7	7	7	7
Dust extraction port	mm	2x Ø 280	2x Ø 280	2x Ø 280   1x Ø 160	2x Ø 280   1x Ø 160
Dust extraction volume	m³/h	min. 2x 4450	min. 2x 4450	min. 2x 4450	min. 2x 4450
Electrical power – total connection load	kW	19.5	19.5	23.5	23.5
Total machine weight	kg	approx. 5500	approx. 5700	approx. 6000	approx. 6200

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