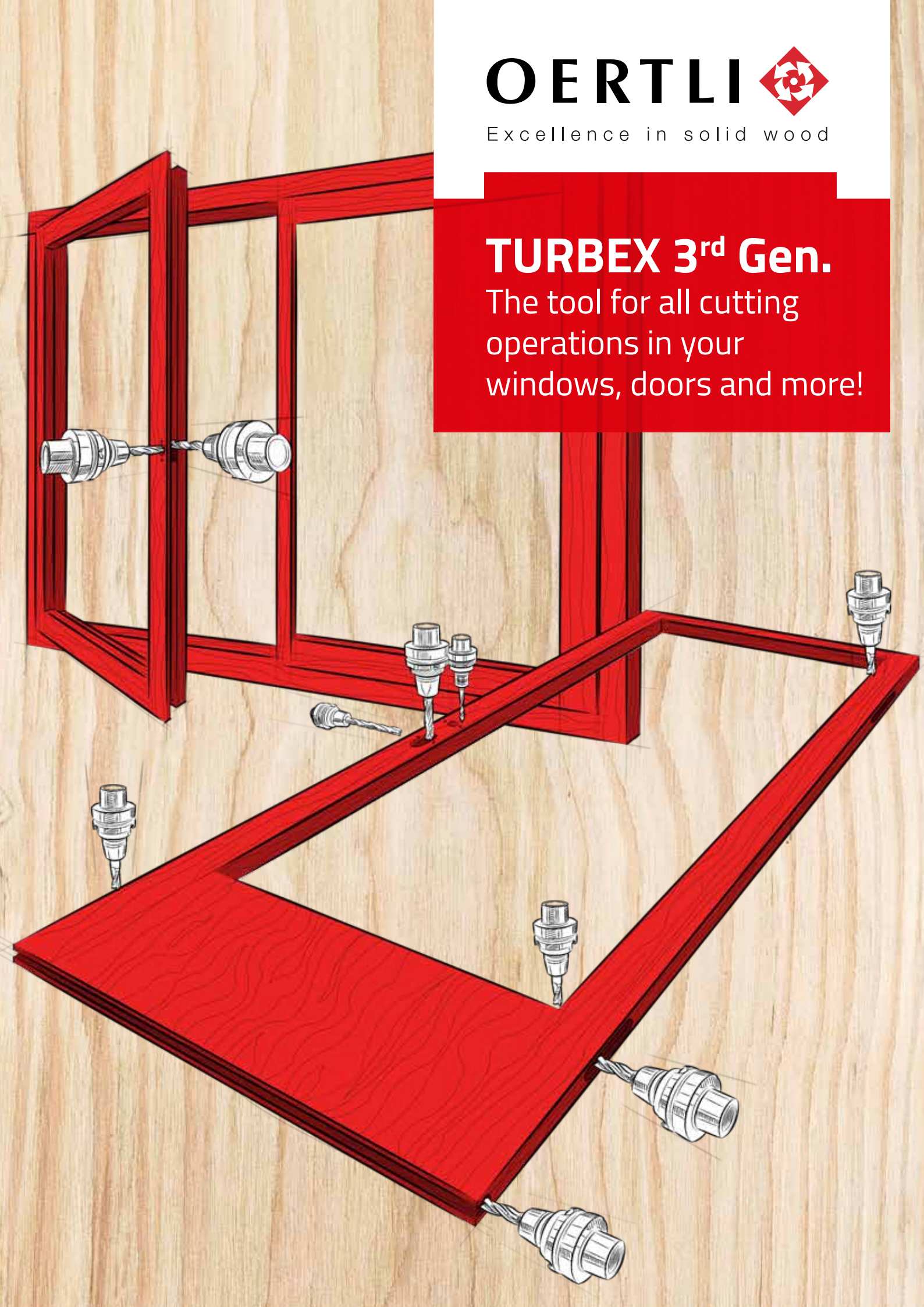
OERTLI

Excellence in solid wood

TURBEX 3rd Gen.

The tool for all cutting operations in your windows, doors and more!



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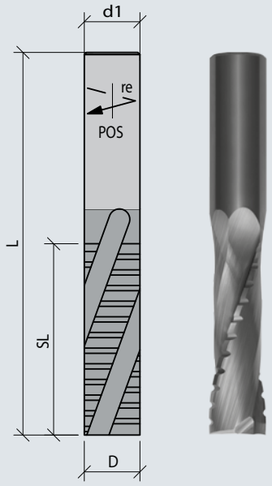
Abbreviations (Technical Drawings):

alpha	Angle	**NUL**	Usable length
D	Diameter	**R**	Radius
d1	Shank diameter	**SL**	Cutting length
DW	Spiral pitch	**Z**	Number of teeth
DR	Direction of rotation	**n max**	Max. speed
L	Length	**re.**	Clockwise
L3	Point bevel height	**li.**	Counter clockwise
MAN	Manual feed	**POS**	Positive spiral angle
MEC	Mechanical feed	**NEG**	Negative spiral angle



TURBEX Sprint spiral milling cutter BASE

Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For surfaces from rough to finish quality
- For higher feed rates than conventional roughing cutters

Materials
- Solid wood
- Chipboard and fibre materials (chipboard, MDF, HDF etc.) untreated
- Solid surface materials (Corian, Varicor etc.).
- For melamine resin and paper-coated, HPL and foil-covered, veneered wood materials
- Various plastics

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Sprint tooth geometry for reduced cutting forces
- Improved chip removal thanks to optimised flute spaces
- Ability to be used for side and end processing
- Can be resharpened
- MAN up to Diameter 12mm
- MEC from Diameter 12mm

Art. No.	D	SL	L	d1	Z	DW	DR	n max
TB682030	8	30	75	8	2	pos.	re.	30000
TB682031	10	30	75	10	2	pos.	re.	30000
TB682032	12	45	90	12	2	pos.	re.	30000
TB682033	16	55	110	16	2	pos.	re.	30000
TB682034	20	75	135	20	2	pos.	re.	30000

TURBEX Sprint spiral cutter PRO

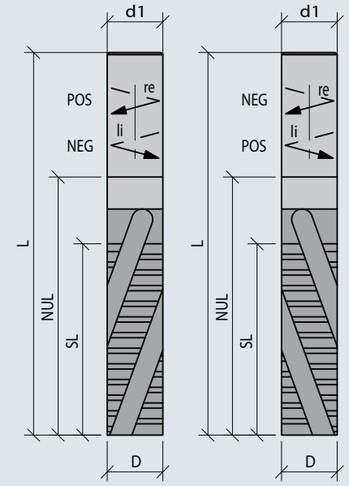
Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For surfaces from rough to finish quality
- For maximum feed rates

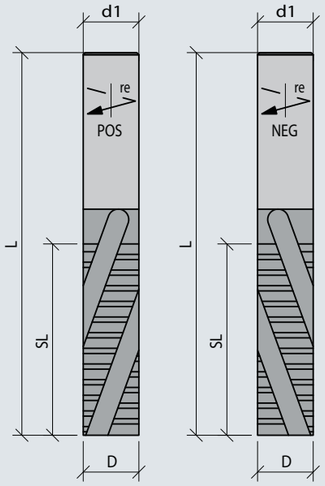
Materials
- Solid wood
- Chipboard and fibre materials (chipboard, MDF, HDF etc.) untreated
- Solid surface materials (Corian, Varicor etc.).
- For melamine resin and paper-coated, HPL and foil-covered, veneered wood materials
- Various plastics

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Sprint tooth geometry for reduced cutting forces
- Improved chip removal thanks to optimised flute spaces
- Ability to be used for side and end processing
- Can be resharpened
- MAN up to diameter 12mm
- MEC from diameter 12mm

Art. No.	D	SL	NUL	L	d1	Z	DW	DR	n max
TB682000	8	30	45	75	8	2	pos.	re.	30000
TB682001	10	30	40	75	10	2	pos.	re.	30000
TB682002	10	30	40	75	10	2	neg.	re.	30000
TB682003	10	30	40	75	10	2	neg.	li.	30000
TB682004	10	45	55	90	10	2	pos.	re.	30000
TB682005	10	40	70	110	10	2	neg.	re.	30000
TB682006	10	70	80	120	12	2	pos.	re.	30000
TB682007	11	40	50	90	12	2	pos.	re.	30000
TB682008	11	60	70	110	12	2	pos.	re.	30000
TB682009	12	35	40	80	12	3	pos.	re.	30000
TB682010	12	45	50	90	12	3	pos.	re.	30000
TB682011	12	45	50	90	12	3	neg.	re.	30000
TB682012	12	45	50	90	12	3	pos.	li.	30000
TB682013	12	60	70	110	12	3	pos.	re.	30000
TB682014	14	55	70	110	14	3	pos.	re.	30000
TB682015	16	35	45	90	16	3	pos.	re.	30000
TB682016	16	55	65	110	16	3	pos.	re.	30000
TB682017	16	55	65	110	16	3	pos.	li.	30000
TB682018	16	65	85	130	16	3	neg.	re.	30000
TB682019	16	75	85	130	16	3	pos.	re.	30000
TB682020	20	55	70	115	20	3	pos.	re.	30000
TB682021	20	55	70	115	20	3	neg.	re.	30000
TB682022	20	75	90	135	20	3	pos.	re.	30000
TB682023	20	75	90	135	20	3	neg.	re.	30000
TB682024	20	75	90	135	20	3	pos.	li.	30000
TB682025	20	95	105	150	20	3	pos.	re.	30000
TB682026	25	50	75	125	25	3	neg.	re.	24000
TB682027	25	100	115	165	25	3	pos.	re.	24000





TURBEX Sprint spiral end mill MAX

Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For surfaces from rough to finish quality
- For maximum feed rates
- With coating for increased tool Life

Materials
- Solid wood
- Chipboard and fibre materials (chipboard, MDF, HDF etc.) untreated
- Solid surface materials (Corian, Varicor etc.).
- For melamine resin and paper-coated, HPL and foil-covered, veneered wood materials
- Various plastics

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Sprint tooth geometry for reduced cutting forces
- Improved chip removal thanks to optimised flute spaces
- Ability to be used for side and end processing
- Increased amount of re-grinds
- MAN up to diameter 12mm
- MEC from diameter 12mm
- With coating for increased tool life

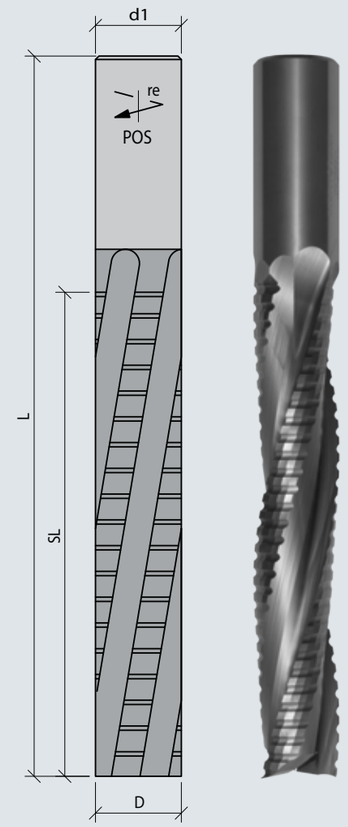
Art.No.	D	SL	L	d1	Z	DW	DR	n max
TB682040	12	45	90	12	3	pos.	re.	30000
TB682041	16	35	90	16	3	pos.	re.	30000
TB682042	16	55	110	16	3	pos.	re.	30000
TB682043	16	65	130	16	3	neg.	re.	30000
TB682044	20	55	115	20	3	pos.	re.	30000
TB682045	20	75	135	20	3	pos.	re.	30000

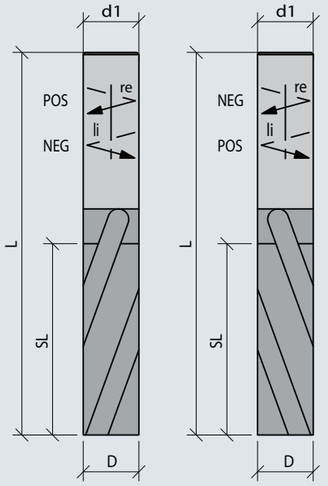
VHW spiral roughing cutter TURBEX Sprint Finish

Area of application
- Cutting out, sizing and pre-milling solid wood, wood and panel materials
- For very large cutting volumes at high feed rates

Design
- Solid carbide
- Positive upward spiral
- Face and peripheral cutting for axial drilling and plunge milling
- Long versions
- MEC

Art. No.	D	SL	L	d1	Z	DW	DR	n max
TB680125	20	125	180	20	3	pos.	re.	24000
TB680075	25	130	190	25	3	pos.	re.	24000





TURBEX MAX finishing spiral cutter

Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For maximum surface quality requirements
- Generally used after pre-machining

Materials
- Solid wood
- Chipboard and fibre materials (chipboard, MDF, HDF etc.) untreated
- Solid surface materials (Corian, Varicor etc.).
- For melamine resin and paper-coated, HPL and foil-covered, veneered wood materials
- Various plastics

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Improved chip removal thanks to optimised flute spaces
- Ability to be used for side and end processing
- Increased amount of re-grinds
- MAN up to diameter 12mm
- MEC from diameter 12mm
- Cutting allowance approx. 1-2 mm

Art. No.	D	SL	L	d1	Z	DW	DR	n max
TB682150	8	30	75	8	2	pos.	re.	30000
TB682151	8	30	75	8	2	neg.	re.	30000
TB682152	8	30	75	8	2	pos.	li.	30000
TB682153	10	30	75	10	2	pos.	re.	30000
TB682154	12	45	90	12	3	pos.	re.	30000
TB682155	16	55	110	16	3	pos.	re.	30000
TB682156	20	75	135	20	3	pos.	re.	30000

TURBEX finishing spiral cutter MAX

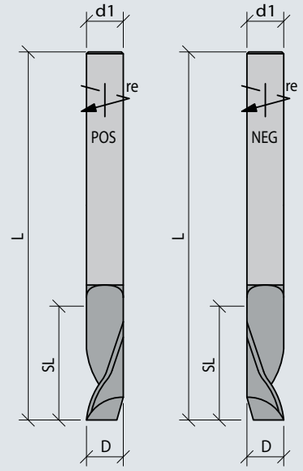
Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For maximum surface quality requirements
- For small cutting volumes at medium feed rates

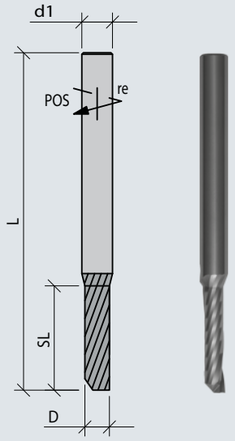
Materials
- Solid wood
- Chipboard and fibre materials (chipboard, MDF, HDF etc.) untreated
- Solid surface materials (Corian, Varicor etc.).
- For melamine resin and paper-coated, HPL and foil-covered, veneered wood materials
- Various plastics
- Aluminium

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Improved chip removal thanks to optimised flute spaces
- Ability to be used for side and end processing
- MAN

Art. No.	D	SL	L	d1	Z	DW	DR	n max
TA680159	1	5	40	3	1	pos.	re.	30000
TA680160	2	8	40	3	1	pos.	re.	30000
TA680161	3	10	40	3	1	pos.	re.	30000
TA680166	4	12	50	6	1	neg.	re.	30000
TA680162	4	14	50	4	1	pos.	re.	30000
TA680163	5	16	60	5	1	pos.	re.	30000
TA680167	6	14	50	6	1	neg.	re.	30000
TA680164	6	20	60	6	1	pos.	re.	30000
TA680168	6	14	50	6	2	pos.	re.	30000
TA680169	6	22	60	6	2	pos.	re.	30000
TA680165	8	25	75	8	1	pos.	re.	30000





TURBEX finishing spiral cutter for cutting out glazing beads

Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- Specially for separating cuts in window construction (glass moulding separation)
- For small cutting volumes at medium feed rates

Materials
- Solid wood, wood and panel materials

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Ability to be used for side and end processing
- MAN

Art. No.	D	SL	L	d1	Z	DR	DW	n max
TB682130	6	30	70	8	1	re.	pos.	30000
TB682131	6	30	90	8	1	re.	pos.	30000
TB682132	8	35	80	8	1	re.	pos.	30000
TB682133	8	35	110	10	1	re.	pos.	30000
TB682134	10	35	120	12	1	re.	pos.	30000

Finishing spiral cutter up and down

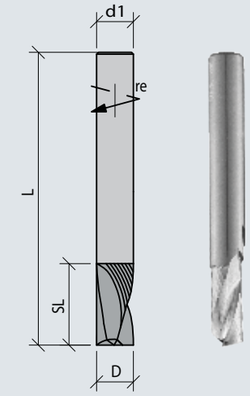
Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For maximum surface quality requirements
- For small cutting volumes at medium feed rates

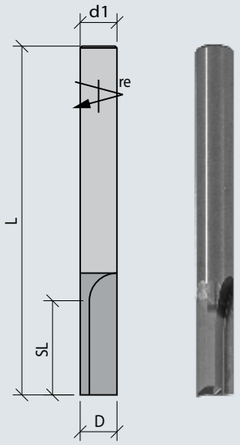
Materials
- Solid wood
- Solid surface materials (Corian, Varicor etc.).
- Various plastics
- Aluminium
- Acrylic (Plexiglas)

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Improved chip removal thanks to optimised flute spaces
- Smooth finish due to alternating axis angle
- Ability to be used for side and end processing
- MAN

Art. No.	D	SL	L	d1	Z	DW	DR	n max
TB680703	4	10	60	4	1+1	pos./neg.	re.	30000
TB680704	6	15	70	6	1+1	pos./neg.	re.	30000
TB680705	10	20	80	10	1+1	pos./neg.	re.	30000
TB680706	12	30	85	12	1+1	pos./neg.	re.	30000





TURBEX PRO finishing cutter

Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For maximum surface quality requirements
- For small cutting volumes at medium feed rates

Materials
- Solid wood, wood and panel materials

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Cutting parallel to the axis
- Ability to be used for side and end processing
- MAN

Art. No.	D	SL	L	d1	Z	DW	DR	n max
TA673030	4	13	60	4	2	0	re.	30000
TA673031	5	13	60	5	2	0	re.	30000
TA673032	6	16	60	6	2	0	re.	30000
TA673033	8	25	75	8	2	0	re.	30000
TA673034	10	25	75	10	2	0	re.	30000

TURBEX Sprint spiral milling cutter MAX lock case

Application
- For grooving, sizing, cutting
- Suitable for sweeping, ramping, plunging
- For lock case and faceplate milling

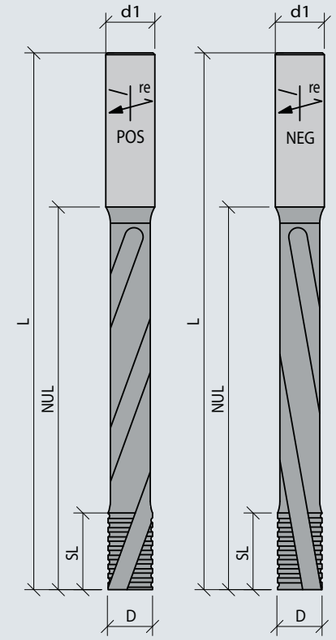
Materials
- Solid wood
- Chipboard and fibre materials (chipboard, MDF, HDF etc.) untreated
- For melamine resin and paper-coated, HPL and foil-covered, veneered wood materials

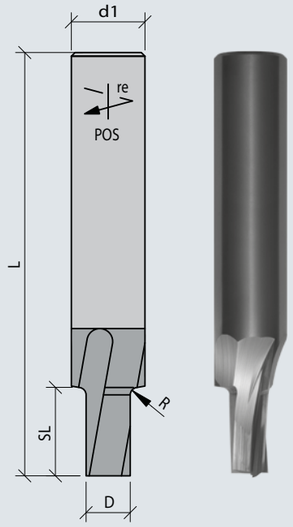
Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Sprint tooth geometry for reduced cutting forces
- Improved chip removal thanks to optimised flute spaces
- Ability to be used for side and end processing
- Increased amount of re-grinds
- Version with negative spiral angle for maximum stability
- MEC

Art. No.	D	SL	NUL	L	d1	Z	DW	DR	n max
TB682100	12	25	115	155	12	3	pos.	re.	24000
TB682101	14,5	25	105	150	16	3	pos.	re.	24000
TB682102	14,5	25	105	150	16	3	neg.	re.	24000
TB682103	14,5	25	125	175	16	3	pos.	re.	24000
TB682104*	14,5	25	125	175	16	3	pos.	re.	24000
TB682105	14,5	25	125	175	16	3	neg.	re.	24000
TB682106	14,5	25	140	190	16	3	pos.	re.	24000
TB682107	14,5	25	140	190	16	3	neg.	re.	24000
TB682108	16	25	105	150	16	3	pos.	re.	24000
TB682109	16	25	105	150	16	3	neg.	re.	24000
TB682110	16	25	125	175	16	3	pos.	re.	24000
TB682111	16	25	125	175	16	3	neg.	re.	24000

* with clamping surface for Homag and Weeke milling unit





TURBEX profile spiral milling cutter alternating rebate

Application
- For repositioning with alternating rebate milling in window construction

Materials
- Solid wood, wood and panel materials

Machine
- Router machines with/without CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Spiral angle pos. for better surfaces and tool life
- Ability to be used for side and end processing
- MEC

Art. No.	D	R	SL	L	d1	Z	DW	DR	n max
TB682140	12	2	16,5	115	20	3	pos.	re.	30000
TB682141	12	2,5	16,5	115	20	3	pos.	re.	30000
TB682142	12	1,5	24	115	20	3	pos.	re.	30000
TB682143	12	2	24	115	20	3	pos.	re.	30000
TB682144	12	1,5	30	115	20	3	pos.	re.	30000
TB682145	12	2	30	115	20	3	pos.	re.	30000

TURBEX through hole boring tool

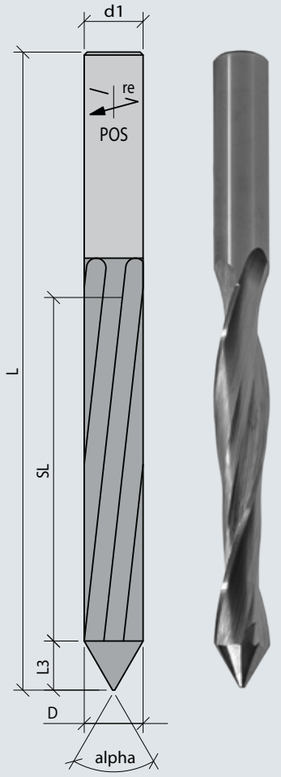
Application
- For drilling and circular milling of spy holes
- Suitable for drilling
- 1st processing step: complete drilling through the workpiece
- 2nd processing step: Formatting the to nominal dimensions

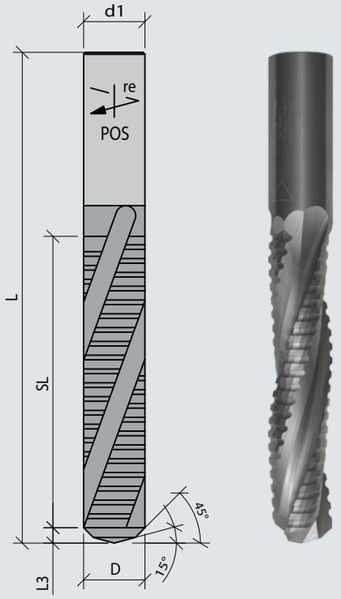
Materials
- Solid wood, wood and panel materials

Machine
- Router machines with CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Sprint tooth geometry for reduced cutting forces
- 60° drill point
- Positive upward spiral
- MEC

Art.No.	D	alpha	SL	L3	L	d1	Z	DW	DR	n max
TA680019	12	60°	70	10	130	12	2	pos.	re.	30000





TURBEX through hole boring tool

Application
- For circular milling of handle holes
- For milling out lock cylinders
- For milling light cut-outs

Materials
- Solid wood, wood and panel materials

Machine
- Router machines with CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Sprint tooth geometry for reduced cutting forces
- Flat drill point for circular milling
- Positive upward spiral
- MEC

Art.No.	D	SL	L3	L	d1	Z	DR	DW	n max
TB680121	12	70	2	120	12	3	re.	pos.	30000
TB680122	16	80	4	140	16	3	re.	pos.	30000
TB680111	20	95	5	160	20	3	re.	pos.	30000

TURBEX through hole boring tool MAX

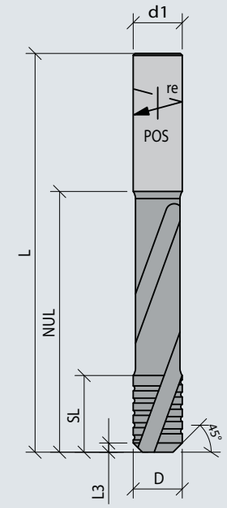
Application
- For circular milling of spy holes
- For circular milling of handle holes
- For milling out lock cylinders
- For milling light cut-outs
- For large cutting volumes at maximum feed speed

Materials
- Solid wood
- Chipboard and fibre materials (chipboard, MDF, HDF etc.) untreated
- For melamine resin and paper-coated, HPL and foil-covered, veneered wood materials

Machine
- Router machines with CNC control
- Machining centres
- Special milling machines with milling spindles for holding shank tools

Technical information
- Solid carbide
- Sprint tooth geometry for reduced cutting forces
- Flat drill point for circular milling
- Positive upward spiral
- MEC

Art. No.	D	SL	NUL	L3	L	d1	Z	DW	DR	n max
TB680112	7,5	15	75	1	110	8	2	pos.	re.	24000
TB680113	10	20	75	1	110	10	2	pos.	re.	24000
TB680114	12	25	75	1	120	12	3	pos.	re.	24000
TB680115	12	25	95	1	140	12	3	pos.	re.	24000
TB680116	14	25	75	3	120	14	3	pos.	re.	24000
TB680117	14	25	95	3	140	14	3	pos.	re.	24000
TB680118	16	25	85	3	130	16	3	pos.	re.	24000
TB680119	16	25	105	3	150	16	3	pos.	re.	24000



OERTLI

Notes:

OERTLI Werkzeuge AG
CH-8181 Höri
T +41 44 863 75 11
info@oertli.ch

OERTLI Gereedschappenfabriek bv
NL-4902 TT Oosterhout
T +31 162 51 48 80
oertli@oertli.nl

OERTLI Werkzeuge GmbH
A-6800 Feldkirch
T +43 5522 75 78 70
info@oertli.at

OERTLI Werkzeug- und Maschinenhandels-GmbH
D-73486 Adelmannsfelden
T +49 7963 84 19 00
info@oertli-werkzeuge.de

OERTLI Magyarország KFT
H-8900 Zalaegerszeg
T +36 92 334 081
info@oertlikft.hu

OERTLI Tooling UK Ltd
LE19 4SA Leicester
T +44 116 286 34 09
info@oertli.co.uk

OERTLI France
F-21000 Dijon
T +33 3 80 55 16 62
info@oertli-outils.fr

www.oertli.com

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