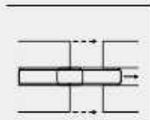
Classic X cordless

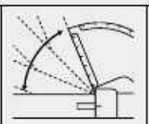
The original biscuit joiner – precise and cordless



Features



Highest precision



Versatile attachment option



Cordless freedom

Classic X cordless is the original, battery-powered biscuit joiner from the inventor of the Lamello system for cutting the 4 mm groove. The proven and well-designed Classic X cordless is fast and versatile in its use and the basis for the wide range of connectors with fixed, self-clamping and detachable solutions. Precision in every component leads to perfect accuracy of the workpieces, and the cordless freedom means even more flexible application. The multifunctional stop square allows perfect mitres by applying on the exterior surface and stabilises the machine in vertical position.



Articles



Classic X cordless biscuit joiner	Art. No.
In systainer, incl. 2 batteries and charger	**101701DES**
In systainer, without batteries, without charger	**101700DES**
In carton, without batteries, without charger	**101700DEK**

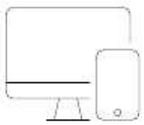


Kit contains

Classic X cordless biscuit joiner, 2 × battery pack 18 V, LiHD 4.0 Ah*, battery charger ASC 55*, suction stub 36 mm, stop square, spacer 4 mm, dust bag, tool set

** Only included in art. No. 101701S*

www.lamello

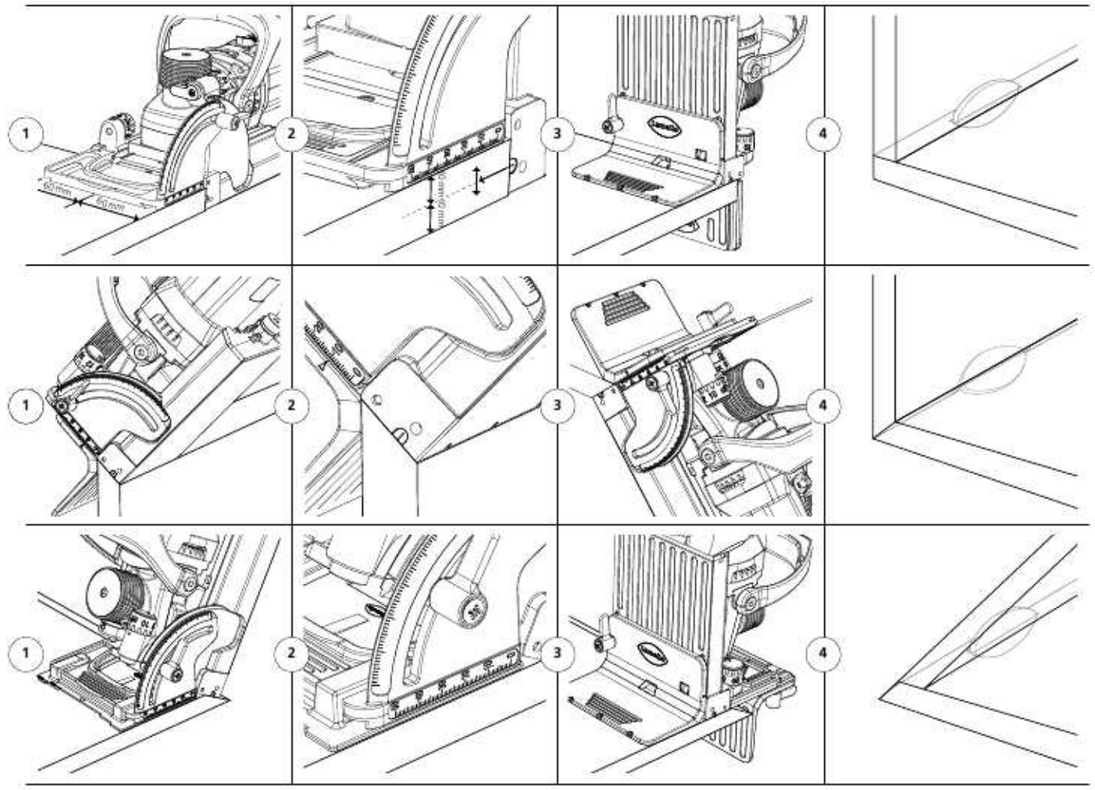


Experience Classic X cordless live and receive comprehensive product information!



More information regarding the battery system on **PAGES 54–57**

Function



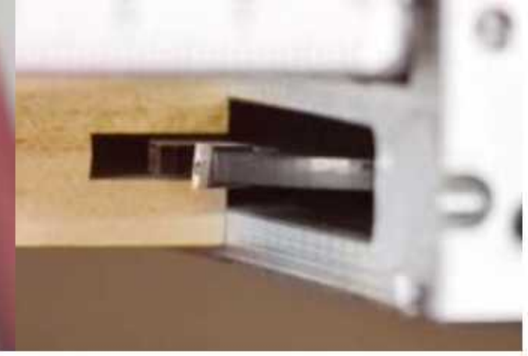
Technical data

Battery voltage	18 V	Groove width	4 mm
Speed	7 300 min^{-1}	Groove depth max.	20 mm
Cutter	Ø 100 × 4 × 22 mm	Weight	3.1 kg incl. battery

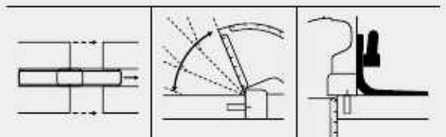
Classic X

The original biscuit joiner for every workshop





Features



Highest precision | **Versatile attachment option** | **Stabilising stop square**

Classic X is the original biscuit joiner from the inventor of the Lamello System for cutting the 4 mm groove.

The proven and well-designed Classic X is fast and versatile in its use and the basis for the wide range of connectors with fixed, self-clamping and detachable solutions.

Precision in every component leads to perfect accuracy of the workpieces and saves time. The multifunctional stop square allows perfect mitres by applying on the exterior surface and stabilises the machine in vertical position.



Articles



Classic X	Art. No.
In systainer	**101602S**
In carton	**101602K**



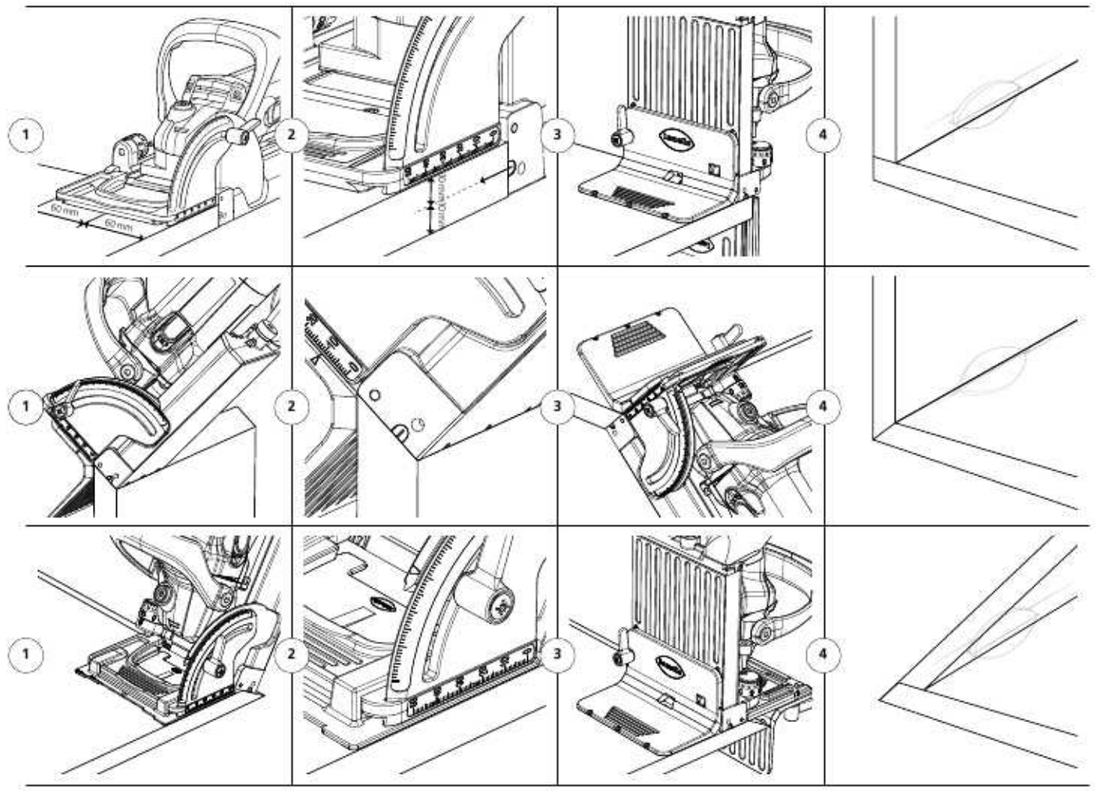
Kit contains

Classic X, groove cutter HW (carbide), suction stub 36 mm, stop square, spacer 4 mm, tool set

www.lamello

Experience Classic X live and receive comprehensive product information!

Function



Technical data

Power/Voltage	850 W/230 V or 120 V	Teeth	Z6 (3+3) with reversing teeth
Speed	10000 min^{-1}	Cutting depth max	20 mm
Cutter	Ø 100 × 4 × Ø 22 mm	Weight	2.9 kg

Top 21

The original biscuit joiner
with height adjustable blade
from the inventor

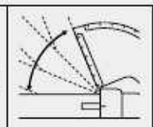




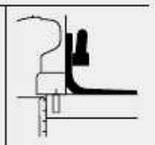
Features



Height adjustable cutter



Versatile attachment option



Stabilising stop square

Top 21 is the biscuit joiner from the inventor of the Lamello System and includes a height adjustable blade for cutting the 4 mm groove. The unique height adjustment of the cutter in steps from 0.1 mm to max. 4 mm allows positioning the groove in the middle of the material thickness.

Precision in every component leads to perfect accuracy of the workpieces and saves time. The multifunctional stop square allows perfect mitres by applying on the exterior surface and stabilises the machine in vertical position.



Articles



Top 21	Art. No.
In systainer	**101501S**
In systainer with carbide reversing blade cutter	**101501SW**



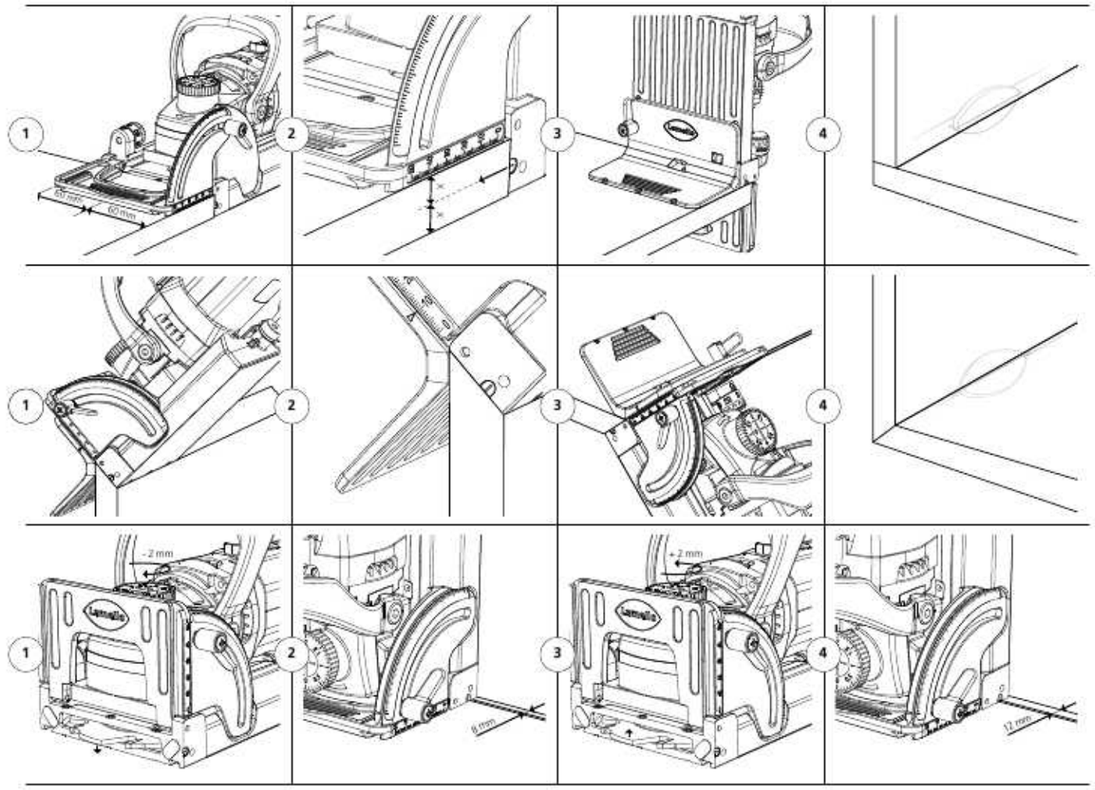
Kit contains

Top 21, groove cutter HW, suction stub 36 mm, dust bag, stop square, spacer 4 mm, tool set

www.lamello

Experience Top 21 live and receive comprehensive product information!

Function



Technical data

Power/Voltage	1 050 W/230 V 800 W/120 V	Teeth	Z2 + V4 with scoring teeth
Speed	9 000 min^{-1}	Cutting depth max	20 mm
Cutter	Ø 100 × 4 × Ø 22 mm	Weight	3.5 kg

Accessories

Classic X cordless, Classic X and Top 21

Accessories

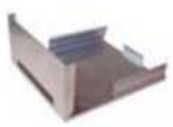


Stop square

for Zeta P2, Top 21, Classic X	Art. No.
For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints	**251044**



Spacer for Zeta P2, Top 21, Classic X	Art. No.
5 mm, aluminium for 18 mm panels	**253027**
2 mm, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine for Zeta P2/Top 21/Classic X	**251057**



Carbide tipped saw blades HW (carbide) for expansion gaps, Ø 100 × 2.4 × Ø 22 mm	Art. No.
Z20, 4 screw holes, 2 spacers for Zeta P2/Top 21/Classic X	**132350**



Groove cutter HW (carbide), Ø 100 × 4 × Ø 22 mm	Art. No.
Z2 + V4 scoring teeth, 4 screw holes, hub for Zeta P2/Top 21/Classic X	**132000**



	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	**132106**



Groove cutter HW (carbide), Ø 78 × 3 × Ø 22 mm	Art. No.
Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X	**132009**



Groove cutter HW (carbide) with reversible blades, Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	Art. No.
Z4 + V4, 4 screw holes for Top 20/Top 21/Classic X	**132108**



Dust bag	Art. No.
For Zeta P2/Top 21/Classic X	**257532**



Suction stub 36 mm	Art. No.
For biscuit joiner (Festool compatible)	**331007**



Deflector stub	Art. No.
For biscuit joiner	**331005**

Please find the complete accessories range starting **PAGE 184**

Batteries



	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**



	Art. No.
Battery pack 18 V, LiHD 5.5 Ah	**313015**



	Art. No.
Battery charger ASC 55	**123100**

Original Lamello biscuit joiners

These properties make the difference

Features

Multifunctional stop square included in the kit

Both sides flush surfaces
The baseplate, swivelling front and stop square are flush on both sides of the machine for efficient positioning of the biscuit joiner on the work piece's outer edge



Vertical stability by attaching to the baseplate to increase the surface



Perfect precision of mitres by applying on the outer surface for 22.5 and 45° angles



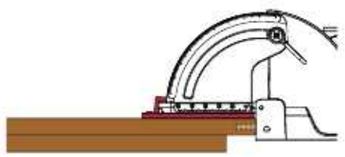
Variable positioning of the groove from the application surface 0–50 mm

Swivelling front with fixed rotational point

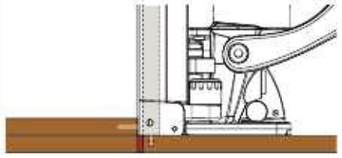
Exactly the same referencing distances from either the swivelling front or the base plate = 8 mm
Allows alternating the application surface from the swivelling front **1.** to the baseplate **2.** Especially important when cutting thin dividing panel connections



- **Safe process** guarantees always precise, parallel grooves
- **No inaccuracies or source of mistakes** because the height cannot be adjusted



Application with the swivelling front
With the 4 mm spacer for 12 mm dividing panel (groove in the centre)



Application with the baseplate
The dividing panel (moved by 4 mm) serves as application surface

High-precision machined application surfaces



- **CNC machined high-precision application surfaces** for exact application on the workpiece



- **Long-life precision guide** provides exact, parallel grooves for perfect fit of the workpieces

Versatile use ...

… with various connecting elements.

Join workpieces at different angles and in different joining methods with the Classic X and Top 21. Suitable for individual pieces of furniture as well as prototypes and line production.

With 4 mm Lamello System groove cutter





With 8 mm Lamello System groove cutter



Clamex S-18



With 3 mm Lamello System groove cutter



H9

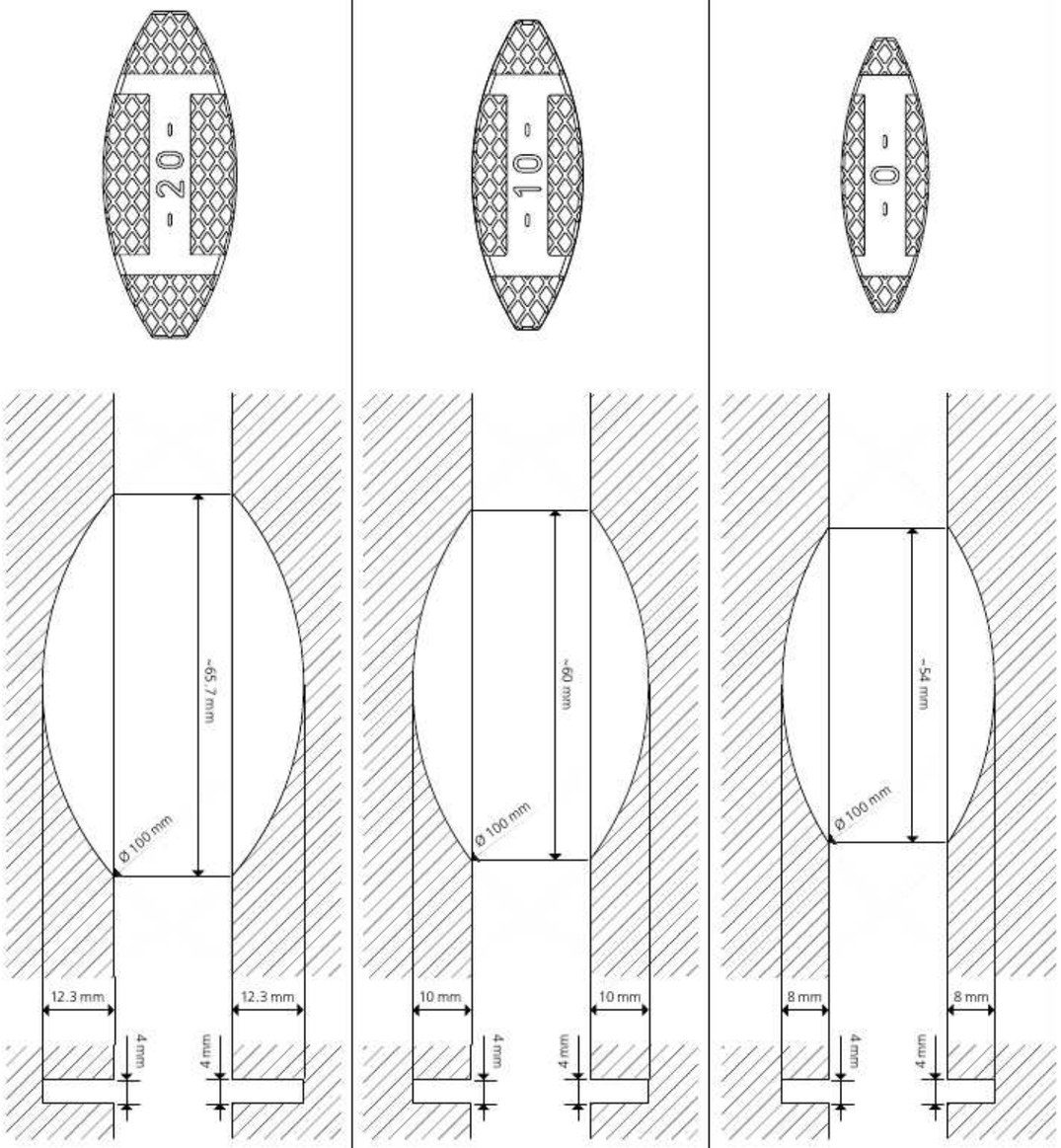
Lamello depth adjustment system

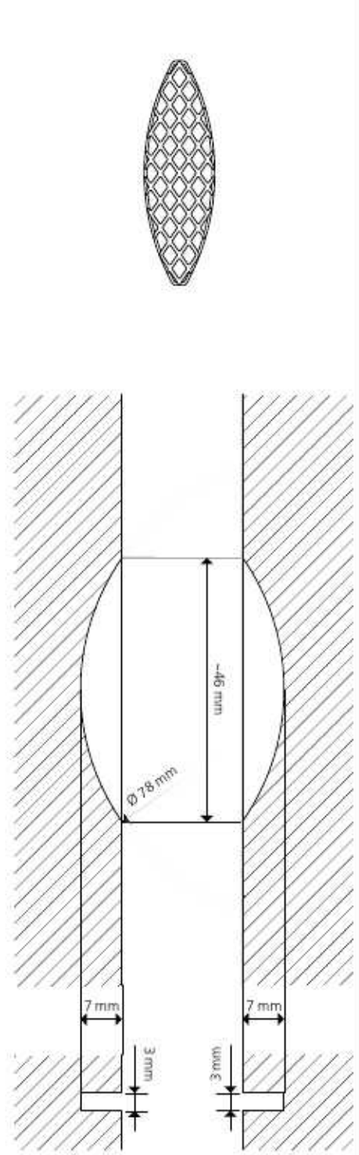
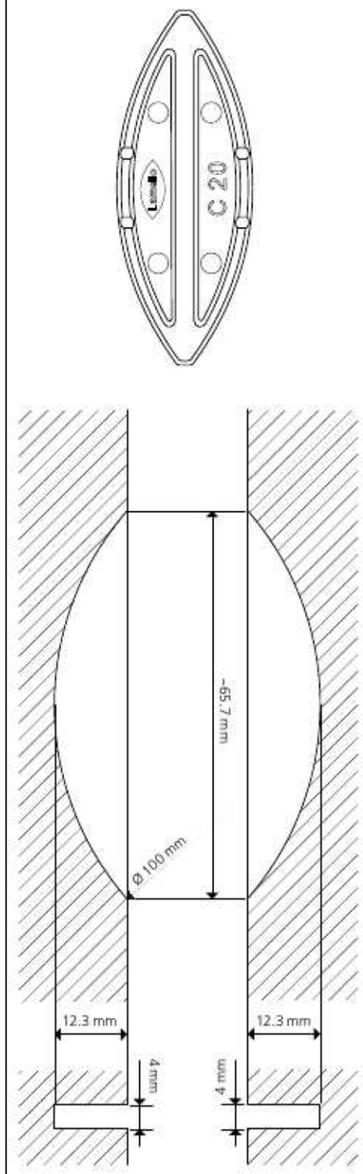
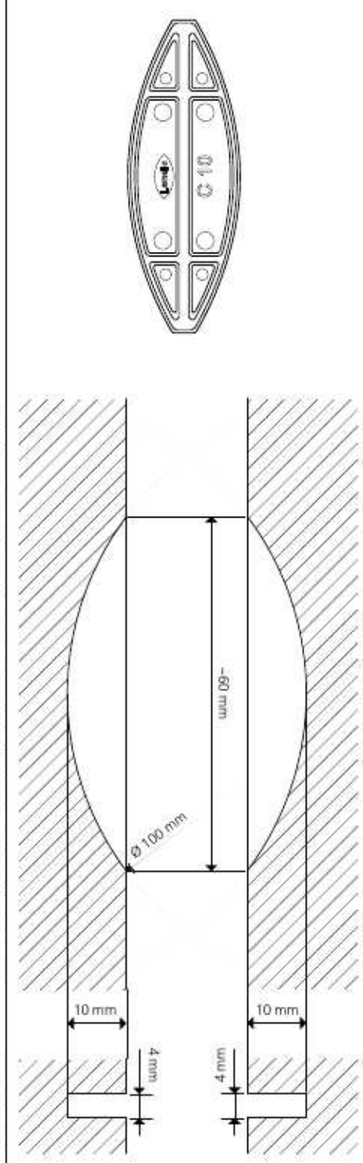


0	**Depth 0** no. 0
10	**Depth 10** no. 10, C10
20	**Depth 20** no. 20, E20-L, K20, C20
S	**Depth S** E20-H, Simplex
D	**Depth D** Clamex S-18, E20-L
max	**Depth max** H9 (incl. spacer), E20-L

Technical information

Overview of connectors + grooves (scale 1:1)

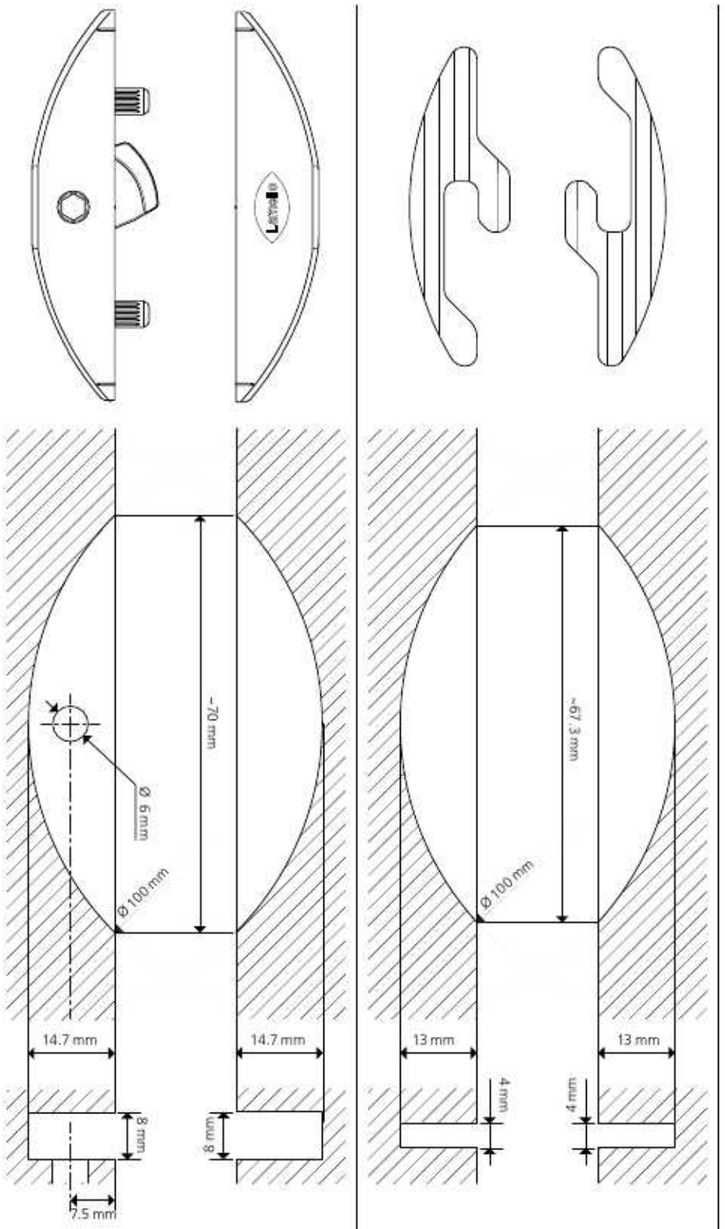
Original wood biscuit 20	Original wood biscuit 10	Original wood biscuit 0
		
Tensile strength (N)		
Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

Original wood biscuit H9	C20	C10
		
Tensile strength (N)	**Tensile strength (N)**	
Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

Technical information

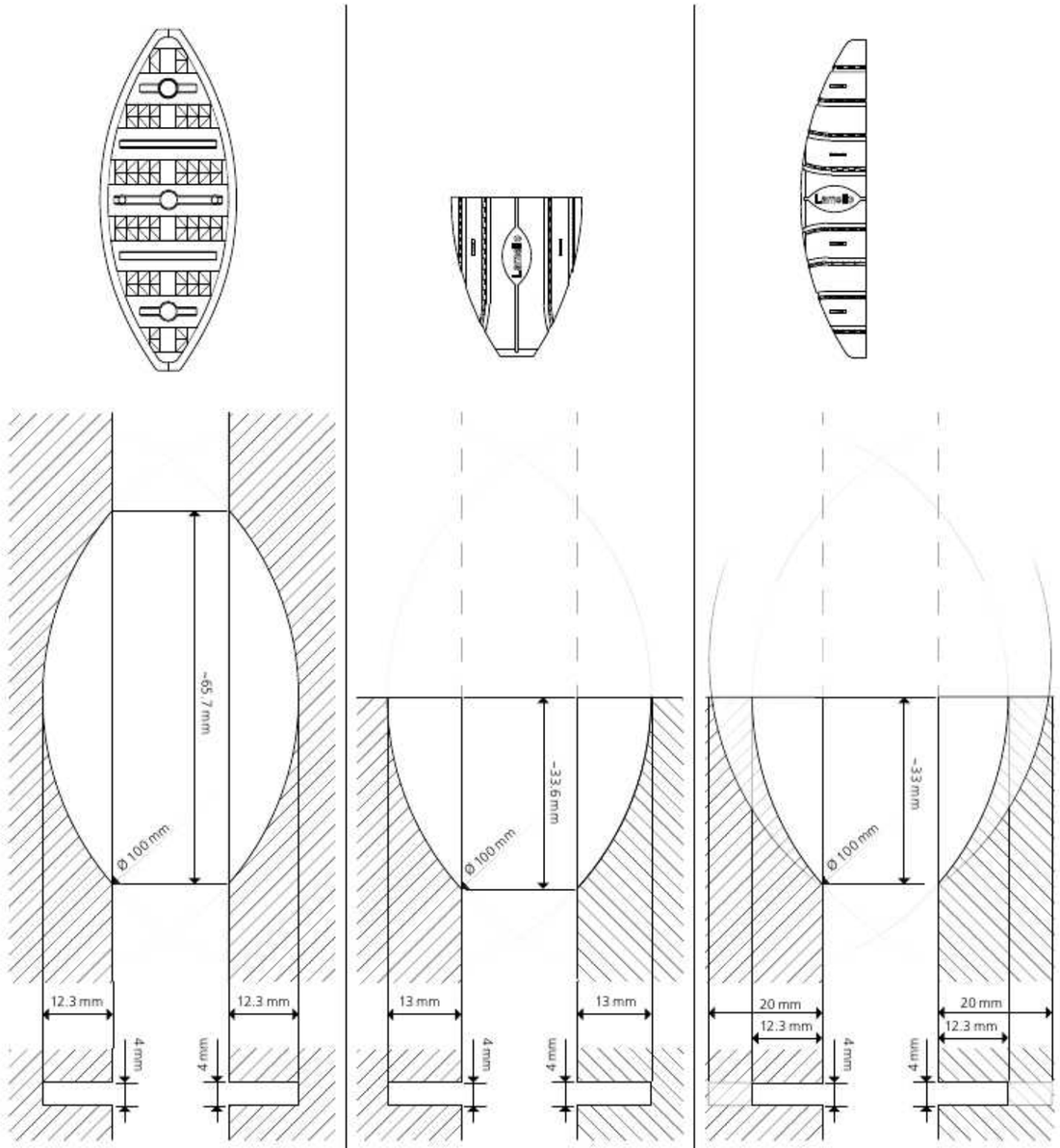
Overview of connectors + grooves (scale 1:1)

Clamex S-18	Simplex



Tensile strength (N)	Up to	
MDF	600[1]	Depending on the adhesive
Particle board	600[1]	
Beech	900[1]	

K20	E20-H	E20-L



Tensile strength (N)	Tensile strength (N)	Tensile strength (N)
Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

[1] See comment on load limits on **PAGE 195**

Accessories / Spare Parts

Lamello System

Lamello System



Stop square for Zeta P2, Top 21, Classic X	Art. No.
For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints	**251044**



Spacer for Zeta P2, Top 21, Classic X	Art. No.
5 mm, aluminium for 18 mm panels	**253027**
2 mm, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**



Systainer3 M187	Art. No.
Systainer3 M187, empty	**331579**
Insert with two partitions for Systainer3 M 187	**360023**
Divider for insert 360023	**360019**
Insert Systainer3 M187 for Zeta P2/Top21/Classic X	**360020**



Groove cutter HW (carbide), Ø 100 × 4 × Ø 22 mm	Art. No.
Z2 + V4 scoring teeth, 4 screw holes, hub for Zeta P2/Top 21/Classic X	**132000**



	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	**132106**



Groove cutter HW (carbide), Ø 78 × 3 × Ø 22 mm	Art. No.
Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X	**132009**



Groove cutter HW (carbide) with reversible blades, Ø 100 × 4 × Ø 22 mm	Art. No.
Z2 + V2, 4 screw holes with hub for Zeta P2/Top 21/Classic X	**132001**
Set of 4 pieces	**132111**
Countersunk screws	**352408T**
Allen key, 4 mm	**271959L**



Groove cutter HW (carbide) with reversible blades, Ø 100 × 4 × Ø 22 mm	Art. No.
Z4 + V4, 4 screw holes without hub, with spacer for Zeta P2/Top 21/Classic X	**132130**
Set of 10 pieces main teeth	**132134**
Set of 10 pieces scoring teeth	**132135**
Replcement set, 4 scoring teeth + 4 main teeth	**132133**
Screws	**352130**
Torx key	**352133**



Groove cutter HW (carbide) with reversible blades, Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	Art. No.
Z4 + V4, 4 screw holes for Top 20/Top 21/Classic X	**132108**
Set of 10 pieces scoring teeth	**132137**
Set of 10 pieces main teeth	**132136**
Replcement set, 4 scoring teeth + 4 main teeth	**132114**



Dust bag	Art. No.
For Zeta P2/Top 21/Classic X	**257532**

Batteries



	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**



	Art. No.
Battery pack 18 V, LiHD 5.5 Ah	**313015**



	Art. No.
Battery charger ASC 55	**123100**

Accessories/ Spare Parts

Lamello System

Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine	**251057**
for Zeta P2/Top 21/Classic X	



Clamex S drill jig	Art. No.
Clamex S drill jig 30° – 150°,	**125240**
with 6 mm drill complete	



Carbide tipped saw blades HW (carbide)	
for expansion gaps, Ø 100 × 2.4 × Ø 22 mm	Art. No.
Z20, 4 screw holes, 2 spacers	**132350**
for Zeta P2/Top 21/Classic X	



Accessories for saw blades	Art. No.
Spacer, Ø 40 × 1 × Ø 22 mm	**322510**
with screw holes	
for Zeta P2/Top 21/Classic X	



	Art. No.
Flange M8 to saw blades	**252502**



Clamex S-18 set	Art. No.
Drill jig for 30° – 150° incl. drill and carbide	**125250**
tipped groove cutter	
with drill jig and cutter	
includes 1 set 125240 and 1 piece 132108	

Clamping set parts



Clamps	Art. No.
5 m clamping strap	**175005**
8 m clamping strap	**175008**
10 m clamping strap	**175010**



Buckle for clamps	Art. No.
1 piece, without strap	**175060**



Polyester strap for clamps	Art. No.
1 roll of 50 m	**175050**



	Art. No.
Per meter m[1]	**335000**



Tension hooks	Art. No.
2 pieces	**175200**



Profile sections	Art. No.
4 pieces, length 12 cm	**175401**
4 pieces, length 40 cm	**175402**
4 pieces, length 60 cm	**175403**

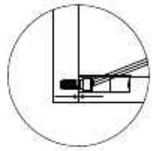
Drilling System

Unique drilling systems for high demands
on productivity and aesthetics

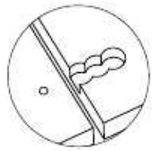
Features Cabineo



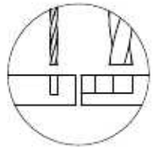
Fast
assembly



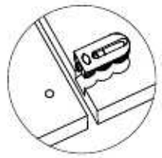
High clamping
force



No edge
drilling

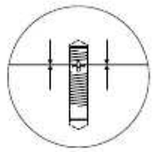


No dowel
holes

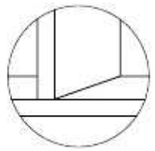


One-piece and
pre-installed

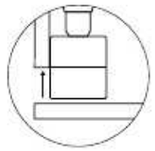
Features Invis Mx2



High clamping
force



Invisible



Detachable

Drilling System

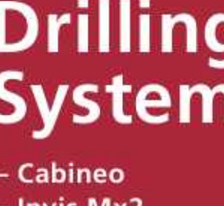
– Cabineo
– Invis Mx2

Overview

Joining methods	Connector	Machines		Sequence			
		Power tool	**CNC machines**	**1** Processing	**2** Connector insertion	**3** Deliver flat pack	**4** Assembly

Detachable

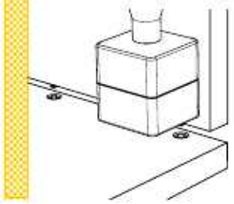
Cabineo

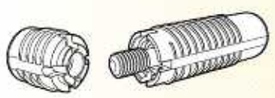


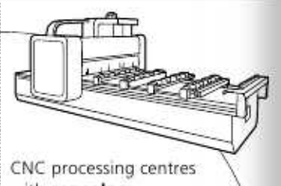


Detachable

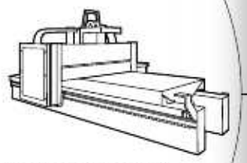
Invis Mx2



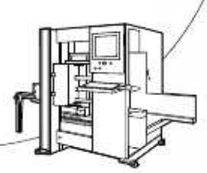




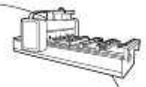
CNC processing centres with **consoles**

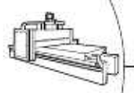


CNC processing centres with **nesting technology**



CNC processing centres **vertical**



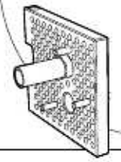


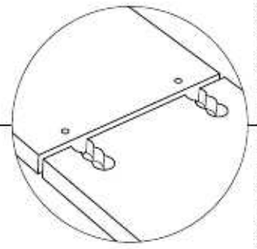


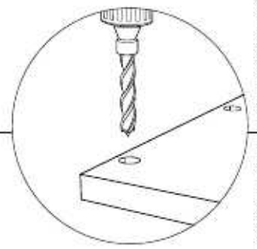


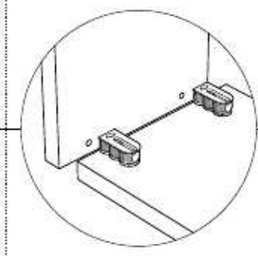
Cordless drill

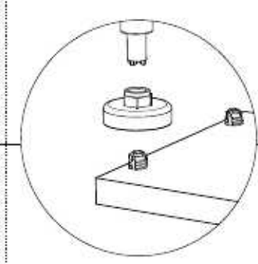
Rasto

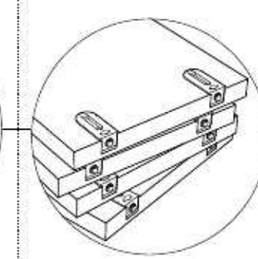


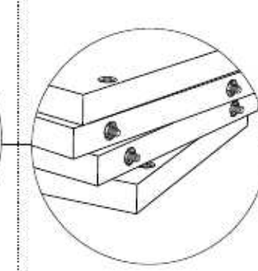


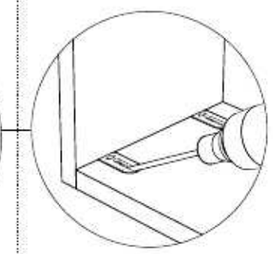


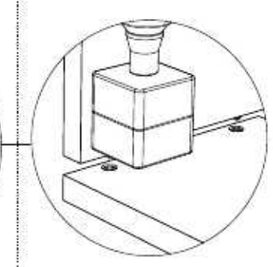


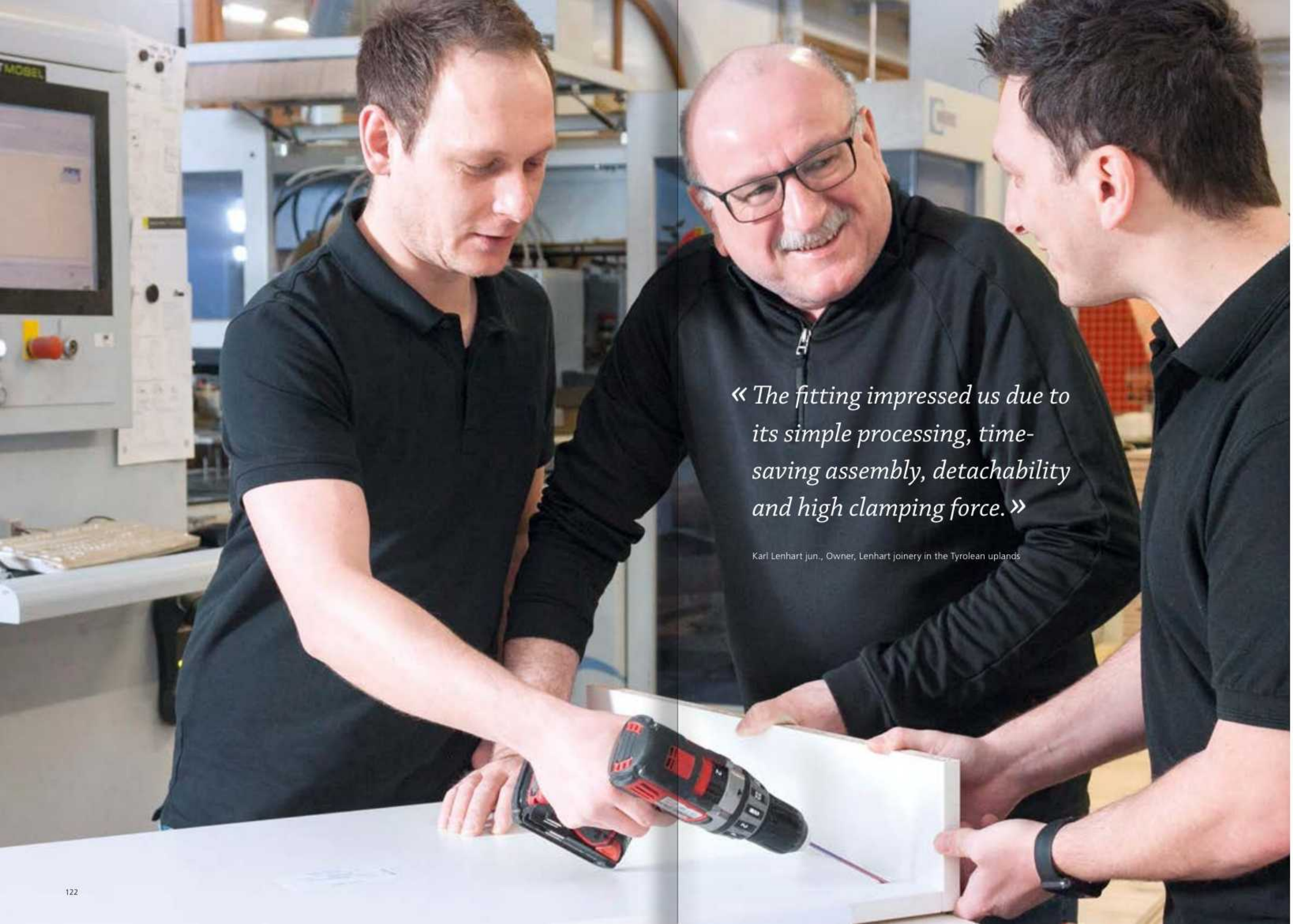












« The fitting impressed us due to its simple processing, time-saving assembly, detachability and high clamping force. »

Karl Lenhart jun., Owner, Lenhart joinery in the Tyrolean uplands

Drilling System

Applications

Furniture manufacturing





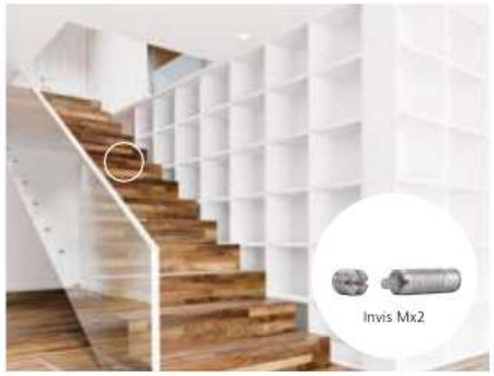


Interior fitting









Drilling System

Applications

Kitchen manufacturing







Commercial joinery









Shop fitting

Cabineo 12

Time-saving cabinet connector
for corner joints from 13 mm



Features



Cabineo 12 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The Cabineo is installed in the board either in the workshop or on site. The pre-assembled screw in the connector is screwed into the 5 mm hole of the second workpiece using a cordless drill. Cabineo impresses with its time-saving processing and assembly as well as the high clamping force which leads to stable connections without the need for additional dowels. Cabineo is available in white or black.



Articles



Cabineo 12	Art. No.
500 pieces	**186320**
2000 pieces	**186321**



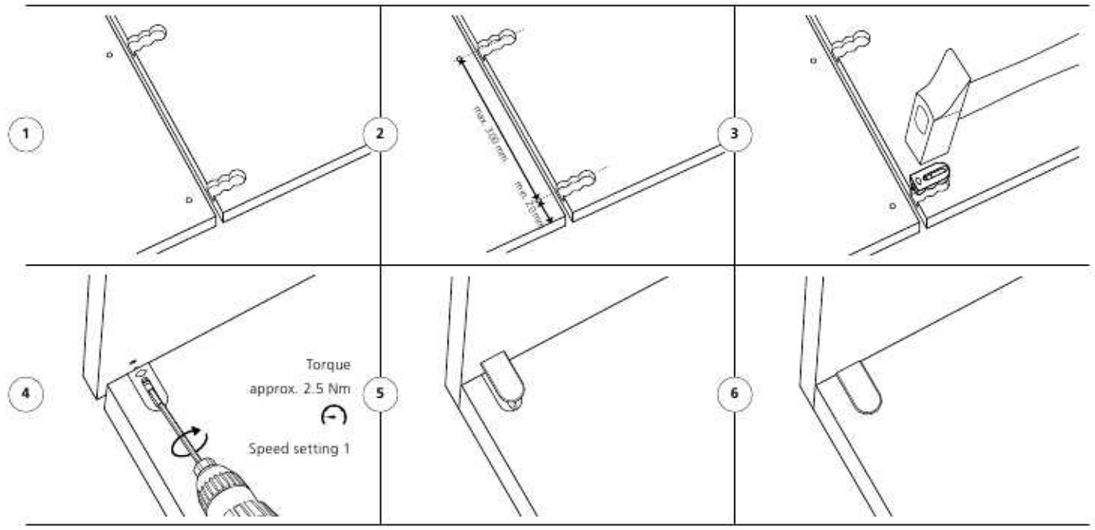
Cabineo 12 black	Art. No.
500 pieces	**186330**
2000 pieces	**186331**

Cabineo 8 /12 Starter set	Art. No.
Cabineo 8 + 12 (40 pieces each), incl. Cabineo hex bit and set of cover caps (40 pieces)	**186305**

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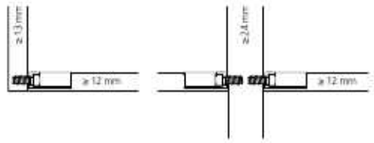
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Size	33.8 × 16.5 × 10.8 mm		
Screw length	12 mm		
Cutter	Ø 12 mm or smaller		
Drill	Ø 5 mm and Ø 15 mm		
Material housing	Fiberglass reinforced plastic		
Installation tolerace	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
	900[1]	850[1]	900[1]
	10 N ~ 1 kg		
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

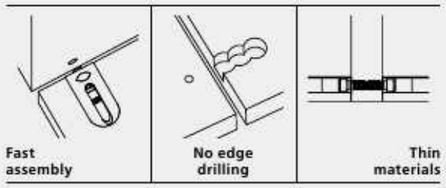
See **PAGE 146 – 147** for technical specifications | [1] See comment on load limits on **PAGE 195**

Cabineo 8

Time-saving cabinet connector
for centre panels from 16 mm



Features



Cabineo 8 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The Cabineo is installed in the board either in the workshop or on site. The pre-assembled screw in the connector is screwed into the 5 mm hole of the second workpiece using a cordless drill. Cabineo impresses with its time-saving processing and assembly as well as the high clamping force which leads to stable connections without the need for additional dowels.



Articles



Cabineo 8	Art. No.
500 pieces	**186310**
2000 pieces	**186311**



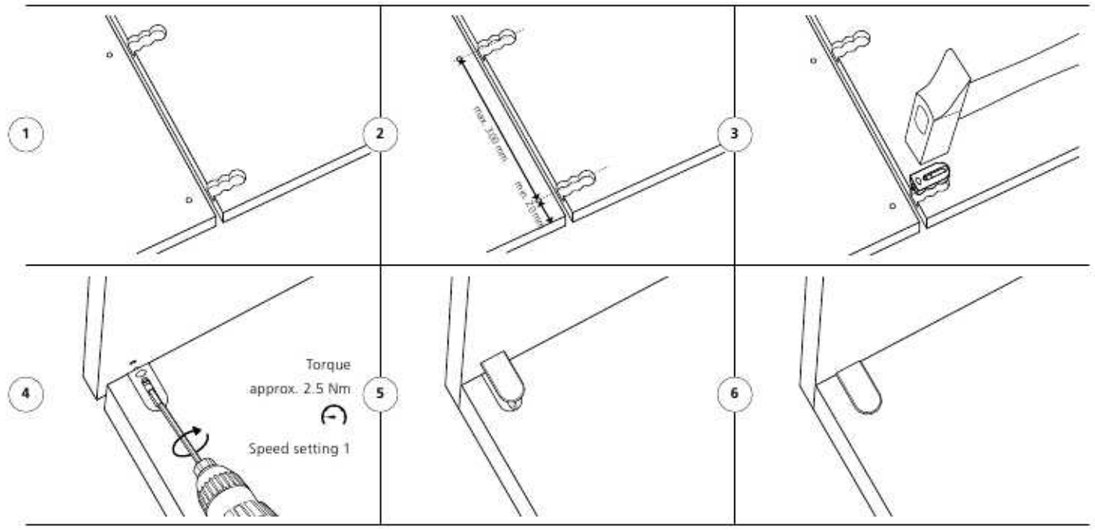
Cabineo 8 black	Art. No.
500 pieces	**186340**
2000 pieces	**186341**

Cabineo 8 /12 Starter set	Art. No.
Cabineo 8 + 12 (40 pieces each), incl. Cabineo hex bit and set of cover caps (40 pieces)	**186305**

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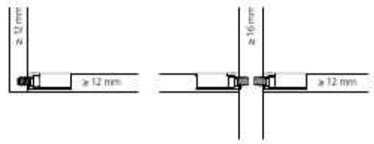
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Size	33.8 × 16.5 × 10.8 mm		
Screw length	8 mm		
Cutter	Ø 12 mm or smaller		
Drill	Ø 5 mm and Ø 15 mm		
Material housing	Fiberglass reinforced plastic		
Installation tolerace	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
	500[1]	550[1]	500[1]
	10 N ~ 1 kg		
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 146 – 147** for technical specifications | [1] See comment on load limits on **PAGE 195**

Cabineo 8 M6

Wear-resistant cabinet connector for various materials and increased strength



Features



Cabineo 8 M6 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The connector is ideal when joining wood composites with materials such as aluminium, steel or compact laminate.

After installing the connector in the board, the pre-assembled metric screw is screwed into a threaded hole or a socket, using a cordless drill.

Cabineo impresses with its time-saving processing and assembly as well as the high clamping force which leads to stable connections without the need for additional dowels. Cabineo is available in white or black.



Articles



Cabineo 8 M6	Art. No.
500 pieces, metric thread M6	**186315**
2000 pieces, metric thread M6	**186316**



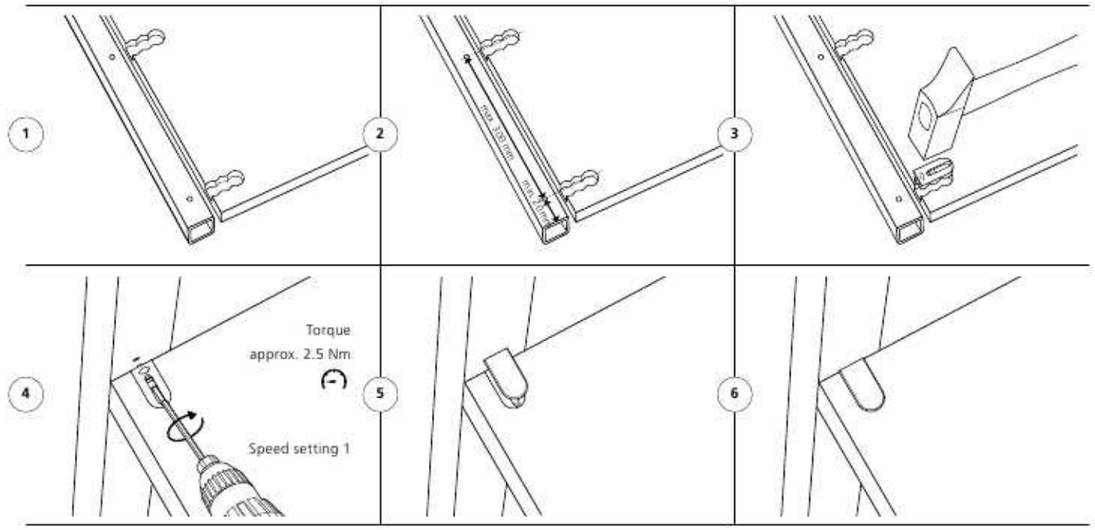
Cabineo 8 M6 black	Art. No.
500 pieces, metric thread M6	**186345**
2000 pieces, metric thread M6	**186346**

Cabineo 8 M6 Starter set	Art. No.
Cabineo 8 M6 (80 pieces), insert and cover caps (40 pieces each), Cabineo insertion tool (1 piece), Cabineo hex bit 1/4" (1 piece)	**186306**

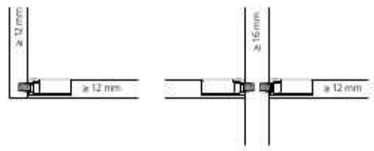
www.lamello

Experience the connector live and receive comprehensive product information!

Function



Technical data



Joining methods				
Size	33.8 × 16.5 × 10.8 mm			
Screw length	8 mm			
Cutter	Ø 12 mm or smaller			
Drill	Ø 15 mm			
Screw thread	M6			
Material housing	Fiberglass reinforced plastic			
Installation tolerace	Long. ± 0.1 mm			
Strength per connector without dowel (N)				
In HPL 12 mm Up to	Tensile strength (N)	Shear strength	Clamping force	
	1700 [1]	1000 [1]	1700 [1]	
	10 N ~ 1 kg			
Material range	Particle board, MDF, plywood, softwood, hardwood etc.			

See **PAGE 146 – 147** for technical specifications | [1] See comment on load limits on **PAGE 195**

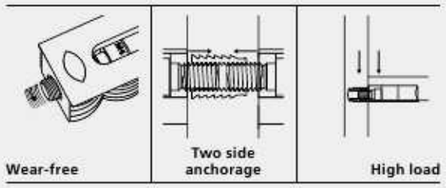
Cabineo insert M6

For repeated assembly and disassembly without loss of strength





Features



The Cabineo insert M6 is a threaded insert to drive in, which can be used in combination with the Cabineo 8 M6. It is ideal for applications where the thread cannot be cut directly into the workpiece or to increase the strength in corner and dividing panel joints. The Cabineo insert M6 is hammered into the through-hole of the middle panel so that the Cabineo can reach into the insert from both sides. The same connector and insert can be used everywhere for corner and dividing panels.



Articles

Cabineo insertion tool is included in delivery for the inserts.



Cabineo insert M6 × 12.3	Art. No.
100 pieces	**186370**
500 pieces	**186371**

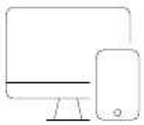


Cabineo insert M6 × 15.3	Art. No.
100 pieces, for dividing panels	**186375**
500 pieces, for dividing panels	**186376**



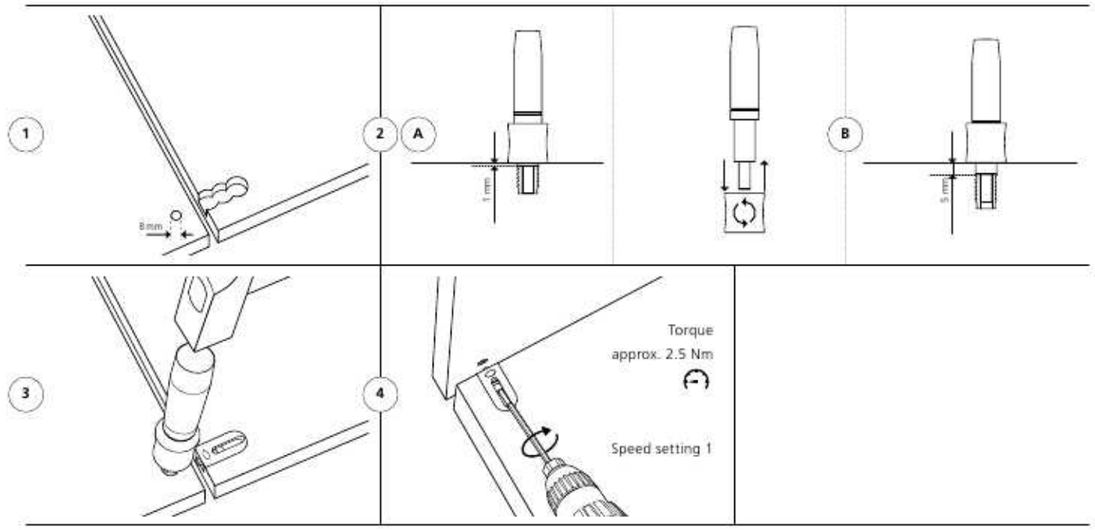
Cabineo insert insertion tool	Art. No.
For insert M6	**276310**

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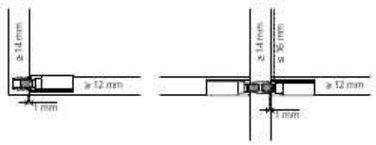
Experience the connector live and receive comprehensive product information!

Function

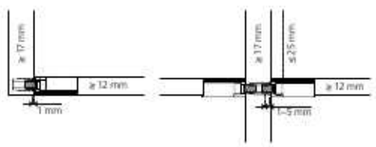


Technical data

Joining methods



Cabineo insert M6 × 12.3
for material thickness 14–16 mm



Cabineo insert M6 × 15.3
for material thickness 17 – 25 mm

Size	12.3/15.3 × 9.3 × 9.3 mm		
Thread	M6		
Drill hole	Ø 8 mm		
Material	Brass		
Installation tolerace	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
Insert M6 × 12.3	750[1]	1050[1]	750[1]
Insert M6 × 15.3	900[1]	1200[1]	900[1]
	10 N ~ 1 kg		
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 147** for technical specifications | [1] See comment on load limits on **PAGE 195**

Advantages of Cabineo

Simple, fast and strong

1.
Advantages
in production

Time-saving in production

- Optimised process due to surface machining; no edge drilling necessary
- Only one tool change from 5 mm to 15 mm drill; no tool change for the dowel hole drill necessary
- No dowel holes means less drill holes per connector
- Shallow element of 10 mm allows for panels from 12 mm thickness

2.
Advantages
in transportation

Time-saving in transportation

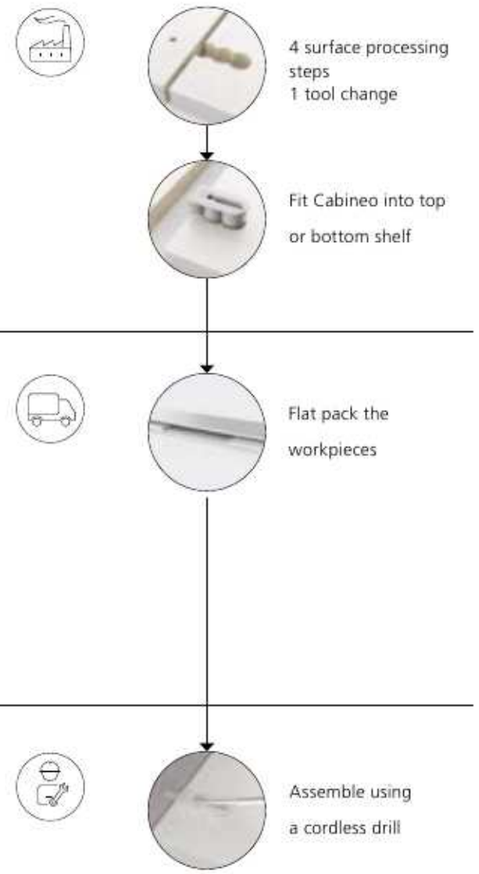
- Efficient pre-installation of the one-piece connector in the factory
- Flat pack delivery with pre-installed connectors
- No extra bags or loose hardware required with furniture shipment
- Detachable for transport or if the fixed shelves need adjusting

3.
Advantages
in assembly

Time-saving in the assembly

- One-piece connector without dowels; no pre-assembly of screws or dowels in the side panels necessary
- Easy positioning of the Cabineo in the corresponding hole due to the protruding screw
- Fast assembly with a cordless drill
- Installation of fixed shelves or vertical dividers in an already assembled unit

Cabineo compared with cam and dowel





Examples of manufacturing and assembly processes

Cabineo



Flatpack workpiece delivery with pre-assembled connector.



Place furniture side on base. The element is correctly positioned by the protruding screw.



Join furniture elements with cordless drill and Cabineo tool. Easy, fast working with preset torque approx. 2.5 Nm.



Position top and push towards the furniture side.



Screw front corner in place with a cordless drill. This makes one-man assembly easy.



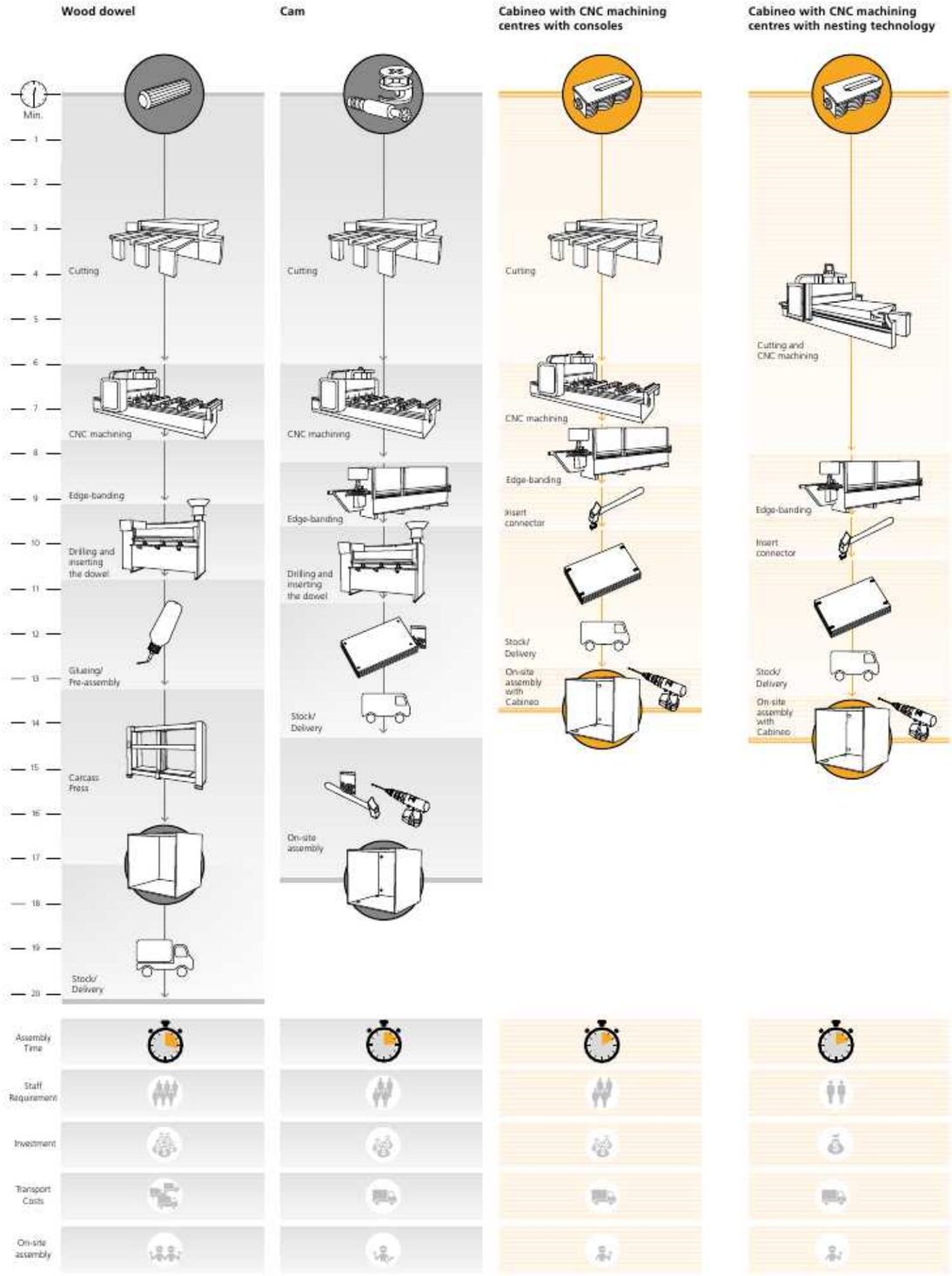
After assembly, fasten the fixed intermediate shelves in the required positions.



Tip:
- Place one side of the shelf on the shelf support and fasten the other side
- Retract the screw to facilitate installation.



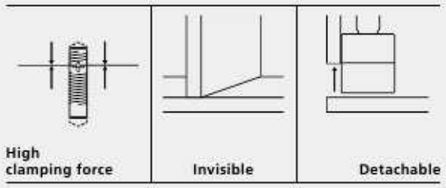
If required, use cover caps on the Cabineo.



Invis Mx2

Magnet-driven connecting fittings

Features



Invis Mx2 is a unique, magnet-driven connection for the highest demands on aesthetics, stability and productivity. With no visible openings, Invis Mx2 is connected and disconnected quickly again and again, using its magnetic drive.

Invis Mx2 connectors are screwed into the 12 mm drill holes in the panel. Using the MiniMag with a cordless drill, the connection closes and creates a clamping force of up to 250 kg per connector.

Ideal for high gloss painted furniture, molded workpieces, stairs, etc.



Articles



Invis Mx2 connector set	Art. No.
With 14 mm Invis Mx2 stud, 20 pairs	**6012300**



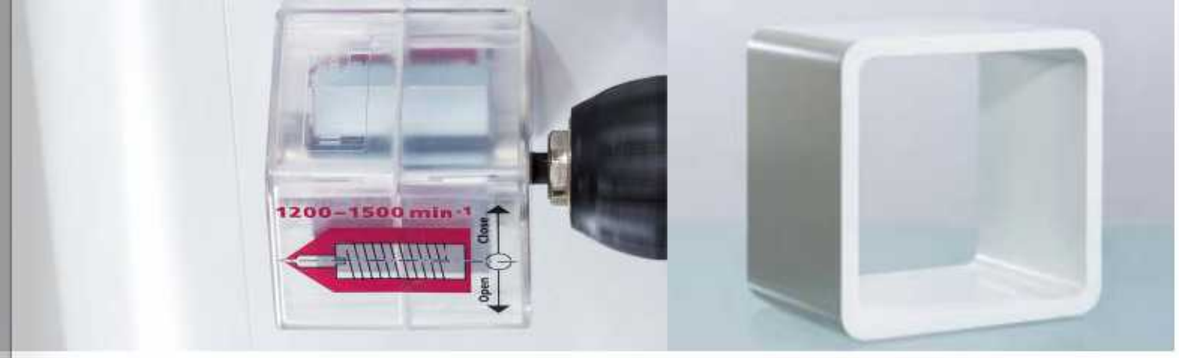
	Art. No.
With 30 mm Invis Mx2 stud, 20 pairs	**6012301**



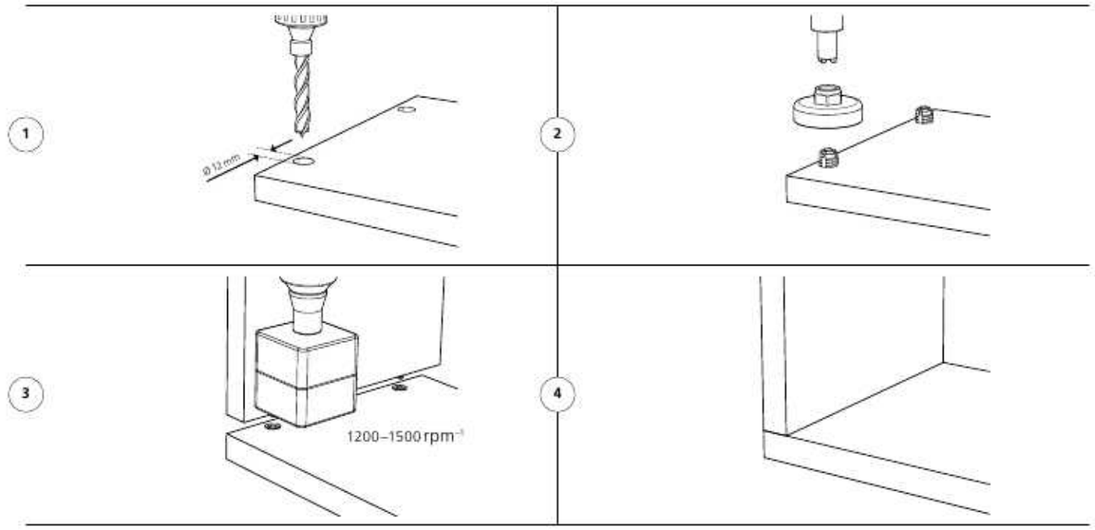
Invis Mx2 Starter set	Art. No.
Invis Mx2 MiniMag, Invis Mx2 connector sets, 20 pairs, with 14 mm Invis Mx2 stud, Rasto drill jig with 12 mm drill bit, depth adjuster, bushing, screw bit, flexible shaft, insertion jig	**6100300**

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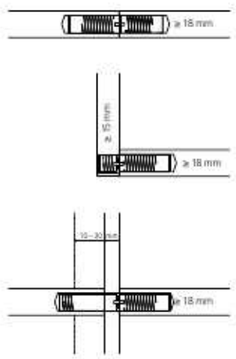


Function



Technical data

Joining methods



Size connector	Ø 12 × 35 mm		
Size stud	Ø 12 mm × 30/14 mm		
Size centre-wall stud	Ø 12 mm × 30 mm		
Drill	Ø 12 mm		
Speed MiniMag	Must be 1200–1500 rpm⁻¹		
Material housing	Zinc		
Installation tolerace	Long. ± 0.1 mm		
Clamping force per connector	250 kg[1]		
Tensile strength (N) Up to	Connector sets with stud	14 mm	30 mm
	MDF	1500 N[1]	4000 N[1]
	Particle board	600 N[1]	1600 N[1]
	Beech	2000 N[1]	4000 N[1]
	Spruce	1000 N[1]	2000 N[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 148–149** for technical specifications | [1] See comment on load limits on **PAGE 195**

Articles



Invis Mx2 connector 35 mm Art. No.

20 pieces **6012317**



Invis Mx2 stud 14 mm Art. No.

20 pieces **6012312**



Invis Mx2 stud 30 mm Art. No.

20 pieces **6012309**



Invis Mx2 centre wall stud 10–30 mm Art. No.

10 pieces **6012208**

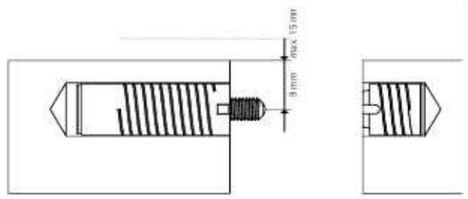


Invis Mx2 MiniMag Art. No.

Incl. screw bit **6100301**

Function

1



2



Small distance from the edge for high clamping force

Rasto drill jig

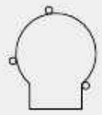
Universal drill jig without measuring or marking



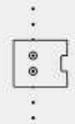
Features



Drill without marking



All workpiece shapes



32 mm hole rows

Rasto is a universal drilling jig and is used for creating precise drilled holes for Invis Mx2. The drilling jig can be clamped onto almost any workpiece shape by means of three positioning pins without measuring or marking. After the first workpiece has been drilled, the position is transferred unchanged to the second workpiece. Working in this way means the holes will always line up with each other.

Rasto is also suitable for 8 mm dowel holes or 5 mm holes for handles or for row hole drilling.



Articles

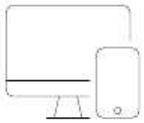


Rasto Duo set	Art. No.
In a systainer: 2 transparent perforated plates, 8 drill bushings, 2 × Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm, 6 positioning bolts, 2 fastening screws, 1 connection rod, 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush	**126002**

Rasto Basic set	Art. No.
In a cardboard box: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 positioning bolts, 1 fastening screw	**126005**

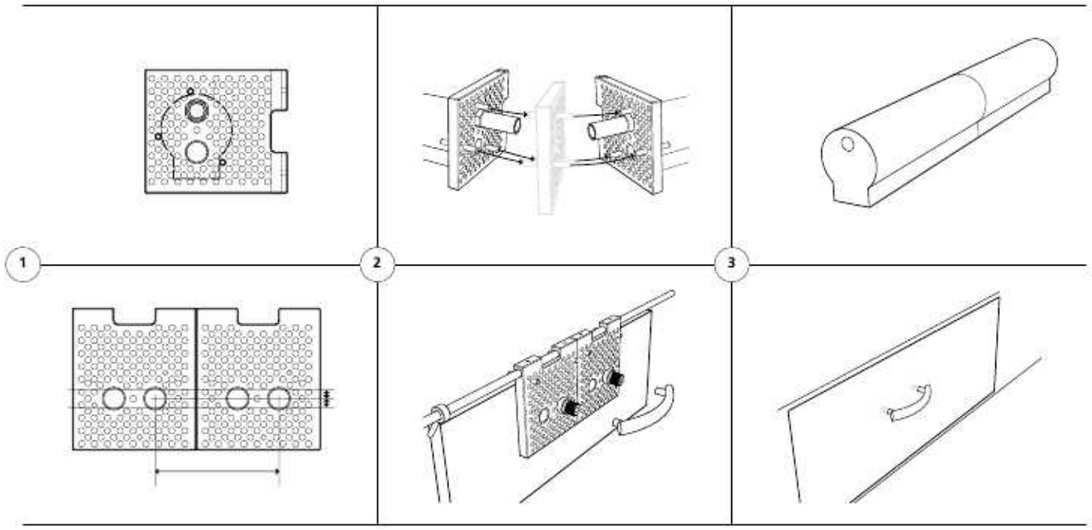
Rasto Mono set	Art. No.
In a systainer: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm, 3 positioning bolts, 1 fastening screw, 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush	**126001**

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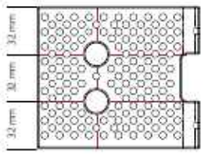


Experience Rasto live and receive comprehensive product information!

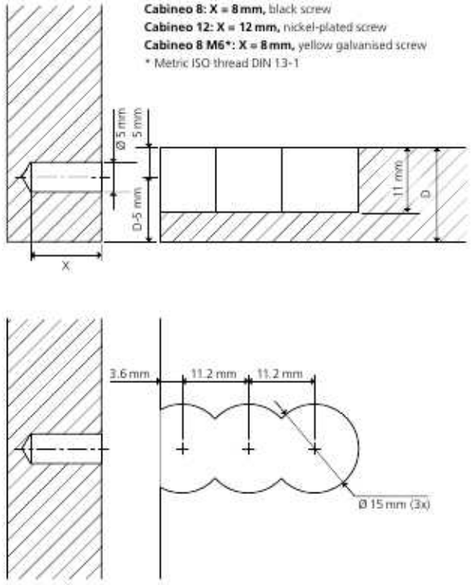
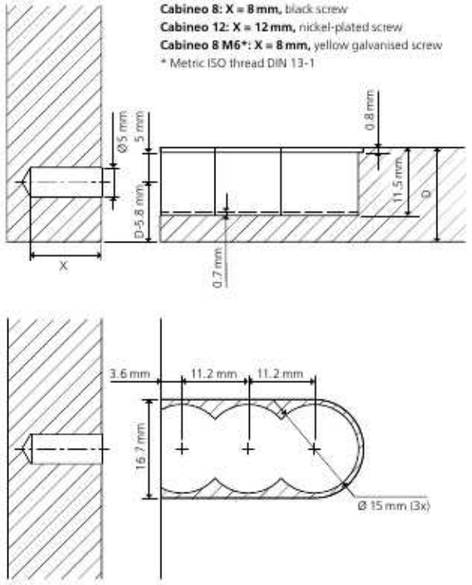
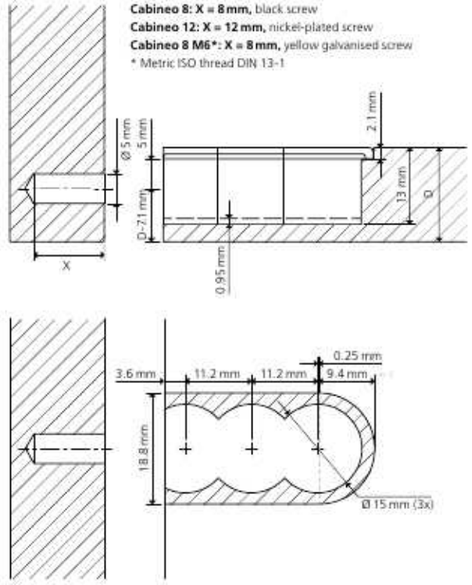
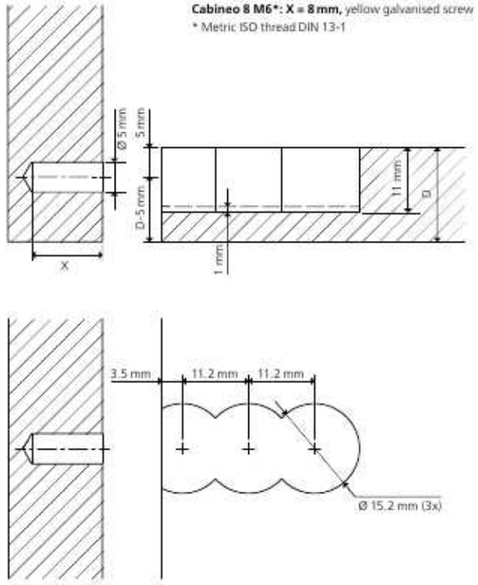
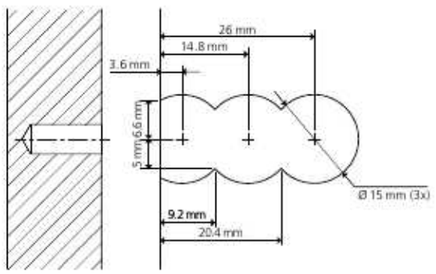
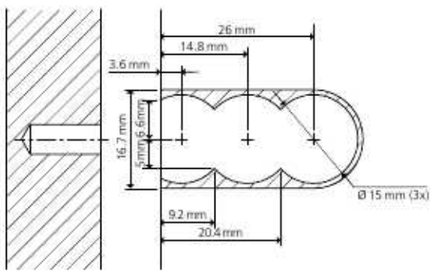
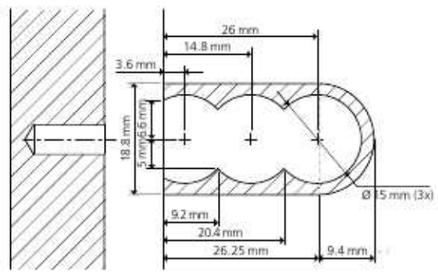
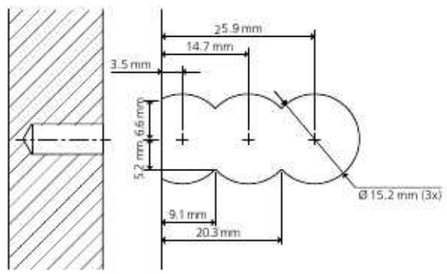
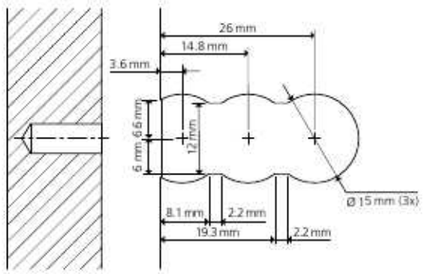
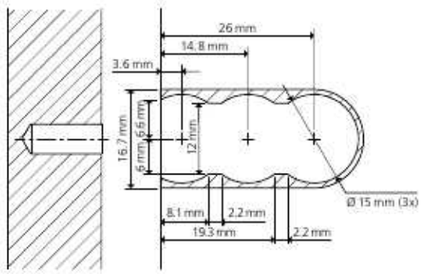
Function



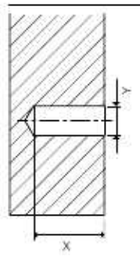
Technical data

Rasto perforated plate		
	Size Rasto plate	110 × 96 × 12 mm
	Material Rasto plate	Polycarbonate

Machining Cabineo

Installation options	On the surface	Flush with the surface	Flush cover cap	HPL on the surface
Machining options	**Cabineo 8: X = 8 mm,** black screw **Cabineo 12: X = 12 mm,** nickel-plated screw **Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1	**Cabineo 8: X = 8 mm,** black screw **Cabineo 12: X = 12 mm,** nickel-plated screw **Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1	**Cabineo 8: X = 8 mm,** black screw **Cabineo 12: X = 12 mm,** nickel-plated screw **Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1	**Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1
Drill 15 mm				
Cutter ø 10 mm				
Cutter ø 12 mm				

Machining Cabineo Insert

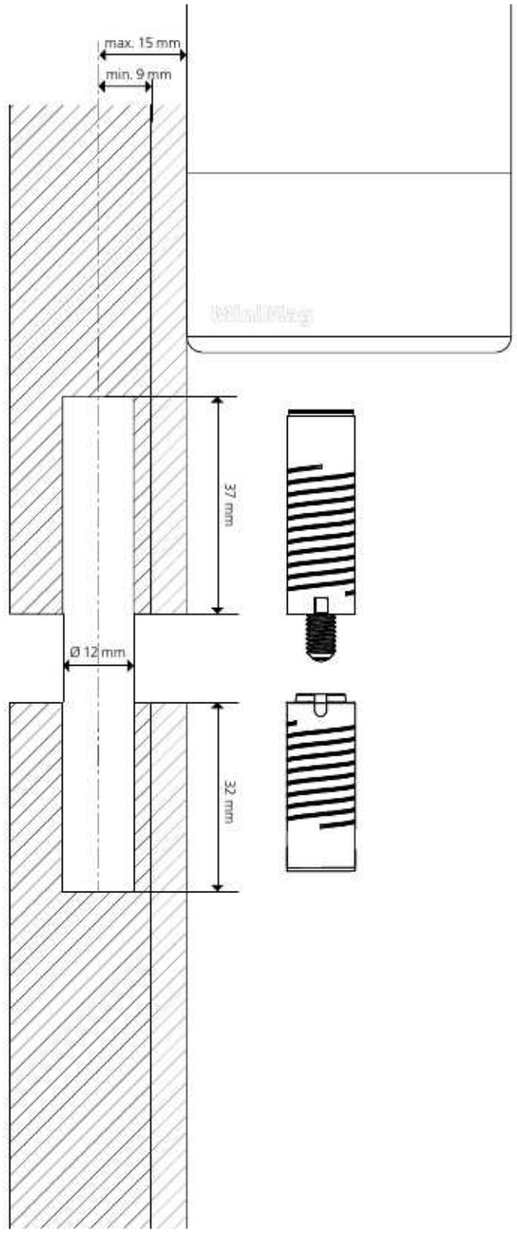


	X	Y = Ø
	[mm]	[mm]
Cabineo 8 M6*	8	5
Insert M6 × 12.3	13.5	8
Insert M6 × 15.3	16.5	8

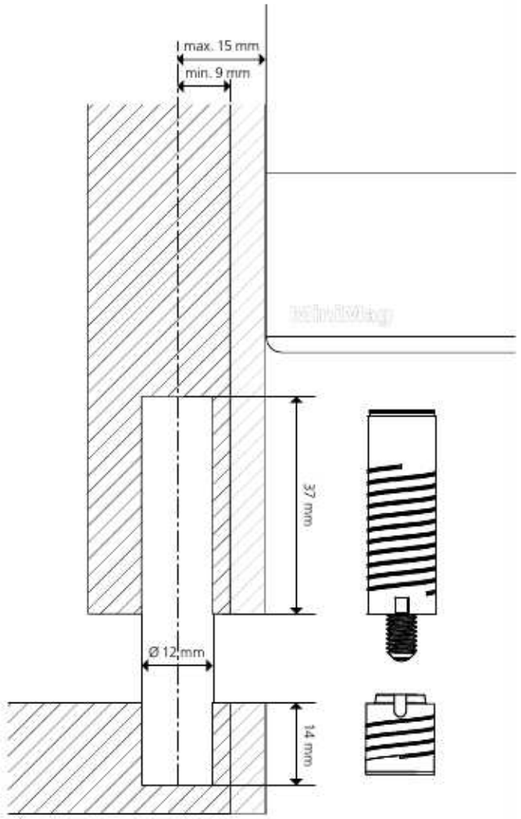
* Metric ISO thread DIN 13-1

Machining Invis Mx2

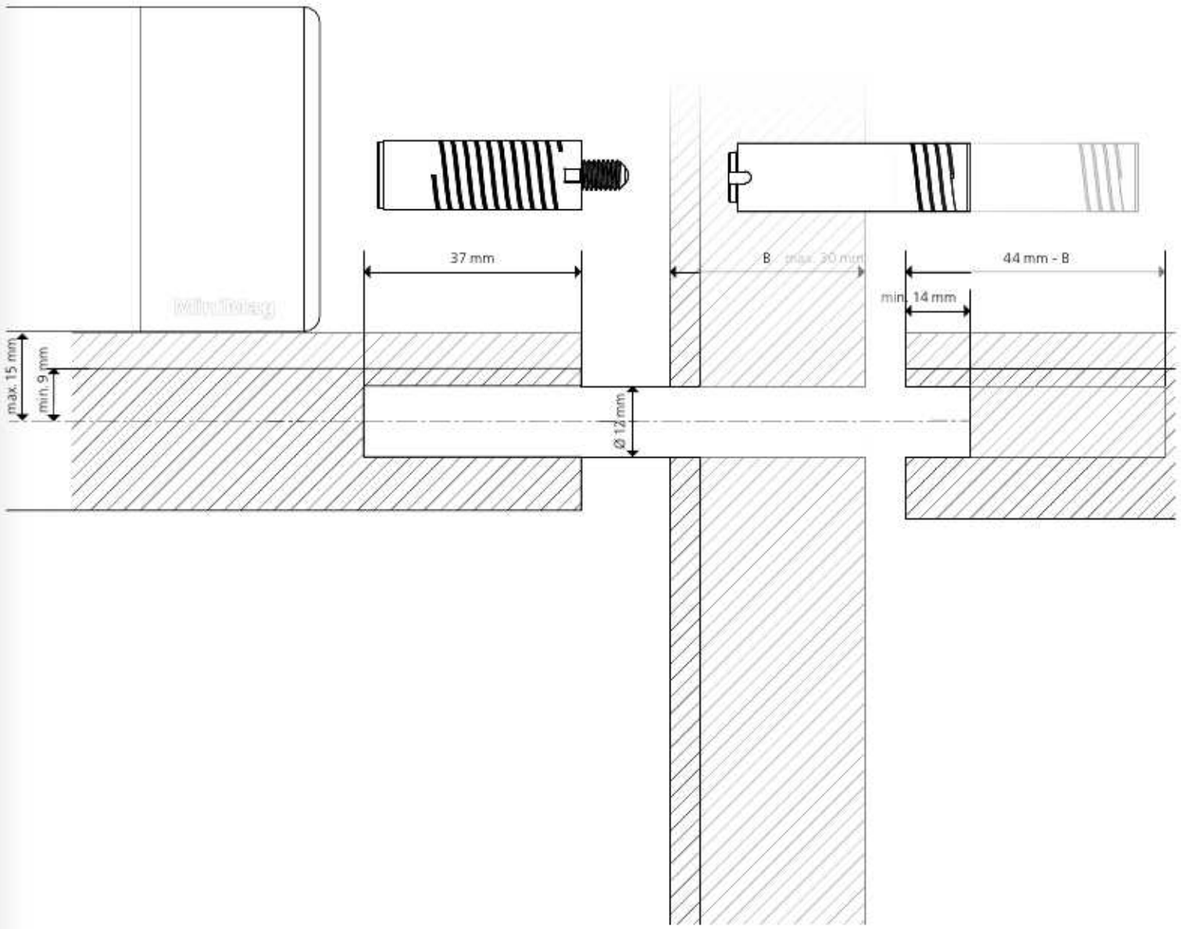
Invis Mx2 stud 30 mm



Invis Mx2 stud 14 mm



Invis Mx2 centre wall stud 14 – 30 mm



Accessories / Spare Parts

Drilling System



Cabineo



Cabineo installation tool	Art. No.
With handle, incl. hex bit 1/4"	**256300**

	Art. No.
Cabineo hex bit 1/4"	**276312**



	Art. No.
Cabineo hex bit 1/4" GL 80 mm	**276308**
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	**276309**



Cabineo dril/cutter	Art. No.
Cabineo drill Ø 15 mm with short centering point	**136312**

	Art. No.
Cabineo cutter Ø 10 mm	**136310**

	Art. No.
Cabineo cutter Ø 12 mm	**136311**

	Art. No.
Cabineo drills for aggregate* Ø 15 mm RH carbide tipped (right hand rotation)	**136314**

	Art. No.
Cabineo drills for aggregate* Ø 15 mm LH carbide tipped (left hand rotation)	**136315**

* Benz: 2x 136314 and 1x 136315 (MULTI V3 CABINEO)
Atemag: 1x 136314 and 2x 136315 (VERTINEO Cabineo Drilling)



Cabineo cover caps	Art. No.	Art. No.
	100 pieces	**2000 pieces**
RAL 9003 signal white	**186350S**	**186351S**
RAL 9010 pure white	**186350W**	**186351W**
RAL 9018 papyrus white	**186350P**	**186351P**
RAL 1015 light ivory	**186350H**	**186351H**
RAL 1011 brown beige	**186350B**	**186351B**
RAL 8007 fawn brown	**186350R**	**186351R**
RAL 7040 window grey	**186350F**	**186351F**
RAL 7005 mouse grey	**186350A**	**186351A**
RAL 9005 jet black	**186350T**	**186351T**
Metal look, silver	**186350C**	**186351C**
Metal look, nickel	**186350N**	**186351N**
Metal look, dark steel	**186350D**	**186351D**



Cabineo insert insertion tool	Art. No.
For insert M6	**276310**

Accessories / Spare Parts

Drilling System



Invis Mx2



Invis Mx2 screw bit	Art. No.
1 piece	**6112205**



Invis Mx2 MiniMag	Art. No.
Incl. screw bit	**6100301**



Invis Mx2 flexible shaft	Art. No.
1 piece	**6100204**



Invis Mx2 insertion jig	Art. No.
For studs 14 mm	**6112333**



Invis Mx2 insertion bush for Rasto	Art. No.
For studs 14 mm	**6112330**

Rasto



Rasto wood drill bit with centering tip	Art. No.
Ø 5 mm	**6100160**
Ø 6 mm	**6106161**
Ø 8 mm	**6108060**
Ø 10 mm	**6110162**
Ø 12 mm	**6112060**



Rasto depth adjuster	Art. No.
Ø 5 mm	**6100059**
Ø 6 mm	**6100063**
Ø 8 mm	**6100060**
Ø 10 mm	**6100064**
Ø 12 mm	**6100061**



Invis Mx2 spacer	Art. No.
For Rasto	**6112331**



Rasto perforated plate	Art. No.
1 piece	**6160000**



Rasto drill bush	Art. No.
Ø 5 mm	**6100065**
Ø 6 mm	**6100056**
Ø 8 mm	**6100057**
Ø 10 mm	**6100067**
Ø 12 mm	**6100058**



Rasto fixing screw	Art. No.
4.5 × 35 mm, TX 25	**6560450**



Rasto positioning bolts	Art. No.
Ø 5 × 40 mm	**6160001**



Rasto connection rod 500 mm	Art. No.
Two-part	**6160601**

Networked production

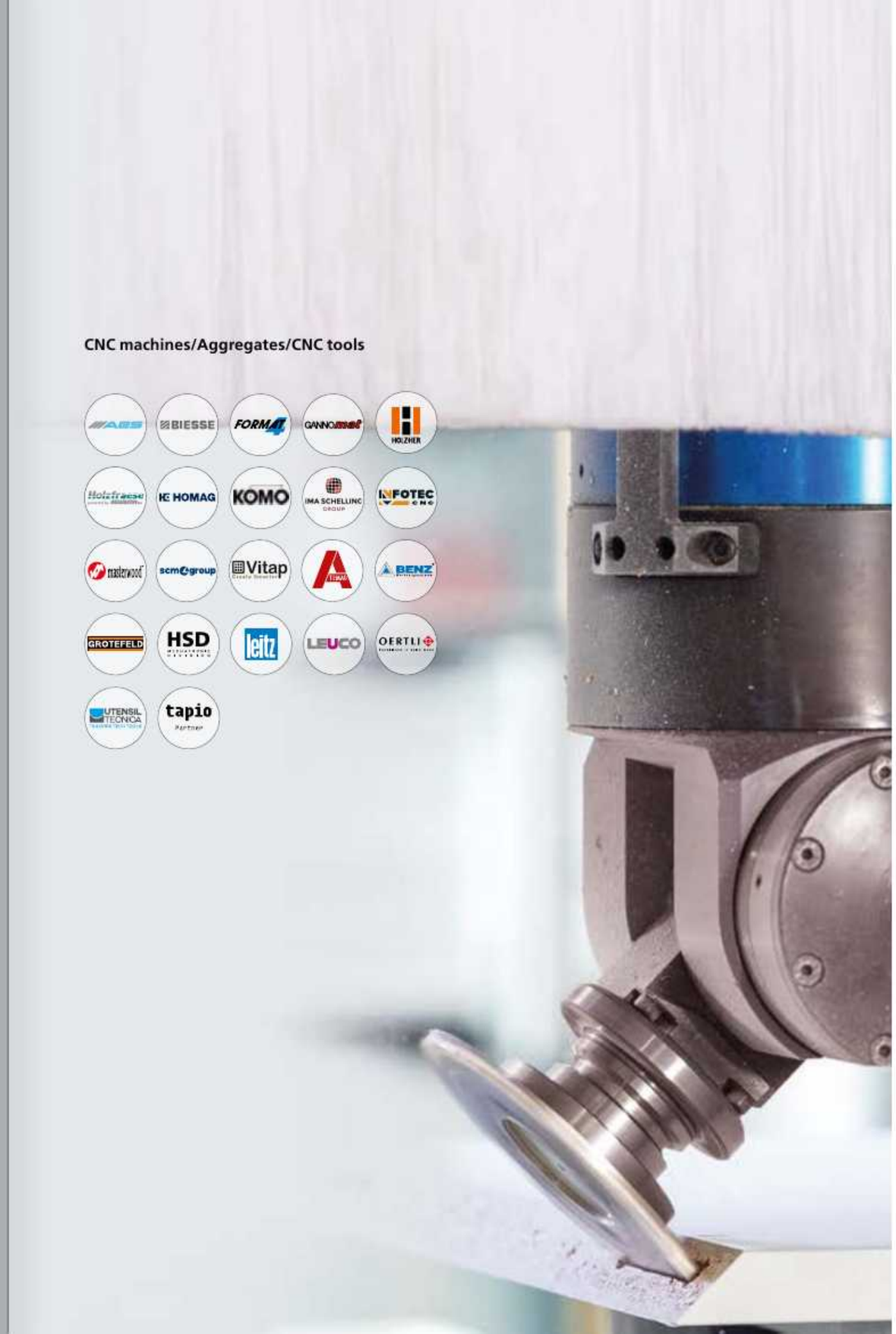
From planning and design to procurement, programming and machining with CNC.

Our planning and processing partners support you with integrating Lamello connecting elements into your production process, from A to Z.



CAD/ERP/CAM software

CNC machines/Aggregates/CNC tools

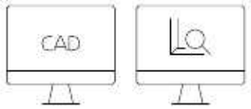




« If a product is automated – or can be controlled digitally – it will be used. »

Jochen Meier, Owner and Managing Director, Jochen Meier Schreinerei GmbH, Nürnberg, Germany

Components for the successful integration of Lamello connection systems into your networked production



CAD/ERP/Configurator software

- Design and planning software with integrated Lamello connectors
- Also download CAD data:
  - from the Lamello website
  - from iFurn
  - from specialist retailers (ComNorm)

The degree of integration of the data and the parameterised position rules influence planning efficiency.



CAM software

- Software for generating CNC programming data
- Post-processor

Data transfer between CAD and CNC, and in particular the control of the macros/component, must be individually coordinated.



CNC machine

- Machine with 3/4/5-axis

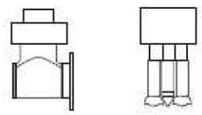
The number of axes and equipment options influence the processing possibilities



CNC software

- Purchase software for machine/macro/component from the manufacturer
  or
- Program the machining process yourself

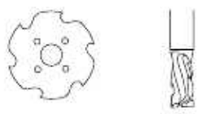
The macro/component determines/affects the processing possibilities



Suitable aggregate

- Aggregate sub-program
- The angle aggregate makes it easier to cut the P-System groove in the surface and the centre of the surface
- The Cabineo unit enables triple drilling in one stroke

The right unit can significantly increase efficiency when cutting/drilling connectors.



- Purchase tools from Lamello or a P-System tool partner
  You can find the tools recommended by Lamello on **PAGES 174 – 176.**

The right cutting tool can significantly increase precision and efficiency when cutting the connectors.

Note: These are planning and machining tips, please contact your system providers/specialists if necessary.

Networked production

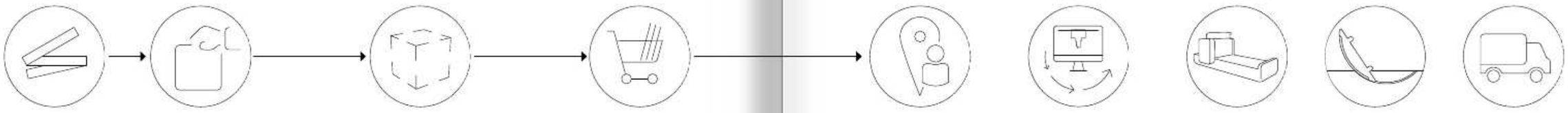
Overview of the production process

Enabled by Lamello planning and machining partners



Sequence

1	2	3	4		5	6	7	8	9
Measurements	The proposal phase	Planning with CAD/configurator/ERP	The bill of material		Procurement	CAM interface CAD/CAM system CNC programming data	CNC machining	Final processing	Dispatch/assembly
					Lamello sales partners				



The room or the object to be machined can be quickly and efficiently measured on site using a room scanner and imported directly into CAD. Even in difficult room situations, without scaffolding, ladders or additional assistants.

The customer data is recorded, and the calculation and quote are prepared in the industry software, CRM or ERP. If necessary, photo-realistic drawing can also be created for the customer in order to create a life-like impression of the end product.

Here, the furniture is drawn with all individual parts, connectors and fittings or generated automatically using the configurator. In this phase, the planner can now select the desired Lamello connectors, which are placed manually or automatically in the workpieces according to parametric rules.
Planning aids on the Lamello website:
- The **«Connector Search»** web tool helps you select the right connectors
- The **«P-System Configurator»** defines the optimal connector positioning at any angle
- The **«CAD Data»** can also be downloaded from the product pages

The parts list can now be generated from the finished CAD file or the data can be imported into the ERP software, where the parts and fitting list can be issued automatically. The material order can now be triggered manually or automatically.

With an online connection to specialist retailers, both digital data exchange and procurement can be automated. For example, this allows the current prices to be queried, availability checked and picking implemented.

One of the most important **«interfaces»** is the transfer of planning data to production. Here, a seamless connection should be established between design, programming, simulation and subsequent production on the CNC machines. The 3D design data can also be used to enter the production information, such as the control of macros, the tool type, approach or cutting mode. The CAD data is translated, for example, via a post-processor into an electronic procedure for controlling CNC machines.

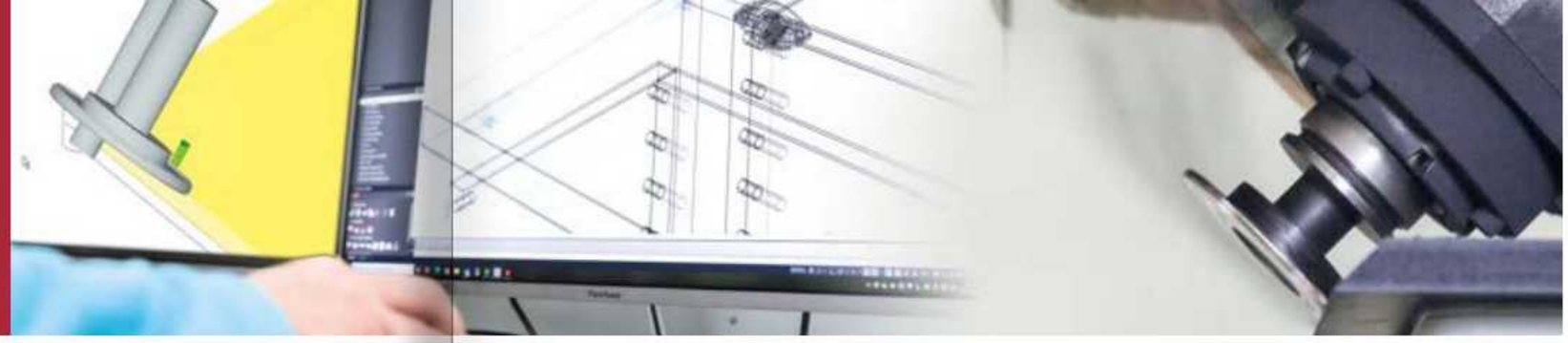
The workpieces are now formatted and machined on the machining centre. With the necessary macros for the appropriate units and cutting tools, the desired machining procedures for the connectors are now milled into the workpieces.

After CNC machining, or if the workpieces are ready for further processing, the edges are glued or the surface is painted and the connectors are then installed.

The items of furniture are now ready to be transported to the customer. Ideally, the furniture should be sent as a flat pack, which is no problem at all with the Lamello connectors.

Service overview

Lamello's planning and machining partners



Planning partners CAD / ERP / Configurator / CAM software

Company		2020	BRAINSOFTWARE	Borninformatik	CAD+T	cadwork	direkt CNC-system	HEXAGON	iFurn	imos
Product name		2020 CAD	2020 CAD	SPAZIO3D PROF. + -ENTERP. PLUS	SPAZIO3D JOINERY + INDUSTY 4.0	Pointline CAD	BornBusiness/EVO	Design/Engineer	ERP/Konfigurator	CNC	Configurator	NC Hops	Alphacam	Cabinet Vision		iX CAD 2021	iX CAM 2021
Offer / Material management / Ordering	ERP software						•		•								
	Interface with procurement			•	•	•	•	•	•					•		•*	
	Interface with CAD			•	•	•	•	•	•	•		•	•				
Visualisation / Planning / Construction / Parts list	Interface with ERP			•	•	•	•	•	•		•	•		•		•	
	Data cloud for CAD data	•					•		•		•				•		
	CAD 2D software			•	•	•		•			•	•		•			
	CAD 3D software	•		•	•	•		•			•	•		•		•	
	Configurator	•		•	•	•			•		•	•		•		•*	
CNC programming data	Interface with CNC		•	•	•	•	•	•	•	•	•	•	•	•			•
	CAD/CAM software		•	•	•					•		•	•				•
	WOP programming software		•	•	•					•		•	•				
	ISO programming software		•	•	•					•		•	•				

Company		KCD Software	Kosmosoft	LIGNOCAM	OSD Datensysteme	PaletteCAD	PinCalc	PHYTA	Qulity Industriale	Swiss-all-CAD	TopSolid	TrunCAD	extragroupe	rwdm.ch	Tibek	Eficad
Product name		KCD Software	Smart CABINET	LIGNOCAM	ERP/PPS	CAD/CAM	Palette CAD	Palette CAM	ERP P123 Corpora	CAD/CAM P305	3D CAD	woodlab STUDIO	AutoCAD/ZWCAD/BricsCAD	Matrizen – Excel – CAM	Matrizen – ERP – Manager	Wood CAD	Wood CAM	TrunCAD	VECTORWORKS	rwdm.ch	SmartWOP	SWOOD Design	SWOOD Service Center	SWOOD CAM/Nesting
Offer / Material management / Ordering	ERP software				•				•							•								
	Interface with procurement				•		•		•							•	•						•	
	Interface with CAD				•		•		•							•	•		•		•		•	•
Visualisation / Planning / Construction / Parts list	Interface with ERP		•			•	•			•		•	•	•		•		•	•		•	•	•	•
	Data cloud for CAD data					•	•						•						•	•				
	CAD 2D software	•				•	•						•			•		•	•					
	CAD 3D software	•				•	•				•		•			•		•	•			•		
	Configurator	•	•			•	•				•	•	•			•		•	•		•	•	•	
CNC programming data	Interface with CNC	•	•			•		•	•	•	•	•				•	•		•		•			•
	CAD/CAM software		•	•		•		•		•		•		•			•				•		•	•
	WOP programming software		•	•				•	•	•		•		•					•		•			•
	ISO programming software	•	•	•		•						•					•							•

The information is provided without guarantee; please clarify the exact conditions, options and limits with your planning and machining partners

* iX Net

Service overview

Lamello's planning and machining partners



Machining partners CNC machines/Aggregates/CNC tools

Company		AES		Biesse				Felder			GANNOMAT		HOLZ-HER				Holzfraese		Homag		
Product name		CNC machines	AesWOP	CNC machines	bSolid	NC Hops	bCabinet	CNC machines	F4Integrate	Wood Flash	CNC machines	GANNOMAT Editor	CNC machines	NC Hops	CabinetControl NEO	3D-Master	**CNC machines**	SmartWOP	Macchine CNC	WoodWOP	cabinetCreator
Offer / Material management / Ordering	ERP software																				
	Interface with procurement																				
	Interface with CAD						•					•		•		•		•			
Visualisation / Planning / Construction / Parts list	Interface with ERP						•					•						•		•	
	Data cloud for CAD data																				
	CAD 2D software				•		•		•	•											
	CAD 3D software				•		•		•	•						•				•	•
	Configurator						•					•[1]			•	•		•			•
CNC programming data	Interface with CNC		•[4]		•	•	•		•	•		•		•	•	•		•		•	•
	CAD/CAM software		•		•	•	•		•	•				•	•	•		•		•	
	WOP programming software		•		•	•	•		•	•		•		•		•		•		•	•
	ISO programming software						•		•							•					
CNC machining	CNC with consoles	•		•				•					•						•		
	CNC vertical/horizontal (compact)	•		•				•			•		•						•		
	CNC nesting	•		•				•					•				•		•		
	Aggregates			•				•					•						•		
	CNC tools																				

Company		KOMO	IMA		INFOTEC	Masterwood		SCM, Morbidelli			Vitap	
Product name		CNC machines	CNC machines	IMAWOP	CNC machines	CNC machines	Masterwork/Master 3D	CNC machines	Maestro CNC	Xylog Plus	CNC machines	Software TPA
Offer / Material management / Ordering	ERP software											
	Interface with procurement											
	Interface with CAD			•			•		•			•
Visualisation / Planning / Construction / Parts list	Interface with ERP											
	Data cloud for CAD data											
	CAD 2D software											•
	CAD 3D software						•					•
	Configurator						•					
CNC programming data	Interface with CNC			•	•[2]		•		•			•
	CAD/CAM software			•			•		•			•
	WOP programming software			•					•	•		
	ISO programming software	•[2]								•		
CNC machining	CNC with consoles	•	•		•[3]	•		•				
	CNC vertical/horizontal (compact)	•			•	•		•			•	
	CNC nesting	•	•		•	•		•				
	Aggregates							•			•	
	CNC tools											

Company		Atemag	Benz Tools	GROTHEFELD	HSD	Leitz	Leuco	Oertli	Utensiltecnica
Product name		Various	Various	Various	Various	Various	Various	Various	Various
Offer / Material management / Ordering	ERP software								
	Interface with procurement								
	Interface with CAD								
Visualisation / Planning / Construction / Parts list	Interface with ERP								
	Data cloud for CAD data								
	CAD 2D software								
	CAD 3D software								
	Configurator								
CNC programming data	Interface with CNC								
	CAD/CAM software								
	WOP programming software								
	ISO programming software								
CNC machining	CNC with consoles								
	CNC vertical/horizontal (compact)								
	CNC nesting								
	Aggregates	•	•	•	•				
	CNC tools					•	•	•	•

The information is provided without guarantee; please clarify the exact conditions, options and limits with your planning and machining partners

1 Optional 2 Open architecure / G-Code ISO 6983 3 Hybrid with Nesting 4 Control with Alphacam/Cabinol Vision possible

P-System with CNC

Joining methods and requirements for
CNC machines/machining options



CNC machines		With consoles/ vertical or horizontal							With nesting technology				
Number of axes		3				4	5		3		5		
			Machining option	Machining option				Machining option		Machining option			
Joining methods	Machining												
	Access drill hole												
	Profile groove in the edge					C				G		G	
	Profile groove on the surface (close to the edge)	A	E	F		C			E	F	D	A	F
	Profile groove on the surface (centre of the surface)*	A	E	F		C	A		E	F	D	A	F
	Access drill hole 45°					C							
	Access drill hole 45°	B				C							
	Access drill hole 22 – 108°					C							
	Access drill hole 22 – 108°					C							

* The Divario P-18 can also be used as an alternative connecting element in the middle of the surface. (2 x 8 mm holes without profile groove)

The information concerns technical options regarding how the applications could be implemented.
These must be adapted to your company facilities and coordinated with the planning and machining partners.

Additional explanations for the requirements of the CNC machines/machining options



Detailed information on machining	Detailed information on machining	Possible setup of aggregates and tools	Comments
		Integrated CNC Z-axis with drill (5/6 mm) or with **collet chuck** for clamping Ø 10 mm and drill 131556	P-System CNC drill bit on **PAGE 175**
		Saw blade clamp Ø 40/DTK 52 mm and cutter 132143 or with **collet chuck** and cutter arbor	You can find dimensions for cutters and clamping Ø and lengths of cutter arbors on **PAGE 174/175**
A		**Angle aggregate** – One to four spindle angle aggregates – Floating trimming unit for P-System – Corner notching aggregate – Aggregate for door locks	A unit overview can be found on the Lamello website: www.lamello.com under planning and machining partners
B		**Manually adjustable swivelling aggregates** **Information:** Several tool changes required for angle cuts, drilling and P-System grooves	**Note:** The cutting depth in the centre of the surface may be restricted depending on the model. **Tip:** For a mitre, the drill hole could be made with the manual drill
C		**Automatically adjustable swivelling aggregates with automatic tool changer** (FLEX5+C/5-MOTION PLUS/Flex5+C, from year of manufacture 2015) – Tool holder WFC 40-25 clamping Ø 10 mm for drill – Drill shaft Ø 10 mm, tool protrusion max. 50 mm – Tool holder WFC 40-25 with flange and cutter 132143	**Note:** In the centre of the surface, the profile groove depth is limited to 10 mm
D E		**Shrink chuck** for clamping Ø 12 × 40 mm and shaft tool 131342 or **collet chuck** for clamping Ø 12 × 40 mm and shaft tool 131342	P-System CNC shaft tool cutter on **PAGE 175.**

* More information on **PAGES 174 – 175**

The information concerns technical options regarding how the applications could be implemented.
These must be adapted to your company facilities and coordinated with the planning and machining partners.

Possible combination of CNC machines with Zeta P2

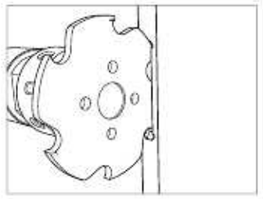
More regarding the machining on **PAGE 171**

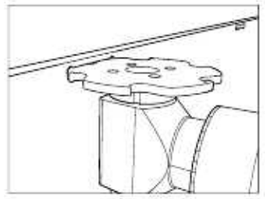
G F			

P-System equipment options

For CNC machines for particularly efficient machining







Vertical and horizontal CNC machining centres
«CNC compact class»



HOMAG

DRILLTEQ V-500
25-spindle +
1× aggregate (VKNR 1549)
1× tool set (VKNR 9763)

❶ · ❷ · ❸



HOLZHER

EVOLUTION 7405 Connect

❶ · ❷ · ❸



BIESSE

Brema Eko 2.1
1× aggregate
2× P-System CNC
groove cutters
1× P-System CNC cutter arbor
1× drill Ø 6 mm

❶ · ❷ · ❸



BIESSE

Brema Eko 2.2
1× aggregate for 90°
1× aggregate 45° for 2×45°
2× P-System CNC
groove cutters
1× P-System CNC cutter arbor
1× drill Ø 6 mm

❶ · ❷ · ❸ · ❹



masterwood

Project TF 100/TF 100 2.0
1× aggregate
2× P-System CNC
groove cutters
1× P-System CNC cutter arbor
1× drill Ø 6 mm

❶ · ❷ · ❸



morbidelli

cx 210
1× aggregate
2× P-System CNC
groove cutters
1× P-System CNC cutter arbor
1× drill Ø 6 mm

❶ · ❷ · ❸



HOLZHER

Nextec 7707
1× tool set

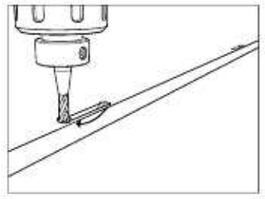
❶ · ❷ · ❸

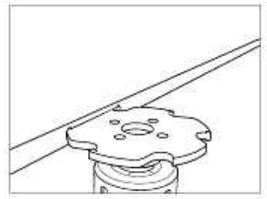


Vitap

Vitap K2 2.0
1× aggregate
2× P-System CNC
groove cutters
1× P-System CNC cutter arbor
1× drill Ø 6 mm

❶ · ❷ · ❸







FORMAT

Creator 950
1× P-System CNC
groove cutter in HSK63F
1× P-System CNC shaft tool
cutter* in HSK63F
1× drill Ø 6 mm

*optional for P-System CNC
shaft tool cutter:
1× aggregate for 90°
1× P-System CNC groove cutter

❶ · ❷ · ❸



GANNOmat

ProTec + P-System add-on package
Editor with
Lamello P-System macro
1× P-System CNC
groove cutter in HSK63F
1× P-System CNC cutter arbor
1× P-System CNC shaft tool
cutter
1× drill Ø 6 mm

❶ · ❷ · ❸



HOMAG

DRILLTEQ V-200
woodWOP «Lamello P-System»
component
1× P-System tool set

❶ · ❷ · ❸



HOMAG

DRILLTEQ V-310
for 180° + 90° joints:
woodWOP component
«Lamello P-System»
1× P-System tool set

additionally for
45° joints:
2× aggregate 45°
1× tool set for 45°

❶ · ❷ · ❸ · ❹

Connectivity

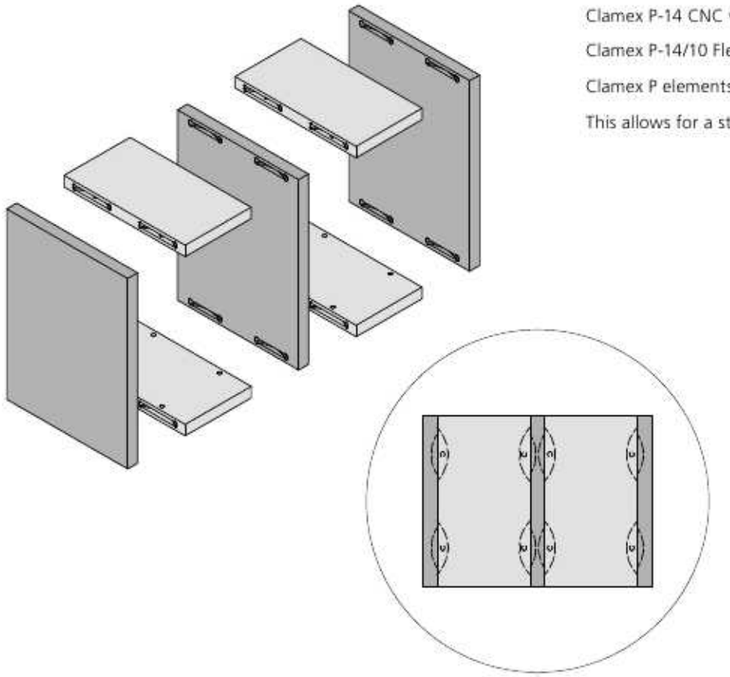
Surface 180°	Corner 90°	Centre wall 90°	Mitre 2×45°
❶	❷	❸	❹

www.lamello

Experience CNC live and receive comprehensive product information!

Ideas for standardising

The machining on a CNC machine



Clamex P-14 CNC with lever, Clamex P-14 with lever and Clamex P-14/10 Flexus with lever are compatible with all Clamex P elements without lever.

This allows for a standardised construction method.

Depth 14 mm for all P-System grooves
in the panel edge (with the access hole)



Clamex P-14 CNC	Art. No.
2000 pieces element with lever	**145388**



Clamex P-14	
2000 pieces element with lever	**145338**



Clamex P-14/10 Flexus	
2000 pieces element with lever	**145318**

Depth 10 mm for all P-System grooves
in the surface



Clamex P-10	Art. No.
2000 pieces element without lever	**145358**



Clamex P-10 Medius	
2000 pieces element without lever	**145369**

Possible combination of CNC machines with Zeta P2

Precise drilling on a CNC machine; use these drill holes to position the Zeta P2 to cut the P-System grooves.
This application is especially ideal if the CNC machine is a nesting machine and or no aggregate is available.
This method combines the precision and efficiency of a CNC machine and uses the simple and fast machining of a P-System groove with a Zeta P2.

Positioning drill holes for the Zeta P2





Positioning pin CNC for Zeta P2, **2 pieces**	Art. No.
Ø 5 mm	**251048**
Ø 8 mm	**251066**

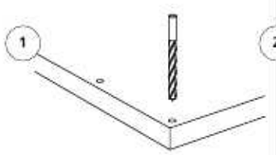




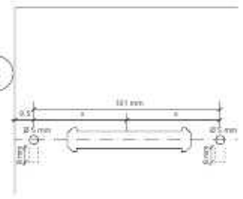
Positioning clip CNC for Zeta P2	Art. No.
Ø 6 mm	**251067**
for positioning in the Clamex P access hole (6 mm)	

Machining steps

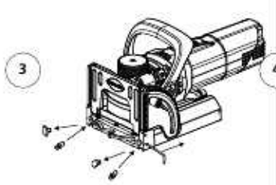
1. Drill the positioning holes with the CNC, Ø 5 mm/Ø 8 mm



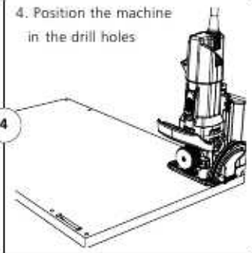
2. Hole pattern of the positioning drill holes axis spacing 101 mm



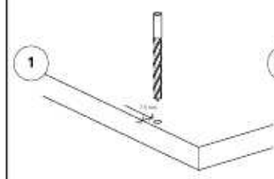
3. Insert the positioning pins in the Zeta P2



4. Position the machine in the drill holes



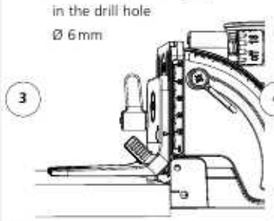
1. Drill the positioning hole with the CNC, Ø 6 mm



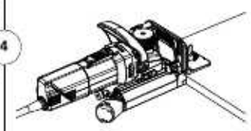
2. Insert the positioning clip



3. Insert the positioning clip in the drill hole Ø 6 mm



4. Cut the groove with the positioned machine



Cabineo with CNC

Specific equipment options for CNC machines for Cabineo





CNC machine

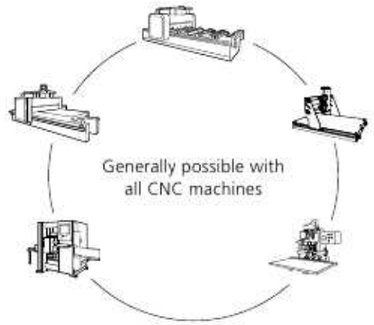
Homag CENTATEQ N-600

Homag has developed the unmanned installation of the Cabineo connector on its nesting CNC machine CENTATEQ N-600. First, the multi spindle aggregate from Benz creates the drill shape, consisting of 3 drill holes, in one plunge. Once the panels are cut to size, the machine will commence with the fully automated insertion of the Cabineo into the board.

Gannomat Basica Variabel 0194

First, the 3 spindle aggregate drills the 15 mm drill holes in one plunge. Following this, the Cabineo is held by an insertion aggregate and is pressed into the board. The 5 mm holes for the Cabineo screw are drilled either with the boss hinge aggregate or the 11 spindle shelf pin aggregate.





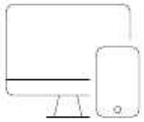








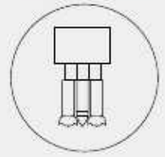
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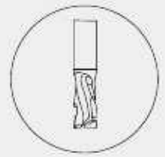
CNC tools - aggregate

Benz MULTI V3 CABINEO

Benz has developed a 3 spindle aggregate to drill the holes for the Cabineo in one plunge. This reduces the production time to 1–2 seconds (1 drill, anti-clockwise rotation; 2 drills, clockwise rotation).

Atemag VERTINEO Function Line

Atemag offers an aggregate for the efficient machining of the three Cabineo drill holes in one process step (2 drills, anti-clockwise rotation; 1 drill, clockwise rotation).



CNC tools

Leuco triple drill

Leuco developed the three meshing drills for aggregates with triple multi-spindle head

Leitz triple drill

Leuco triple drill set for Cabineo aggregate.









CNC tools

For the P-System



P-System CNC tools



P-System CNC drill bit	Art. No.
6 mm, solid carbide, for mitres, L = 100/35 mm, shaft = Ø 10 mm	**131556**



P-System groove cutter CNC DP (diamond), Ø 100.4 × 7 mm	Art. No.
Ø 100.4 × 7 × Ø 30 mm, Z3, NL 4 × Ø 6.6 × Ø 48 mm suitable for all P-System CNC cutter arbor listed on the right	**132142**
Ø 100.4 × 7 × Ø 30 mm, Z3, NL 4 × Ø 6.6 × Ø 48 mm LH for Weeke BHX 200 / DRILLTEQ V-500 (left hand rotation)	**132149**



	Art. No.
Ø 100.4 × 7 × Ø 30 mm, Z6, NL 4 × Ø 6.6 × Ø 48 mm suitable for all all P-System CNC cutter arbor listed on the right	**132145**



	Art. No.
Ø 100.4 × 7 × Ø 40 mm, Z3, NL 4 × Ø 5.5 × Ø 52 mm E.g. for angle aggregates and FLEX5+C / 5-MOTION PLUS	**132143**



	Art. No.
Ø 100.4 × 7 × Ø 16 mm, Z3, NL 4 × Ø 5.5 × Ø 28 mm E.g. for corner notching aggregate	**132144**



	Art. No.
Ø 100.4 × 7 × Ø 35 mm, Z3, NL 4 × Ø 5.5 × Ø 50 mm e.g. for Brema Eko 2.1, Masterwood Project TF 100, Format4 D-Jet	**132148**



CNC cutter arbors for P-System groove cutter, Ø 30, NL 4 × M4 × Ø 48 mm	Art. No.
Shaft Ø 20 × 50 mm, L = 102 mm	**132150**



	Art. No.
Shaft Ø 25 × 60 mm, L = 102 mm	**132151**



	Art. No.
Shaft Ø 16 × 50 mm, L = 85 mm	**132152**



	Art. No.
Shaft Ø 16 × 55 mm, L = 68 mm	**132153**



	Art. No.
Shaft Ø 16 × 50 mm, L = 85 mm, with clamping surface (2°- angle) e.g. for aggregate for door locks	**132154**

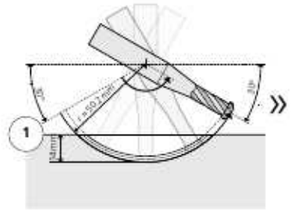


	Art. No.
Shaft Ø 20 × 50 mm, L = 85 mm, with clamping surface (2°- angle) e.g. for aggregate for door locks	**132155**
M6 × 16 mm Torx countersunk bolt, 4 pieces, suitable for cutter arbors	**132159**
Screwdriver with cross-grip, Torx T20 × 100 mm	**271919**

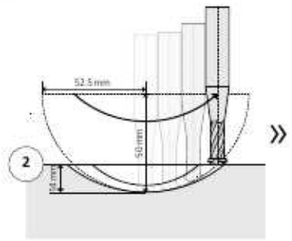


P-System CNC shaft tool cutter	Art. No.
HW solid (carbide), shaft Ø 12 × 40 mm, L = 80 mm	**131342**

One tool with 2 functions



» **P-System CNC shaft tool cutter with 5-axis**



» **P-System CNC shaft tool cutter with 3-axis**

Lamello recommends making all profile grooves with a disc cutter, primarily for reasons of precision, service life, machining time and thus economic efficiency.

A P-System CNC shaft tool cutter or contour cutter should only be used for the machining of surfaces if no angle aggregate is available.

CNC tools

For Cabineo



Drilling System

Cabineo dril/cutter



	Art. No.
Cabineo drill Ø 15 mm with short centering point	**136312**



	Art. No.
Cabineo cutter Ø 10 mm	**136310**



	Art. No.
Cabineo cutter Ø 12 mm	**136311**

Cabineo drills for triple aggregate*



	Art. No.
Cabineo drills for aggregate Ø 15 mm RH carbide tipped (right hand rotation)	**136314**



	Art. No.
Cabineo drills for aggregate Ø 15 mm LH carbide tipped (left hand rotation)	**136315**

* Benz: 2x 136314 and 1x 136315 (MULTI V3 CABINEO)
Atemag: 1x 136314 and 2x 136315 (VERTINEO Cabineo Drilling)



Accessories

Accessories / Spare Parts

P-System



P-System



P-System connector assortment professional	Art. No.
Scope of delivery: 120 pairs Clamex P-14, 30 pairs Clamex P-14/10 Flexus, 30 pairs Clamex P-10, 80 pairs Tenso P-14 incl. clip, 30 pairs Tenso P-10 incl. clip, 20 pieces Bisco P-14, 20 pieces Bisco P-10, 80 pairs Divario P-18, Divario installation tool/drill/ marking gauge, Clamex P installation tool, Tenso P-14/10 preload tool, Sortainer T-loc	**145323**



P-System connector assortment basic	Art. No.
In Systainer3 M187, scope of delivery: 80 pairs Clamex P-14, 80 pairs Tenso P-14, incl. preload clip, 30 pairs Clamex P-14/10 Medius, 30 pairs Clamex P14/10 Flexus, 20 pieces Bisco P-14 and Tenso P-14/10 preload tool	**145321**

Clamex P



Clamex P assembly tool	Art. No.
For all angles, fast and flexible, hex 4 × 30 mm, length 290 mm	**251993**



Allen key	Art. No.
4 mm, 75 × 55 mm	**271945**
4 mm, 120 × 50 mm	**271945A**



Cover cap, 100 pieces, 90°		Art. No.
RAL 9010 pure white	○	**335280**
RAL 9011 graphite black	●	**335281**
RAL 1014 ivory, pine	●	**335282**
RAL 1011 brown beige, beech	●	**335283**
RAL 8007 fawn brown	●	**335284**
RAL 8017 chocoloate brown	●	**335289**
RAL 9002 grey white	●	**335285**
RAL 7035 light grey	●	**335286**
RAL 7040 window grey	●	**335287**
RAL 7031 blue grey	●	**335288**
RAL 7022 umbra grey	●	**335298**

Cover cap, 500 pieces, 90°		Art. No.
RAL 9010 pure white	○	**335362**
RAL 9011 graphite black	●	**335363**
RAL 1014 ivory, pine	●	**335364**
RAL 1011 brown beige, beech	●	**335365**



Cover cap, 100 pieces, 45°		Art. No.
RAL 9010 pure white	○	**335380**
RAL 9011 graphite black	●	**335381**
RAL 1014 ivory, pine	●	**335382**
RAL 1011 brown beige, beech	●	**335383**
RAL 8017 chocoloate brown	●	**335384**
RAL 7035 light grey	●	**335386**
RAL 7022 umbra grey	●	**335388**



Clamex P drill jig	Art. No.
Incl. drill, from 22.5° for all Clamex P connectors (P-10, P-14)	**125344**
Angle for drill jig	**255250**
Element insert for size P-10	**255251**
Element insert for size P-14	**255252**



Clamex P drill jig long	Art. No.
Drill jig for thick workpieces 100 mm, (P-14), incl. drill	**125345**



Drill	Art. No.
Spiral drill Ø 6 mm with centering point, for Clamex P drill jig	**131506**
Spiral drill Ø 6 mm with centering point, for Clamex P drill jig long	**131508**
Depth adjuster for drill, 6 mm diameter	**255243**

Accessories / Spare Parts

P-System



Combination CNC and Zeta P2



Positioning pin CNC for Zeta P2*, 2 pieces	Art. No.
Ø 5 mm	**251048**
Ø 8 mm	**251066**



Positioning clip CNC for Zeta P2*	Art. No.
Ø 6 mm for positioning in the Clamex P access hole (6 mm)	**251067**

Tenso P



Tenso P-14/10 preload tool	Art. No.
Tool to pre-load the Tenso P	**145400**



P-System 4 mm depth adjuster attachment for P-8	Art. No.
For offset installation on dividing panels 16 mm with Tenso P-10	**145439**

Divario P



Divario P-18 Marking jig metal with marking points	Art. No.
Marking jig incl. drill with centering point and rotating depth collar for the precise drilling of Divario drill holes by hand	**125510**



Divario P-18 Marking jig plastic, to mark with a pencil	Art. No.
Marking jig to mark the Divario holes with a pencil	**125511**



Divario P-18 Installation tool	Art. No.
Divario P-18 Installation tool for fixing the Divario in the workpiece	**125500**



Divario P-18 Starter set	Art. No.
In systainer3 M137, scope of delivery: Divario P-18, 80 pairs, drill, marking jig in metal and installation tool	**145552**

* For detailed information, see **PAGE 166/171**

Zeta P2



Stop square for Zeta P2, Top 21, Classic X	Art. No.
For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints	**251044**



Spacer for Zeta P2, Top 21, Classic X	Art. No.
5 mm, aluminium for 18 mm panels	**253027**
2 mm, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**



P-System groove cutter DP (diamond), Ø 100.4 × 7 × Ø 22 mm	Art. No.
Z3, 4 NL for Zeta P2	**132140**



P-System groove cutter HW (carbide), Ø 100.9 × 7 × Ø 22 mm	Art. No.
Z3, 4 NL for Zeta P2	**132141**



Dust bag	Art. No.
For Zeta P2/Top 21/Classic X	**257532**

Batteries



	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**



	Art. No.
Battery pack 18 V, LiHD 5.5 Ah	**313015**



	Art. No.
Battery charger ASC 55	**123100**

Accessories / Spare Parts

Lamello System

Lamello System



Stop square for Zeta P2, Top 21, Classic X	Art. No.
For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints	**251044**



Spacer for Zeta P2, Top 21, Classic X	Art. No.
5 mm, aluminium for 18 mm panels	**253027**
2 mm, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**



Systainer3 M187	Art. No.
Systainer3 M187, empty	**331579**
Insert with two partitions for Systainer3 M 187	**360023**
Divider for insert 360023	**360019**
Insert Systainer3 M187 for Zeta P2/Top21/Classic X	**360020**



Groove cutter HW (carbide), Ø 100 × 4 × Ø 22 mm	Art. No.
Z2 + V4 scoring teeth, 4 screw holes, hub for Zeta P2/Top 21/Classic X	**132000**



	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	**132106**



Groove cutter HW (carbide), Ø 78 × 3 × Ø 22 mm	Art. No.
Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X	**132009**



Groove cutter HW (carbide) with reversible blades, Ø 100 × 4 × Ø 22 mm	Art. No.
Z2 + V2, 4 screw holes with hub for Zeta P2/Top 21/Classic X	**132001**
Set of 4 pieces	**132111**
Countersunk screws	**352408T**
Allen key, 4 mm	**271959L**



Groove cutter HW (carbide) with reversible blades, Ø 100 × 4 × Ø 22 mm	Art. No.
Z4 + V4, 4 screw holes without hub, with spacer for Zeta P2/Top 21/Classic X	**132130**
Set of 10 pieces main teeth	**132134**
Set of 10 pieces scoring teeth	**132135**
Replcement set, 4 scoring teeth + 4 main teeth	**132133**
Screws	**352130**
Torx key	**352133**



Groove cutter HW (carbide) with reversible blades, Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	Art. No.
Z4 + V4, 4 screw holes for Top 20/Top 21/Classic X	**132108**
Set of 10 pieces scoring teeth	**132137**
Set of 10 pieces main teeth	**132136**
Replcement set, 4 scoring teeth + 4 main teeth	**132114**



Dust bag	Art. No.
For Zeta P2/Top 21/Classic X	**257532**

Batteries



	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**



	Art. No.
Battery pack 18 V, LiHD 5.5 Ah	**313015**



	Art. No.
Battery charger ASC 55	**123100**

Accessories/ Spare Parts

Lamello System

Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine	**251057**
for Zeta P2/Top 21/Classic X	



Clamex S drill jig	Art. No.
Clamex S drill jig 30° – 150°,	**125240**
with 6 mm drill complete	



Carbide tipped saw blades HW (carbide)	
for expansion gaps, Ø 100 × 2.4 × Ø 22 mm	Art. No.
Z20, 4 screw holes, 2 spacers	**132350**
for Zeta P2/Top 21/Classic X	



Accessories for saw blades	Art. No.
Spacer, Ø 40 × 1 × Ø 22 mm	**322510**
with screw holes	
for Zeta P2/Top 21/Classic X	



	Art. No.
Flange M8 to saw blades	**252502**



Clamex S-18 set	Art. No.
Drill jig for 30° – 150° incl. drill and carbide	**125250**
tipped groove cutter	
with drill jig and cutter	
includes 1 set 125240 and 1 piece 132108	

Clamping set parts



Clamps	Art. No.
5 m clamping strap	**175005**
8 m clamping strap	**175008**
10 m clamping strap	**175010**



Buckle for clamps	Art. No.
1 piece, without strap	**175060**



Polyester strap for clamps	Art. No.
1 roll of 50 m	**175050**



	Art. No.
Per meter m[1]	**335000**



Tension hooks	Art. No.
2 pieces	**175200**



Profile sections	Art. No.
4 pieces, length 12 cm	**175401**
4 pieces, length 40 cm	**175402**
4 pieces, length 60 cm	**175403**

Accessories / Spare Parts

Drilling System



Cabineo



Cabineo installation tool	Art. No.
With handle, incl. hex bit 1/4"	**256300**

	Art. No.
Cabineo hex bit 1/4"	**276312**



	Art. No.
Cabineo hex bit 1/4" GL 80 mm	**276308**
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	**276309**



Cabineo dril/cutter	Art. No.
Cabineo drill Ø 15 mm with short centering point	**136312**

	Art. No.
Cabineo cutter Ø 10 mm	**136310**

	Art. No.
Cabineo cutter Ø 12 mm	**136311**

	Art. No.
Cabineo drills for aggregate* Ø 15 mm RH carbide tipped (right hand rotation)	**136314**

	Art. No.
Cabineo drills for aggregate* Ø 15 mm LH carbide tipped (left hand rotation)	**136315**

* Benz: 2x 136314 and 1x 136315 (MULTI V3 CABINEO)
Atemag: 1x 136314 and 2x 136315 (VERTINEO Cabineo Drilling)



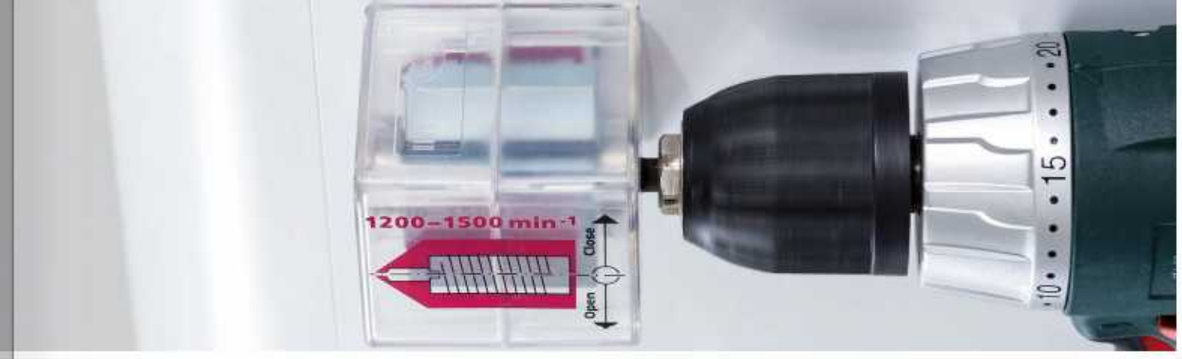
Cabineo cover caps	Art. No.	Art. No.
	100 pieces	**2000 pieces**
RAL 9003 signal white	**186350S**	**186351S**
RAL 9010 pure white	**186350W**	**186351W**
RAL 9018 papyrus white	**186350P**	**186351P**
RAL 1015 light ivory	**186350H**	**186351H**
RAL 1011 brown beige	**186350B**	**186351B**
RAL 8007 fawn brown	**186350R**	**186351R**
RAL 7040 window grey	**186350F**	**186351F**
RAL 7005 mouse grey	**186350A**	**186351A**
RAL 9005 jet black	**186350T**	**186351T**
Metal look, silver	**186350C**	**186351C**
Metal look, nickel	**186350N**	**186351N**
Metal look, dark steel	**186350D**	**186351D**



Cabineo insert insertion tool	Art. No.
For insert M6	**276310**

Accessories / Spare Parts

Drilling System



Invis Mx2



Invis Mx2 screw bit	Art. No.
1 piece	**6112205**



Invis Mx2 MiniMag	Art. No.
Incl. screw bit	**6100301**



Invis Mx2 flexible shaft	Art. No.
1 piece	**6100204**



Invis Mx2 insertion jig	Art. No.
For studs 14 mm	**6112333**



Invis Mx2 insertion bush for Rasto	Art. No.
For studs 14 mm	**6112330**

Rasto



Rasto wood drill bit with centering tip	Art. No.
Ø 5 mm	**6100160**
Ø 6 mm	**6106161**
Ø 8 mm	**6108060**
Ø 10 mm	**6110162**
Ø 12 mm	**6112060**



Rasto depth adjuster	Art. No.
Ø 5 mm	**6100059**
Ø 6 mm	**6100063**
Ø 8 mm	**6100060**
Ø 10 mm	**6100064**
Ø 12 mm	**6100061**



Invis Mx2 spacer	Art. No.
For Rasto	**6112331**



Rasto perforated plate	Art. No.
1 piece	**6160000**



Rasto drill bush	Art. No.
Ø 5 mm	**6100065**
Ø 6 mm	**6100056**
Ø 8 mm	**6100057**
Ø 10 mm	**6100067**
Ø 12 mm	**6100058**



Rasto fixing screw	Art. No.
4.5 × 35 mm, TX 25	**6560450**



Rasto positioning bolts	Art. No.
Ø 5 × 40 mm	**6160001**



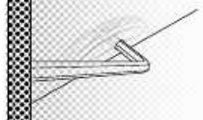
Rasto connection rod 500 mm	Art. No.
Two-part	**6160601**

Overview of connectors

P-System

Clamex P

Detachable



	Pairs	Art. No.
Clamex P-14 	80	**145334**
	300	**145346**
	1000	**145356**
Clamex P-14/10 Medius 	80	**145370**
	300	**145371**
	1000	**145357**
Clamex P-10 	80	**145372**
	300	**145373**
	1000	**145374**
Clamex P-14/10 Flexus 	80	**145315**
	300	**145316**
	1000	**145317**
Bisco P-14 	80	**145301**
	300	**145302**
	1000	**145303**
Bisco P-10 	80	**145304**
	300	**145305**

Tenso P

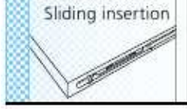
Gluing



Tenso P-14 	80	**145415**
	300	**145425**
	1000	**145435**
Tenso P-14 preload clip 	Pieces	Art. No.
	300	**145426**
	1000	**145436**
Tenso P-10 	Pairs	Art. No.
	80	**145418**
	300	**145428**
	1000	**145438**

Divario P

Sliding insertion



Divario P-18 	80	**145550**
	300	**145560**
	1000	**145570**

Overview of connectors

Lamello System

		Pieces	Art. No.
Glueing	**Original wooden biscuit 20** 	1000	**144020**
	Original wooden biscuit 10 	1000	**144010**
	Original wooden biscuit 0 	1000	**144000**
	Original wooden biscuit H9 	1000	**144009**
	C20 	250	**145010**
	C10 	300	**145012**
Detachable	**Clamex S-18** 	Pairs	Art. No.
		18	**145231**
		80	**145236**
		300	**145241**
		1000	**145251**
	Simplex 	50	**166101**
		100	**166100**
Inserted	**E20-H** 	Pieces	Art. No.
		80	**145021**
		400	**145026**
		1200	**145028**
	E20-L 	80	**145022**
		400	**145025**
		1200	**145027**
	K20 	80	**145001**
		250	**145000**

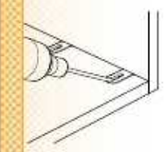
Overview of connectors

Drilling System

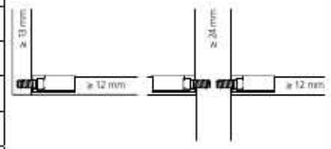
1 **Cabineo 8: X = 8 mm**, black screw
2 **Cabineo 12: X = 12 mm**, nickel-plated screw
3 **Cabineo 8 M6*: X = 8 mm**, yellow galvanised screw
* Metric ISO thread DIN 13-1

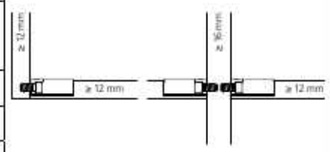
Cabineo

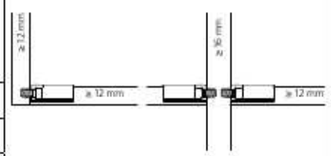
Detachable

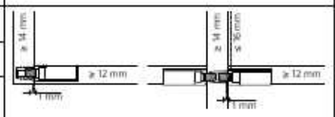


	Pieces	Art. No.
Cabineo 12	500	**186320**
	2000	**186321**
Cabineo 12 black	500	**186330**
	2000	**186331**
Cabineo 8	500	**186310**
	2000	**186311**
Cabineo 8 black	500	**186340**
	2000	**186341**
Cabineo 8 M6 metric thread M6	500	**186315**
	2000	**186316**
Cabineo 8 M6 black metric thread M6	500	**186345**
	2000	**186346**
Cabineo insert M6 × 12.3 	100	**186370**
	500	**186371**
Cabineo insert M6 × 15.3 for centre panels 	100	**186375**
	500	**186376**

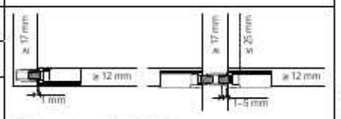




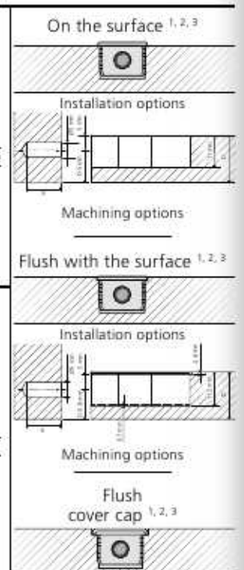




Cabineo insert M6 × 12.3
for material thickness 14–16 mm



Cabineo insert M6 × 15.3
for material thickness 17–25 mm



Machining Cabineo Insert

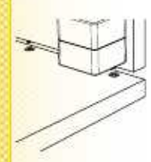


	X [mm]	Y = Ø [mm]
Cabineo 8 M6*	8	5
Insert M6 × 12.3	13.5	8
Insert M6 × 15.3	16.5	8

* Metric ISO thread DIN 13-1

Invis Mx2

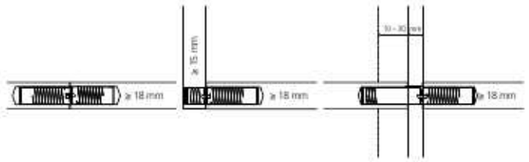
Detachable

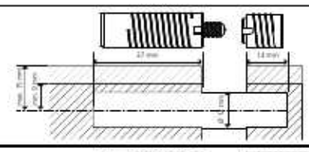


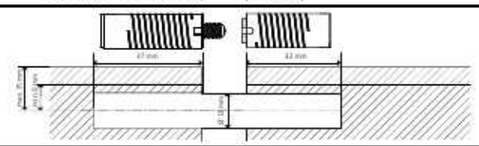
	Pairs	Art. No.
Invis Mx2 connector set with 14 mm Invis Mx2 stud 	20	**6012300**
Invis Mx2 connector set with 30 mm Invis Mx2 stud 	20	**6012301**
	Pieces	Art. No.
Invis Mx2 connector 35 mm 	20	**6012317**
Invis Mx2 stud 14 mm 	20	**6012312**
Invis Mx2 stud 30 mm 	20	**6012309**
Invis Mx2 centre wall stud 10–30 mm 	10	**6012208**

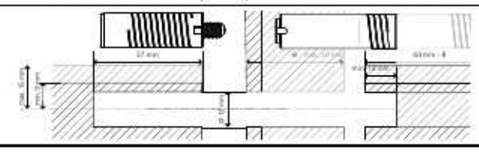
Small distance from the edge for high clamping force







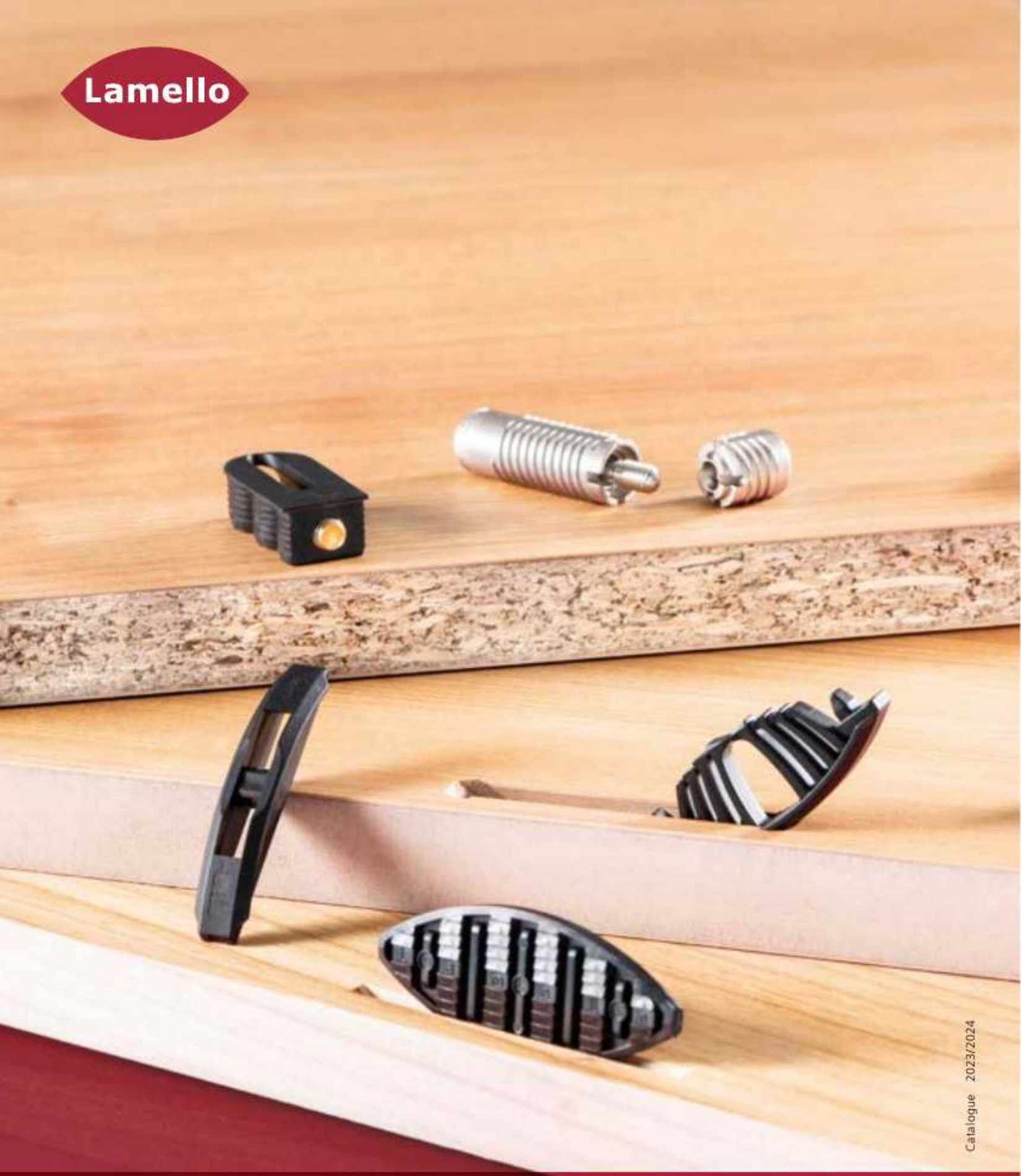




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Lamello



Catalogue 2023/2024

Art. No. 9880050EN

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