

Drilling System

Unique drilling systems for high demands on productivity and aesthetics



Drilling System

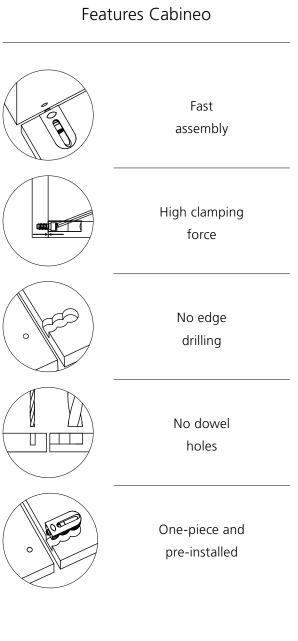
Unique drilling systems for high demands on productivity and aesthetics

Drilling System – Overview	4-5
Cabineo 12 – Time-saving cabinet connector for corner joints from 13 mm	8-9
Cabineo 8 – Time-saving cabinet connector for centre panels from 16 mm	10-11
Cabineo 8 M6 – Wear-resistant cabinet connector for various materials and increased strength	12–13
Cabineo insert M6 – For repeated assembly and disassembly without loss of strength	14–15
Application examples – Cabineo	16–17
Advantages of Cabineo – Simple, fast and strong	18
Cabineo compared with cam and dowel	19
Examples of manufacturing and assembly processes – Cabineo	20-21
Cabineo with CNC – Specific equipment options for CNC machines for Cabineo	22-23
CNC tools – For Cabineo	24
Accessories/Spare Parts	26-27
Technical information	28-29
We are here for you!	32-33
Overview of connectors	34-35
Disclaimer regarding load limits	35



Ø



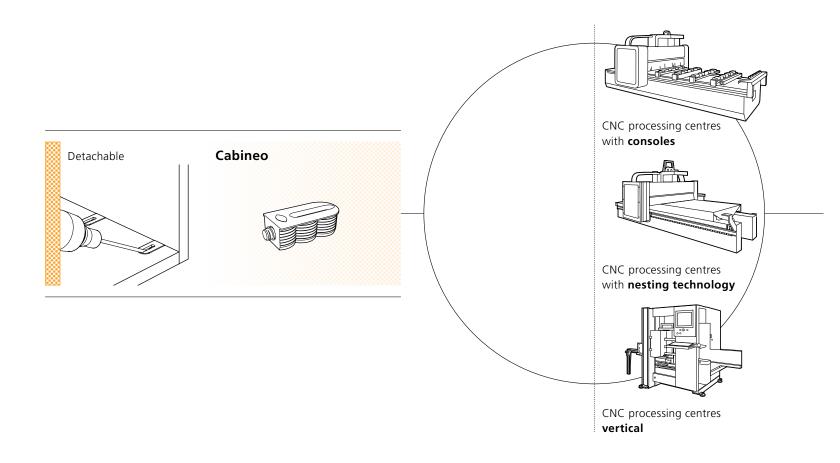


29.09.22 13:41

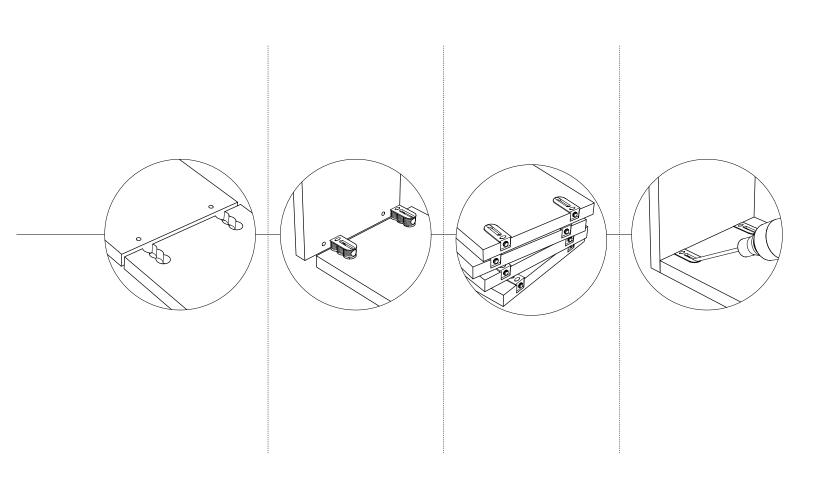
Drilling System

Overview

Joining methods	Connector	Mac	hines
		Power tool	CNC machines



Sequence			
 1	2	3	4
Processing	Connector insertion	Deliver flat pack	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

986321US_Bohr-System_Broschüre_215_9 X 279_4_220929.indd 7

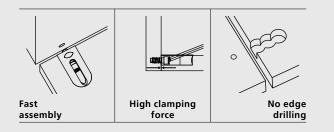


Cabineo 12

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

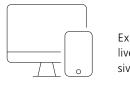




Art. No.
186330
186331

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

www.lamello

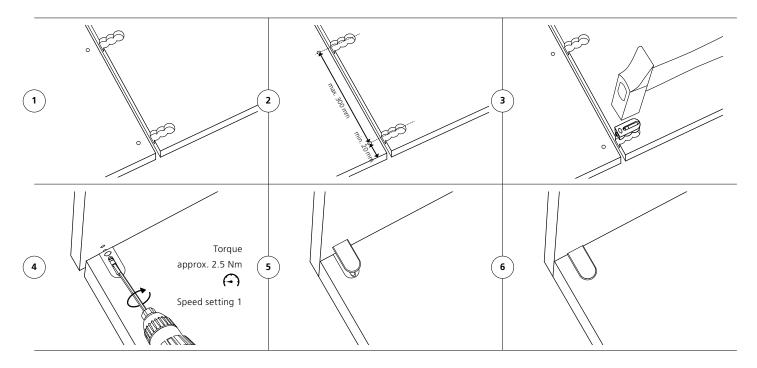


Experience the connector live and receive comprehensive product information!





Function



Technical data

Joining methods	Size	33.8×16.5×	10.8 mm	
	Screw length	12 mm		
	Cutter	Ø 12 mm or s	maller	
	Drill	Ø 5 mm and Ø	ð 15 mm	
	Material housing	Fiberglass reinforced plastic		
≥ 13 mm ≥ 24 mm	Installation tolerace	Long. ± 0.1 mm		
mmunut ≥ 12 mm Dunan dunat [≥ 12 mm	Strength per connector without dowel (N)			
	Particle board 19mm Up to	Tensile strength (N)	Shear strength	Clamping force
		900 ¹	850 ¹	900 ¹
		10 N ~ 1 kg		
	Material range	Particle board hardwood etc		od, softwood,

See PAGE 28-29 for technical specifications | ¹ See comment on load limits on PAGE 35

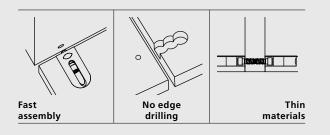
9

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



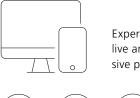
500 pieces	186310
2000 pieces	186311



Art. No.
186340
186341

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

www.lamello



Experience the connector live and receive comprehensive product information!

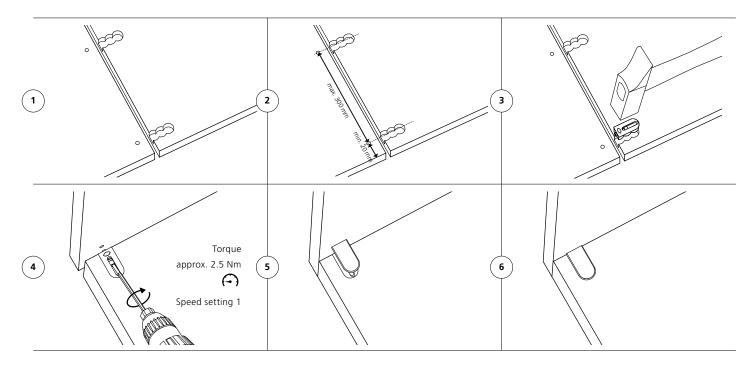


986321US_Bohr-System_Broschüre_215_9 X 279_4_220929.indd 10

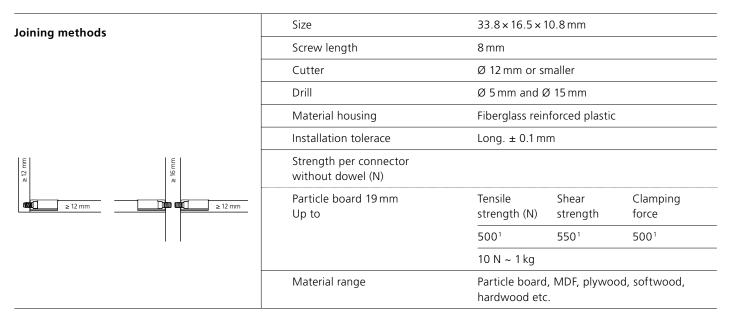
10



Function



Technical data



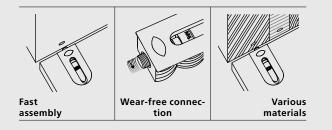
See PAGE 28-29 for technical specifications | 1 See comment on load limits on PAGE 35

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.



986321US_Bohr-System_Broschüre_215_9 X 279_4_220929.indd 12

Articles



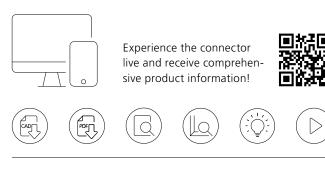
Cabineo 8 M6	Art. No.
500 pieces, metric thread M6	186315
2000 pieces, metric thread M6	186316



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

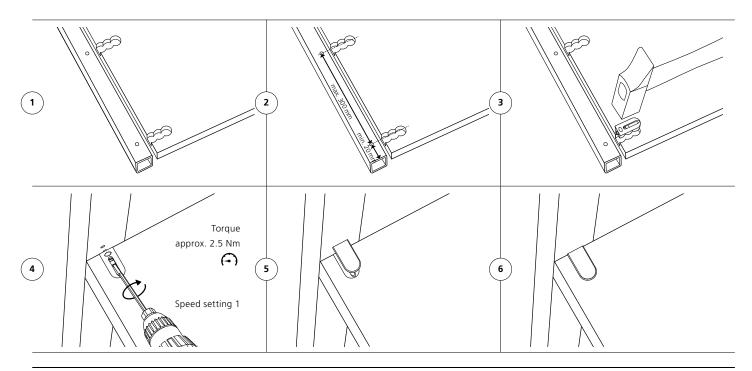
Cabineo 8 M6 Starter set	Art. No.
Cabineo 8 M6 (80 pieces), insert and cover	186306
caps (40 pieces each), Cabineo insertion tool (1 piece), Cabineo	
hex bit 1/4" (1 piece)	

www.lamello





Function



Technical data

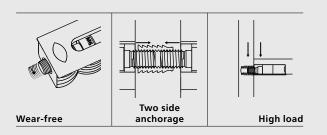
Joining methods	Size	33.8 × 16.5 × 10.8 mm8 mmØ 12 mm or smallerØ 15 mmM6Fiberglass reinforced plasticLong. ± 0.1 mm		
,	Screw length			
	Cutter			
	Drill			
	Screw thread			
	Material housing			
	Installation tolerace			
2 12 and	Strength per connector without dowel (N)			
	In HPL 12 mm Up to	Tensile 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 28-29 for technical specifications | ¹ See comment on load limits on PAGE 35

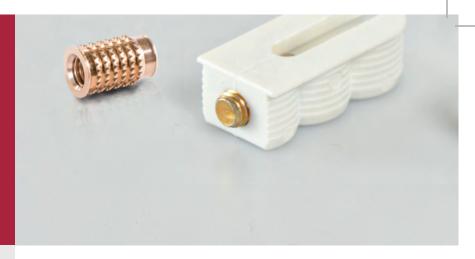
Cabineo insert M6

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	

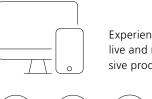


Cabineo insert M6 × 15.3	Art. No.
100 pieces, for dividing panels	186375
500 pieces, for dividing panels	186376



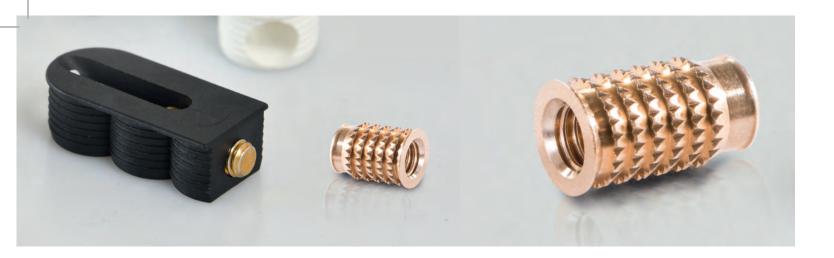
Cabineo insert insertion tool	Art. No.
For insert M6	276310

www.lamello

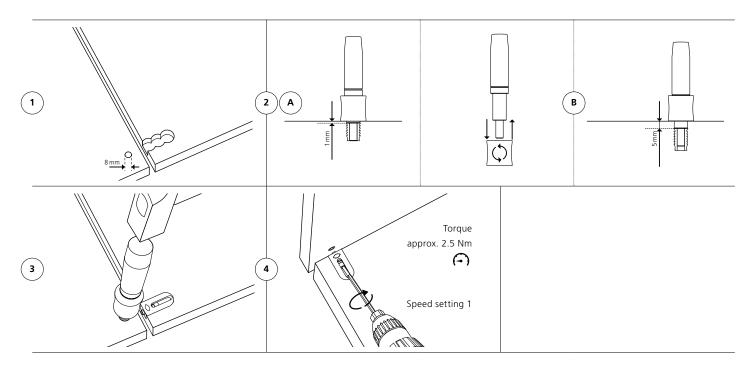


Experience the connector live and receive comprehensive product information!

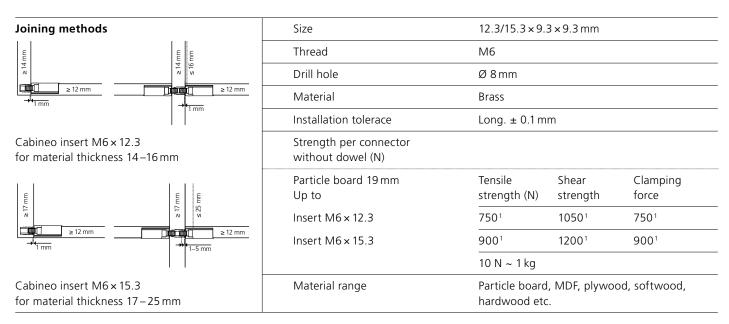




Function



Technical data

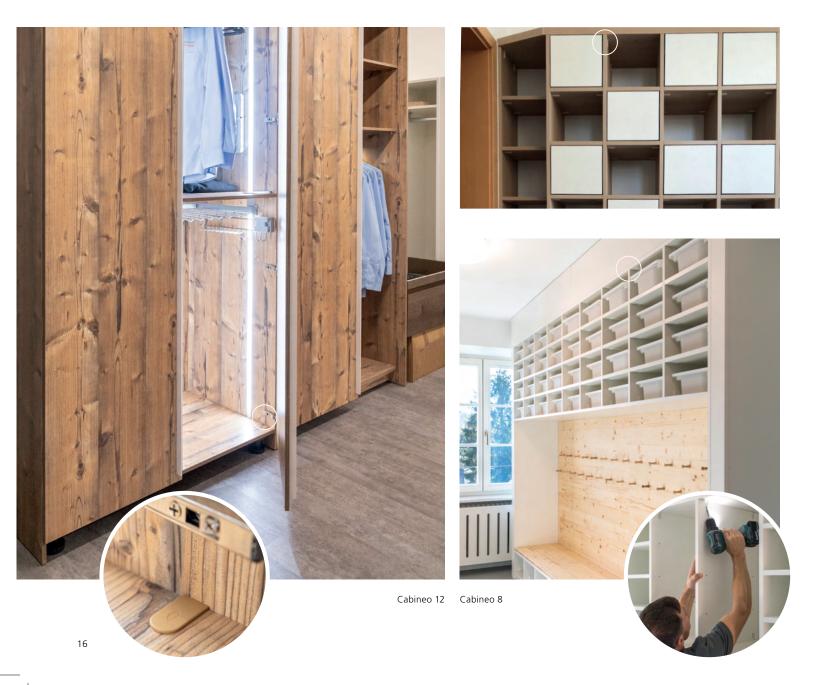


See PAGE 29 for technical specifications | 1 See comment on load limits on PAGE 35

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





Advantages of Cabineo

Simple, fast and strong

1. Advantages in production Time-saving in production





Time-saving in transportation



- 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
- 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

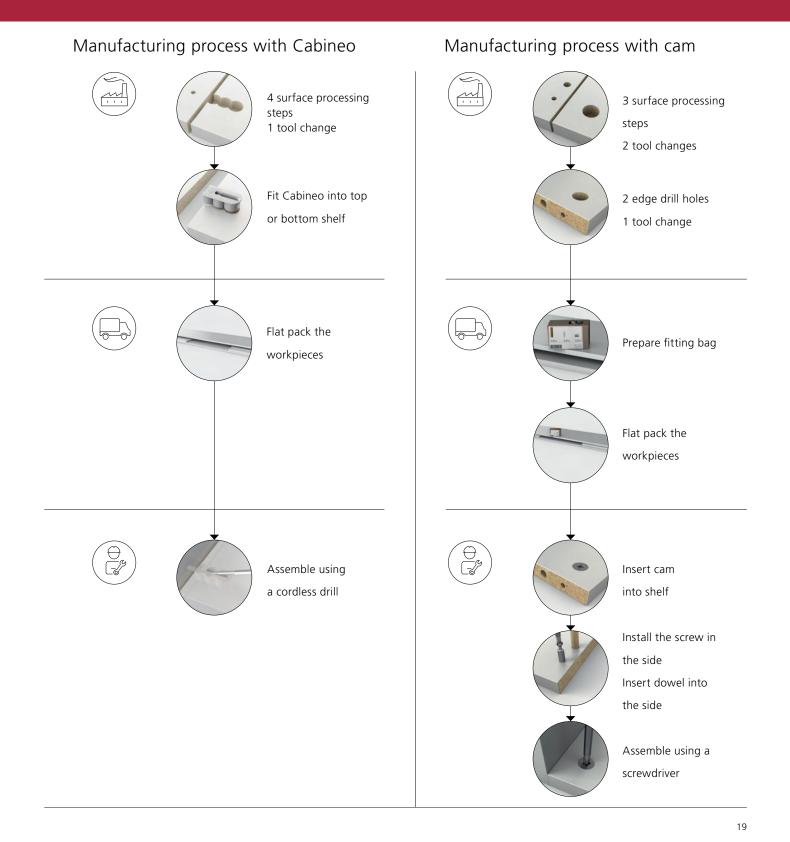
3. Advantages in assembly

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.



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



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



Tip:

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

20



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

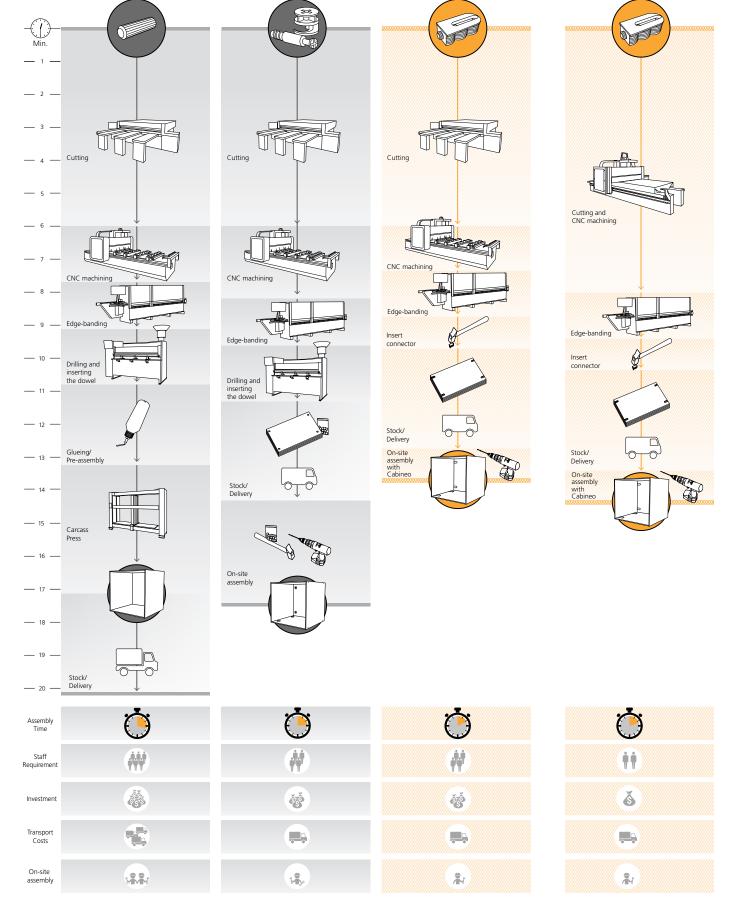


Position top and push towards the furniture side.



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





Cabineo with CNC machining centres with consoles Cabineo with CNC machining centres with nesting technology

Wood dowel

Cam

Cabineo with CNC

Specific equipment options for CNC machines for Cabineo



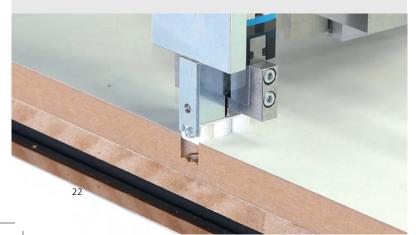


Homag CENTATEQ N-600

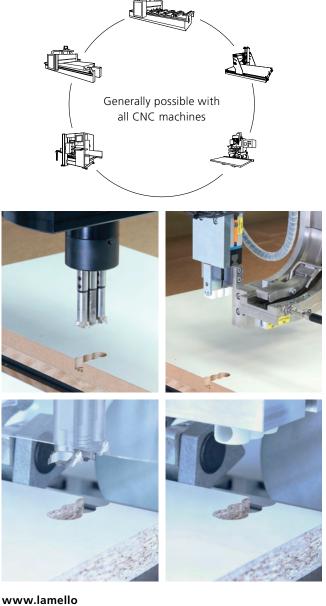
Homag has developed the unmanned installation of the Cabineo connector on its nesting CNC machine CENTATEQ N-600. First, the multi spindle aggregate from Benz creates the drill shape, consisting of 3 drill holes, in one plunge. Once the panels are cut to size, the machine will commence with the fully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

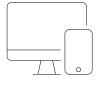
Gannomat Basica Variabel 0194

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.



986321US_Bohr-System_Broschüre_215_9 X 279_4_220929.indd 22





Experience CNC live and receive comprehensive product information!







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).



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 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*

Ş=	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)	

* Benz: 2x 136314 and 1x 36315 (MULTI V3 CABINEO) Atemag: 1x 136314 and 2x 136315 (VERTINEO Cabineo Drilling)

29.09.22 13:43

 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
Cabineo hex bit 1/4" GL 80mm	Art. No.
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	
Cabineo cutter Ø 10 mm	
Cabineo cutter Ø 10 mm	
	136310 Art. No.
Cabineo cutter Ø 10 mm	Art. No. 136310 Art. No. 136311
	136310 Art. No.
	136310 Art. No. 136311
Cabineo cutter Ø 12 mm Cabineo drills for aggregate* Ø 15 mm	136310 Art. No.
Cabineo cutter Ø 12 mm	136310 Art. No. 136311 Art. No.
Cabineo cutter Ø 12 mm Cabineo drills for aggregate* Ø 15 mm	136310 Art. No. 136311 Art. No. 136314
Cabineo cutter Ø 12 mm Cabineo drills for aggregate* Ø 15 mm	136310 Art. No. 136311 Art. No.

Cabineo cover caps	Art. No.		Art. No.
	100 pieces		2000 pieces
RAL 9003 signal white	1863505	\bigcirc	1863515
RAL 9010 pure white	186350W	\bigcirc	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
		-	

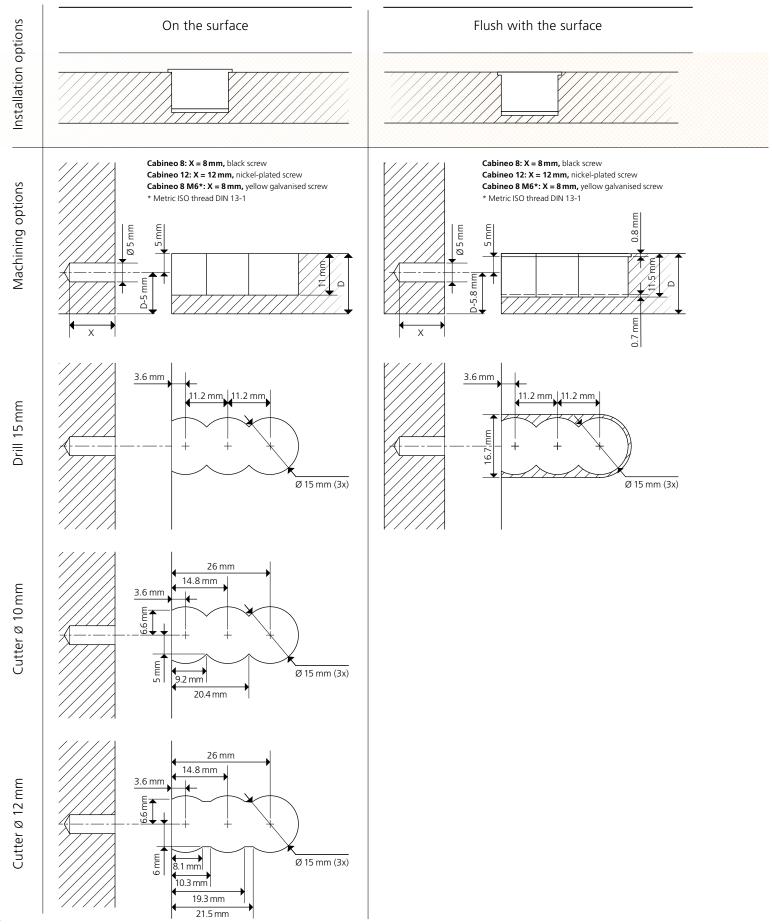


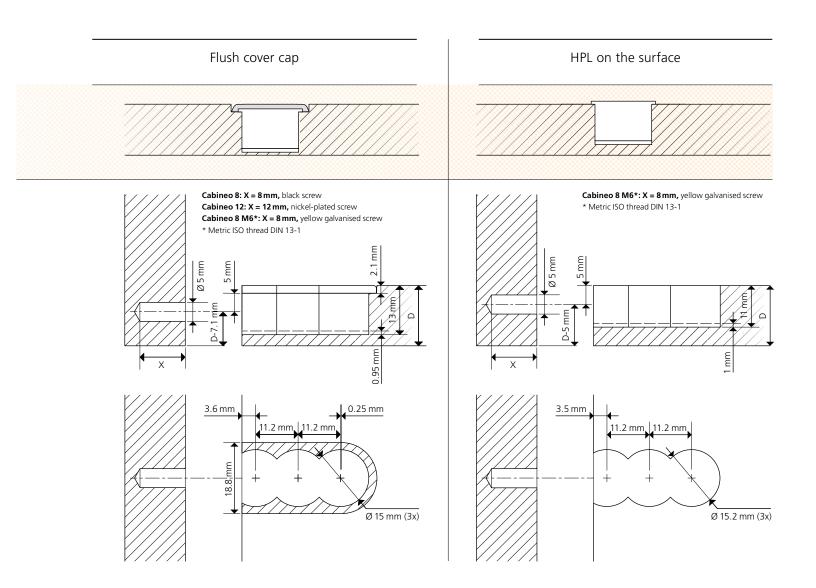
Cabineo insert insertion tool	Art. No.
For insert M6	276310

* Benz: 2x 136314 and 1x 36315 (MULTI V3 CABINEO) Atemag: 1x 136314 and 2x 136315 (VERTINEO Cabineo Drilling)

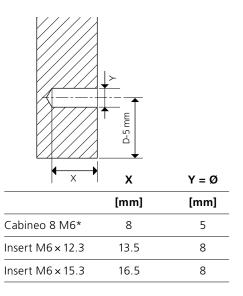
Technical information

Machining Cabineo



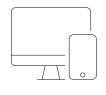


Machining Cabineo Insert



* Metric ISO thread DIN 13-1

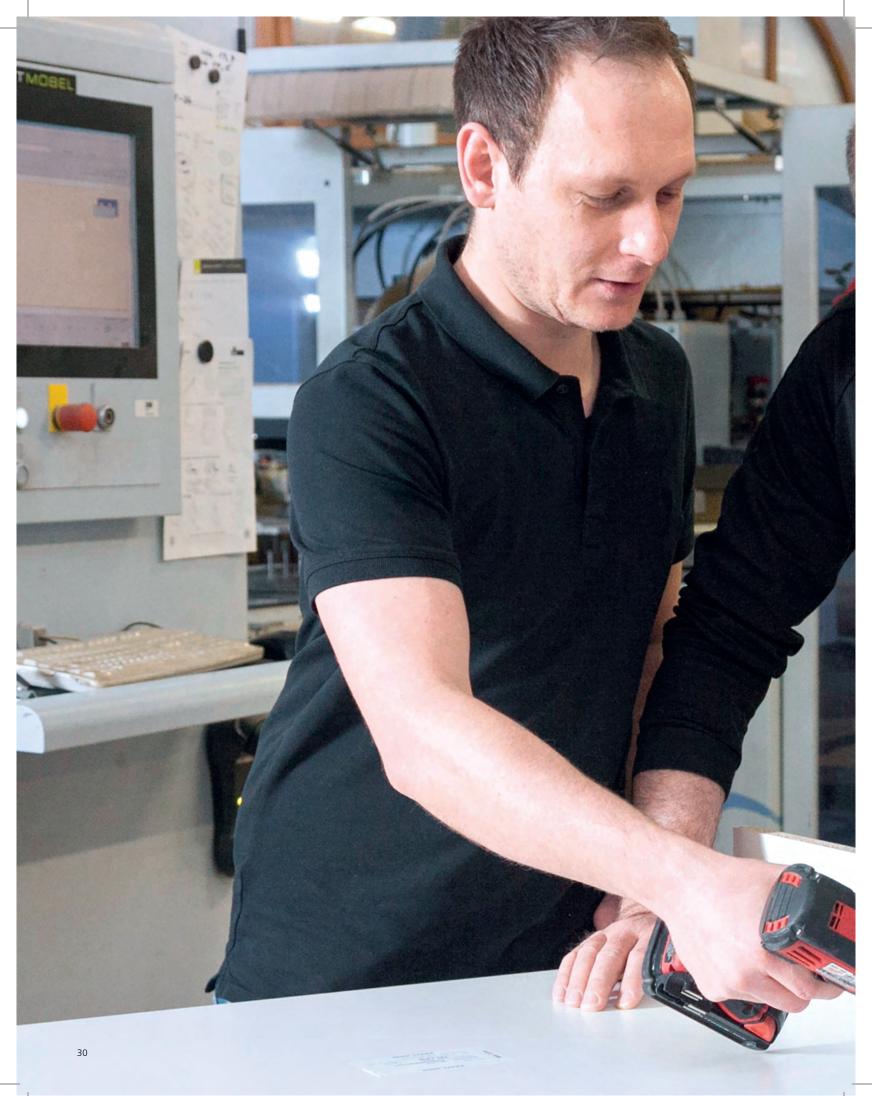
www.lamello



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



29



« The fitting impressed us due to its simple processing, timesaving 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

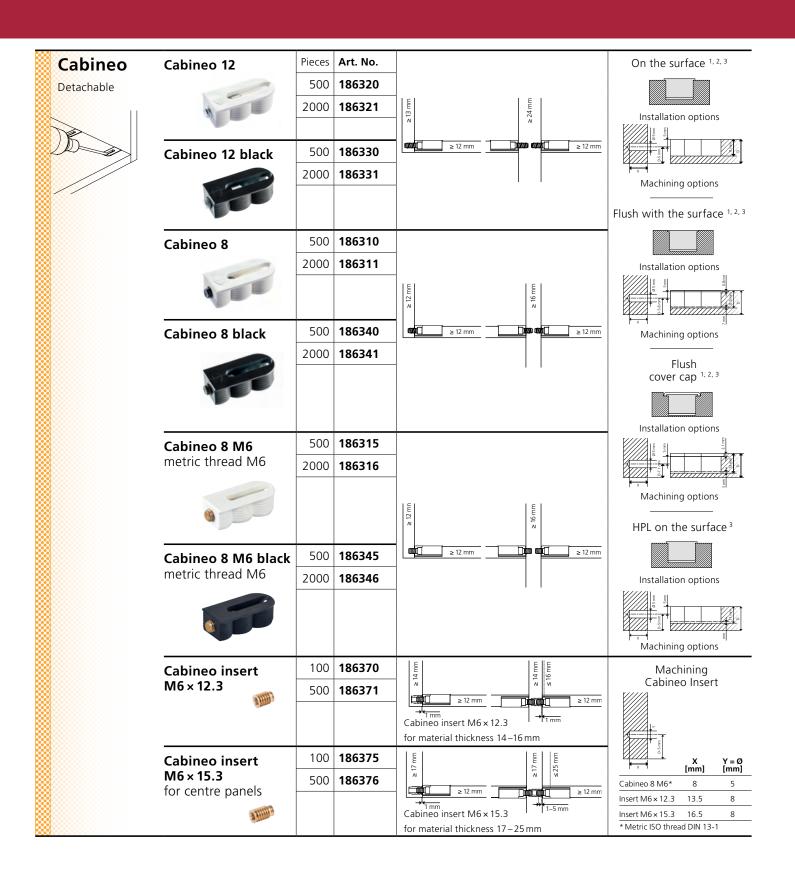
Our professional and committed sales partners provide you with qualified advice, always keeping you informed about new products. This way, you can see the benefits of our products first hand.

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



- 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

© Lamello AG. The content of this brochure is protected by copyright and cannot be used for any other purpose without the written consent of Lamello AG.



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