Connecting systems

for modern furniture and interior design









Friedrich Knapp Company founder

Welcome to the World of KNAPP®!

As a producer of patented connecting systems we develop and produce high-quality products which are distributed worldwide. Not only will our connecting systems convince – but also inspire you with the wide range of applications. The comprehensive service offers you the possibility to find the best, the most efficient and innovative solution for the realisation of your products. On the following pages you will find our connector systems for modern furniture and interior design.

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KNAPP® offers the right connectors for the areas of:

I Timber construction I Post-beam wood-glass-facade I Prefab walls I Timber construction engineering I Door- and window construction I Furniture and interior design I Glued glass elements for timber and metal construction



www.knapp-connectors.com/downloads

Content

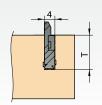
Slide connectors SUNNY SILVER **CHAMP CHICO METAL** Clip-in connectors, Joint connectors FAST **CLIPS** ZIPBOLT™ Fastfit DUO 30 mL/30 oL **Hook connectors** DUO 35 mL/35 oL Locking clip **UNO 30 Stair-tread connectors TREPPO** easy-con® TUCK **Dowel connectors QUICK-SET** 11 KNAPP®-DOWEL **Dovetail clip connectors** KLICK sKLICK 13 KLICKpro 14 miniKLICK 14 Accessories 15 **Cabinet connectors MODULAR** 16 Shoulder head screw 16 MODULAR Anti-Rotation 17 **Frame connectors DUO** Accessories / Installation 18 DUO 19-20 **Joint connectors** ZIPBOLT™ 90 KD 21 ZIPBOLT™ 85 21 ZIPBOLT™ 120 22 ZIPBOLT™ 170 22 ZIPBOLT™ 100 MINI 23 KNAPP®-ADHESIVE PU+ Polyurethane adhesive 23 KNAPP®-ADHESIVE PM+

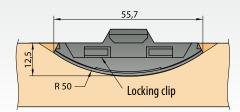
SUNNY

Slide connector, plastic

Art.-No. Ko53







Mounting: Knock in following the radius of the cutting edges.

Advantages: Concealed, self-tightening connector with integrated locking clips.

Installation: Cutting a slot with a plate joiner (Lamello machine "20") and by means of fine-tuning of the groove depth T.

Insert connector part and counterpart together into milled groove.

Suitable materials:

All softwoods and board materials without laminate surfaces.

Application: Carcase furniture, interior design, shopfitting, clamping device for mitre joints and corners.

Accessories: see page 15 Insert tool | Art.-No. Ko49/E









2) Insert

3) Knock in with the insert tool

4) Assemble

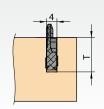
SILVER

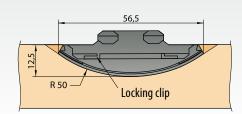
1) Routing

Slide connector, alloy-diecast

Art.-No. Ko49







Mounting: Knock in following the radius of the cutting edges.

Advantages: Concealed, self-tightening, demountable connector with integrated locking.

Installation: Cutting a slot with a plate joiner (Lamello machine "20") and by means of fine-tuning of the groove depth T.

Insert connector part and counterpart together into milled groove.

Suitable materials:

All softwoods and board materials not likely to split.

Application: Carcase furniture, interior design, shopfitting, clamping device for mitre joints and corners.

Accessories: see page 15 Insert tool | Art.-No. Ko49/E



1) Routing



2) Bending locking clips



3) Insert, knock in



4) Knock in with the insert tool



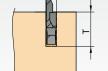
5) Assemble

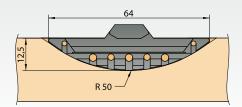
CHAMP

Slide connector, glass fiber reinforced plastic

Art.-No. Ko23







Info: Moisten the surface of very dry wood before gluing.

Mounting: Glue in with KNAPP®-ADHESIVE PU+.

Advantages: Invisible, self-tightening, demountable connector.

Cutting a slot with a plate joiner (Lamello machine "20") and by means of fine-tuning of the groove depth T. Installation:

Insert connector part and counterpart together into milled groove.

Suitable All wood and board materials. materials:

Universal applicable for carecase furniture, interior design, shopfitting, to join mitre joints and curves without using **Application:**

clamps or fixing devices.

Accessories: KNAPP®-ADHESIVE PU+ | Art.-No. Zo11 see page 23











1) Routing

2) Gluing

3) Insertion

4) Position with template

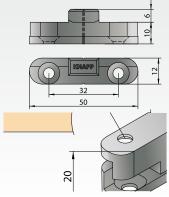
5) Assemble

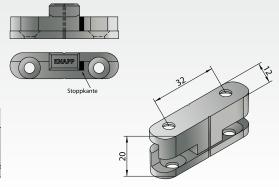
CHICO

Slide connector, alloy-diecast

Art.-No. Ko3o







Mounting: Screw in with CS-screws $\emptyset = 4.5$ mm.

Advantages: Self-tightening, demountable connector with integrated stop.

Cutting a slot with any spindle moulder, plunge router or CNC equipment and screw in or screw onto surface. Installation:

Suitable All wood and board materials. materials:

Application: Carcase furniture, interior design, trim panels.









1) Routing 2) Insertion

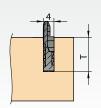
3) Screwing

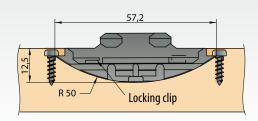
METAL

Slide connector, alloy-diecast

Art.-No. Ko26







Mounting: Screw in with PH-screws.

Advantages: Concealed, self-tightening, demountable connector with integrated locking clips.

Cutting a slot with a plate joiner (Lamello machine "20") and by means of fine-

Installation: tuning of the groove depth T.

Insert connector part and counterpart together into milled groove.

Suitable materials:

All wood and board materials.

Application: Carcase furniture, interior design, shopfitting, door frames.

Accessories: PH-screw 3x13 mm | Art.-No. Z600 see page 15 PH-screw 3x25 mm | Art.-No. Z6o1





1) Routing



2) Bending locking clips



3) Screw in

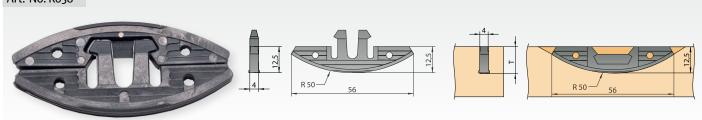


4) Assemble

FAST

Clip-in connector, plastic

Art.-No. Ko58



Mounting: Knock in following the radius of the cutting edges, permanent gluing optional.

Advantages: Concealed, self-tightening, demountable connector, immediately load bearing.

Cutting a slot with a plate joiner (Lamello machine "20") and by means of fine-

tuning of the groove depth T. Insert connector part and counterpart together

into milled groove.

Suitable All softwoods and board materials without laminated surfaces. materials:

Application: Carcase furniture, interior design, shopfitting, blinds, coverings.

Accessories: Insert tool | Art.-No. Ko49/E

see page 15



2) Insert



3) Knock in with the insert tool



4) Assemble



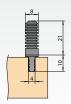
1) Routing

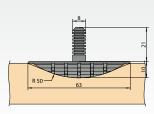
CLIPS

Clip-in connector, plastic

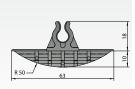












Info: Moisten the surface of very dry wood before gluing.

Mounting: Glue in with KNAPP®-ADHESIVE PU+.

Advantages: Self-tightening, demountable connector, adjustable (gap or rabbet).

Installation: Cutting a slot with a plate joiner (Lamello machine "20"). Insert each different

connector halves with some adhesive into the pre-cut slots.

Suitable All wood and board materials.

Application: Carcase furniture, interior design, shopfitting, to join mitre joints and curves

without using clamps or fixing devices.

Accessories: see page 23 KNAPP®-ADHESIVE PU+ | Art.-No. Zo11







1) Routing

2) Gluing

3) Insert

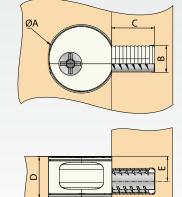
Zipbolt™ Fastfit

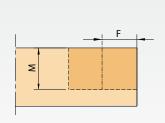
One piece connector for material ≥ 16 mm

Art.-No. Z339



One piece joint connector





Drilling depth M	Ø A	В	С	D	E	F
13 mm	20 mm	8 mm	12,5 mm	12,5 mm	7,5 mm	min. 9,5 mm

Mounting: Drive in with a cross-slot screwdriver #2 in pre-drilled holes.

Advantages: One-piece connector, self-tigthening.

Installation: Dowel hole drilling machines, CNC equipment.

Suitable materials:

Wood panels, composite materials.

Application: Connector for corner joints.



DUO 30, DUO 35

The hook connector made of steel

System advantages:

- Easy to mount, concealed and immediately loadable
- Low cutting depth only 3 mm
- I Flexible use as a variant $\emptyset = 30$ and 35 mm
- Optional mL / oL (with / without tolerance)
- To be installed with standard industrial screws
- Hooking way 15 mm

DUO 30 mL

DUO 30 oL

Art.-No. Ko70

Art.-No. Ko74





CS-screws 3,5x16 mm (not included)

DUO 35 mL

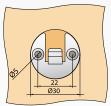
DUO 35 oL

Art.-No. Ko61

Art.-No. Ko62









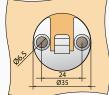
Installation example:

Mounting handrail

Installation example:

Mounting on door leaf and facing element.







Hooking way 15 mm

Hooking way 15 mm







Screw on DUO 30 with CS screws 3,5x16 mm / DUO 35 with Euro-screws 6x10 mm, screw length depends on Mounting:

application, installation depth only 3 mm.

Concealed, self-tightening, demountable connector which allows shrinkage and expansion moving Advantages:

(mL = with tolerances) or for exact placing (oL = with no tolerances).

Drill installation holes using the TCT boring bit $\emptyset = 30/35$ mm according to marking or by using depth gauge or Installation:

center punches or with CNC equipment.

Suitable materials: All kinds of wood and particle boards.

Application: Facades and windows, staircases and handrails, coverings and door covering layers.

TCT boring bit ($\emptyset = 30/35$ mm, adjustable depth gauge) | Art.-No. Zo70 / Art.-No. Zo71 Accessories:

Center punch DUO 30/35 | Art.-No. Ko71 / Art.-No. Ko69, Handrail punch DUO 30 | Art.-No. Ko75 see page 15

Adjustable boring template DUO 30/35 | Art.-No. K563

Installation DUO 30



1) Drilling with jig



or according to mark



2) Mark with center punch



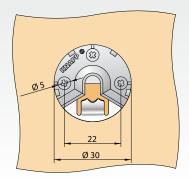
3) Screwing

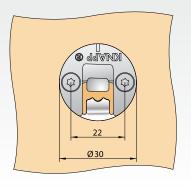
Locking clip

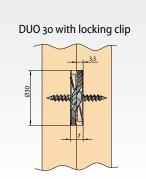
for DUO 30 und UNO 30

Art.-No. K121









Mounting: By inserting and screwing with DUO 30 or UNO 30.

Advantages: Safety catch loads up to 24 kg (failure load approx. 73 kg).

UNO 30

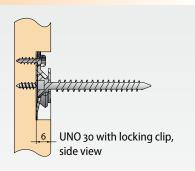
Universal stainless steel hanging connector with locking clip (optional)

Art.-No. K120



PH-screw 3x13 mm CS-holding screw 5x50 mm

Optional also available with: CS-holding screw 5x30 mm or CS-holding screw stainless steel A2 5x25 mm



Mounting: Screwing in with CS screws $\emptyset = 3$ mm, only 7 mm drill depth.

Advantages: Concealed, self tightening, demountable connector for 30 mm drills.

Installation: Drilling hole by using the TCT boring bit according to distance marks or by using the drilling jig. Copy the hole by using the center punch and screw in.

Suitable materials: All kind of wood boards (solid and composite materials).

Application: With or without locking clip, for furniture, interior design, facades, panelling.

Accessories: TCT boring bit ($\emptyset = 30$ mm, with adjustable depth stop) | Art.-No. Zo70

Center punch UNO 30 | Art.-No. Ko73

see page 25
Adjustable boring template UNO 30 | Art.-No. K563



1) Drilling with jig



or according to mark



2) Screwing



3) Transfer with the center punch



4) Screwing

TREPPO



Info: Moisten the surface of very dry wood before gluing.

Mounting: Glue in with KNAPP®-ADHESIVE PM+ with drill hole.

Advantages: Adjustable mounting screw for steps to compensate the differences in height on concrete steps.

Installation: Drilling machine with $\emptyset = 14$ mm for concrete and $\emptyset = 5$ mm drills for stair treads.

Suitable materials: Wooden stair treads on concrete, stone or metal.

Stair tread mounting, stair restoration. Application:

Accessories: KNAPP®-ADHESIVE PM+ | Art.-No. Zo10 see page 23







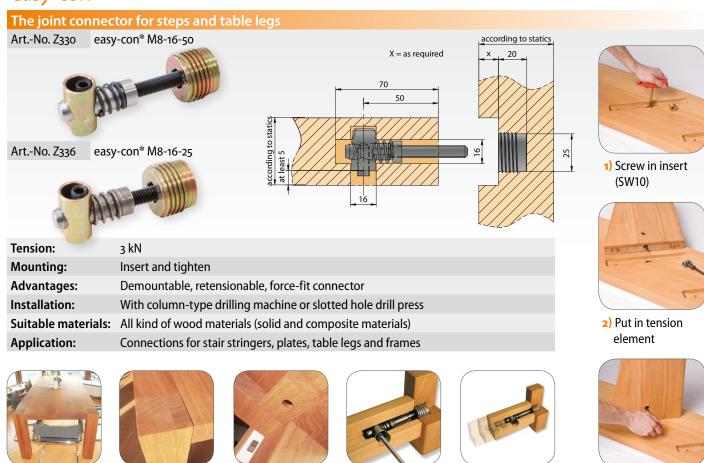


1) Drill 2) Gluing and install

3) Transfer drillings

4) Assemble

easy-con®



Example of the connection of table legs with easy-con®.

3) Tighten tension element (SW4)

TUCK

Dowel, springsteel

Art.-Nr. Z5052 Art.-Nr. Z5053 Art.-Nr. Z5055 Art.-Nr. Z5055B Art.-Nr. Z5052A 6x25 mm 8x35 mm 10X32 mm 10x16 mm 10x28 mm



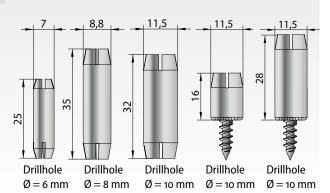












Mounting: Self-tightening by tension against insertion direction.

Advantages: Concealed, self-tightening dowel, immediately load bearing.

Dowel-jig, power drill, dowel inserting machine. Installation:

Suitable materials: All kind of wood materials (solid and composite materials). **Application:** To join carcase furniture, interior design, shopfitting.



1) Drill with dowel inserting machine



or with table dowel driller



2) Knock in



or screw



3) Assemble

OUICK-SET

2-part cabinet connector

Art.-No. Z5052



Art.-No. Z5053



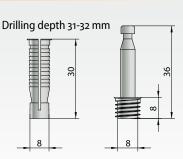


for drillhole

Ø = 5 mm



Plastic dowel for drillhole Ø = 8 mm



Anchorbolt for drillhole Ø = 8 mm

Mounting: By screwing in the anchorbolt and knock in the plastic dowel.

Advantages: Concealed, self-tightening carcase connector. Installation: Dowel-jig, power drill, dowel inserting machine. Suitable materials: All kind of wood boards (solid and composite materials).

Application: Furniture, interior design, shopfitting e.g. panels and infill panels.



1) Drill with dowel inserting machine



or with CNC milling machine



or with table dowel driller



2) Screw in



3) Insert



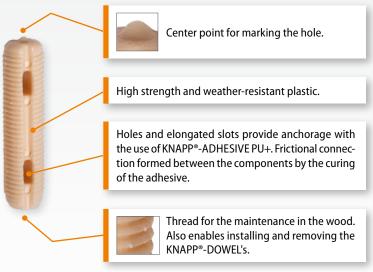
4) Assemble

KNAPP®-DOWEL

The modern dowel made of plastic

System advantages:

- Effective prefabrication drill in with dowel inserting machine (chamfer opposite drill hole 1 mm)
- Fast mounting connection is immediately loadable because traversal grooves raise the stability
- Depending on material up to 6 KNAPP®-DOWELS are recommended for 600 mm
- Longitudinal grooves distribute the glue and prevent bulging of the panels (PVA glue)
- If gluing is double-sided, deeper drilling is recommended (+6 up to 8mm)
- No shrinking or swelling, risk of breakage or cleaving as with a hardwood dowel
- Weather resistant resistant compound for interior and exterior use
- Stable through additional bonding with KNAPP®-ADHESIVE PU+ particularly high loads

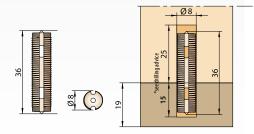


Art.-No. Ko66 6x28 mm

Info: Moisten the surface of very dry wood before gluing.







⚠ More information:

www.knapp-connectors.com/dowel

Mounting: dowel, optionally gluing with KNAPP®-ADHESIVE PU+.

Advantages: UV-resistant, self-tightening dowel.

Installation: Dowel-jig, power drill, dowel inserting machine.

Suitable materials: All kinds of wood materials (solid and composite materials). **Application:** Carcase furniture, interior design, windows, shopfitting.

Accessories:

see page 23 KNAPP®-ADHESIVE PU+ | Art.-No. Zo11

KNAPP®-DOWEL



 Drill with dowel inserting machine



or with table dowel driller



2) Gluing



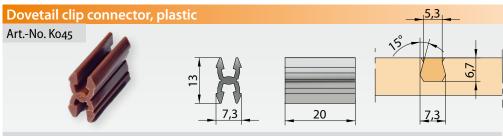
3) Knock in



4) Assemble



KLICK



Mounting: Clips into the dovetail groove.

Concealed, self-tightening, demountable. Advantages:

Using a plunge router, a circular saw bench or CNC and a dovetail router, make

Installation: a pocket groove or continuous groove. Can also be used without groove in con-

junction with KLICKpro.

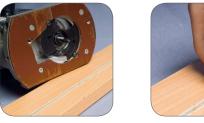
Suitable For all solid wood, wood based panels and plastic materials. materials:

Application: For concealed mounting of moldings or as an aid for gluing mitered corners.

Accessories:

TCT router with $\emptyset = 8 \text{ mm shank} \mid \text{Art.-No. Ko46/F}$ see page 15

Installation









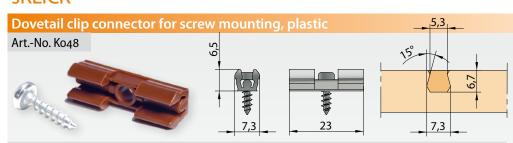
1) Routing

2) Insert

3) Positioning

4) Assemble

sKLICK



Mounting: By screwing with PH-screw.

Advantages: Self-tightening, demountable connector for any angles o-90°.

Using a plunge router, a circular saw bench or CNC and a dovetail router, make

Installation: a pocket groove or continuous groove. Can also be used without groove in con-

junction with KLICKpro.

Suitable materials:

For all solid wood, wood based panels and plastic materials.

Application: For concealed mounting of filler panels, covers and moldings.

Accessories: TCT router with $\emptyset = 8 \text{ mm shank} \mid \text{Art.-No. Ko46/F}$

see page 15 PH-screw 3x13 mm | Art.-No. Z600











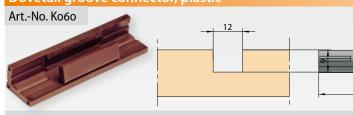
3) Positioning

4) Assemble

1) Routing 2) Screwing

KLICKpro

Dovetail groove connector, plastic



KLICKpro can either be surface mounted or mounted into a groove. Mounting:

It is fixed by screwing, nailing or gluing.

Advantages: Concealed, self-tightening dovetail housing suitable for KLICK and sKLICK.

Cut either groove or rebate (9x12 mm by using a spindle moulder) or install Installation:

KLICKpro surface mounted. For use with KLICK or sKLICK.

Suitable For all solid wood, wood based panels and plastic materials. materials:

Application: For concealed mounting of filler panels, covers and moldings.



Verarbeitung







1) Routing

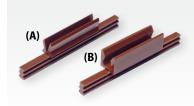
2) Screwing

3) Assemble

miniKLICK

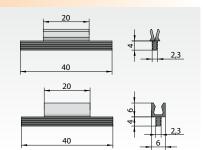
2-part dovetail clip connector, plastic

Art.-No. Ko59



Info: Moisten the surface of very dry wood before gluing.





Mounting: Gluing into pre-cutted groove with KNAPP®-ADHESIVE PU+.

Advantages: Concealed, self-tightening dovetail connector for glue on mounting.

Installation: With spindle moulder and cutting saw blade.

Suitable materials: For all solid wood, wood based panels and plastic materials.

Application: For concealed mounting of small moldings and glazing beads e.g. interior doors.

Cutting saw blade 120 mm, $\emptyset = 30$ mm drillhole | Art.-No. Zo65 **Accessories:**

Insert tool miniKLICK | Art.-No. Ko68 see page 15 KNAPP®-ADHESIVE PU+ | Art.-No. Zo11 see page 23









3) Insert

4) Assemble

1) Routing

2) Gluing

Accessories

Insert tool

Art.-No. Ko49/E

Application: To positioning SUNNY, SILVER and FAST.



Art.-No. Ko71 Center punch DUO 30 Art.-No. Ko75 Handrail punch DUO 30

Art.-No. Ko69 Center punch DUO 35 mit \emptyset = 5 mm for pre-drilling holes for Euro-screws

Application: To copy the drilling positions of DUO 30 and 35.

TCT boring bit $\emptyset = 30 \text{ mm/}35 \text{ mm}$

Art.-No. Zo70 TCT boring bit for DUO 30 and UNO 30 (\emptyset = 30 mm) with adjustable depth stop

Art.-No. Zo72 TCT boring bit for DUO 30 and UNO 30 (\emptyset = 30 mm) with adjustable depth stop

and adjustable centering point

TCT boring bit for DUO 35 (\emptyset = 35 mm) with adjustable depth stop Art.-No. Zo71

Application: To prebore exactly DUO 30, DUO 35 and UNO 30.



Art.-No. K563 Depth gauge including center punch suitable to TCT boring bit $\emptyset = 30/35$ mm

Boring template for DUO 30, DUO 35 and UNO 30. **Application:**

Center punch UNO 30

Art.-No. Ko73

Application: To copy the drilling positions of UNO 30.

TCT router

TCT router with $\emptyset = 6$ mm shank Art.-No. Ko45/F

Art.-No. Ko46/F TCT router with $\emptyset = 8 \text{ mm shank}$

For routing of the dovetail groove for KLICK and sKLICK connectors. **Application:**

Cutting saw blade miniKLICK

Art.-No. Zo65 Cutting saw blade $\emptyset = 120$ mm, spindle $\emptyset = 30$ mm

Application: For routing of the groove for miniKLICK connector.

PH-screws

Art.-No. Z600 PH-screw 3x13 mm (for METAL, UNO 30 and sKLICK)

Art.-No. Z601 PH-screw 3x25 mm (for METAL)

Application: For screwing the connectors METAL, UNO 30 and sKLICK.















MODULAR



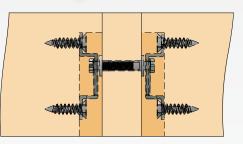




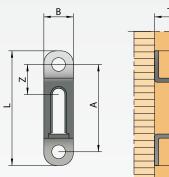


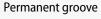


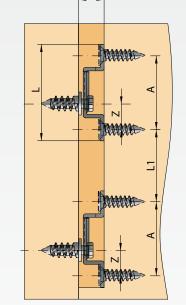
Drill- and depth-jig for connector groove





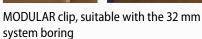






MODULAR	4031, 4032, 4035
Routing depth T:	11 mm
Routing length L:	≥ 42 mm
Routing width B:	11 mm
Center distance Z:	11 mm
Panel thickness from:	16 mm







Totally concealed installation

Mounting: With PH- or CS-screws $\emptyset = 4.5$ mm (length as required) and shoulder head screw.

32 mm

Concealed, self-tigthening connector for 32 mm system, demountable, for timber and steel. Advantages:

Installation: Spindle moulder, plunge router, CNC equipment.

Suitable materials:

Hole-line A:

For all solid wood, wood based panels and plastic materials from 16 mm thickness up.

Application: Carcase furniture, interior design, shopfitting.

Drill- and depth-jig | Art.-No. Z4032C Accessories:

MODULAR - shoulder head screw

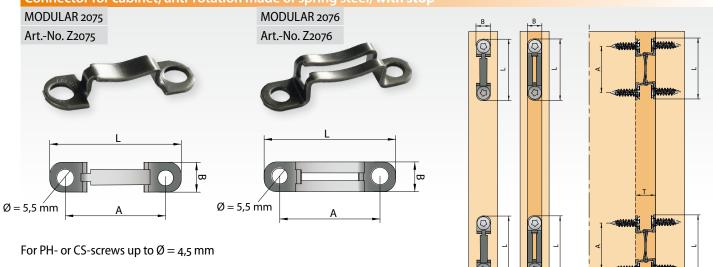
Shoulder head screws MODULAR 2055 MODULAR 2155 Art.-No. Z2055 Art.-No. Z2155 Thread length: 13 mm 16 mm

Double side connection

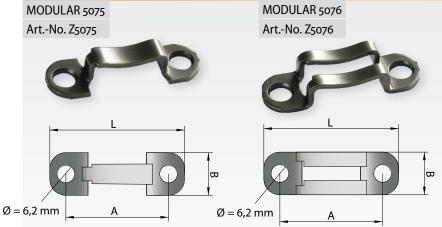
Shoulder head screws M4					
MODULAR 2069	MODULAR 2066				
ArtNo. Z2069	ArtNo. Z2066				
15 mm	16 mm				

MODULAR

Connector for cabinet, anti-rotation made of spring steel, with stop



Connector for frames, anti-rotation made of spring steel, with pass-thru clip



For PH- or CS-screws up to $\emptyset = 5 \text{ mm}$

MODULAR	2075, 2076	5075, 5076
Routing depth T:	14 mm	12 mm
Routing width B:	10 mm	13,5 mm
Routing length L:	42 mm	42 mm
Panel thickness from:	16 mm	19 mm
Hole-line A:	32 mm	32 mm



MODULAR with friction

Mounting:	Screwed in by using PH	- or CS-screws $\emptyset = 5 \text{ mm}$	(length as required).

Advantages: No rotation, concealed, self-tightening connector for 32 mm system, demountable.

Installation: Spindle moulder, plunge router, CNC equipment.

Suitable materials: For all solid wood, wood based panels and plastic materials from 16 mm thickness up.

Application: Carcase furniture, interior design, shopfitting.







2) Depth setting



3) Pre-drill



4) Screwing



5) Screwing

DUO



Advice: The steel parts consist of two identical connectors and are manufactured from high strength galvanized steel in Austria. Mounting: By screwing with CS-screws $\emptyset = 5$ mm or $\emptyset = 6$ mm (length as required) and PH-holding screws $\emptyset = 5$ mm or $\emptyset = 6$ mm.

Advantages: Concealed, self-joining, adjustable joints by retaining screw for frames compounds.

Installation: With CNC machine, mortising machine, hand router.

Suitable

All solid wood and plywood materials from \geq 21 mm. materials:

Application: Frames for furniture, stairs and exhibitions booth, interior design.

Accessories

Routing-jigs MULTI F (plywood)

Routing-jig MULTI F 15, DUO 46/15, DUO 62/15, DUO 100/15 | Art.-No. K500

Routing-jig MULTI F 20, DUO 90/20 | Art.-No. K506

Routing-jig MULTI F 30, DUO 46/30, DUO 62/30 | Art.-No. K501

Routing-jig MULTI F 46, DUO 90/46 | Art.-No. K503

Advice: All routing-jigs are suitable for a $\emptyset = 30$ mm guide bush (for plunge router) and a $\emptyset = 15$ mm TCT router cutter.

TCT router cutter

 \emptyset = 15 mm, length = 25 mm with \emptyset = 8 mm shank | Art.-No. Z066/08



Holding screws (pan head screws, full threaded)

PH-screws 5x40 (200 pcs./package) | Art.-No. Z702

PH-screws 5x60 (200 pcs./package) | Art.-No. Z704

PH-screws 6x40 (250 pcs./package) | Art.-No. Z800

PH-screws 6x60 (200 pcs./package) | Art.-No. Z802

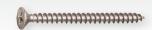
Holding screws (countersunk screws, full threaded)

CS-VG-screws 5x40 (500 pcs./package) | Art.-No. Z500

CS-VG-screws 5x60 (250 pcs./package) | Art.-No. Z498

CS-VG-screws 6x40 (250 pcs./package) | Art.-No. Z501

CS-VG-screws 6x60 (200 pcs./package) | Art.-No. Z499





1) Route with routing-jig



2) Screwing (a)



3) Screwing (b)



4) Assemble

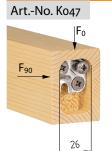
Right angle to slide-in direction 0,62 kN

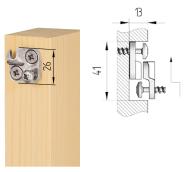
Right angle to slide-in direction

0,92 kN

DUO 26

DUO 26/26 mm





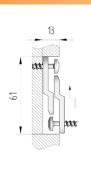
Holding 5440 5460			Load capacity			
screws	5 5X40 5X60		zul F ₀			zul F ₉₀
PH	1	1			ht angle to -in direction	
CS	2	2	0,97 kN		1,07 kN	
Recommended size of square timber			Size of	rebate		
Width /II-i-b F0F0		Width	Не	eight	Depth	
Width/Height: 50x50 mm		26 mm	41	mm	13 mm	

DUO series 15

DUO 46/15 mm







Holding Evan Load ca	ар
screws 5x40 5x60 zul F ₀	
PH 1 1 Slide-in direction	
CS 1 1 0,86 kN	

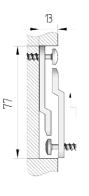
Recommended size of square timber	Size of rebate			
Width/Height: 30/80 mm	Width	Height	Depth	
	15 mm	61 mm	13 mm	

DUO 62/15 mm

Art.-No. Ko36







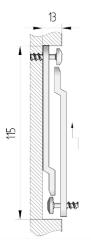
Holding screws	5x40	5x60	Load capacity			
	JATO	3,00	zul F ₀	zul F ₉₀		
PH	1	1	Slide-in direction	Right angle to slide-in direction		
CS	2	2	1,29 kN	0,71 kN		
Pocommo	ndod ci-	70				

Recommended size of square timber		Size of rebate	
Width/Height: 30/100 mm	Width	Height	Depth
width/Height. 50/100 min	15 mm	77 mm	13 mm

DUO 100/15 mm







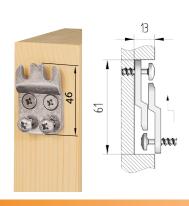
Holding screws	5x40	5x60	Loa₁ zul F₀
PH	1	1	Slide-in direction
CS	3	3	2,00 kN

Recommended size of square timber	Size of rebate		
Width/Height: 30/140 mm	Width	Height	Depth
	15 mm	115 mm	13 mm

DUO series 30

DUO 46/30 mm



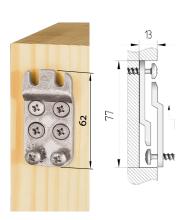


Holding	5x40	5x60	Load ca	apacity	
screws	3,40	3,00	zul F ₀	zul F ₉₀	
PH	2	2	Slide-in direction	Right angle to slide-in direction	
CS	2	2	1,30 kN	1,12 kN	
Recommended size			Size of rebate		

Recommended size of square timber	Size of rebate		
Width/Usight, FO/90 mm	Width	Height	Depth
Width/Height: 50/80 mm	30 mm	61 mm	13 mm

DUO 62/30 mm





Holding screws	5x40	5x60	Load ca zul F₀	apacity zul F ₉₀
PH	2	2	Slide-in direction	Right angle to slide-in direction
CS	4	4	2,15 kN	1,67 kN
Recommended size		Size of	rebate	

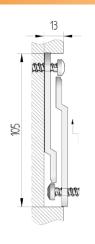
Recommended size of square timber	Size of rebate			
Width/Height: 50/100 mm	Width	Height	Depth	
width/neight: 50/100 mm	30 mm	77 mm	13 mm	

DUO 20 and 46

DUO 90/20 mm





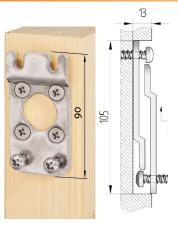


Holding	6×40	6x60	Load capacity		
screws	6x40	OXOU	zul F ₀	zul F ₉₀	
PH	1	1	Slide-in direction	Right angle to slide-in direction	
CS	2	2	2,37 kN	1,03 kN	
Recommended size		Sizo of	robato		

Recommended size of square timber	Size of rebate			
Width/Haight: 40/130 mm	Width	Height	Depth	
Width/Height: 40/120 mm	20 mm	105 mm	13 mm	

DUO 90/46 mm





Holding	6x40	6x60	Load capacity			
screws	000	OXOU	zul F ₀	zul F ₉₀		
PH	2	2	Slide-in direction	Right angle to slide-in direction		
CS	4	4	4,35 kN	2,28 kN		
D						

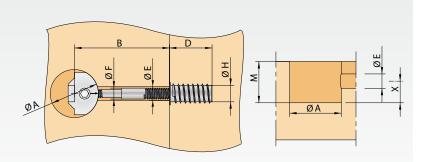
Recommended size of square timber	Size of rebate			
Width/Usight: 60/130 mm	Width	Height	Depth	
Width/Height: 60/120 mm	46 mm	105 mm	13 mm	

ZIPBOLT™ 90 KD

Joint connector for frames ≥ 22 mm







With metal housing:

Resilient to 60 kg tension load (failure load approx. 100 kg)

Drilling depth M	Χ	ØΑ	В	D	ØН	ØF	Е
20 mm	9,5 mm	35 mm	60-65 mm	32 mm	12 mm	8 mm	9 mm

Mounting: Into pre-drilled holes.

Fast and easily installed by using a 5 mm hex bit SW5 in conjunction with Advantages:

cordless screwdriver.

Installation: Drilling machine, plunge router, CNC equipment.

Suitable For all solid wood and wood based panels. materials:

Application: Connector with insert for rails and RTA (ready to assembly) furniture.

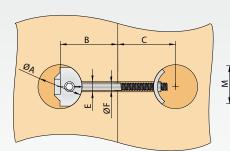


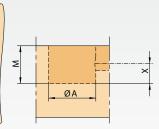
ZIPBOLT™ 85

Joint connector for worktops ≥ 22 mm









With metal housing:

Resilient to 60 kg tension load (failure load approx. 100 kg)

Drilling depth M	Length	Х	Ø A	В	С	ØF	E
20 mm	85 mm	9,5 mm	35 mm	33-44 mm	33-44 mm	6 mm	8 mm

Mounting: Into pre-drilled holes and grooves.

Fast and easily installed by using a 5 mm hex bit SW5 in conjunction with Advantages:

cordless screwdriver.

Installation: Drilling machine, plunge router, CNC equipment.

Suitable

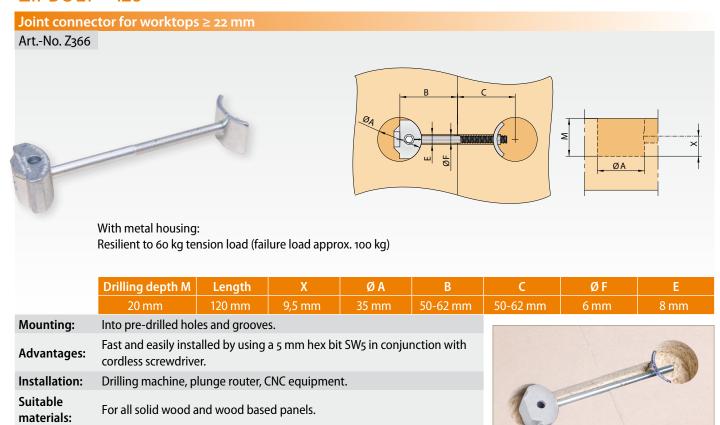
For all solid wood and wood based panels. materials:

Application: Board connector for worktops, countertops and panels.



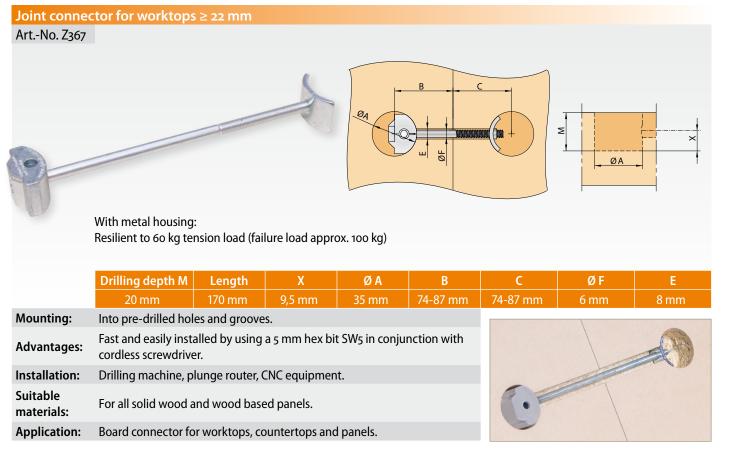
Board connector for worktops, countertops and panels.

ZIPBOLT™ 120

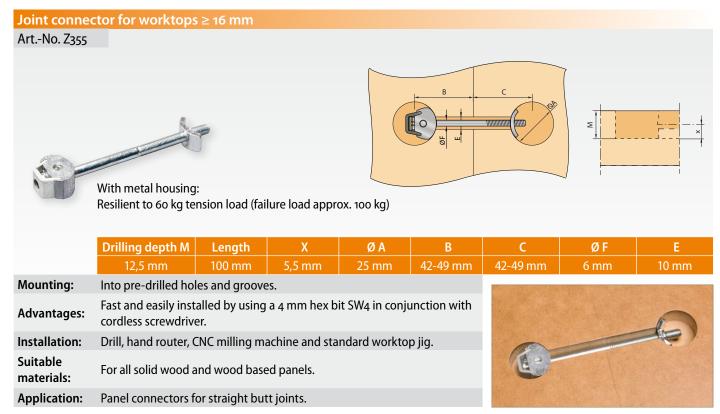


ZIPBOLT™ 170

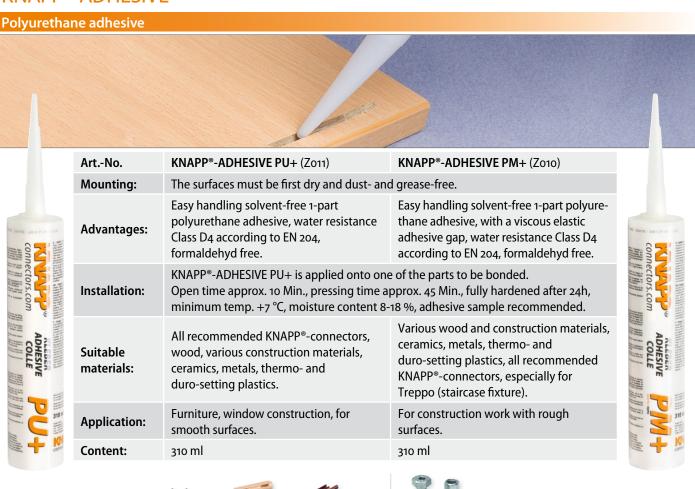
Application:



ZIPBOLT™ 100 MINI



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