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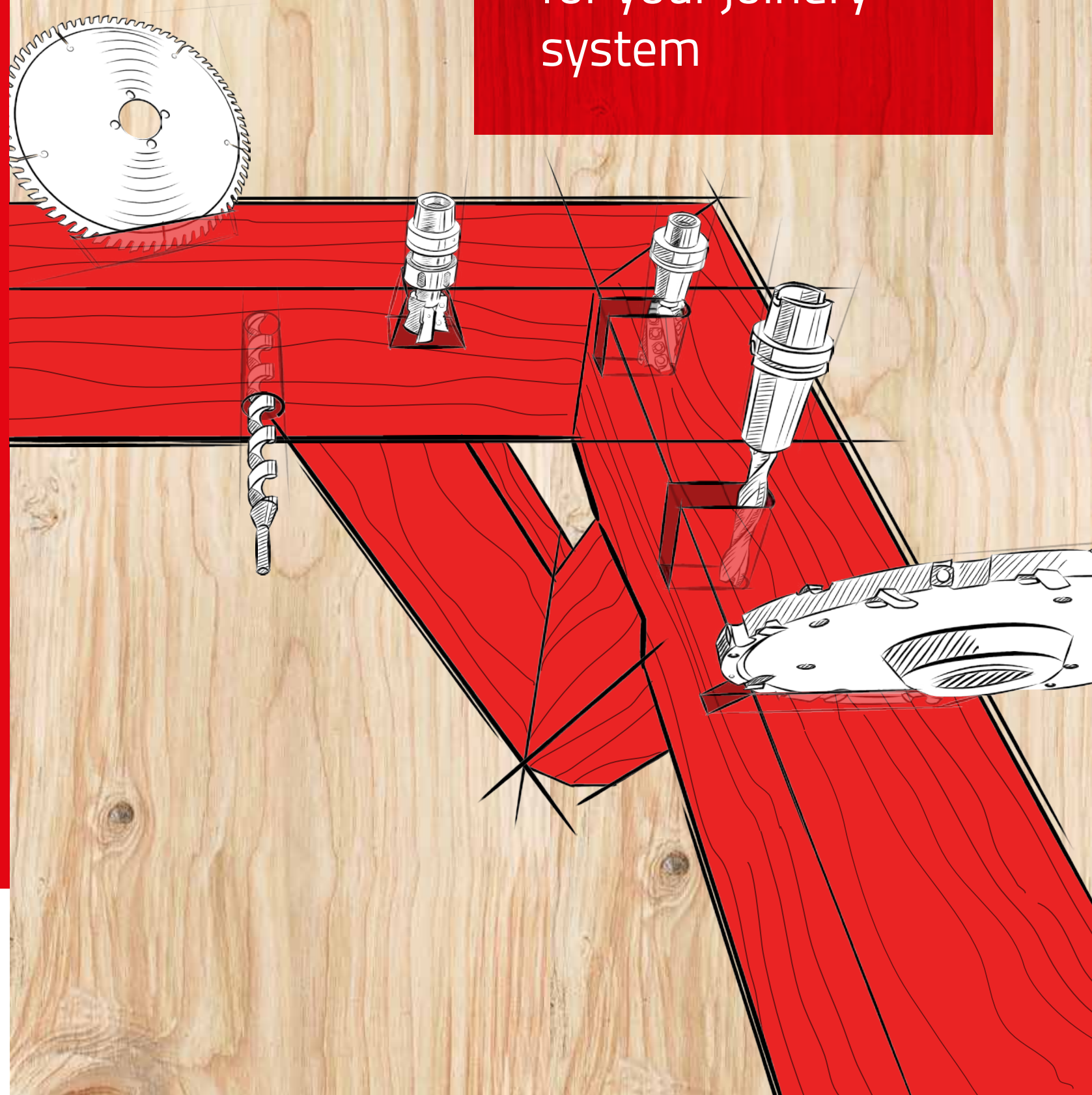
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OERTLI 
Excellence in solid wood

OERTLI 
Excellence in solid wood

Powerful Tools
for your joinery
system



Powerful - Robust – Reliable

Professional tools for timber construction

An overview of the common tools that can be successfully used on a joinery system. Your OERTLI consultant will be happy to provide you with more detailed information on recommended use depending on your requirements and application.

1 Sawing

- All common cuts
- Dimensionally accurate and precise cuts due to low-vibration saw blades
- High-quality blades for demanding use in CNC joinery systems
- Wear-resistant: longer service life and higher machine availability

2 Drilling

- Blind, clearance and inclined hole
- With centring tip, front / side cutting edges, high cutting capacity
- Single / double cutting edge

3 Milling

- Circular drill milling, grooving, rebating, joining
- Cutting materials suitable for every workpiece and application
- Profiled knives, reversible knives

OERTLI employees have the necessary know-how and many years of experience for the development of optimal tools and their use in timber construction. Our tools convince through high performance, constant quality and high economic efficiency. Short delivery times for replacement knives and sharpened tools round off the company's services. OERTLI is your optimal partner for success.



Whether carpentry or large timber construction engineering company, from standard joinery of roof trusses to serial timber house construction to complex timber constructions: this is what our customers say about the tool quality and cooperation of OERTLI:



„With the new CNC portal, we achieve maximum flexibility: solid wood elements and also classic frame construction – the tools from OERTLI are suitable for woodworking and plasterboard. And the interaction between machine supplier, tool supplier and our production management was and is exemplary.“

**Fabian Scheibling (right), Member of the board
with CNC operator Janosch Steinegger
Schindler & Scheibling AG, Uster / CH**



„With every improvement in a production step, a tool must be created that makes production easier for us, that increases quality. That's exactly what OERTLI makes possible!“

**Peter Suter Director
Hartl Haus GmbH, Eichenbach / AT**



„By using the TURBEX Sprint cutter, we achieve an almost unrivalled cutting performance. The feed rate can be up to 40% higher than with conventional cutters.“

**Michael Baur Head of Production
Holzbau Bruno Kaiser GmbH, Bernau / DE**



Milling. Drilling. Sawing.
Scan the QR code and experience our tools in action on YouTube Shorts.

CASTOR Sprint drill milling and universal cutter

On shaft



Execution

- Continuous shaft made of hardened steel with HSK interface
- Lightweight construction for minimum weight and maximum performance
- Replaceable end drill part
- Very long cutting lengths for max. machining depths
- Equipped with standard knives
- Positioning of the knives for universal use
- Optimised cutting subdivision
- Centre knife for drill milling
- From D=80 with center hole for compressed air supply through the spindle

Application

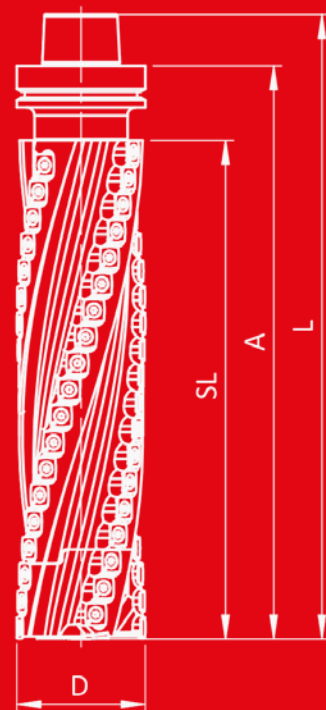
- For CNC joinery machines and portal processing machines
- For circular drilling, cutting, formatting, grooving, rebating
- Suitable for machining soft- and hardwood, laminated beams, cross laminated timber panels
- Extreme machining depths

Assortment

Art. No.	Type	D	SL	HSK	L	A	Z	DW	DR	n max	Index
TB860510	Steel/Alu	61	210	63E	285.6	253.6	Z-Basis 2+2	pos.	re.	14500	1,3,4,6,29
TB860511	Steel/Alu	61	210	80E/C	293.6	253.6	Z-Basis 2+2	pos.	re.	16000	1,3,4,6,29
TB860512	Steel/Alu	61	210	80F	285.6	253.6	Z-Basis 2+2	pos.	re.	16000	1,3,4,6,29
TB860514	Steel/Alu	61	210	100A	306.6	256.6	Z-Basis 2+2	pos.	re.	16000	1,3,4,6,29
TB860523	Steel/Alu	80	255	63E	335	303	Z-Basis 2+2	pos.	re.	16000	1,3,4,6,29
TB860524	Steel/Alu	80	255	80E/C	339	299	Z-Basis 2+2	pos.	re.	18000	1,3,4,6,29
TB860525	Steel/Alu	80	255	80F	331	299	Z-Basis 2+2	pos.	re.	18000	1,3,4,6,29
TB860527	Steel/Alu	80	255	100A	352	302	Z-Basis 2+2	pos.	re.	18000	1,3,4,6,29
TB860515	Steel/Alu	80	325	80E/C	408.5	368.5	Z-Basis 2+2	pos.	re.	18000	1,3,4,6,29
TB860516	Steel/Alu	80	325	80F	400.5	368.5	Z-Basis 2+2	pos.	re.	18000	1,3,4,6,29
TB860518	Steel/Alu	80	325	100A	421.5	371.5	Z-Basis 2+2	pos.	re.	18000	1,3,4,6,29
TB860519	Steel/Alu	100	410	80E/C	493	453	Z-Basis 2+2	pos.	re.	10000	1,3,4,6,29
TB860520	Steel/Alu	100	410	80F	485	453	Z-Basis 2+2	pos.	re.	10000	1,3,4,6,29

Spare parts

Art. No.	Detail	Term	Index
KF220017	Knife circumference / face side	13.8 x 13.8 x 2.5	1
KF216013	Knife face side	16 x 16 x 3 W11	3
TA851040	Screw for KF220017	M5 x 15.5 Torx 15	4
TA851032	Screw for KF216013	M5 x 11 Torx 15	6
TB851037	Screw for KF220017 face side	M5 x 10.5 Torx 15	29



For further information,
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CASTOR Optimo Jointing Cutter

Execution

- Lightweight construction for minimal weight and maximum performance
- SP Technology for maximum precision and balance
- Equipped with standard knives
- Optimized cutting division
- Removable cover for optimal maintenance & cleaning

Application / Benefits

- Suitable for CNC joinery systems and portal processing machines
- Optimally designed for formatting CLT panels up to a material thickness of 320mm
- Maximum performance with perfect surface quality
- Tear-free edges on both top and bottom
- No material leftover due to complete machining
- Rebating operations also possible
- Suitable for machining soft- and hardwood, laminated beams, cross laminated timber panels

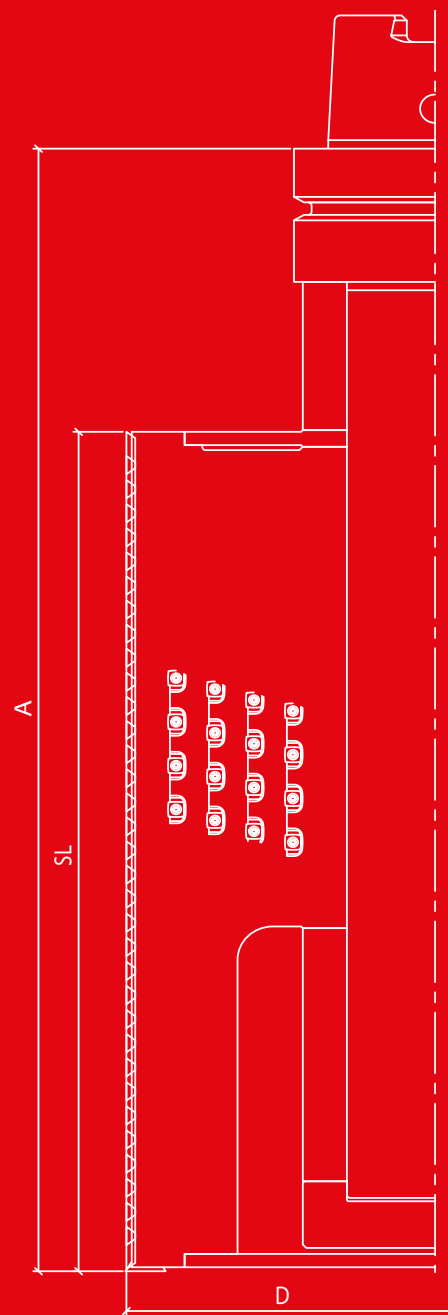
Assortment

Art. No.	Type	D	SL	HSK	A	Z	DR	n max	Compatible with	Index
TB860383	Alu	175	252	80E/C	337	Z-Basis 3+3	re.	10700	Hundegger	1,2,3

On request also available with interface HSK-80F + HSK-100A

Spare parts

Art. No.	Detail	Designation	Index
KF220017	Knife circumference / face side	13.8 x 13.8 x 2.5	1
TA851040	Screw for KF220017	M5 x 15.5 Torx 15	2
TA851060	Srew for removable cover	M6 x 13 Torx 15	3



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TURBEX drill milling cutter for Timber construction

Execution

- Solid carbide
- Cylindrical shank
- Diameter relieved behind cutting length
- Roughing tooth geometry for minimal cutting forces
- Positive upward spiral
- MEC

Application

- Exclusively for circular milling of holes
- Uniaxial drilling, grooving, rebating and joining not possible
- Max. machining depth must not be exceeded
- Min. diameter „D min.“ must not be undercut during regrinding
- Do not exceed or fall below the range „Ø-bore“
- For CNC joinery machines and portal processing machines
- Suitable for machining soft- and hardwood, laminated beams, cross laminated timber panels

Benefits

- No tear-out at entry and exit points
- No reworking necessary, even in visible areas
- Different bore diameters possible with one tool, including intermediate dimensions
- Can be resharpened

Assortment

Art. No.	D	SL	NUL	L	d1	Z	DW	DR	n max.	D min. ¹⁾	Ø-bore ²⁾
TB680140	16	30	210	260	16	3	pos.	re.	4'000	14,5	18-26
TB680141	20	25	250	300	20	3	pos.	re.	4'000	18,5	22-32
TB680142	30	60	250	320	30	3	pos.	re.	4'000	27,0	32-50

1) The diameter „D min.“ must not be undercut during regrinding.

2) Do not exceed or fall below the range „Ø-bore“.



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Corner finishing unit

Execution

- Solid construction with steel housing
- Mechanical components are designed for continuous use
- Compact design with tool outlet 45°
- Tool holder with ER32 collet chuck
- Various HSK interfaces available
- Speed ratio 1:1 (n-input = n-output)
- Torque support included to prevent twisting

Field of application

- For CNC joinery machines and portal processing machines
- For mechanical finishing of corners 90° with minimum space requirements
- Processing depths of up to 400 mm
- Suitable for processing softwood and hardwood, laminated beams, cross-laminated timber panels

Application

- EW = Entry angle into the workpiece
- R = Corner radius before finishing



Assortment

Art. No.	Designation	HSK type	EW	Max. n-Input	Max. n-Output	Max. Torque	Tool outlet	Max. Operating temp.
TB100240	Unit complete	HSK 80F	45°	12'000	12'000	20 Nm	1x ER32	85°C
TB100241	Unit complete	HSK 80E/C	45°	12'000	12'000	20 Nm	1x ER32	85°C
TB100242	Unit complete	HSK 100A	45°	12'000	12'000	20 Nm	1x ER32	85°C

Suitable corner finishing cutters

Art. No.	Designation	Detail
TB680791	Corner finishing cutter type R=40 / EW=45°	D=75 SL=63 L=150 d1=20 α=60° Z=1+1 rotation right
TB680792	Corner finishing cutter type R=40 / EW=45°	D=75 SL=63 L=150 d1=20 α=60° Z=1+1 rotation left



For further information,
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Corner finishing cutters with exchangeable knives

Execution

- Solid steel body
- Exchangeable carbide knives
- Small radius on profile knives for better stability
- For finishing corners with radius (R) 40 mm or 50 mm
- Suitable bevelling angle (alpha) for entry angle (EW) 30° or 45°
- Cylindrical shank

Field of application

- For CNC joinery machines and portal processing machines
- For mechanical finishing of corners 90°
- Suitable for processing softwood and hardwood, laminated beams, cross-laminated timber panels

Application

- EW = Entry angle into the workpiece
- alpha = Bevelling angle of the cutter
- R = Corner radius before finishing

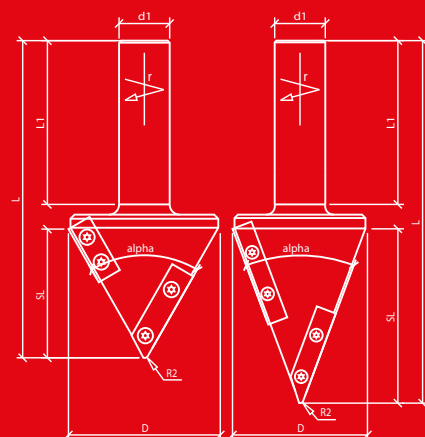


Assortment

Art. No.	Type	D	SL	L1	L	d1	Z	DR	alpha	Compatible with collet chuck	Index
TB680791	R=40 / EW=45°	75	63	80	150	20	1+1	re.	60°	ER32/ER40	1,2,8
TB680792	R=40 / EW=45°	75	63	80	150	20	1+1	li.	60°	ER32/ER40	2,7,8
TB680789	R=40 / EW=45°	75	63	80	150	25	1+1	re.	60°	ER40	1,2,8
TB680790	R=50 / EW=45°	92	78	78	165	25	1+1	re.	60°	ER40	1,3,8
TB680787	R=40 / EW=30°	80	102	150	260	30	1+1	re.	40°	ER40	4,5,8
TB680788	R=50 / EW=30°	96	123	128	260	30	1+1	re.	40°	ER40	4,6,8,9

Spare parts

Art. No.	Designation	Detail	Index
TB219114	Profile knife rotation right	HW B=47 h=12 a=1.5 R=2	1
TB219117	Knife straight	HW B=30 h=12 a=1.5	2
TB219118	Knife straight	HW B=50 h=12 a=1.5	3
TB219113	Profile knife rotation right	HW B=57 h=12 a=1.5 R=2	4
TB219115	Knife straight	HW B=60 h=12 a=1.5	5
TB219116	Knife straight	HW B=80 h=13 a=2.2	6
TB219119	Profile knife rotation left	HW B=47 h=12 a=1.5 R=2	7
TB851072	Screw	M4 L=4 Head Ø=7.5 Torx15	8
TB851073	Screw to knife TB219116	M4 L=6 Head Ø=9 Torx15	9



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Roughing and finishing cutters with reversible knives

Execution

- Solid steel body
- 4-sided reversible carbide knives arranged in a spiral around the circumference
- Reversible knives on the circumference with radius for high surface quality
- Profile knives on the tip with chip breaker grooves
- Centre cutting
- Cylindrical shank for combination with thermal/hydro chuck, reduced shank for combination with collet chuck ER40
- For rotation right or left

Application

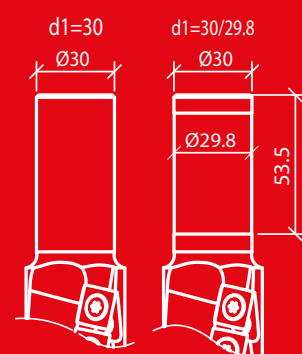
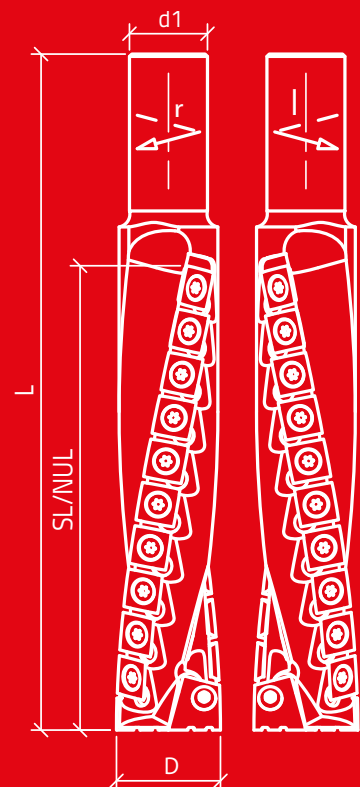
- For CNC joinery machines and portal processing machines
- For cutting out, formatting, grooving, drilling and milling with helix
- Especially for machining operations where dimensional stability is required (constant diameter and cutting length)
- Suitable for processing softwood and hardwood, glulam, cross-laminated timber panels

Assortment

Art. No.	D	SL	NUL	L	d1	Z	DW	DR	Compatible with	Index
TB680779	40	128	128	195	30	2	pos.	re.		1,2,3,4,7
TB680780	40	128	128	195	30/29.8	2	pos.	re.	Hundegger	1,2,3,4,7
TB680781	40	128	128	195	30/29.8	2	pos.	li.	Hundegger	1,2,5,6,7
TB680782	40	167	167	235	30	2	pos.	re.		1,2,3,4,7
TB680783	40	167	167	235	30/29.8	2	pos.	re.	Hundegger	1,2,3,4,7
TB680784	40	167	167	235	30/29.8	2	pos.	li.	Hundegger	1,2,5,6,7
TB680785	40	183	183	260	30	2	pos.	re.		1,2,3,4,7
TB680786	40	183	183	260	30	2	pos.	li.		1,2,5,6,7

Spare parts

Art. No.	Designation	Detail	Index
TB219108	Knife circumference	HW 15x15x2.5	1
TB851071	Screw for TB219108	M5 x 7 Torx 15	2
TB219109	Profile knife 1 rotation right	HW B=20 h=25 a=2	3
TB219110	Profile knife 2 rotation right	HW B=20 h=25 a=2	4
TB219111	Profile knife 1 rotation left	HW B=20 h=25 a=2	5
TB219112	Profile knife 2 rotation left	HW B=20 h=25 a=2	6
TA851606	Screw for profile knives	M4 x 5.9 Torx 15	7



For further information,
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Tool mounting device „easyAssembler“ & „easyAssembler Flex“

For all common HSK interfaces

Execution

- «easyAssembler» for vertical tool position
- «easyAssembler Flex» for flexible tool position, in 45° steps
- Stable basic holder
- Various quick-change inserts
- Robust clamping flange handle with ratchet
- Holes for stationary attachment

Application / benefits

- As a working assistance during tool assembly and when changing knives
- Secure fixing without damaging the tool, thanks to a friction-locked connection
- Minimises the risk of injury during tool maintenance
- Enables the application of the optimum turning / tightening torques (e.g. for collet chucks)
- Quick-change inserts for all common HSK interfaces
- Also suitable for assembly / disassembly of Preziso turbines
- Can be used stationary and mobile

Assortment

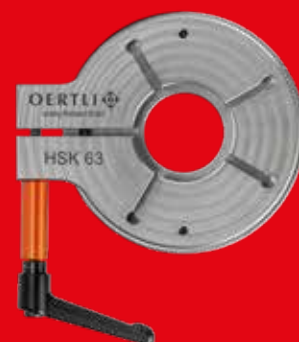
Art. No.	Type	HSK Interface
TB100540	basic holder "easyAssembler"	Compatible with all inserts
TB100541	basic holder "easyAssembler Flex"	Compatible with all inserts
TB100550	Insert	HSK 63
TB100560	Insert	HSK 80
TB100570	Insert	HSK 85
TB100580	Insert	HSK 100
TB100590	Insert	HSK 63 + Turbine
TA850052	Hexagon key	Compatible with all inserts



easyAssembler



easyAssembler Flex



Insert

For further information,
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Drills HS

Single / double spiral heel

Execution

- 2 cutting edges
- Centring tip
- Negative pre-cutter
- Single or double spiral heel
- Cylindrical shank

Application

- For drilling blind & clearance holes in solid wood and multi-layered solid wood panels
- Suitable for vertical, horizontal & inclined drilling
- Intended for combination with collet chuck

Assortment

Art. No.	Type	D	SL	L	d1	Z	DR
TB700201	Single spiral heel	5	250	315	5	2+2	re.
TB700202	Single spiral heel	6	250	315	6	2+2	re.
TB700203	Single spiral heel	7	250	315	7	2+2	re.
TB700204	Single spiral heel	8	250	315	8	2+2	re.
TB700205	Single spiral heel	9	250	315	9	2+2	re.
TB700206	Single spiral heel	10	250	315	10	2+2	re.
TB700207	Single spiral heel	11	250	315	11	2+2	re.
TB700208	Single spiral heel	5	380	460	5	2+2	re.
TB700209	Single spiral heel	6	380	460	6	2+2	re.
TB700210	Single spiral heel	7	380	460	7	2+2	re.
TB700211	Single spiral heel	8	380	460	8	2+2	re.
TB700212	Single spiral heel	9	380	460	9	2+2	re.
TB700213	Single spiral heel	10	380	460	10	2+2	re.
TB700214	Single spiral heel	11	380	460	11	2+2	re.
TB700215	Single spiral heel	12	380	460	12	2+2	re.
TB700216	Single spiral heel	13	380	460	13	2+2	re.
TB700217	Single spiral heel	14	380	460	13	2+2	re.
TB700218	Single spiral heel	15	380	460	13	2+2	re.



Single spiral heel

Double spiral heel

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Art. No.	Type	D	SL	L	d1	Z	DR
TB700221	Double spiral heel	12	270	350	12	2+2	re.
TB700222	Double spiral heel	13	270	350	13	2+2	re.
TB700223	Double spiral heel	14	270	350	13	2+2	re.
TB700224	Double spiral heel	15	270	350	13	2+2	re.
TB700225	Double spiral heel	16	270	350	13	2+2	re.
TB700226	Double spiral heel	17	270	350	13	2+2	re.
TB700227	Double spiral heel	18	270	350	13	2+2	re.
TB700228	Double spiral heel	20	270	350	20	2+2	re.
TB700229	Double spiral heel	22	270	350	20	2+2	re.
TB700230	Double spiral heel	24	270	350	20	2+2	re.
TB700231	Double spiral heel	25	270	350	20	2+2	re.
TB700232	Double spiral heel	26	270	350	20	2+2	re.
TB700233	Double spiral heel	28	270	350	20	2+2	re.
TB700234	Double spiral heel	30	270	350	30	2+2	re.
TB700235	Double spiral heel	32	270	350	30	2+2	re.
TB700236	Double spiral heel	35	270	350	30	2+2	re.
TB700237	Double spiral heel	40	270	350	30	2+2	re.
TB700238	Double spiral heel	16	380	460	13	2+2	re.
TB700239	Double spiral heel	17	380	460	13	2+2	re.
TB700240	Double spiral heel	18	380	460	13	2+2	re.
TB700241	Double spiral heel	20	380	460	20	2+2	re.
TB700242	Double spiral heel	22	380	460	20	2+2	re.
TB700243	Double spiral heel	24	380	460	20	2+2	re.
TB700244	Double spiral heel	25	380	460	20	2+2	re.
TB700245	Double spiral heel	26	380	460	20	2+2	re.
TB700246	Double spiral heel	28	380	460	20	2+2	re.
TB700247	Double spiral heel	30	380	460	30	2+2	re.
TB700248	Double spiral heel	32	380	460	30	2+2	re.
TB700249	Double spiral heel	35	380	460	30	2+2	re.
TB700250	Double spiral heel	40	380	460	30	2+2	re.



Drill with changeable head HS

Execution

- Solid steel body
- Head HS
- 2 cutting edges
- VZ-head for blind & clearance holes
- ZDF-head specifically for clearance holes
- Centering tip

Application

- Suitable for CNC joinery systems and portal processing machines
- Suitable for machining soft- and hardwood, laminated beams, cross laminated timber panels
- Suitable for vertical, horizontal & inclined drilling
- Designed for use with collet or thermal chuck

Benefits

- Heads with different diameters can be used on the same body
- Various head designs available depending on application and requirements
- Quick and easy replacement of the head
- Best availability since only the head needs regrinding, not the entire tool
- The head can be resharpened multiple times

Specification

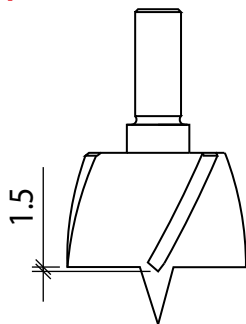
Tool always customized and available within the following dimensions:

d1	D min	D max	SL max	L max	Z	DW	DR	n max
30	37	80	510	600	2	pos.	re.	1500
40	40	80	490	600	2	pos.	re.	1500

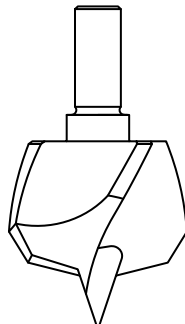
Maximum difference between body and nominal diameter = 5mm

- Example: Body diameter = 50mm, possible nominal diameters D = 50-55mm

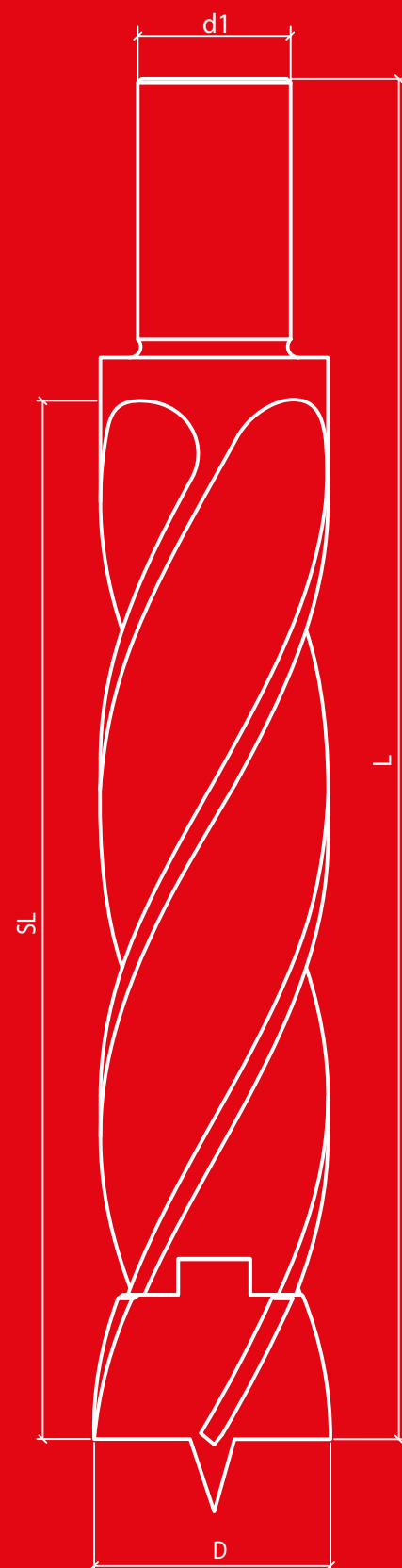
Drill tips



VZ-head for blind & clearance holes



ZDF-head for clearance holes



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