



Lamello



The image shows a close-up of the Lamello drilling system components. It features two layers of material: a top layer of light-colored wood and a bottom layer of grey particleboard. Several black plastic brackets are attached to the wood surface, some with brass-colored screws. A white plastic bracket is also visible. A brass-colored textured sleeve is shown on the left. The background is a dark red gradient.

Drilling System

Unique drilling systems for high demands on productivity and aesthetics



Content



Drilling System

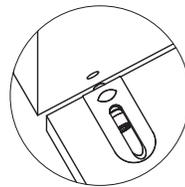
Unique drilling systems for high demands on productivity and aesthetics

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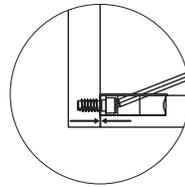




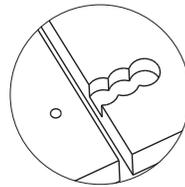
Features Cabineo



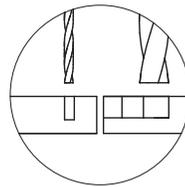
Fast
assembly



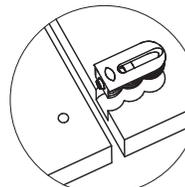
High clamping
force



No edge
drilling



No dowel
holes

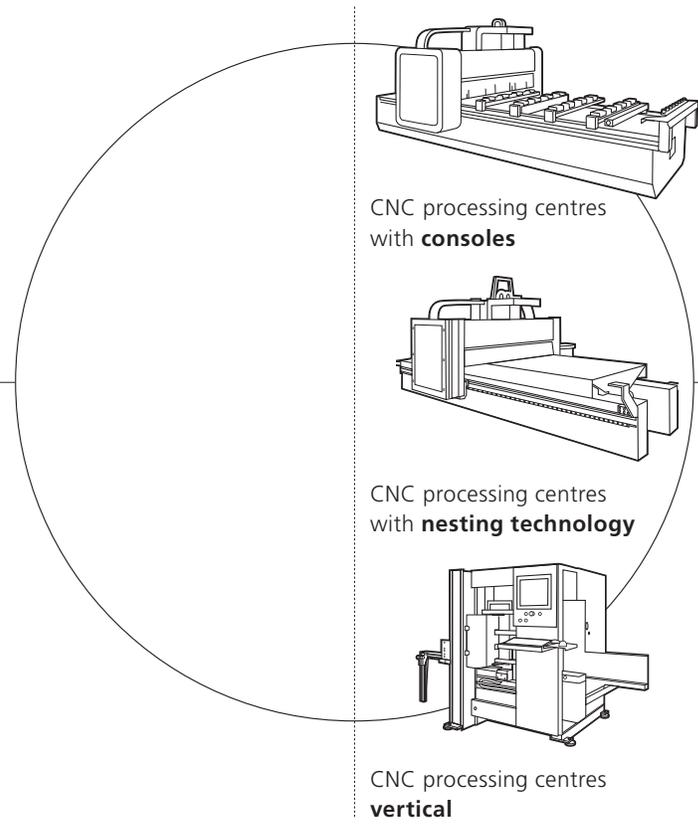
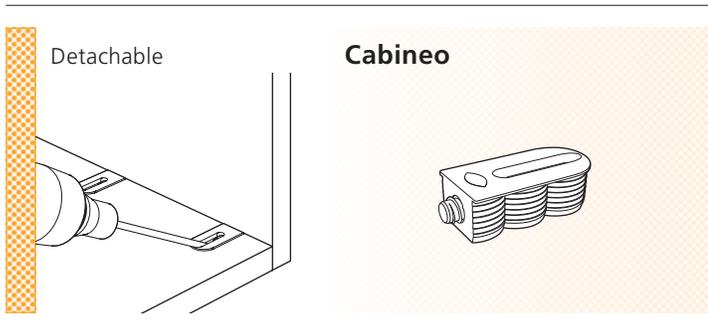


One-piece and
pre-installed

Drilling System

Overview

Joining methods	Connector	Machines	
		Power tool	CNC machines



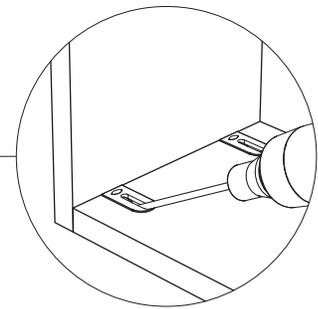
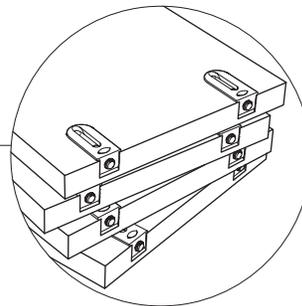
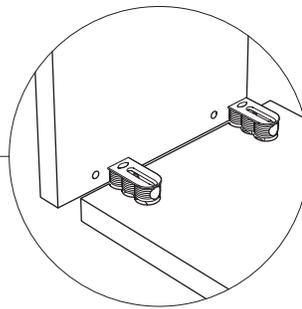
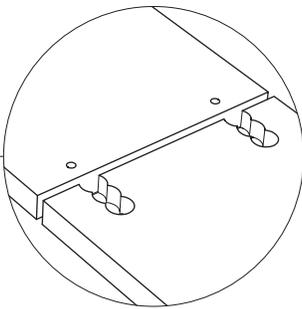
Sequence

1
Processing

2
Connector insertion

3
Deliver flat pack

4
Assembly





« With the protruding screw the workpieces are perfectly aligned. Then we simply join them with a cordless drill. »

Objekteinrichtung Hengelhaupt GmbH and Greve Innenausbau GmbH,
Monteur Denny Wollmann, Grevesmühlen, Germany



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



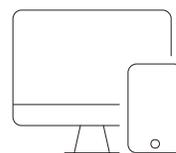
Cabineo 12	Art. No.
500 pieces	186320
2000 pieces	186321



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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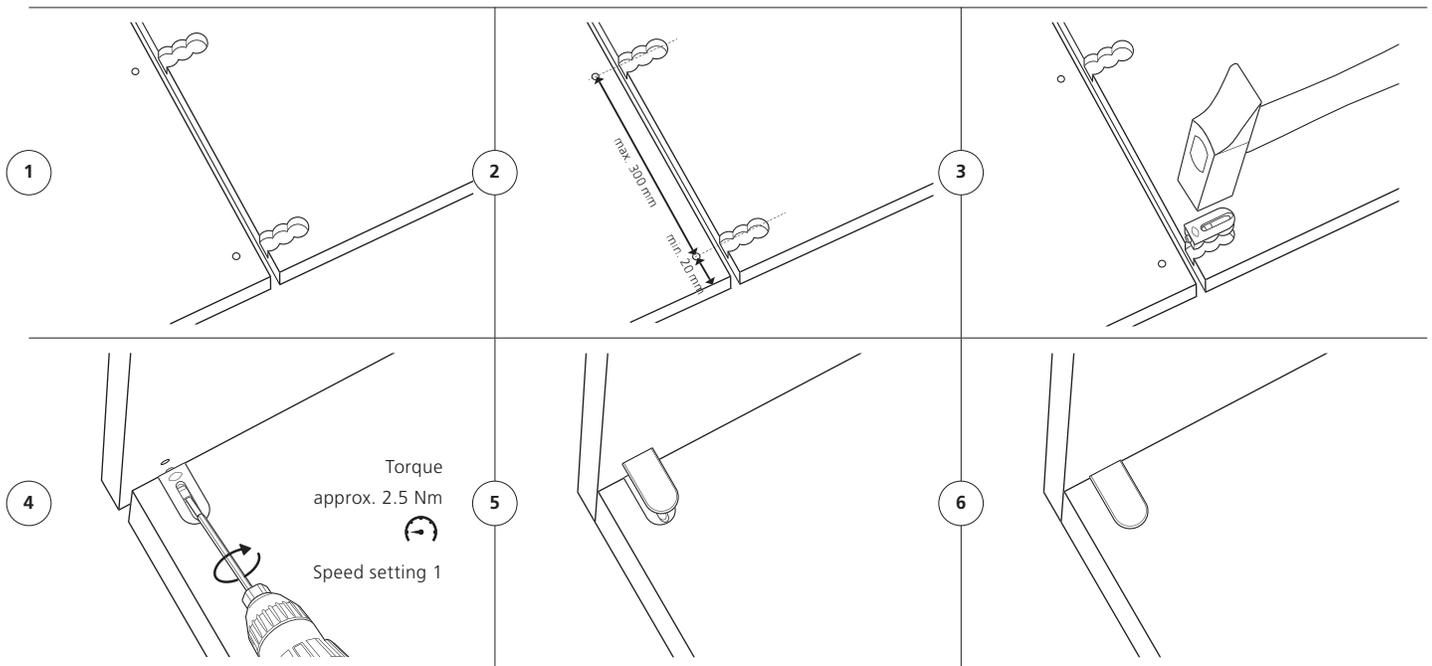


Experience the connector
live and receive comprehensive
product information!

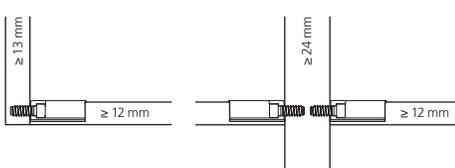




Function



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 tolerance	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.		

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



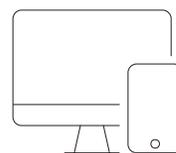
Cabineo 8	Art. No.
500 pieces	186310
2000 pieces	186311



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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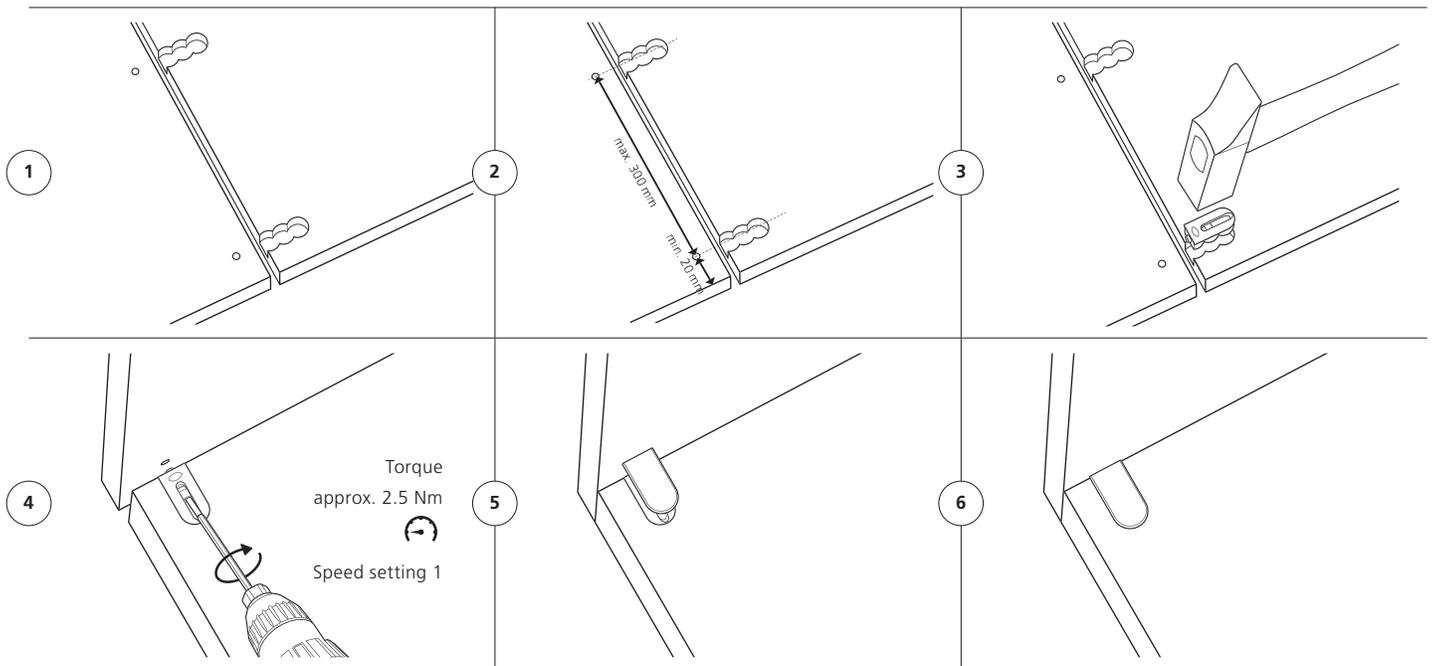


Experience the connector
live and receive comprehensive
product information!





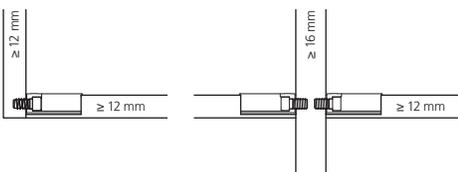
Function



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 tolerance	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.		



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



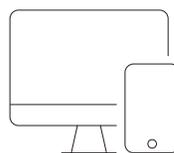
Cabineo 8 M6	Art. No.
500 pieces, metric thread M6	186315
2000 pieces, metric thread M6	186316



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

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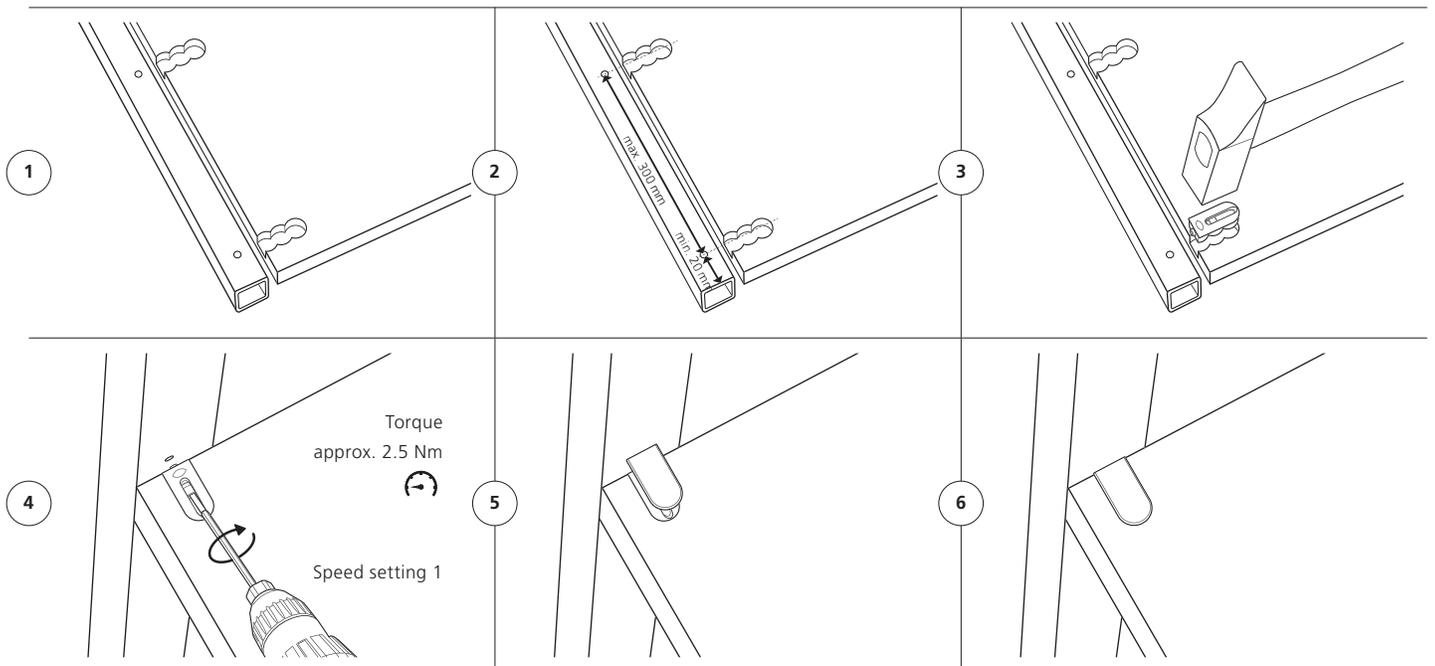


Experience the connector live and receive comprehensive product information!





Function



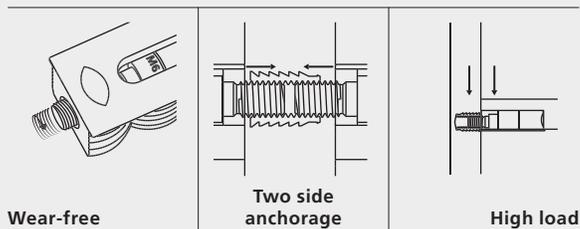
Technical data

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

Cabineo insert M6

For repeated assembly and disassembly without loss of strength

Features



Wear-free

Two side anchorage

High load

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

100 pieces

500 pieces

Art. No.

186370

186371



Cabineo insert M6 × 15.3

100 pieces, for dividing panels

500 pieces, for dividing panels

Art. No.

186375

186376



Cabineo insert insertion tool

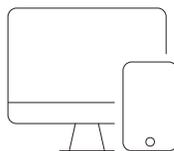
For insert M6

Art. No.

276310



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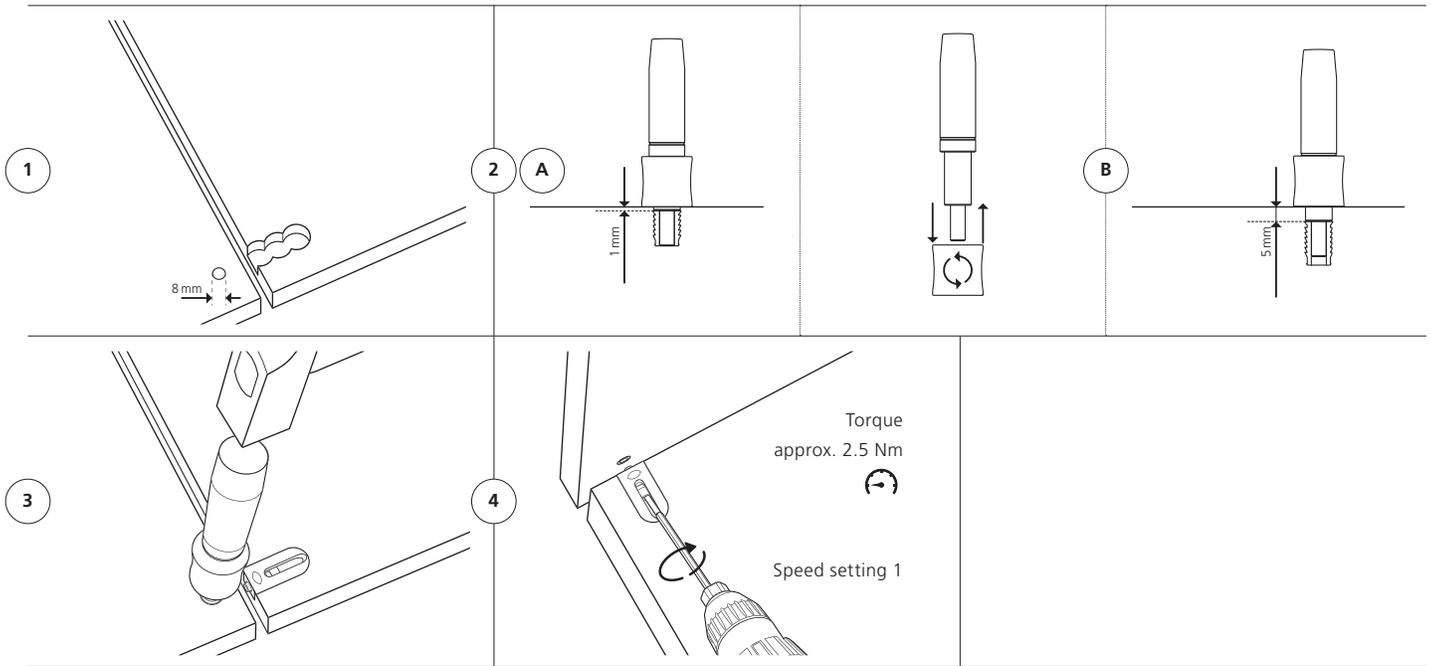


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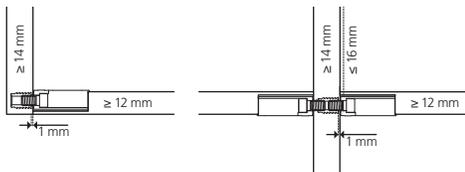


Function

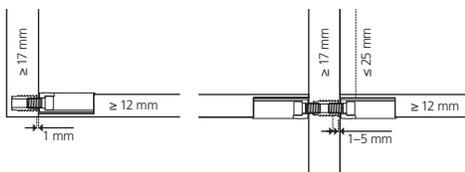


Technical data

Joining methods



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



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

Size	12.3/15.3 x 9.3 x 9.3 mm		
Thread	M6		
Drill hole	Ø 8 mm		
Material	Brass		
Installation tolerance	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 x 12.3	750 ¹	1050 ¹	750 ¹
Insert M6 x 15.3	900 ¹	1200 ¹	900 ¹
	10 N ~ 1 kg		
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

Application examples

Cabineo

- Furniture manufacturing, interior fitting, trade fair construction, shop fitting, caravans
- Built-in cupboards, free-standing cupboards, kitchen cabinets, wall units, bookshelves, toilet partitions etc.
- Corner connections between the side panel and the base or top panel, dividing wall connections and joints of fixed shelves



Cabineo 12 Cabineo 8



Cabineo 8 M6



Cabineo 12



Cabineo 8 M6



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

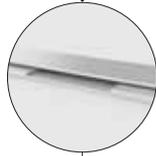
Manufacturing process with Cabineo



4 surface processing steps
1 tool change



Fit Cabineo into top or bottom shelf



Flat pack the workpieces



Assemble using a cordless drill

Manufacturing process with cam



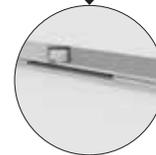
3 surface processing steps
2 tool changes



2 edge drill holes
1 tool change



Prepare fitting bag



Flat pack the workpieces



Insert cam into shelf



Install the screw in the side
Insert dowel into the side



Assemble using a screwdriver

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.

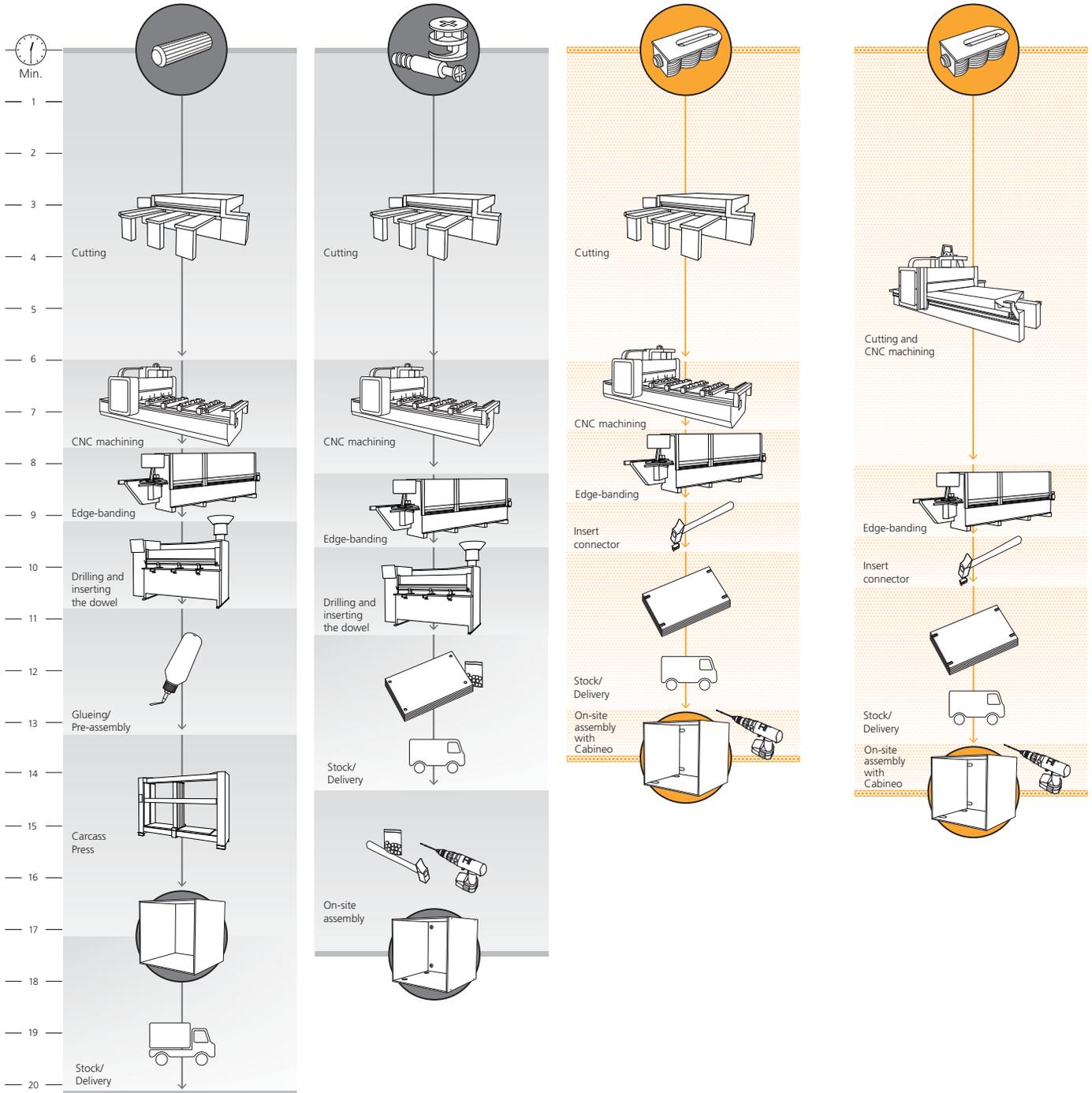


Wood dowel

Cam

Cabineo with CNC machining centres with consoles

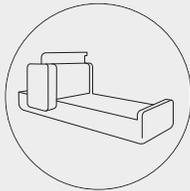
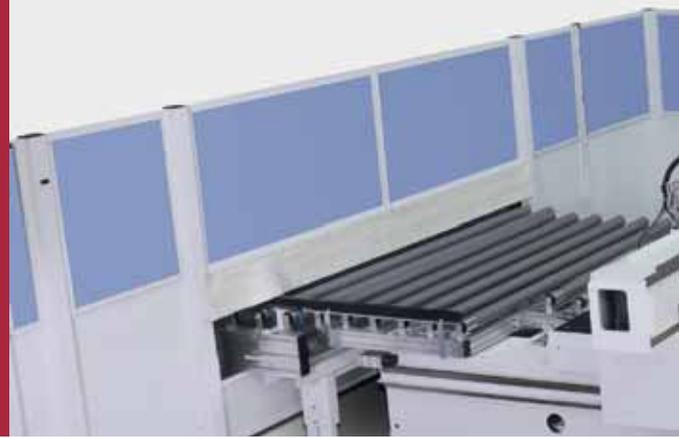
Cabineo with CNC machining centres with nesting technology



Assembly Time				
Staff Requirement				
Investment				
Transport Costs				
On-site assembly				

Cabineo with CNC

Specific equipment options for CNC machines for Cabineo



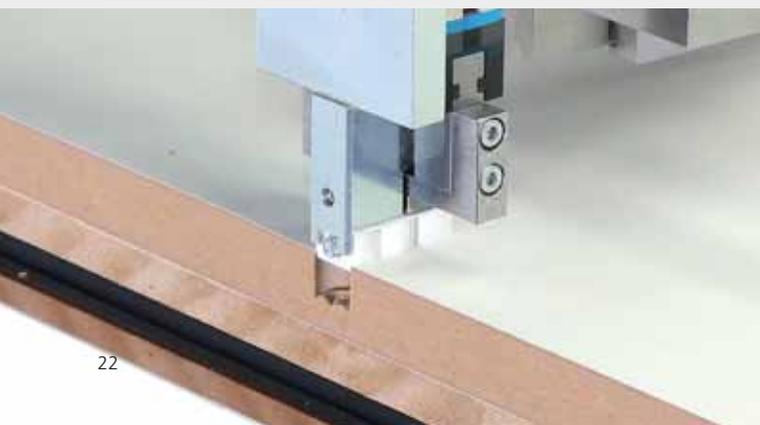
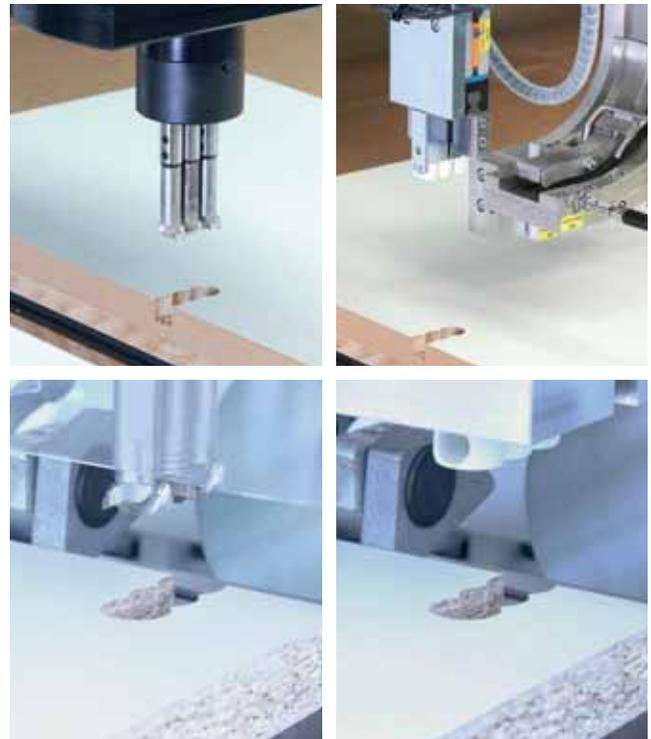
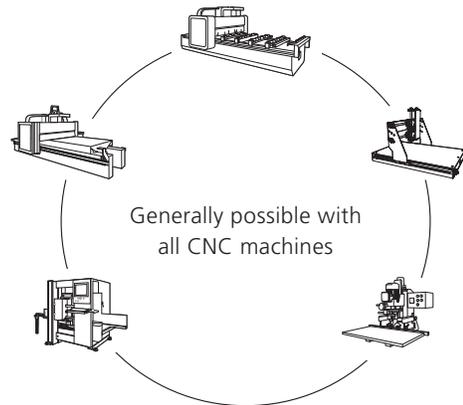
CNC machine

Homag CENTATEQ N-600

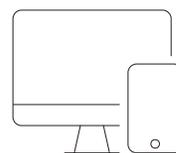
Homag has developed the unmanned installation of the Cabineo connector on its nesting CNC machine CENTATEQ N-600. First, the multi spindle aggregate from Benz creates the drill shape, consisting of 3 drill holes, in one plunge. Once the panels are cut to size, the machine will commence with the fully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

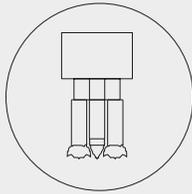


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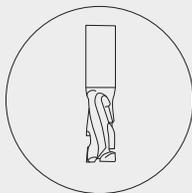
CNC tools - aggregate

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 Cabineo



Drilling System

Cabineo drill/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

136314

RH carbide tipped (right hand rotation)



Art. No.

Cabineo drills for aggregate Ø 15 mm

136315

LH carbide tipped (left hand rotation)



« We have tried out and compared many connectors. Processing for the Cabineo is extraordinarily simple, and allows us to make significant time savings throughout the production process. »

Andreas Derrer, Owner and Managing Director, Schreinerei Derrer AG,
Dielsdorf, Switzerland

Accessories / Spare Parts



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 drill/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	136314
RH carbide tipped (right hand rotation)	



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



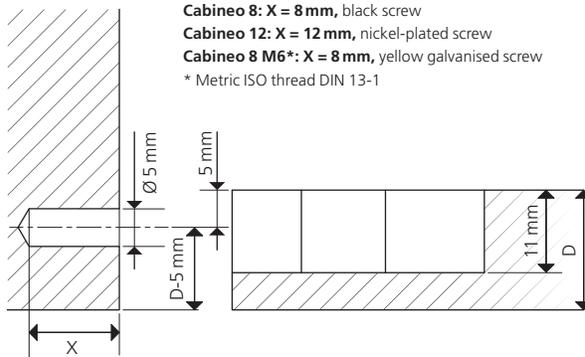
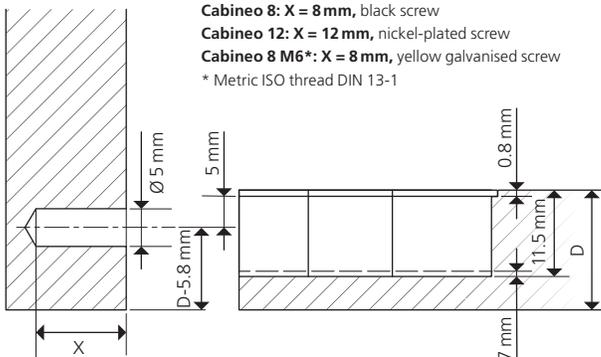
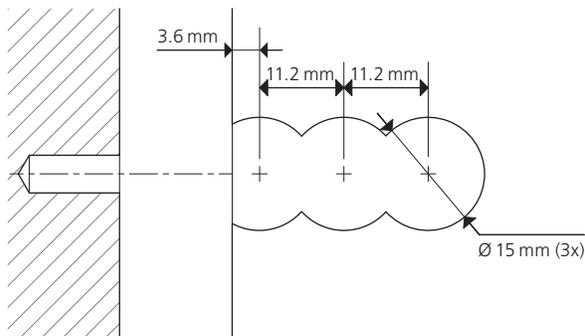
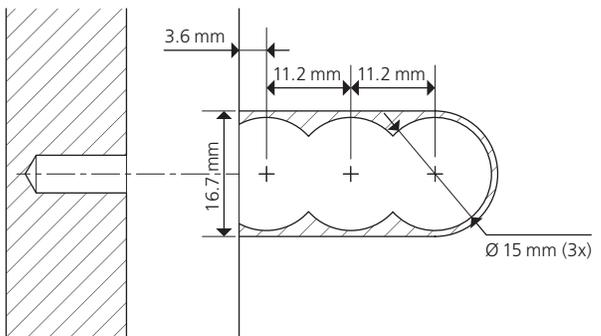
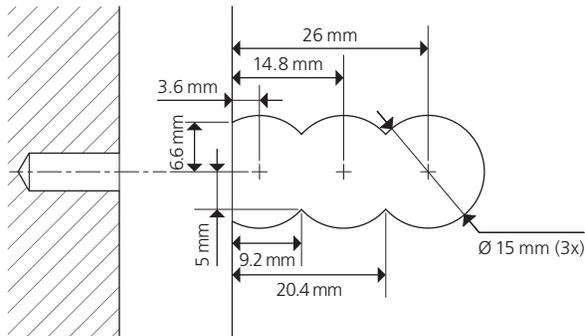
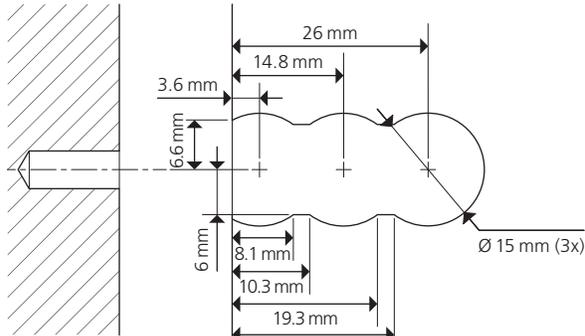
Cabineo cover caps	Art. No.	
	100 pieces	2000 pieces
RAL 9003 signal white	186350S	○ 186351S
RAL 9010 pure white	186350W	○ 186351W
RAL 9018 papyrus white	186350P	● 186351P
RAL 1015 light ivory	186350H	● 186351H
RAL 1011 brown beige	186350B	● 186351B
RAL 8007 fawn brown	186350R	● 186351R
RAL 7040 window 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



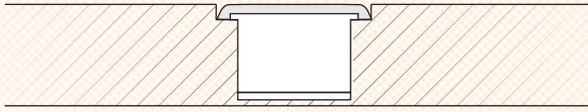
Cabineo insert insertion tool	Art. No.
For insert M6	276310

Technical information

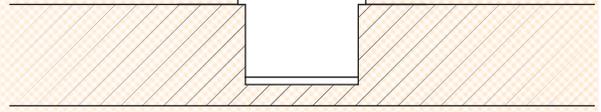
Machining Cabineo

Installation options	On the surface	Flush with the surface
Machining options	<p> 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 </p> 	<p> 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 </p> 
Drill 15 mm		
Cutter Ø 10 mm		
Cutter Ø 12 mm		

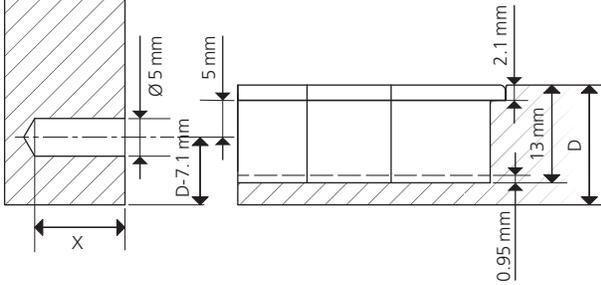
Flush cover cap



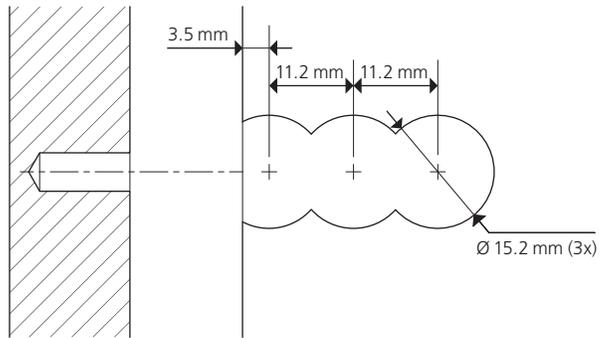
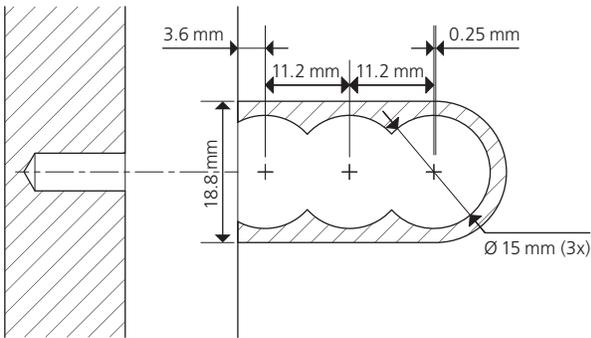
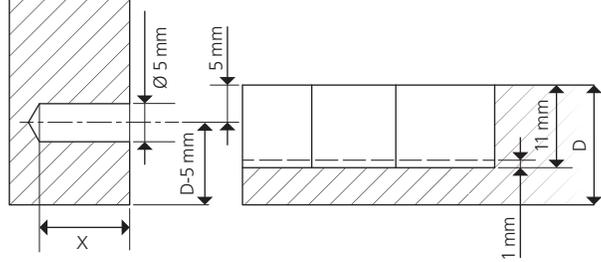
HPL on the surface



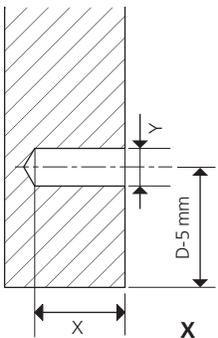
Cabineo 8: X = 8 mm, black screw
Cabineo 12: X = 12 mm, nickel-plated screw
Cabineo 8 M6*: X = 8 mm, yellow galvanised screw
 * Metric ISO thread DIN 13-1



Cabineo 8 M6*: X = 8 mm, yellow galvanised screw
 * Metric ISO thread DIN 13-1



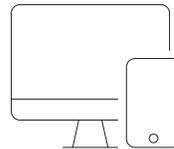
Machining Cabineo Insert



	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

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Experience processing methods and installation options live, including comprehensive product information!





A photograph of two men in a workshop. The man on the left is older, balding with a mustache and glasses, wearing a black zip-up jacket. He is smiling and looking towards the younger man. The younger man on the right has dark hair and is wearing a black polo shirt. He is holding a white rectangular panel and using a red and black power drill to work on it. The background shows a workshop environment with shelves and equipment.

« 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

We are here for you!

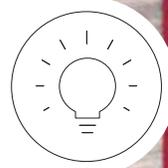
Personal consultation

Do you have any questions concerning our products or a certain application? Would you like to learn more about the process benefits for your business? Our qualified employees and sales partners will be happy to help you quickly and competently, whether by telephone, online or during a personal consultation on site.



Latest news

Stay up-to-date and sign up for our Lamello News and e-newsletter. Become part of the Lamello community on social media and be inspired, or visit our stand at one of the numerous trade fairs. We are always happy to hear from you.



Our services

Quality is one of the cornerstones of our business, and so our products are designed to last. If a repair is necessary, we can offer you uncomplicated service through our certified Lamello service partners and a spare parts warranty of at least 10 years.





Support in your planning

With the connector search and the P-System configurator on our website, you can quickly find the right connector for your design and requirements. With CAD data for our connectors, tips and tricks, as well as videos about the wide range of applications, we can guide and support you in your planning on our website and on the Lamello YouTube channel.

Qualified sales partners

Our professional and committed sales partners provide you with qualified advice, always keeping you informed about new products. This way, you can see the benefits of our products first hand.

Competent planning and machining partners

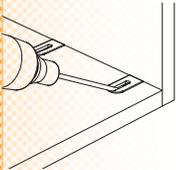
From planning and design to the right tool to machine with the CNC machine: more than 40 industry-leading partner companies support the efficient use and integration of our products into your production.

Overview of connectors

Drilling System

Cabineo

Detachable



Cabineo 12



Pieces **Art. No.**

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 x 12.3



100 **186370**

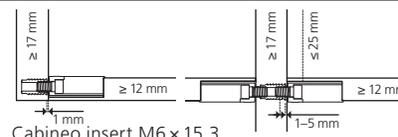
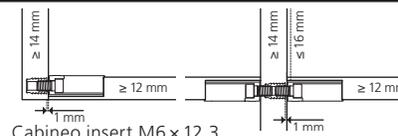
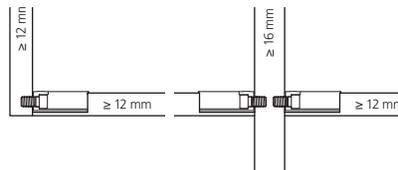
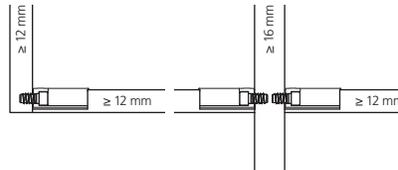
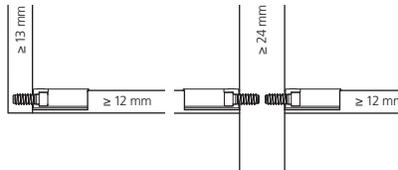
500 **186371**

Cabineo insert M6 x 15.3 for centre panels

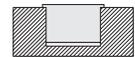


100 **186375**

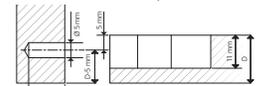
500 **186376**



On the surface ^{1, 2, 3}



Installation options

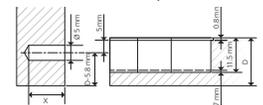


Machining options

Flush with the surface ^{1, 2, 3}



Installation options

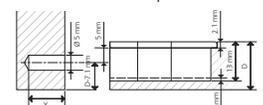


Machining options

Flush cover cap ^{1, 2, 3}



Installation options

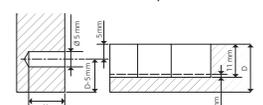


Machining options

HPL on the surface ³

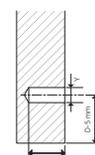


Installation options



Machining options

Machining Cabineo Insert



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

* Metric ISO thread DIN 13-1

- 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

Disclaimer regarding load limits

Wherever we list information on material strength or loads for our products, they are empirical values of load limits, based on specifically defined test conditions similar to DIN 68501:2016-11. Specific characteristics, in particular to the effect that the products will reach the listed loads in the actual used case, are not thereby guaranteed. Rather, it is the responsibility of the respective user to check and ensure the suitability of the products for each specific used case. Since actual load limits substantially depend on circumstances unrelated to the products themselves, e.g. the properties of the carrier materials used, the assembly or the installation environment, any advice provided by us in the form of a product recommendation with regard to a specific suitability is always non-binding and does not release the user from his or her own examination. **To the maximum extent possible under the law, all warranties, express or implied are DISCLAIMED. This includes, but is not limited to, any warranty of fitness for a particular purpose or merchantability. We undertake no responsibility that the goods except as may be included in any contract, and we assume no responsibility that the goods will be fit for any particular purpose, except as may be provided in any contract.**

Subject to modifications and amendments

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Manufacturer:
Lamello AG
Joining technology
Hauptstrasse 149
CH-4416 Bubendorf
Tel. +41 61 935 36 36
Fax +41 61 935 36 06
info@lamello.com
www.lamello.com

Drilling System 09 / 22

Art. No. 986321 US