

Drilling System



Unique drilling systems for high demands on productivity and aesthetics

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Drilling System

Unique drilling systems for high demands on productivity and aesthetics

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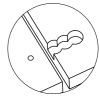
Features Cabineo



Fast assembly



High clamping force



No edge drilling

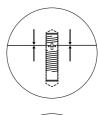


No dowel holes



One-piece and pre-installed

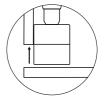
Features Invis Mx2



High clamping force



Invisible



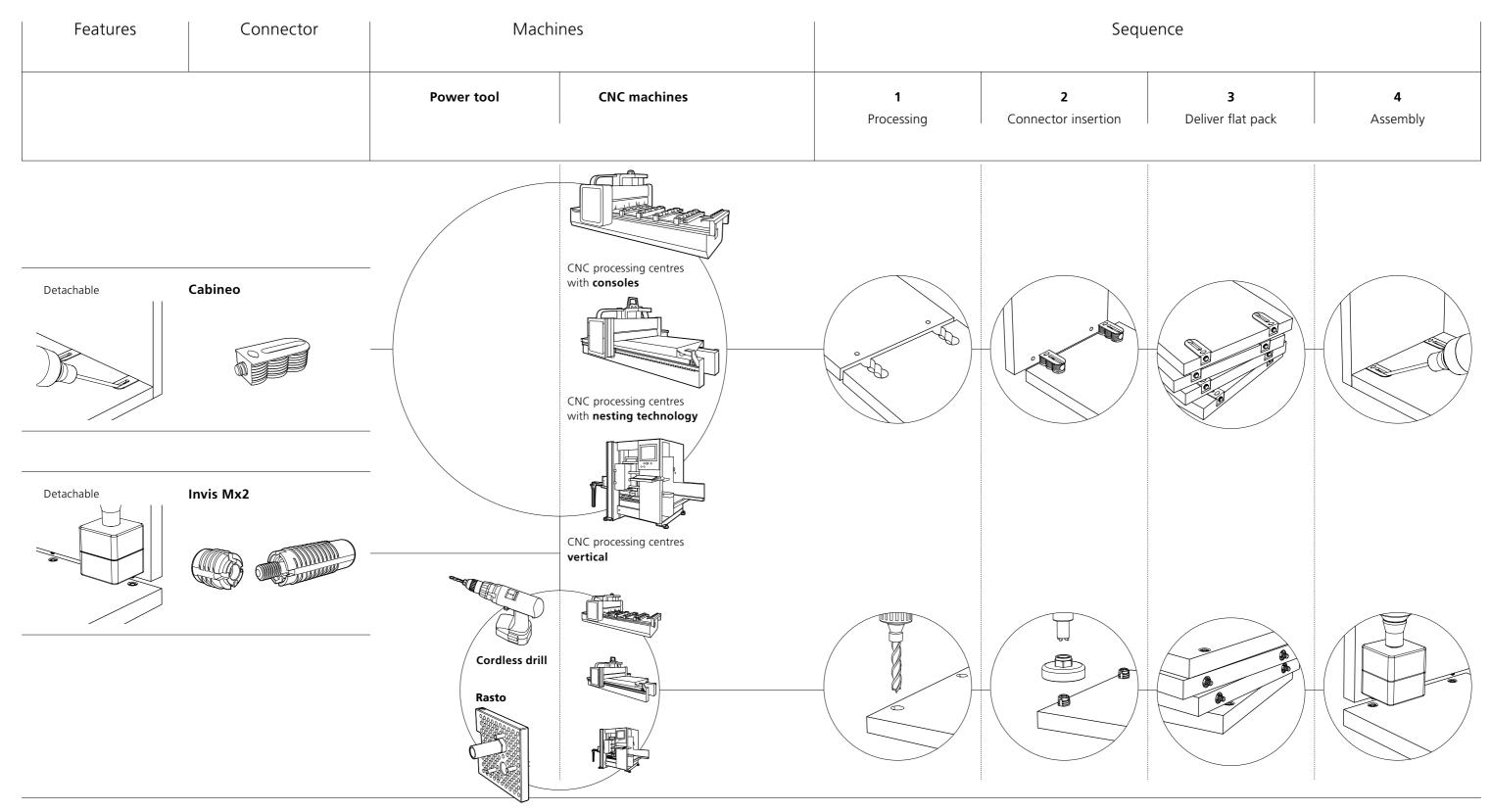
Detachable

Drilling System

- Cabineo

- Invis Mx2

Overview



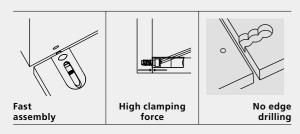


Cabineo 12

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	
500 pieces	186330
2000 pieces	186331



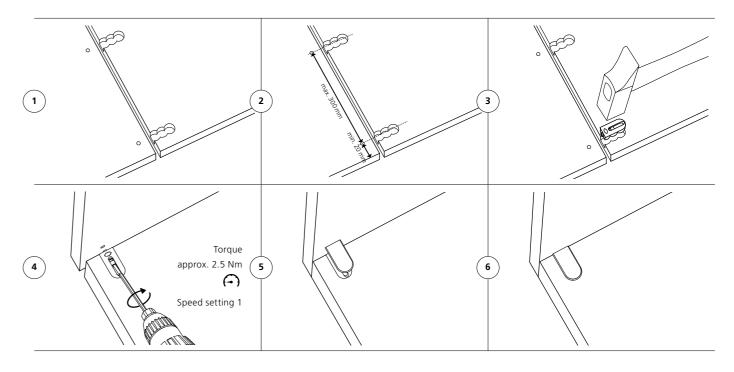
Cabineo 8/12 starter set	Art. No.	
Cabineo 8 + 12 (40 pieces each),	186305	
incl Cabingo has hit and set of cover cans (40 pieces)		

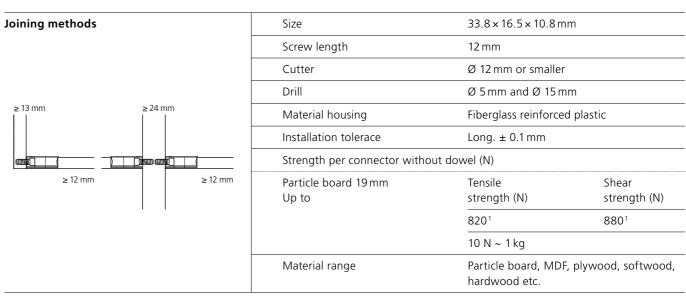
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Function



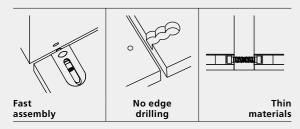


Cabineo 8

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.





Cabineo 8	Art. No.
500 pieces	186310
2000 pieces	186311
Cabineo 8 black	
500 pieces	186340
2000 pieces	186341



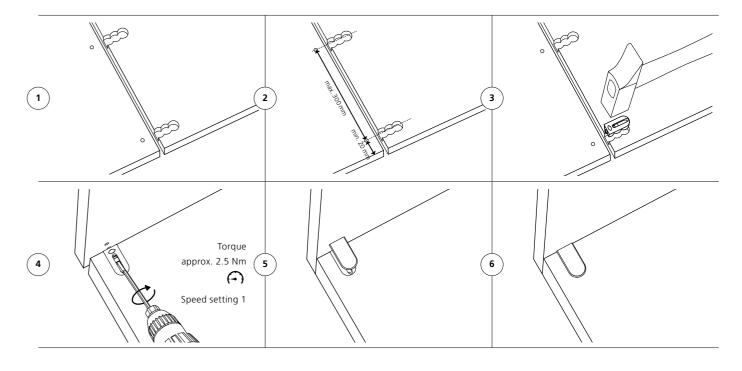
Cabineo 8/12 Starter set	Art. No.
Cabineo 8 + 12 (40 pieces each),	186305
incl Cabineo hey bit and set of cover cans (40 nieces)	

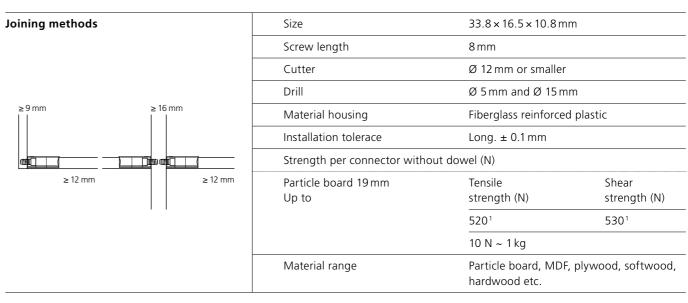
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Function



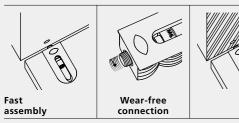


Cabineo 8 M6

Wear-resistant cabinet connector for various materials and increased strength



Features



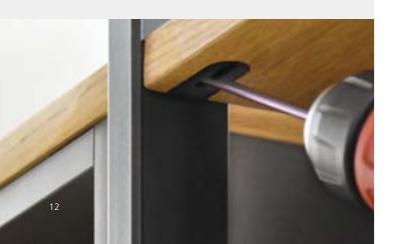
Cabineo 8 M6 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The connector is ideal when joining wood composites with materials such as aluminium, steel or compact laminate.

Various

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	
500 pieces, metric thread M6	186345
2000 pieces, metric thread M6	186346



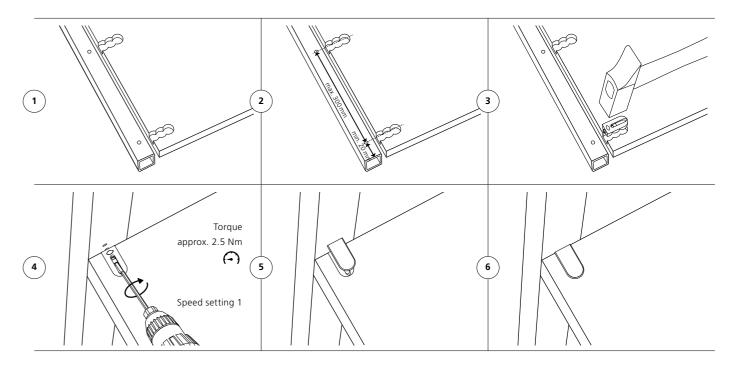
Cabineo 8 M6 Starter set	Art. No.
Cabineo 8 M6 (80 pieces), insert and cover	186306
caps (40 pieces each), Cabineo insertion tool (1 piece),	
Cabineo hex bit 1/4" (1 piece)	

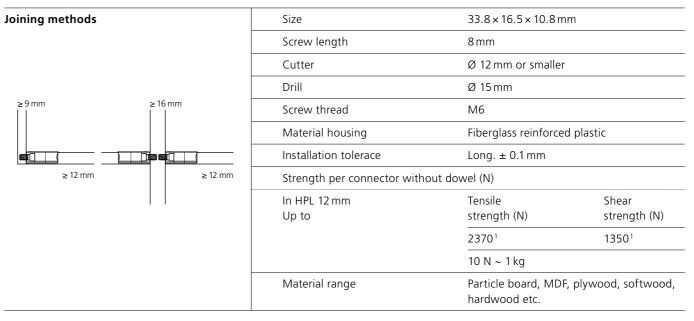
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Function



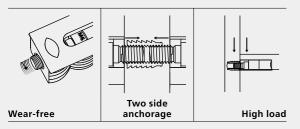


Cabineo insert M6

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



Art. No.
186370
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

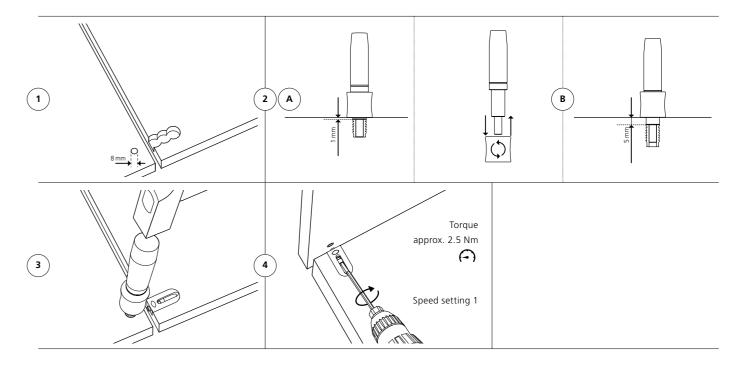
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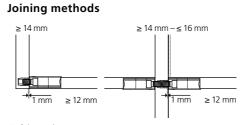


$\ensuremath{^{\star}}$ Cabineo insertion tool is included in delivery for the inserts.

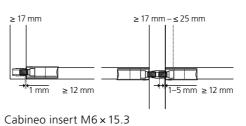
Function



Technical data



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



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

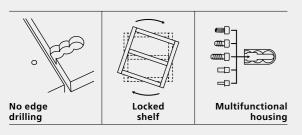
Size	Ø 9.3 × 12.3/15.3 mm	
Thread	M6	
Drill hole	Ø8mm	
Material	Brass	
Installation tolerace	Long. ± 0.1 mm	
Strength per connector without dowel (N)		
Particle board 19 mm Up to	Tensile strength (N)	Shear strength (N)
Insert M6 × 12.3	810 ¹	1210¹
Insert M6 × 15.3	9401	1240¹
	10 N ~ 1 kg	
Material range	Particle board, MDF, plyw hardwood etc.	ood, softwood,

Cabineo X

Cabinet connector and shelf support without edge drilling



Features



Cabineo X is a connector for cabinets and shelves, can be used with all CNC machines and is pressed into place in the workshop or on site. Due to the open housing, it is possible to insert a Cabineo screw from the top and screw it into the counterpart with a hexagon bit. Using it with screws, Cabineo X is ideal when installing shelves into already joined cabinets or when assembling corner joints. Combined with shelf supports, Cabineo X prevents shelves from being pulled out.



Articles



Cabineo X	Art. No.
500 pieces	186360
2000 pieces	186361
Cabineo X black	
500 pieces	186365
2000 pieces	186366

Cabineo screw	Art. No	
Cabineo 12, 500 pieces	186380	
Cabineo 12, 2000 pieces	18638	
Cabineo 8, 500 pieces	186382	
Cabineo 8 M6, 500 pieces	186384	





Cabineo X starter set	Art. No.
Cabineo X (80 pieces), Cabineo 12 screw	186307
(40 pieces), screws- or shelf supports variants	
(20 pieces each), cover cap signal white (40 pieces),	
Cabineo hexagon bit 1/4" GL 80 mm and	

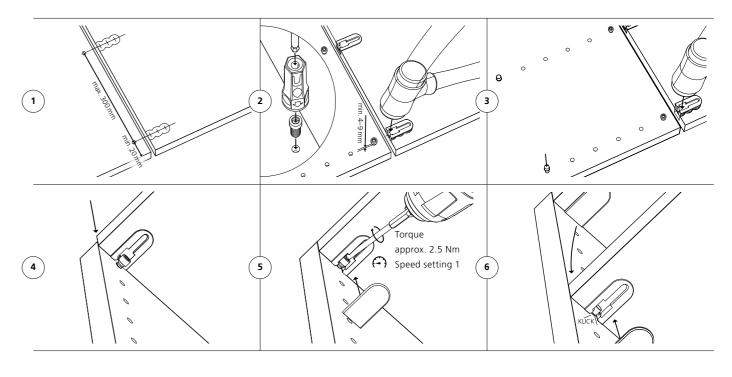
the corresponding Cabineo X screw-in aid (1 piece each)

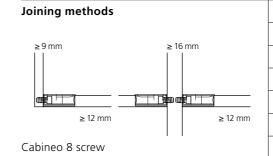
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Function





≥ 13 mm	≥ 24 mm
≥ 12 mm	≥ 12 mm
Cahineo 12 screw	1 1

Size	33.8 × 16.5 × 10	33.8 × 16.5 × 10.8 mm	
Screw length	8 mm or 12 mn	8 mm or 12 mm	
Shelf support	Ø 3 mm or Ø 5	Ø3mm or Ø5mm	
Cutter	Ø 12 mm or sm	Ø 12 mm or smaller	
Drill	Ø 5 mm and Ø	Ø 5 mm and Ø 15 mm	
Material housing	Fiberglass reinf	Fiberglass reinforced plastic	
Installation tolerace	Long. ± 0.5 mr	Long. ± 0.5 mm	
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength (N)	
Cabineo 8 screw	480 ¹	530 ¹	
Cabineo 12 screw	770¹	850 ¹	
Material range	Particle board, hardwood etc.	MDF, plywood, softwood,	

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 8 M6

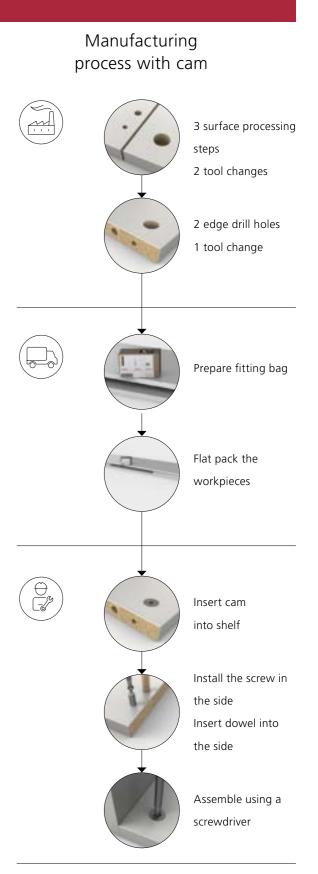
Advantages of Cabineo

Simple, fast and strong

Cabineo compared with cam and dowel

Manufacturing process with Cabineo 1. - Optimised process due to surface machining; 4 surface processing Advantages no edge drilling necessary in production - Only one tool change from 5 mm to 15 mm drill; 1 tool change no tool change for the dowel hole drill necessary Time-saving in production - No dowel holes means less drill holes per connector - Shallow element of 10 mm allows for panels from Fit Cabineo into top 12 mm thickness or bottom shelf 2. - Efficient pre-installation of the one-piece connector Flat pack the Advantages in the factory workpieces in transportation - Flat pack delivery with pre-installed connectors - No extra bags or loose hardware required with Time-saving in transportation furniture shipment - Detachable for transport or if the fixed shelves need adjusting 3. - One-piece connector without dowels; no pre-assembly Assemble using Advantages of screws or dowels in the side panels necessary a cordless drill in assembly - Easy positioning of the Cabineo in the corresponding hole due to the protruding screw Time-saving in the assembly - Fast assembly with a cordless drill - Installation of fixed shelves or vertical dividers in an

already assembled unit



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.



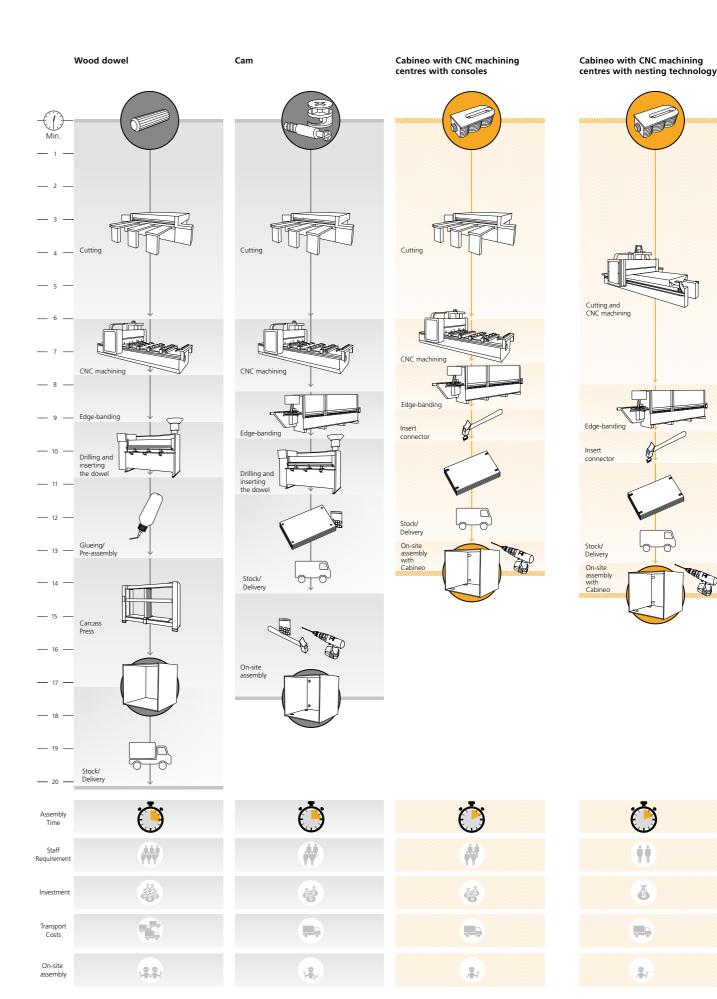
required positions.



Tip:

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





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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.

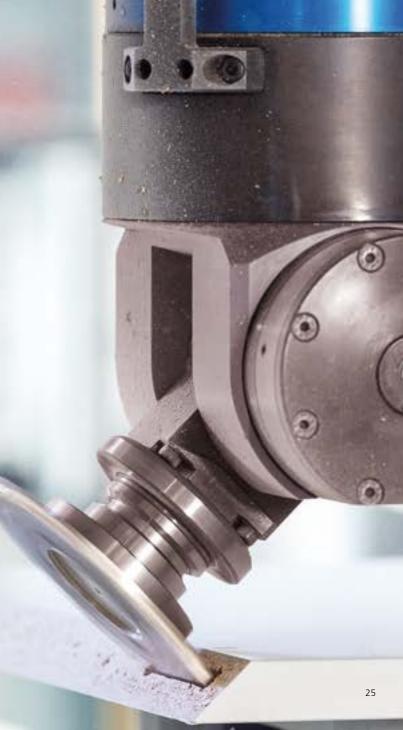


CAD/ERP/CAM software



CNC machines/Aggregates/CNC tools





Cabineo with CNC

Specific equipment options for CNC machines for Cabineo







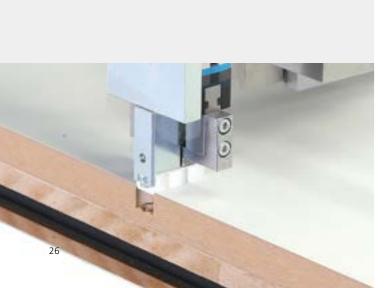
CNC machine

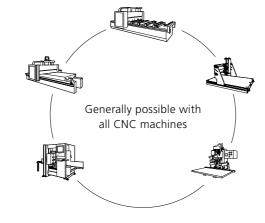
Homag CENTATEQ N-600

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.





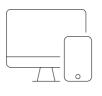








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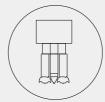












CNC tools - aggregate

Benz was the first company to develop a triple multi-spindle head in order to to drill the Cabineo with a single stroke. This reduces the machining time to approx. 1–2 seconds.

Supplier of triple drilling unit for Cabineo:

Benz MULTI V3 CABINEO

Vertical multi-spindle head (direction of rotation of the drills 1 piece left hand rotation, 2 pieces right hand rotation)

Atemag VERTINEO FUNCTION LINE

Drilling unit for Cabineo connector All-In-One. (Direction of rotation of the drills 2 pieces left hand rotation, 1 piece right hand rotation)

Grotefeld DPL-03-03-CABINEO

Multi-spindle drilling unit DPL (Direction of rotation of the drills, both options possible: 1 drill left hand rotation, 2 drills right hand rotation or 2 drills left hand rotation,

1 drill right hand rotation)



CNC tools

Leuco was the first company to develop the interlocking drills for the triple multi-spindle units.

Leuco drills for triple drilling units*

Solid carbide (VHW), special LEUCO cutting edge and pre-cutter geometry for minimum cutting force and cutting pressure.

Leitz drill bits for triple drilling units

Solid carbide, round pre-cutter geometry for very good drill edge quality, extremely wear-resistant carbide grade.

* Cabineo drills for aggregate see PAGE 28









CNC tools

For Cabineo



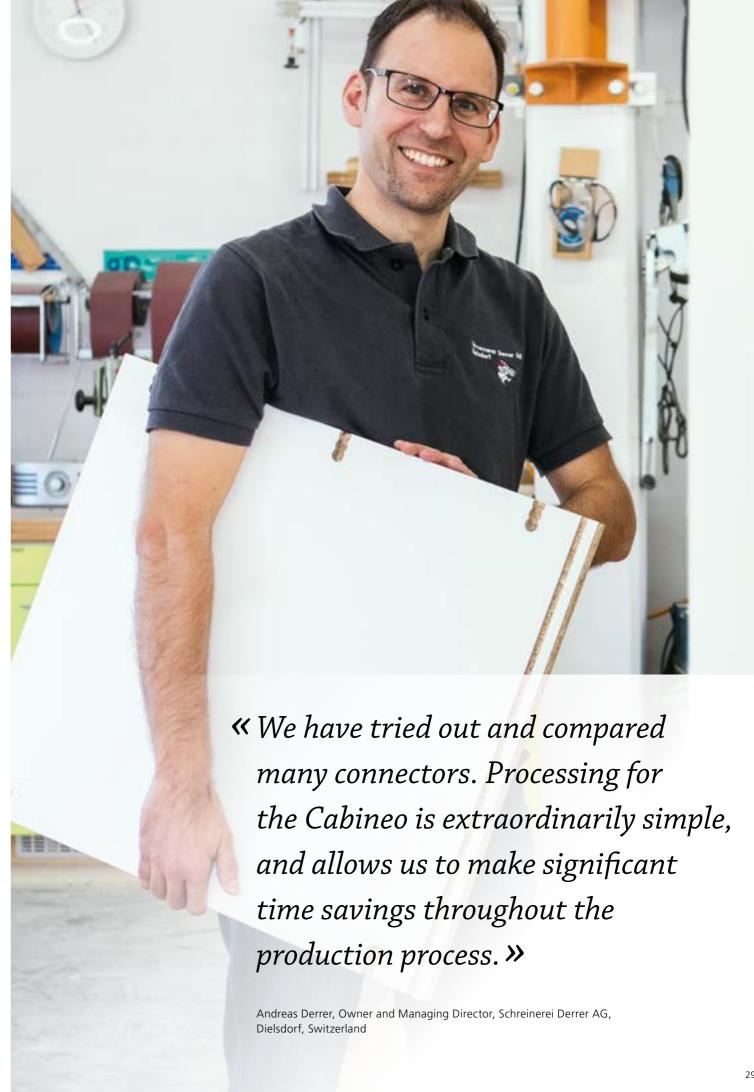
Drilling System

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	136314
RH carbide tipped (right hand rotation)	
	Art. No.
Cabineo drills for aggregate Ø 15 mm	136315
LH carbide tipped (left hand rotation)	



Accessories/ **Spare Parts**

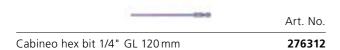
Drilling System



Cabineo



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



	Art. No.
Cabineo hex bit 1/4" 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

New	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.	Art. No.
		100 pieces	2000 pieces
RAL 9003 signal white	\bigcirc	1863505	1863515
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	1863510
Metal look, nickel		186350N	186351N
Metal look, dark steel		186350D	186351D



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

Cabineo X



Cabineo 12 screw	Art. No.
500 pieces	186380
2000 pieces	186381



Cabineo 8 screw	Art. No.
500 pieces	186382



Cabineo 8 M6 screw	Art. No.
500 pieces	186384





Cabineo X shelf support	Art. No.
Ø 5 mm, 500 pieces	186386
Ø 3 mm, 500 pieces	186388

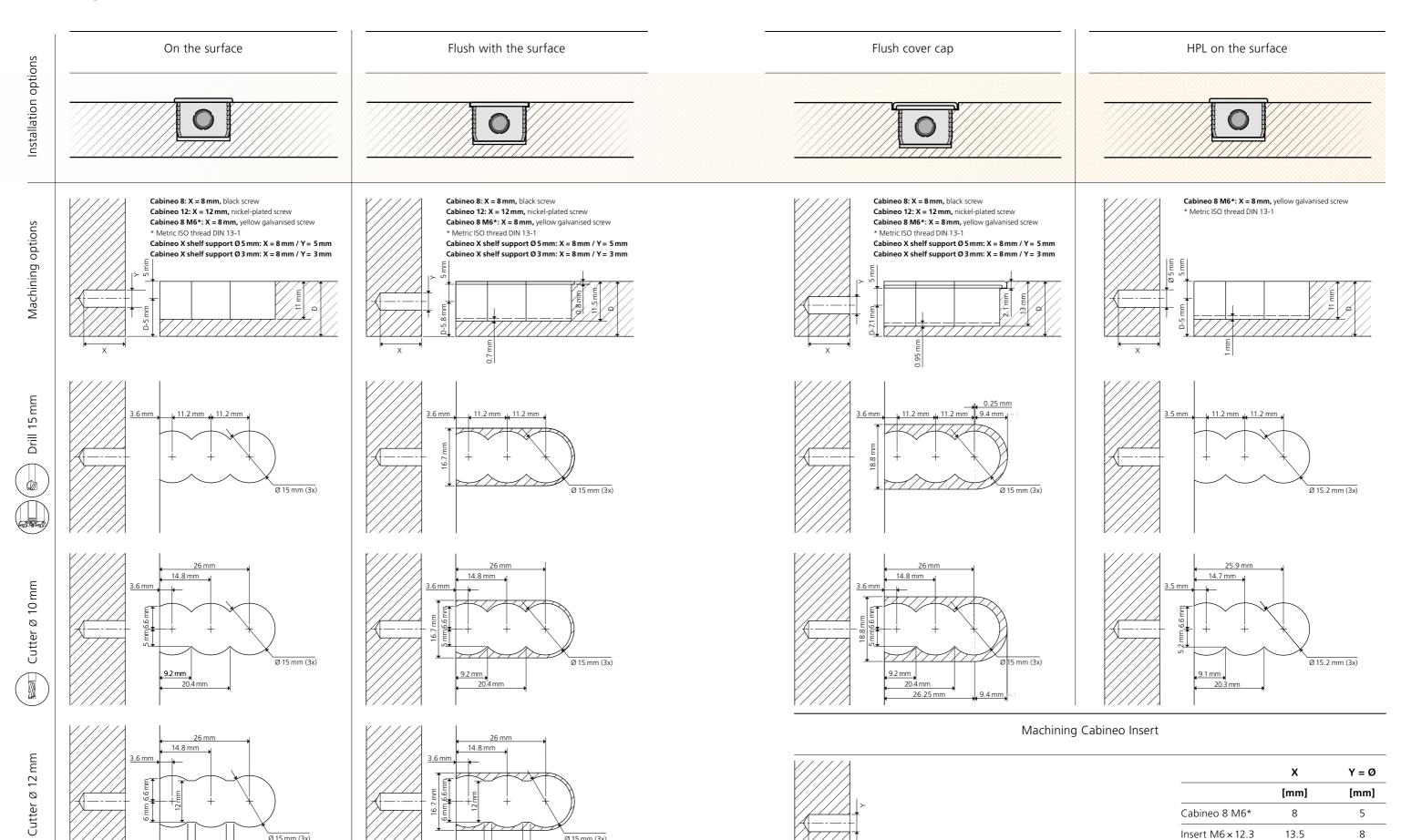


Cabineo X screw-in aid	Art. No.
Suitable for Cabineo hexagon bit 1/4" GL 80 mm	276313

Technical information

Ø 15 mm (3x)

Machining Cabineo



^{*} Metric ISO thread DIN 13-1

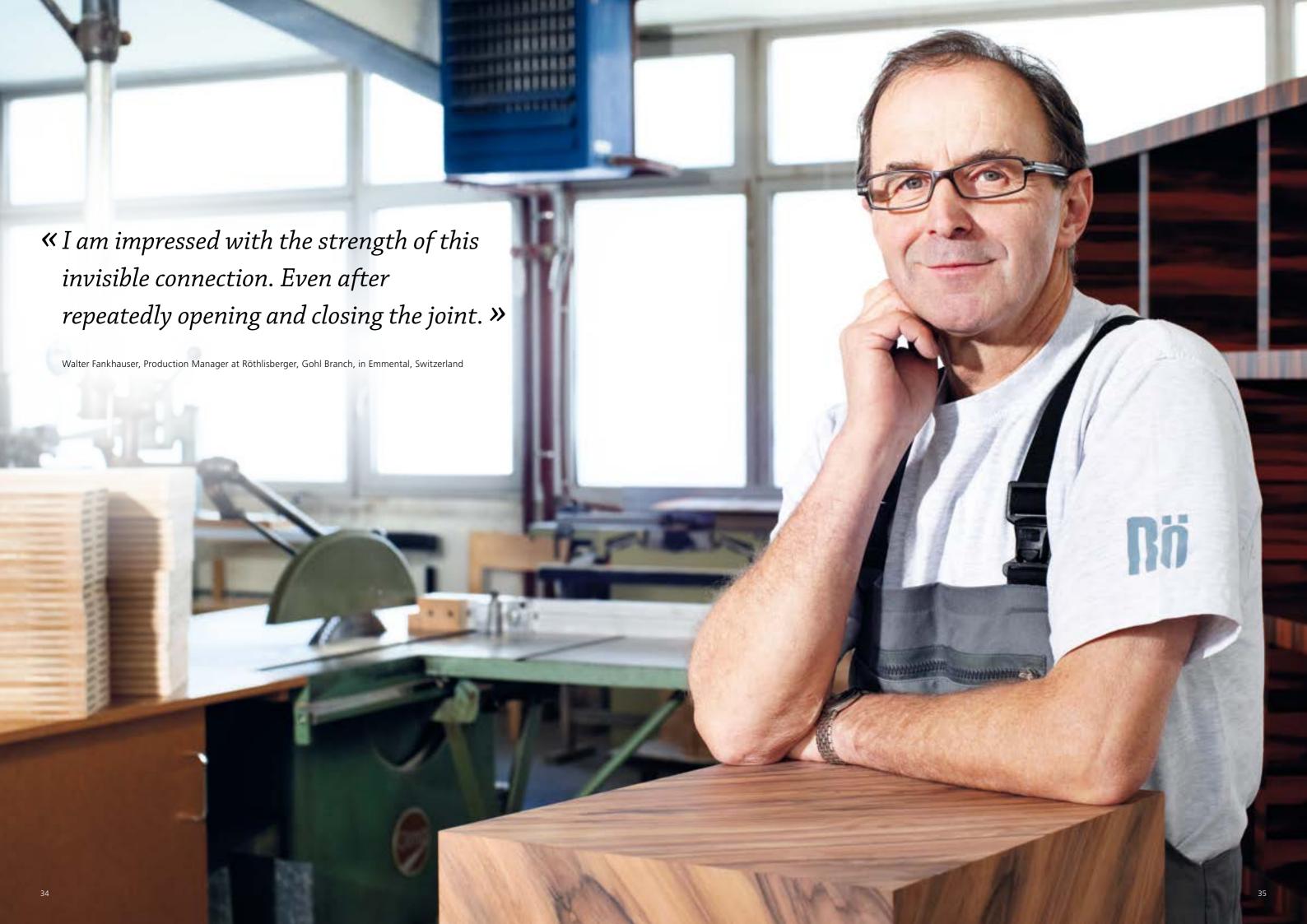
Insert M6 x 15.3

16.5

8

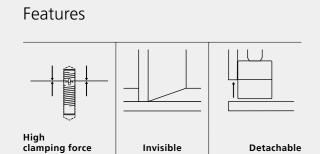
8

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Invis Mx2

Magnet-driven connecting fittings



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

6100302

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 shank, insertion jig

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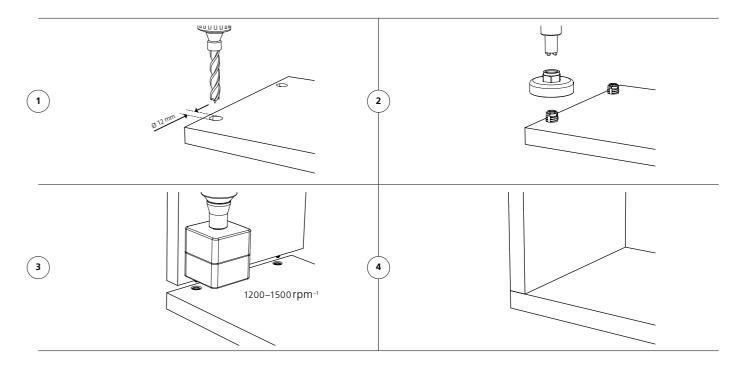
Experience the connector live and receive comprehensive product information!



Art. No.

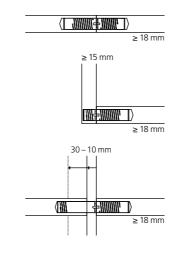
Function

1200–1500 min⁻¹



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	1460 ¹	2260
	Particle board	1220 ¹	1580 ¹
	Beech	3280 ¹	5130 ¹
Material range	Particle board, MDF, p hardwood etc.	lywood, sof	twood,

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. 6012309 20 pieces

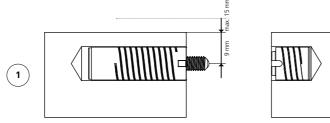


Invis Mx2 centre wall stud 10-30 mm Art. No. 10 pieces 6012208



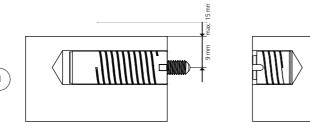
Invis Mx2 MiniMag Art. No. Incl. screw bit 6100301

Function





Small distance from the edge for high clamping force



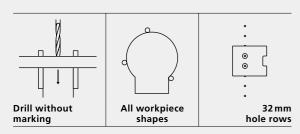


Rasto drill jig

Universal drill jig without measuring or marking



Features



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,

126007

8 drill bushings, $2 \times \emptyset$ 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

Rasto Basic set

Art. No.

In a cardboard box: 1 transparent perforated plate, 126005

4 drill bushings Ø 5, 8, 10, 12 mm,

3 positioning bolts, 1 fastening screw

Rasto Mono set

Art. No. 126006

In a systainer: 1 transparent perforated plate,

4 drill bushings Ø 5, 8, 10, 12 mm, 3 wood drill bits

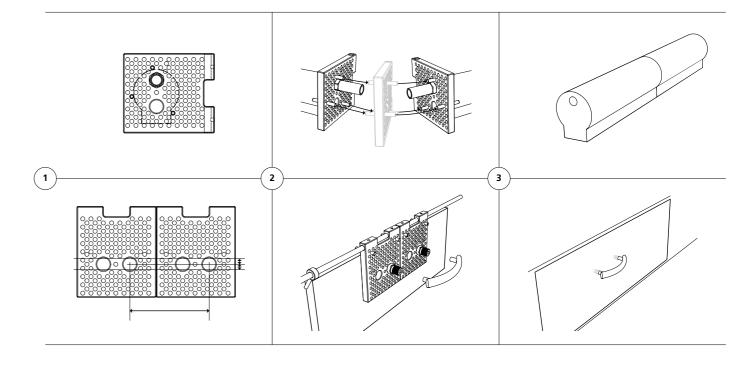
Ø 5, 8, 12 mm, 3 positioning bolts, 1 fastening screw,

1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

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Function



asto perforated plate	Size Rasto plate	$110 \times 96 \times 12 \text{ mm}$
	Material Rasto plate	Polycarbonate
32 mm 32 mm 32 mm		

Application examples

Invis Mx2

Tables, shelves and wardrobes, Shopfitting systems, handrail pre-production, boat interior fittings, exhibition contstructions, quality furniture, stairs, substructures, partition elements, wall panels, furniture, table legs, dividing panels











Accessories / Spare Parts

Drilling System



Invis Mx2







Invis Mx2 MiniMag	Art. No
Incl. screw bit	6100301



Art. No.
6100204

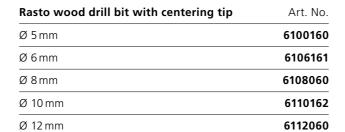


Invis Mx2 insertion jig	Art. No.
For studs 14 mm	6112333



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

Rasto





Art. No.
6100059
6100063
6100060
6100064
6100061



Invis Mx2 spacer	Art. No.
For Rasto	6112331



Art. No.
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



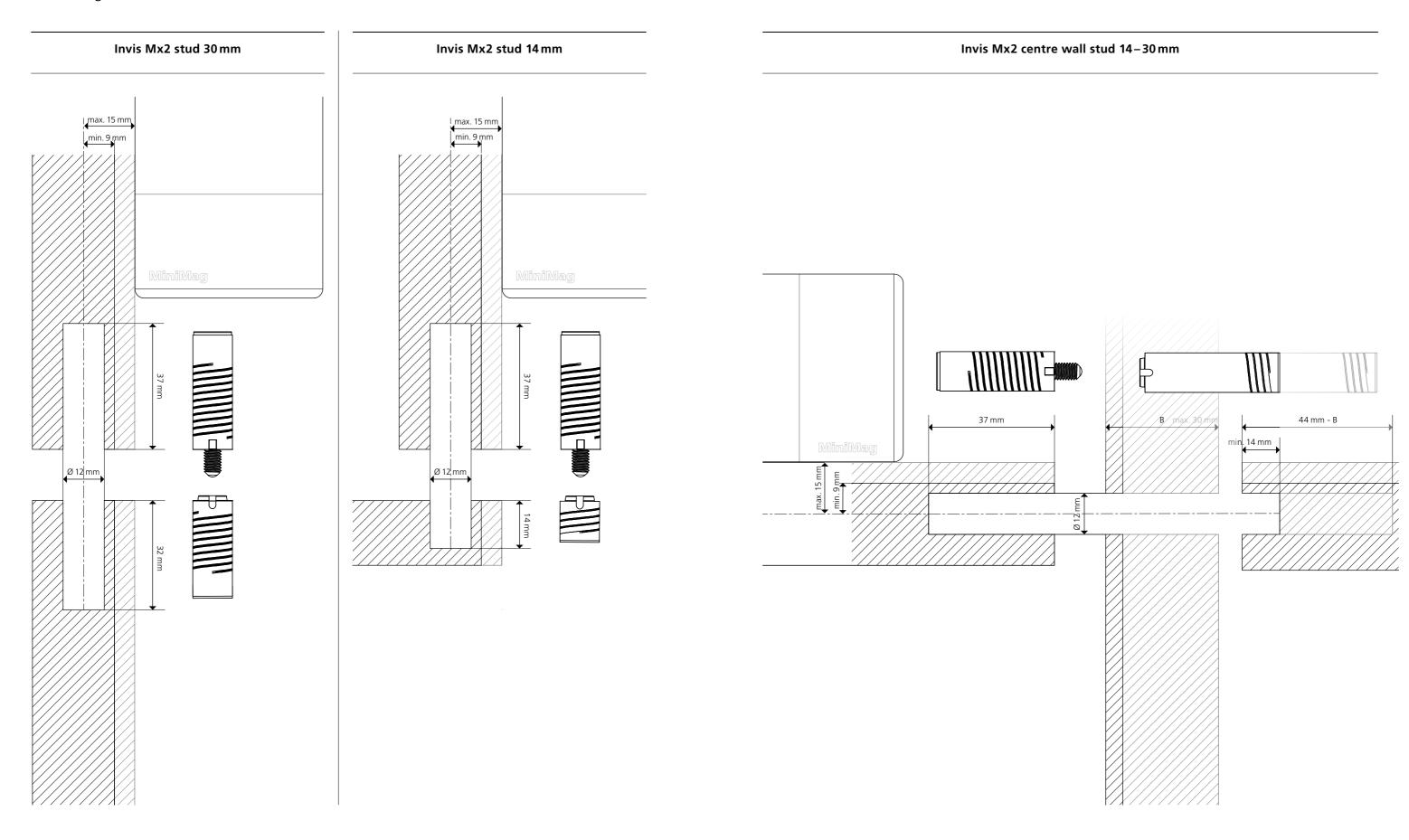
Rasto fixing screw	Art. No.
4.5 × 35 mm, TX 25	6560450

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

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

Technical information

Machining Invis Mx2



We are here for you!

Support in person

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 support 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.



Support in your planning

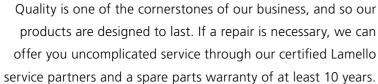
With the connector search and the P-System configurator on our website, you can quickly find the right connector for your design and requirements. With CAD data for our connectors, tips and tricks, as well as videos about the wide range of applications, we can guide and support you in your planning on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



48 49

P-System configurator

Overview of connectors

									Product page	Product drawing 1:1
						Material st	rength (mm)] opp	
			Quantity	Art. No.	1	2	3	4	Pro	Pro
Dril	ling Sys	stem								
	Cabineo Detachable	Cabineo 12	500 2000	186320 186321	. 13	. 12	. 24		P. 8	P. 32
		Cabineo 12 black	500 2000	186330 186331	≥ 12	≥ 13	≥ 24	_	P. 8	P. 32
		Cabineo 8	2000 186311	≥9	≥ 16		P. 10	P. 32		
		Cabineo 8 black	500 2000	186340 186341	212	29	2 10	_	P. 10	P. 32
		Cabineo 8 M6	500 2000	186315 186316	≥ 12	≥ 9	≥ 16		P. 12	P. 32
		Cabineo 8 M6 black	500 2000	186345 186346	212	29	2 10	_	P. 12	P. 32
		Insert Cabineo M6 × 12.3	100 500	186370 186371	≥ 14	≥ 14	14-16		P. 14	P. 33
		Insert Cabineo M6 × 15.3 for centre panels	100 500	186375 186376	≥ 14	≥ 17	17-25	_	P. 14	P. 33
	Cabineo X Detachable	Cabineo X	500 2000	186360 186361	. 12	~ 0	> 24	-	P. 16	P. 32
		Cabineo X black	500 2000	186365 186366	≥ 12	23	≥ 9 ≥ 24		P. 16	P. 32
		Cabineo 12 screw	500 2000	186380 186381	_	≥ 13	≥ 24	-	P. 16 P. 16	-
		Cabineo 8 screw	500	186382	-	≥ 9	≥ 16	-	P. 16	-
		Cabineo 8 M6 screw	500	186384	_	≥ 9	≥ 16	-	P. 16	-
		Cabineo X shelf support, Ø 5 mm	500	186386	_	≥9	≥ 16	-	P. 16	-
	Invis Mx2	Cabineo X shelf support, Ø 3 mm Invis Mx2 connector set	500	186388	_	≥9	≥ 16	_	P. 16	P. 46
	Detachable	with 14 mm stud Invis Mx2 connector set	20	6012300		≥ 15	-		P. 36	
		with 30 mm stud	20	6012301	40	≥ 33	-	-	P. 36	P. 46
		Invis Mx2 connector 35 mm	20	6012317	≥ 18	- > 1E	-	-	P. 38	D 46
		Invis Mx2 stud 14mm Invis Mx2 stud 30mm	20	6012312 6012309		≥ 15	_	_	P. 38 P. 38	P. 46 P. 46
		Invis Mx2 stud 30 mm Invis Mx2 centre wall stud 10 – 30 mm	10	6012208		≥ 33	10-30	-	P. 38	P. 47

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 selection of suitable screws, 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. Plastic parts may vary in colour due to the production process. Colour specifications are for guidance only.

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