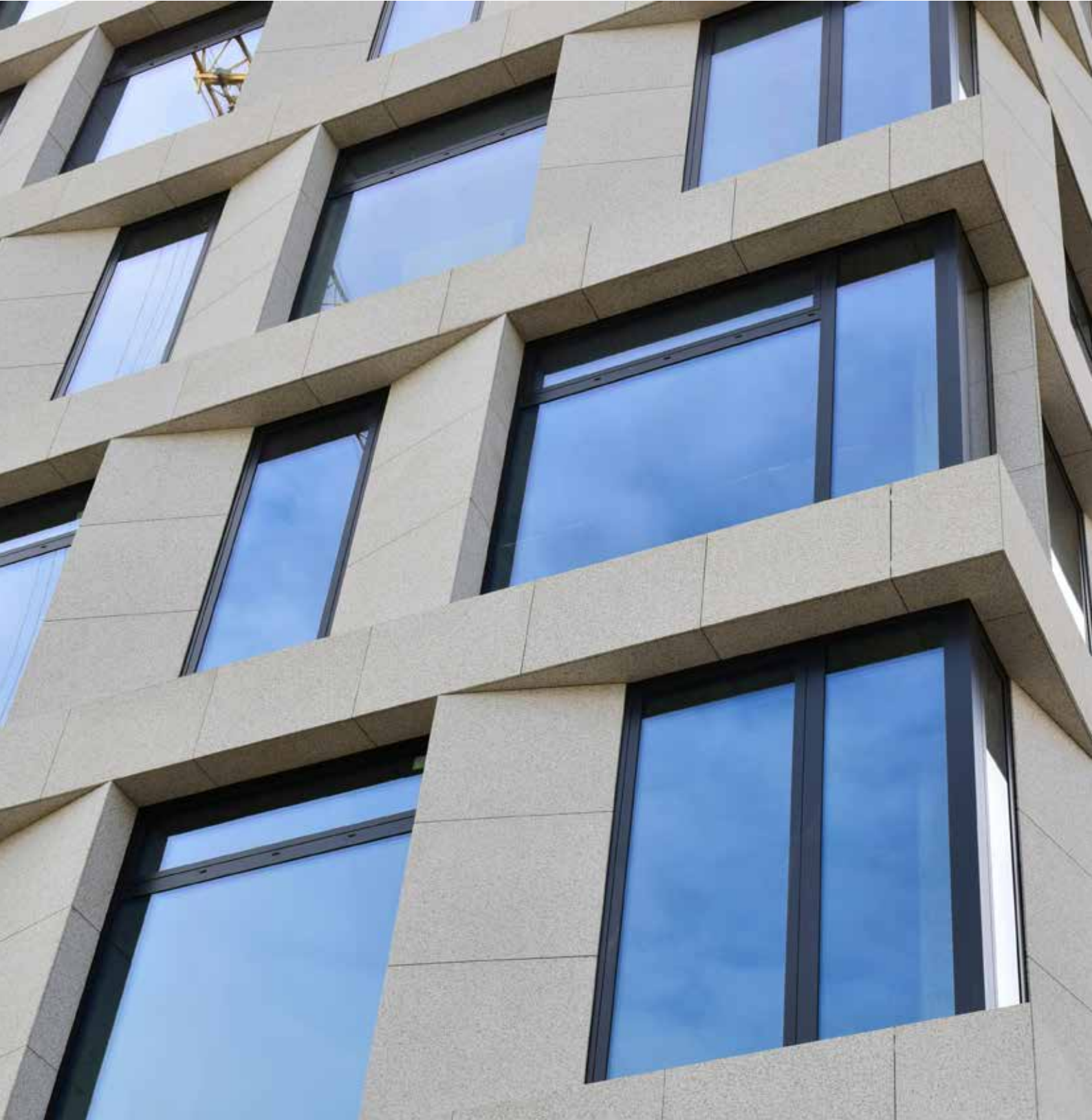


BILDA[®]

THE EXPERT CLADDING TECHNOLOGY





BILDA Overview

BILDA is an innovative technology for assembly of structures and mechanical fixing of cladding panels which comprises the following basic components:

BILD-ing kit. A modular set of square profiles, Q-channelled at corners, and versatile elements that can form various structures through quick dovetail coupling – from flat grids to spatial constructions and entire independent structures. These can incorporate mechanically fixed layers to form cladding skins for facades or other applications.

BILDA components are produced from aluminium alloy EN AW 6063-T6.

Cladding method. A precision slot technique that allows for innovative slot-and-blade attachment of the skin elements to the substructure. The precision slot is a minimally invasive cut in the side of the panels that spares their thickness and their strength, respectively. The blades of the fixing clips tie back the panels by penetrating the slots. The 'slot-and-blade' connection also allows for even distribution of stress from horizontal load.

Know-how. Assembly rules, detailing, technical data, instructions and methodology, precision slot milling guidelines – all developed through study, modelling, testing and practice.

bilda.net

Slotting machinery. Patented machinery and tools for milling the precision mortise slots in panels by a low-cost cutting process. A range of efficient rigs for the factory and construction site as well as handheld machines is available.

Features & Advantages

Versatility. The modular set of elements can be used to just cover walls and create simple cladding layers. It can also help model the cladding layer in a 'bas relief' manner or create 'haut relief' features and façade elements.

Low cost. BILDA accomplishes structures of excellent strength-to-cost ratio due to its integrity. Labour time is saved through quick connections. Panel thickness may be reduced via the flat precision slot. Slots are the easiest cladding panel mortise due to machining through cutting.

Universality. A wide range of fixing clips of different size and shape can support panels from all materials, of different thickness and configuration. The clips, in addition to the preferred 'slot-and-blade' method, can handle all known fixing methods - the 'hole-and-dowel', 'undercut' of different types, etc. These can be employed next to each other.

Regulations. BILDA conforms to EN 1990: Eurocode, EN 1991: Eurocode 1, EN 1999: Eurocode 9, DIN 18516-1: 2010-06

Vertical Strut Assembly

Vertical strut assembly is designated mainly for 'landscape' orientation of the cladding panels.



Horizontal Strut Assembly

Horizontal strut assembly is designated mainly for 'portrait' orientation of the cladding panels.



Slotting & Drilling Rig

Description

The slotting rig makes narrow half-moon precision slots in the sides of facade panels of various materials. The slots are inherent to BILDA cladding system which comprises a special grid substructure and interface components. The machine is designed for productivity and ease of use. It can easily be converted into a drilling rig for holes (in the back or sides of the panel) with a diameter of 6, 8, 10 mm.

Parts

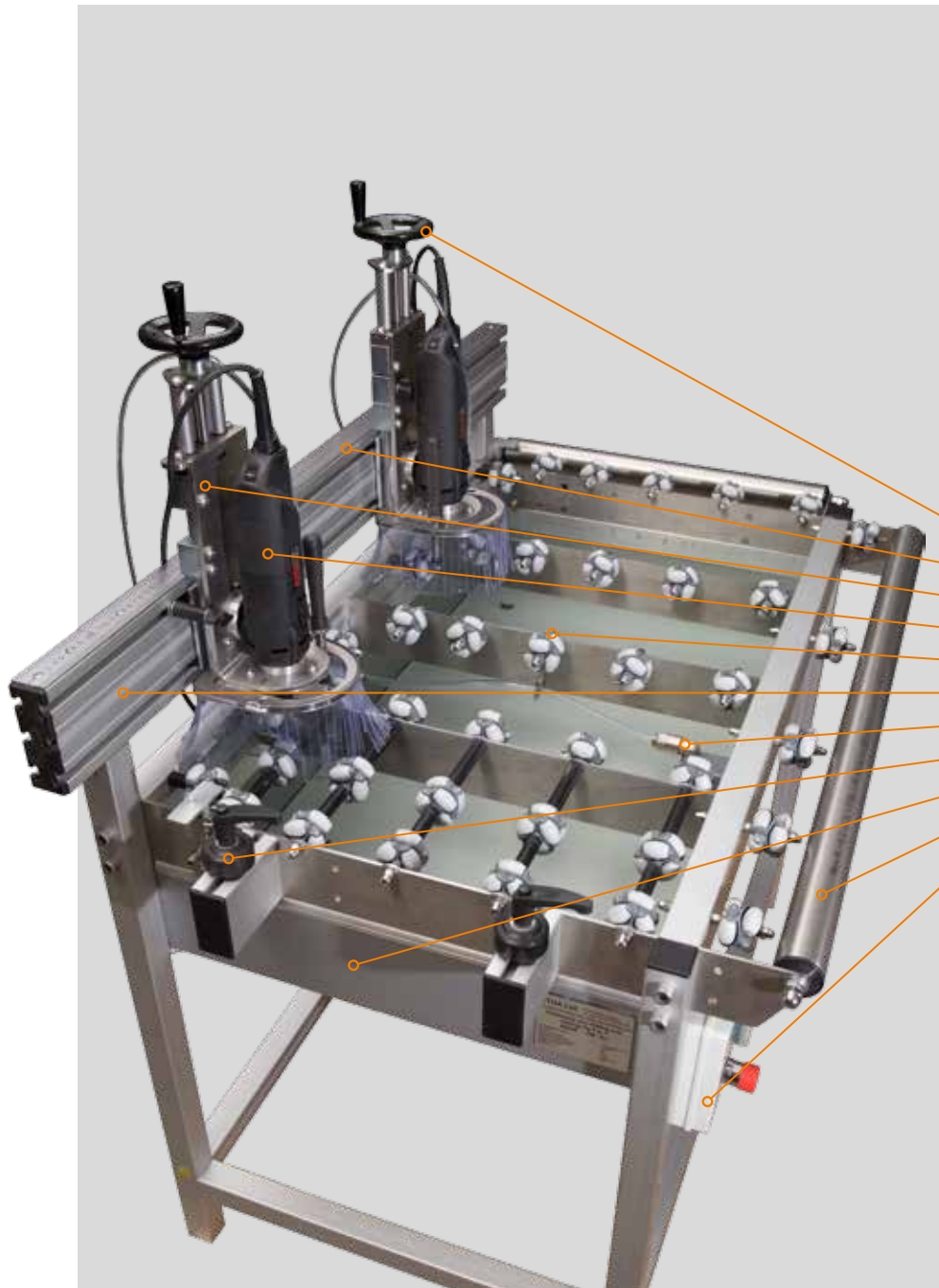
- Height Adjustment Screw
- Gauge Line
- Motor Holder
- Motor
- Multidirectional Rolls
- Motor Rail
- Water Pump
- Limitation Wheel
- Water Tank
- Guide Roller
- Control Panel

Features

- Solid and robust frame of corrosion resistant aluminium alloys and stainless steel
- Multidirectional table rolls for smooth rotation of panels
- Highly efficient, fast slotting diamond heads and drilling diamond drill bits
- Horizontal and vertical adjustment of the slotting / drilling heads to accommodate varying thickness of all types of panels
- Limitation wheels and guide rollers
- Brushed and brushless electric motor versions available

Advantages

- Easy to operate without any special technical training of the operator
- Light, compact and easy to transport
- Slots / holes are with precise and clean finish
- High performance generates fast return on initial investment
- Universal application for various types of panels
- Easy maintenance and mobility



Technical Data

Model	BSD.R1	BSD.R2	BSD.R3
DIMS (L*W*H)	1160*760*1050 mm	1160*920*1050 mm	1500*920*1050 mm
Panel DIMS (W*H)	max. 1800*1000 mm	max. 1800*1200 mm	max. 2200*1200 mm
Type	Standard or Detachable		
Power Supply	220 V / 10 A ~50/60 Hz		
Normal Working	min. 0°C, max. 35°C		
Speed of the Motor	from 5000 min ⁻¹ to 25 000 min ⁻¹		
Power Rating	2200 W		
Net Weight	51 kg	58 kg	67 kg
Slotting Disc	min. Ø40 mm, max. Ø70 mm		
Drill Bit	Ø6 mm, Ø8 mm, Ø10 mm, Ø12 mm		
Power Cord Length	5 m		
Variable Speed	Yes		
Collet Capacity	ER16 collet Ø6 mm, Ø8 mm		
Panel Thickness	min. 8 mm, max. 60 mm		
Slot Thickness	min. 2 mm, max. 10 mm		
Drilling Depth	25–45 mm (Horizontal/Side), 6–15 mm (Vertical/Back)		

Handheld Slotting Machine

Description

The handheld slotting machine makes narrow half-moon precision slots in the sides of façade panels of various materials. The slots are inherent to BILDA cladding system. The machine is designed for productivity and ease of use. It is guided by hand and incorporates an easy to use visual guiding aid.

Features

- Solid and robust frame made from corrosion resistant materials
- Base plate for easy guiding of the machine over the surface of the cladding panel
- Highly efficient, fast slotting diamond discs
- Vertical adjustment of the motor to accommodate varying thickness of all types of panels
- Easy to adjust visual guiding aid for feeding parallel to the sides of the cladding panel

Advantages

- Easy to operate without any special technical training of the operator
- Stable and easy to use guiding system
- Light, compact and easily transportable
- Slots are produced with precise and clean finish
- High performance generates fast return on initial investment
- Universal application for various types of façade panels
- Equipped with a compact pump
- Easy maintenance and mobility



Technical Data

Model	BSD.H1
Power Supply	220 V / 5 A ~50/60 Hz
Normal Working	min. 0°C, max. 35°C
Speed of the Motor	from 5000 min ⁻¹ to 25 000 min ⁻¹
Power Rating of the Motor	1050 W
Power Rating of the Water Pump	25 W
Net Weight	4.7 kg
Slotting Disc	min. Ø40 mm, max. Ø70 mm
Power Cord Length	5 m
Variable Speed	Yes
Collet Capacity	ER16 collet Ø6 mm, Ø8 mm
Panel Thickness	min. 8 mm, max. 60 mm
Slot Thickness	min. 2 mm, max. 10 mm

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