Lamello System

2021

english

Joining with the
Lamello System

An exceptionally efficient, simple and precise joining system for panels

How it works

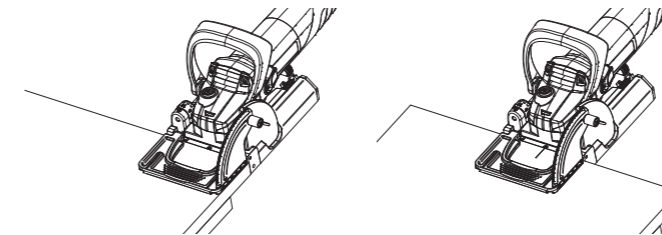|			
1. Cut grooves	2. Apply glue	3. Insert biscuits	4. Clamp workpiece

The precise work results of the system and the long life of the power tools pay off

## Advantages and properties

Fast – Lateral sliding tolerance

– **Easy positioning** of the machine to the pencil mark
– **No additional side stops or positioning aids necessary**
– **Great flexibility** when assembling, possibility to join panels by sliding together from different angles – not just perpendicular unlike dowels (see large picture left)

Easy – Same groove depth for both sides
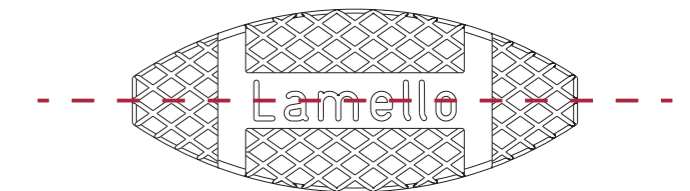
– No changing of the cutting depth means **less room for error**
– **Saves time** with every joint

Precise – Established cutting principle with disc cutter
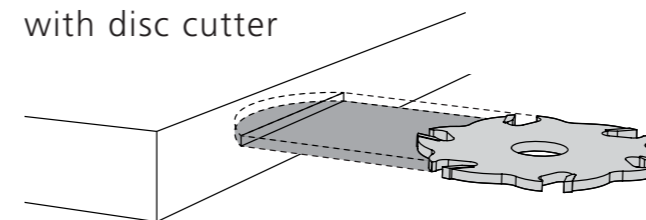
Disc-shaped tools cannot bend or flex
– **Always parallel, precise grooves** – despite wood knots or fast working
– **No tool change** for many different joining elements
– **Low maintenance cost** throughout the long life of the power tool, maintenance comprises **one cutting tool only**

Versatile – Thin flat joining element with minimal installation depth
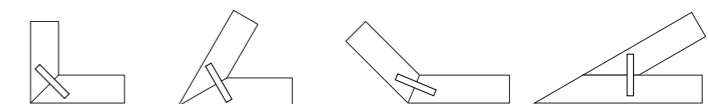
– **Join thin workpieces** 8 or 10 mm in many various angles
– **Minimal material weakening**
– **Non-rotating, cost effective** joining elements

Versatile applications with a wide range of joining elements

Without tool change			With tool change
20	**10**	**0**	**H9**
E20-L	E20-H	K20	Clamex S-18
C20	C10	Simplex	

...and many more additional benefits

Cut grooves

Cut grooves for tongue and groove connections, using standard carbide-tipped groove cutter 4 mm

Wood repairs

Repairing of resin pockets and small defects, carbide tipped cutter for Minispot patches size 2

Cut expansion gaps

Expansion gaps for wood ceilings or floors, sliding shoe and carbide-tipped saw blade

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The original wooden biscuit

The Original
Swiss production
Swiss timber
Lamello quality

WOOD

CERTIFIED SWISS WOOD

© Logo for genuine Swiss timber
Lignum-70-0003
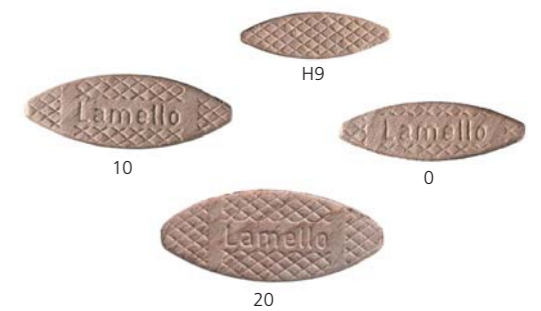
Advantages and properties

1. Rounded smooth edges
– Easy handling and insertion

2. Recessed & embossed glue surface
– Accurate glue distribution
– Easy insertion into groove

3. Diagonal fiber orientation
– Excellent breaking strength

Wood biscuits carton	Size	Quantity	Part no.
Size 20	56 × 23 × 4 mm	1000 pieces	**144020**
Size 10	53 × 19 × 4 mm	1000 pieces	**144010**
Size 0	47 × 15 × 4 mm	1000 pieces	**144000**
Size H9	38 × 12 × 3 mm	1000 pieces	**144009**
Size 20, 10, 0	assorted	1000 pieces (500, 250, 250)	**144030**

Installation of wooden biscuits with cutter Ø 100 × 4 × 22 mm (standard cutter)
Installation of H9 wooden biscuits with cutter Ø 78 × 3 × 22 mm (Part no. 132009)

FSC
www.fsc.org
FSC® C120728

The mark of
responsible forestry
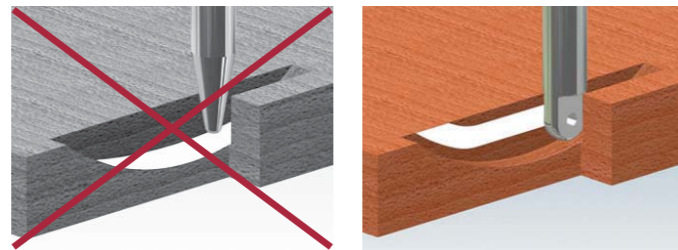
Gluing

Minicol
The all purpose glue applicator

Advantages and properties
– For 4 mm grooves
– Nozzle facing downwards in the stand for quick use
– Bottle base prevents the glue from drying up in the nozzle
– Volumetric capacity: 300 ml
– Glue application on the sides

Glue application on the sides

Minicol: glue applicator with a
sturdy bottle base in solid wood

175500

Glue applicator Minicol	Part no.
Minicol Mod. KS ......with plastic nozzle..........................	175500
Minicol Mod. M ....with metal nozzle..........................	175550

Nozzles for Minicol	Part no.
plastic nozzle	335511
metal nozzle	285512
pointed nozzle	335522
metal nozzle ....for biscuits size H9	285509

Accessories starting page 102

Clamping Set

Advantages and properties
– Easy clamping system for gluing case work, drawers,
  frames, wall and floor panels
– Even pressure distribution guarantees correct angle
  of workpiece

175020

Clamping Set		Part no.
20 cm ....1 piece of clamps..........................		175021
	8 m belt	
	4 pieces profile sections 20 cm	
60 cm ....2 pieces of clamps..........................		175020
	2 pieces 8 m belt	
	4 pieces profile sections 60 cm	
	2 pieces tension hooks	

Parts	Quantity		Part no.
Clamps..........................2 pieces....................5 m clamping belt			175005
		8 m clamping belt	175008
Buckle for clamps ....1 piece ....without belt			175060
Polyester belt for clamps ....1 roll ....of 50 m			175050
	Per meter ....m¹		335000
Tension hooks ....2 pieces			175200
Profile sections ....4 pieces ....length 12 cm			175401
		length 40 cm	175402
		length 60 cm	175403

Clamex S connector

For aesthetic constructions. Detachable,
flexible and easy. Installation in an 8 mm
groove with screws

Flexible

Stackable
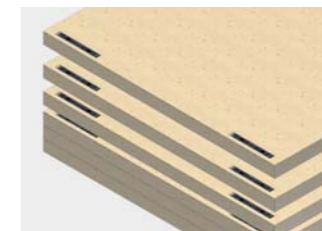
Aesthetic

Detachable

Advantages and properties
– Detachable connections
– Aligns and connects, 2 functions in one
– Aesthetic joint due to the small hole for opening and closing
– Safe from twisting due to the aligning studs
– Flexible miters in all angles
– Stackable, since no parts protrude from the surface,
  so ideal for flat packing
– Easy installation with any Lamello biscuit joiner

Applications of Clamex S
– Detachable furniture joints
– Surface, corner and dividing wall connections
– All angles
– Frame connections
– Dividing walls
– Glue aid

Technical data	
Size...66 × 29 × 8 mm	
Cutter..Ø 100 × 8 × 22	
Material of connector..................fiberglass reinforced plastic	
Material of lever..........................zinc die cast	
Installation tolerance ....longitudinal ± 1.0 mm	
(max. ± 1.25 mm)	

Clamex S-18	Part no.
18 pairs	145231
80 pairs	145236
300 pairs	145241
1000 pairs	145251

Accessories starting page 98

How it works
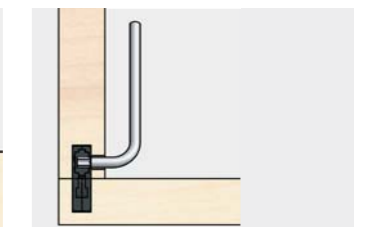Clamex S-18 installation with cutter Ø 100 × 8 × 22 mm (Part no.132108)
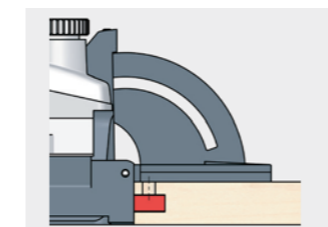
1. Cut groove, 8 mm
2. Drill hole 6 mm
3. Screw in the Clamex S
4. Connect, finished!

E20

The self-clamping element

E20-H

E20-L

Inserting E20-L

Advantages and properties

– **Connects and clamps** with one strike. The curved ridges clamp the connection together during insertion.
– Cut groove in both workpieces **simultaneously**
– **No clamps** – no waiting time
– Easy joining with a Lamello biscuit joiner

Applications of E20

– Door frames
– Furniture plinths
– Elongating of panels and profiles
– Ideal on site

Inserting E20-H

Inserting E20-L

Technical data

Size E20-L .... 56 × 11.5 × 4 mm
Size E20-H .... 23 × 28 × 4 mm
Cutter .... Ø 100 × 4 × 22
Material .... Fiberglass reinforced plastic

E20	Quantity	Part no.
E20-H	80 pieces	**145021**
	400 pieces	**145026**
	1200 pieces	**145028**
E20-L	80 pieces	**145022**
	400 pieces	**145025**
	1200 pieces	**145027**
E20-L / E20-H	40 pieces per type	**145020**

How it works

E20-H

1. Cut groove
2. Apply glue
3. Insert E20-H
4. Finished!

E20-L

1. Cut groove
2. Apply glue
3. Insert E20-L
4. Finished!
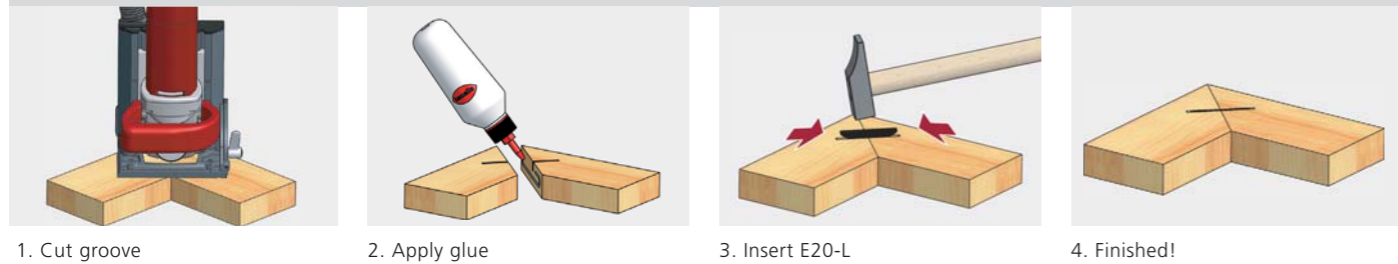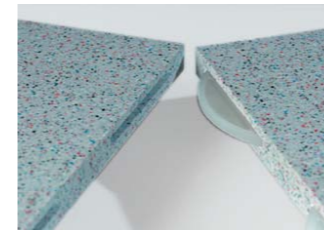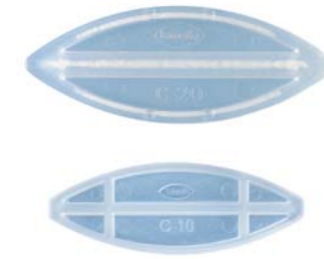
K20
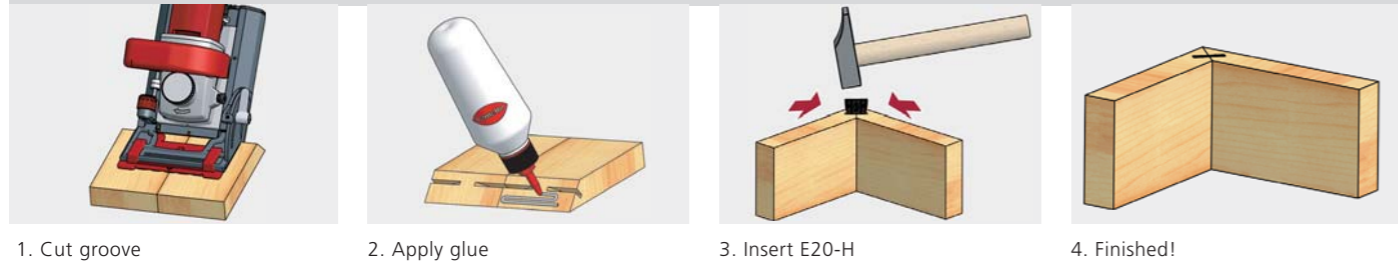
Clamping element

Advantages and properties

Clamping aid for workpieces which are difficult to clamp, e.g. bulkheads, crown moulding etc.
Use in combination with wooden Lamello biscuits.
Made of plastic, barbed cross ribs for grip.

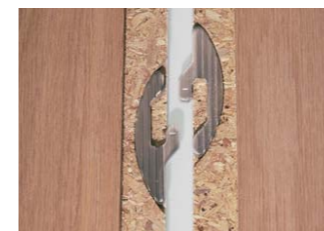| Cutter	Size (mm)	Quantity	Part no.
Ø 100 × 4 × 22	60 × 24 × 4.5	80 pieces	**145001**
		250 pieces	**145000**

C20 / C10

Solid surface element transparency

Advantages and properties

For joining solid surface materials such as Corian®, Varicor® etc. Made of translucent plastic

Cutter		Size (mm)	Quantity	Part no.
C20	Ø 100 × 4 × 22	60 × 23 × 4	250 pieces	**145010**
C10	Ø 100 × 4 × 22	53 × 19 × 4	300 pieces	**145012**

Simplex

Detachable slide-in connector

Advantages and properties

Detachable, two part connector for ceiling panels, screens, shelves and general casegoods.
Install with insertion tool and two-part epoxy adhesive.
Made of aluminum

Cutter	Size (mm)	Quantity	Part no.
Ø 100 × 4 × 22	54 × 23 × 4.1	50 pairs	**166101**
		100 pairs	**166100**

Inserting tool for Simplex (For accurate positioning of Simplex) **166110**
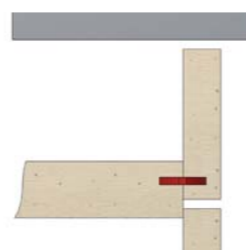
Original Lamello biscuit joiners
These properties make the difference

Multifunctional stop square included in the kit

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

Vertical stability by attaching to the baseplate to increase the surface

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

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

Swivelling front with fixed rotational point

**Exactly the same distance from both sides to the cutter = 8 mm**
Allows alternating the application surface from the swivelling front **1.** to the baseplate **2.** Especially important when cutting thin dividing panel connections

8
4
8

1.

2.

– **Safe process** guarantees always precise, parallel grooves
– **No inaccuracies or source of mistakes** because the height cannot be adjusted
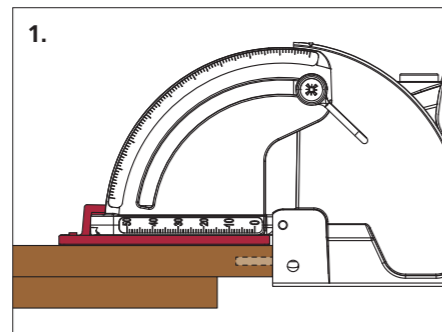
Application with the swivelling front
With the 4 mm spacer for 12 mm dividing panel (groove in the center)
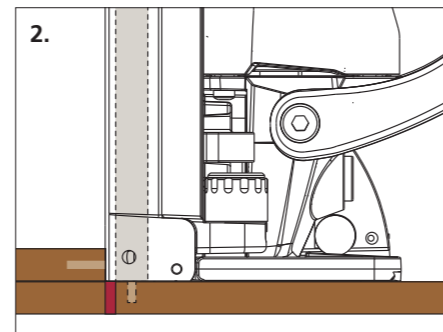
Application with the baseplate
The dividing panel (moved by 4 mm) serves as application surface

High-precision machined application surfaces

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

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

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Classic X

The original biscuit joiner for every workshop. Choose Lamello for precision, reliability, longevity and many other benefits

Swivelling front and base plate are flush on the sides

Advantages and properties
– Powerful 780 W motor, ergonomic slim shape
– **Base plate is flush on both sides** for efficient positioning of the machine on the workpiece

– **High-precision machined guide and application surfaces** for perfect fit of the workpieces
– **Multifunctional stop square**
– **Versatile use**, (see p 52)
– **Swivelling front stop 0 – 90°** with detents at 22.5°, 45°, 67.5°, 90°
– Rotating depth adjuster with **6 standard depths**

Central lock

Versatile applications

Joint with biscuits

Joint with Clamex S

Wood repairs

Technical data

Power	780 W
Voltage	230 V oder 120 V
Speed	10'000 min⁻¹
Cutter	Carbide tipped cutter Ø 100 × 4 × 22
Teeth	Z6 (3+3) with reversing teeth
Cutting depth max.	20 mm
Weight	3.1 kg

Classic X	Part no.
in systainer	**101600S**
in carton	**101600K**

Kit contains

Classic X with:
– carbide tipped cutter
– suction stub 36 mm

– stop square
– spacer 4 mm
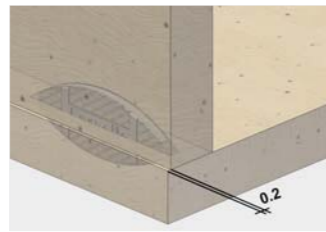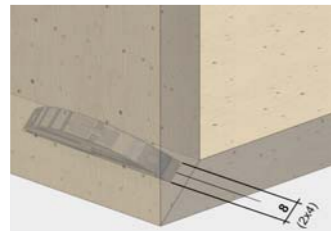– tool set

Accessories starting page 100

Top 21

The original biscuit joiner with height adjustable blade from the inventor of biscuit joiners. Choose Lamello for precision, reliability, longevity and many additional applications

Unique features

1. Height adjustable cutter
SMS: Step Memory System
– Scale +/- 2 mm in steps of 0.1 mm (total 4 mm)
– Adjust groove position to exact **center of the workpiece** (material thickness 8 – 24 mm)
– Easy joining of laterally **off-set workpieces**
– Double cut 2 × 4 mm **for Lamello Clamex S**
– **Expansion gaps** (adjustable from 8 to 12 mm) adjustable in steps of 0.1 mm
– Individual positioning of the groove

2. Powerful 800 W motor
– Powerful, electronically controlled motor with soft start, constant speed control, overload protection and restart protection
– Service friendly, minimal cost for maintenance and repair

3. Precision cutter
with 4 scoring teeth and hub

4. Including dust bag
and adapter Ø 36 mm

Adjust groove to middle

Off-set workpieces

Double cut for Clamex S

Technical data

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

Top 21	Part no.
in systainer	
in systainer with carbide reversing blade cutter	**101500S**
	101500SW

Kit contains
Top 21 with:
– carbide tipped cutter
– suction stub 23 mm
– stop square
– spacer 4 mm
– suction stub 36 mm
– dust bag
– tool set

Accessories starting page 100

Lamello-System

www.lamello.com

Carbide tipped groove cutter

	Part no.
Ø 100 × 4 × 22 mm	**132000**
	132106
for Zeta, Top, Classic	
for Classic	

Simplex

Detachable slide-in connector
Size	54 × 23 × 4 mm	Part no.
		166101
		166100
50 pairs		
100 pairs		

C20

Biscuit for solid surface
Size	60 × 23 × 4 mm	Part no.
		145010
250 pieces		

C10

Biscuit for solid surface
Size	53 × 19 × 4 mm	Part no.
		145012
300 pieces		

K20

Clamping element
Size	60 × 24 × 4.5 mm	Part no.
		145001
		145000
80 pieces		
250 pieces		

Clamex S-18*

Connector with screw insertion
Size	66 × 29 × 8 mm	

* Cutter with reversible blades:
Ø 100 × 8 × 22 mm, Part no. 132108

	Part no.
	145231
	145236
	145241
	145251
18 pairs	
80 pairs	
300 pairs	
1000 pairs	

E20-L

Self-clamping element
Size	56 × 11.5 × 4 mm	Part no.
		145022
		145025
		145027
80 pieces		
400 pieces		
1200 pieces		

E20-H

Self-clamping element
Size	23 × 28 × 4 mm	Part no.
		145021
		145026
		145028
80 pieces		
400 pieces		
1200 pieces		

original wooden biscuit

20
	Part no.
	144020
1000 pieces	
Size	56 × 23 × 4 mm

0
	Part no.
	144000
1000 pieces	
Size	47 × 15 × 4 mm

H9**
	Part no.
	144009
1000 pieces	
Size	38 × 12 × 3 mm

**Carbide tipped groove cutter
Ø 78 × 3 × 22 mm, Part no. 132009

10
	Part no.
	144010
1000 pieces	
Size	53 × 19 × 4 mm

Stop square for Zeta P2, Top 21, Classic X — Part no.
For stabilising the biscuit joiner in the vertical position,
ideal for obtuse miter joints **251044**

251044

Spacer for biscuit joiner — Part no.
5 mm, aluminium for 18 mm panels .... **for Top 21 / Zeta / Classic** **253027**
2 mm, plastic for 16 mm panels .... **for Top 21 / Zeta / Classic** **253023**
4 mm, plastic for miters .... **for Top 21 / Zeta / Classic** **253026**

253026

Systainer T-Loc Size II — Part no.
Systainer II T-loc, empty **331565**
Insert with two partitions for systainer II **360016**
Insert systainer T-loc II for Zeta P2, Top21, Classic X **360014**

331565E

Carbide tipped groove cutter, Ø 100 × 4 × 22 mm — Part no.
Z2 + V4 scoring teeth, 4 screw holes, hub .... **for Zeta, Top 20, Top 21, Classic** .. **132000**
Z6 alternating teeth, without hub, with spacer .... **for Classic** **132106**
Countersunk bolts, M4 × 8, Torx **352408T**

132000

132106

Carbide tipped groove cutter, Ø 78 × 3 × 22 mm — Part no.
Z4, 4 Screw holes, with hub for biscuit H9 .... **for Zeta, Top 20, Top 21, Classic** .. **132009**

Carbide tipped groove cutter with reversible blades, Ø 100 × 4 × 22 mm — Part no.
Z2 + V2, 4 screw holes with hub .... **for Zeta, Top 20, Top 21, Classic** .. **132001**
Z4 + V4, 4 screw holes without hub, with spacer .... **for Zeta, Top 20, Top 21, Classic** .. **132130**
Set of 4 pieces .... **for Part no. 132001** **132111**
Countersunk screws .... **for Part no. 132001** **352408T**
Allen key, 4 mm long .... **for Part no. 132001** **271959L**
Set of 10 pieces main teeth .... **for Part no. 132130** **132134**
Set of 10 pieces scoring teeth .... **for Part no. 132130** **132135**
Replcement-Set, 4 scoring teeth + 4 main teeth .... **for Part no. 132130** **132133**
Screws .... **for Part no. 132130** **352130**
Torx key .... **for Part no. 132130** **352133**

132001

132130

Carbide tipped groove cutter with reversible blades, Ø 100 × 8 × 22 mm — Part no.
(Clamex S connector)
Z4 + V4, 4 screw holes .... **for Top 20, Top 21, Classic** **132108**
Set of 10 pieces scoring teeth .... **for Part no. 132108** **132137**
Set of 10 pieces main teeth .... **for Part no. 132108** **132136**
Replacement-Set, 4 scoring teeth + 4 main teeth .... **for Part no. 132108** **132114**

132108
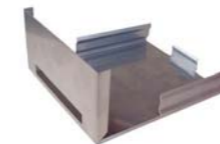
251057

Slide shoe, to protect the wall and the machine — Part no.
From year of manufacture 1999 .... **for Experta, Classic C2, C3** **251057**
Top 20, S, S2, S3, S4, Top 21, Zeta

Carbide tipped saw blades for expansion gaps, Ø 100 × 2.4 × 22 mm — Part no.
Z20, 4 screw holes, 2 spacers .... **for Zeta, Top 20, Top 21, Classic** .. **132350**

132350

Accessories for saw blades — Part no.
Spacer, 40 × 20 × 1mm with screw holes .... **for Zeta, Top 20, Top 21, Classic** .. **322510**
Flange M8 .... **for Zeta, Classic** **252502**

Clamex S drill jig 30° – 150° — Part no.
Drill jig (60 mm) incl. drill for Clamex S **125240**

Clamex S installation set — Part no.
Drill jig for 30° – 150° incl. drill and carbide tipped groove cutter **125250**
with reversible blades 8 mm (132108) .... **for Lamello biscuit joiner**

125250

Setup of the machine for cutting expansion gap

		8 mm		9 mm		10 mm		11 mm		12 mm	
Classic C2, C3, 3S Pa			-2		-1		±0		+1		+2
Top 20, S2, S3, S4, Top 21											