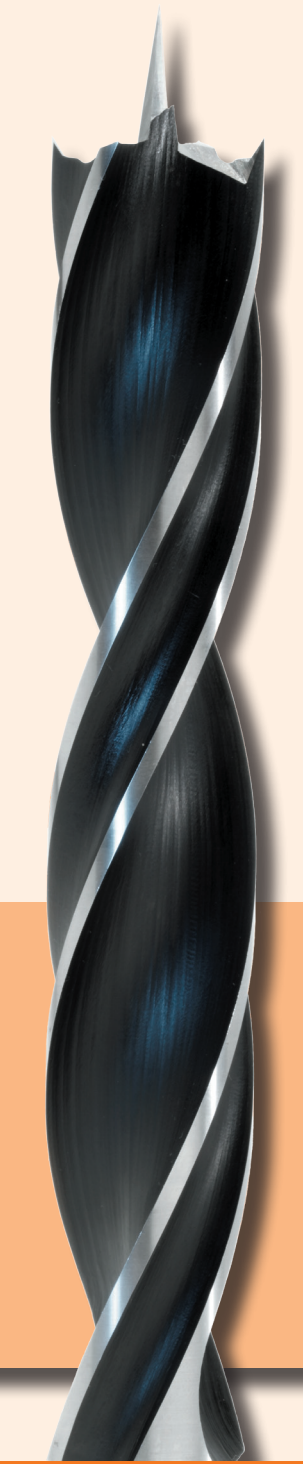
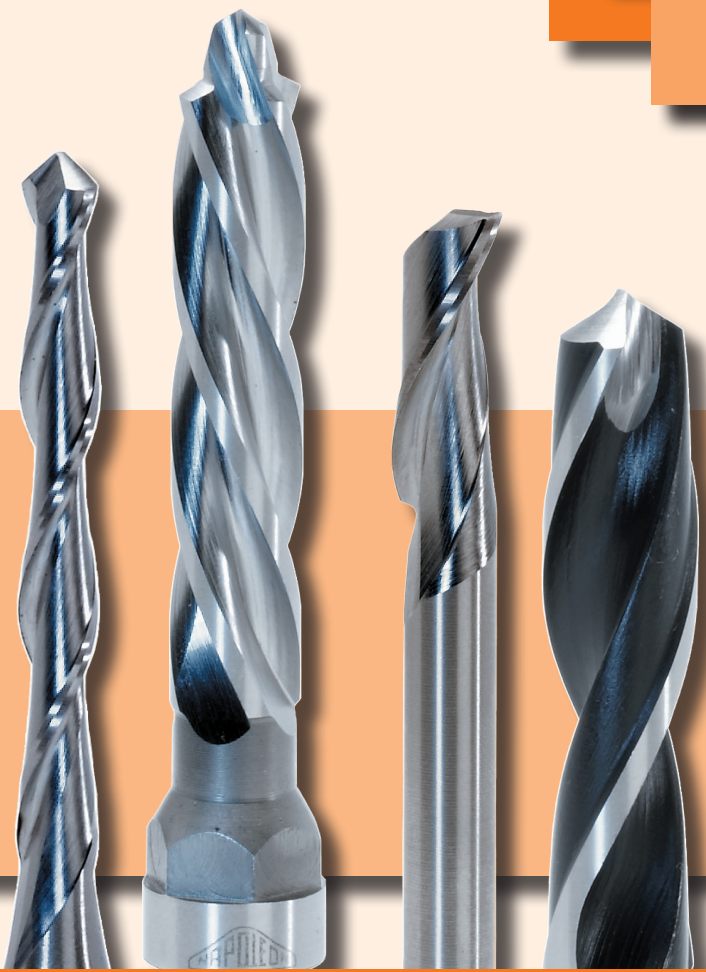
NAPOLEON®
WERKZEUGE

REESE + FISCHER GmbH + Co. KG

Catalogue



Shank-mounted tools for machining
wood, UPVC and aluminium



HF

info@napoleon-werkzeuge.de • www.napoleon-werkzeuge.de

ABOUT US

Everything started in 1961…

…first as a contract turning shop in the parental home in Oberkochen,
founded by Reinhold and Karl Fischer, master mechanical engineer and master turner,
and then gradually growing so as to offer its own production for the manufacture of
shank-mounted tools for machining wood and UVPC.

In order to meet the increased need for space,
the business moved to the newly constructed company building in Aalen-Niesitz in 1971.

For more than 40 years now,
precision tools for professional trade and industrial applications
have been manufactured here under the registered brand name

NAPOLEON WERKZEUGE

and sold mainly in Germany,
neighbouring countries, and also worldwide.

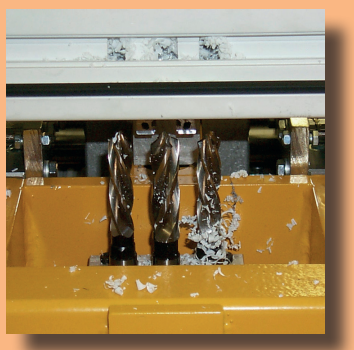
The use of machinery and machinery elements
and the processing of highly diverse types of woods and materials
that have little to do with the original wood material
require the tool to be of the highest quality and to be constantly enhanced,
customised for demanding applications.

Needless to say, our tools meet the requirements of the
trade association and the standards of national and European associations.

The name NAPOLEON is well known, and
as our valued customers always assure us,
stands for quality and dependability.

We continue to adhere to the principle:
We don't seek to be one of the largest but would like to be one of the best
in terms of quality and commitment.

REESE + FISCHER GmbH + Co. KG
NAPOLEON-Werkzeuge



Woodworking

ADAPTOR
ARBOR
BEVEL CUTTER
CLASSIC COVE CUTTER
COLLET CHUCK
CORE BOX CUTTER
COUNTERSINK
CYLINDER BORING BIT
DOVETAIL CUTTER
DOWEL DRILL
ENGRAVING CUTTER
EXTENSION
FORSTNER BORING BIT
GROOVING CUTTER
GROOVING SAW
HANDLE DRILL
HINGE BORING BIT
LOCKSET CUTTER
LOOSE COUNTERSINK
OVOLO CUTTER
PLUG CUTTER
REBATING CUTTER
ROUNDING OVER CUTTER
ROUTER CUTTER
SLOT MORTISE BIT
SQUARE TRIMMING CUTTER
STEPPED CUTTER
STEPPED DRILL
STOCKADE DRILL
THREAD REDUCTION
TWIST DRILL

Window Manufacturing

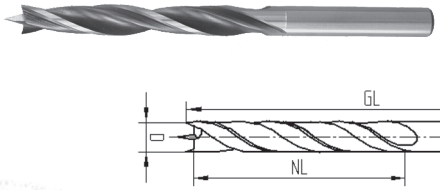
GROOVING CUTTER
HANDLE DRILL
LOCKSET CUTTER
MILLING CUTTER
ROUGHING CUTTER
SINGLE FLUTE CUTTER
STEPPED CUTTER
STEPPED DRILL
TWIST DRILL
WATER SLOT CUTTER

General

NAPOLEON WERKZEUGE

*	available while quantities last
€	price in Euro
α	angle / degree
AB	guide pin
AG	external thread
AL	adjusting length
AR	guide ring
AZ	guide pin
B	width
d	diameter / bore
D	diameter
DF	V-point
E	length adjusting screw
GL	overall length
HS	high speed steel
HSE	high speed steel (cobalt alloyed)
IG	internal thread
K	cone
KL	ball bearing
L	length
LD	left winding
li	left-hand rotation
LL	left-hand rotation
M	metric thread
MAN	manual feed • Manual feed means holding and operating work pieces and tools by hand, as well as using a manual feeding device or a manually operated sliding carriage.
MEC	mechanical feed • Mechanical feed describes a feed mechanism for the work piece or tool that is integrated into the machine, and the work piece or machine element with tool is thus held and operated mechanically during processing.
MK	morse taper
n	revolution per minute
NB	ream
NE	nonferrous
NL	drilling length
P	register
pc	piece
r	radius
RD	right winding
re	right-hand rotation
RL	right-hand rotation
S	shank diameter
SFI	driving flat
SL	length of shank
SP	alloyed tool steel
STC	solid tungsten carbide
SW	spanner size
TC	tungsten carbide
TCT	tungsten carbide tip
TS	unalloyed tool steel
U	revolutions
V	spur
VB	front drill
VE	packing unit
W	serrated grinding
WP	reversing plate
Z	number of teeth
Zsp.	centre point
zyl.	cylindric

203 TWIST DRILL

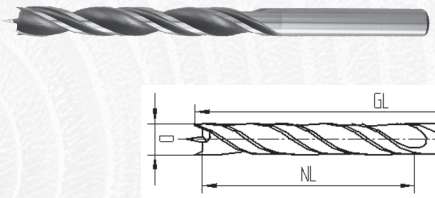


two cutting edges • centre point and spurs • right-hand or left-hand rotation • common shank and drilling diameter

for drilling blind holes and through holes in softwood and hardwood on portable boring machines, etc.

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	3	33	58	3	203.030.000.HS.L	203.030.000.HS.R
	3,5	39	67	3,5	203.035.000.HS.L	203.035.000.HS.R
	4	43	72	4	203.040.000.HS.L	203.040.000.HS.R
	4,5	47	77	4,5	203.045.000.HS.L	203.045.000.HS.R
	5	52	83	5	203.050.000.HS.L	203.050.000.HS.R
	5,5	57	90	5,5	203.055.000.HS.L	203.055.000.HS.R
	6	57	90	6	203.060.000.HS.L	203.060.000.HS.R
	6,5	63	98	6,5	-	203.065.000.HS.R
	7	69	105	7	203.070.000.HS.L	203.070.000.HS.R
	7,5	69	105	7,5	203.075.000.HS.L	203.075.000.HS.R
	8	75	113	8	203.080.000.HS.L	203.080.000.HS.R
	8,5	75	113	8,5	-	203.085.000.HS.R
	9	81	120	9	-	203.090.000.HS.R
	10	87	130	10	-	203.100.000.HS.R

205 TWIST DRILL



two cutting edges • centre point and spurs • right-hand rotation • common shank and drilling diameter

for drilling blind holes and through holes on portable boring machines, etc.

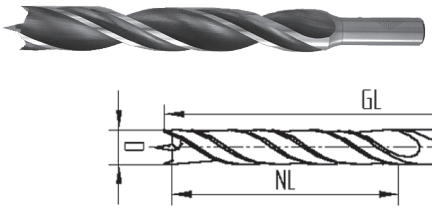
for softwood

TS	D	NL	GL	S	Part number right-hand rotation
	7	70	110	7	205.070.000.SP.R
	9	80	130	9	205.090.000.SP.R
	12	100	155	12	205.120.000.SP.R

for softwood and hardwood • landed flute • particularly suited for precise holes

HS	D	NL	GL	S	Part number right-hand rotation
	5,5	60	95	5,5	205.055.000.HS.R
	6	65	100	6	205.060.000.HS.R
	6,5	70	105	6,5	205.065.000.HS.R
	7	70	110	7	205.070.000.HS.R
	7,5	75	115	7,5	205.075.000.HS.R
	8	75	120	8	205.080.000.HS.R
	9	80	130	9	205.090.000.HS.R
	10	90	140	10	205.100.000.HS.R
	11	95	150	11	205.110.000.HS.R
	12	100	155	12	205.120.000.HS.R

210 TWIST DRILL



two cutting edges • centre point and spurs •
right-hand rotation • stepped parallel shank 10x30 mm

for use on portable boring machines, etc.

for softwood

TS

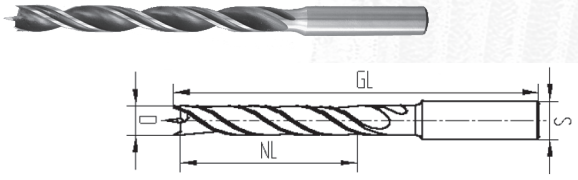
D	NL	GL	S	Part number right-hand rotation
11	100	140	10x30	210.110.000.SP.R
12	100	140	10x30	210.120.000.SP.R
16	100	140	10x30	210.160.000.SP.R*
18	100	140	10x30	210.180.000.SP.R

for softwood and hardwood • landed flute • particularly suited for precise holes

HS

D	NL	GL	S	Part number right-hand rotation
11	100	140	10x30	210.110.000.HS.R
12	100	140	10x30	210.120.000.HS.R
13	100	140	10x30	210.130.000.HS.R
14	100	140	10x30	210.140.000.HS.R
15	100	140	10x30	210.150.000.HS.R
16	100	140	10x30	210.160.000.HS.R
18	100	140	10x30	210.180.000.HS.R
20	100	140	10x30	210.200.000.HS.R

213 TWIST DRILL



two cutting edges • centre point and spurs •
right-hand or left-hand rotation • stepped parallel shank

for use on portable and upright boring machines, etc.

for softwood

TS

D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
7	80	145	13x50	213.070.000.SP.L	213.070.000.SP.R
8	85	150	13x50	213.080.000.SP.L	-
10	95	160	13x50	-	213.100.000.SP.R
12	105	170	13x50	-	213.120.000.SP.R
14	115	180	13x50	213.140.000.SP.L	213.140.000.SP.R
15	120	185	13x50	213.150.000.SP.L	-
16	125	190	16x50	-	213.160.000.SP.R
18	130	200	16x50	213.180.000.SP.L	213.180.000.SP.R
20	140	210	16x50	-	213.200.000.SP.R

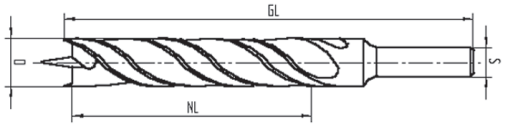
for softwood and hardwood • landed flute • particularly suited for precise holes

HS

D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
6	75	140	13x50	-	213.060.000.HS.R
8	85	150	13x50	-	213.080.000.HS.R
10	95	160	13x50	-	213.100.000.HS.R
11	100	165	13x50	-	213.110.000.HS.R
12	105	170	13x50	-	213.120.000.HS.R
13	110	175	13x50	213.130.000.HS.L	213.130.000.HS.R
14	115	180	13x50	-	213.140.000.HS.R
15	120	185	13x50	-	213.150.000.HS.R
16	125	190	16x50	-	213.160.000.HS.R
18	130	200	16x50	-	213.180.000.HS.R
20	45	110	13x50	-	213.200.450.HS.R
20	140	210	16x50	-	213.200.000.HS.R
22	150	220	16x50	-	213.220.000.HS.R
24	160	235	16x50	-	213.240.000.HS.R
25	170	250	20x50	-	213.250.000.HS.R
26	170	250	20x50	-	213.260.000.HS.R
28	180	260	20x50	-	213.280.000.HS.R
30	190	270	20x50	-	213.300.000.HS.R

* deliverable while stocks last

215 STOCKADE DRILL



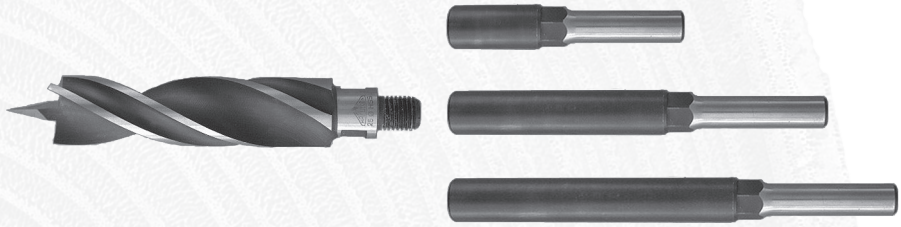
two cutting edges • extra long centre point and spurs •
landed flute • right-hand rotation •
stepped parallel shank 13x50 mm

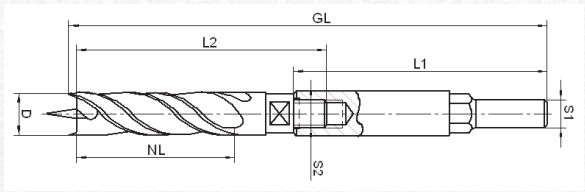
especially suited for precise inclined drilling (stockade holes)
in softwood and hardwood in stair production, etc.
on drilling attachments for stockade holes
e. g. Bohrfix • Bohrluchs

other dimensions available at short notice

HS	D	NL	GL	S	Part number right-hand rotation	
	10	95	160	13x50	215.100.130.HS.R	
	12	105	170	13x50	215.120.130.HS.R	
	13	110	175	13x50	215.130.130.HS.R	
	14	115	180	13x50	215.140.130.HS.R	
	15	120	185	13x50	215.150.130.HS.R	
	16	125	190	13x50	215.160.130.HS.R	
	18	130	200	13x50	215.180.130.HS.R	
	20	140	210	13x50	215.200.130.HS.R	
	22	150	220	13x50	215.220.130.HS.R	
	24	160	235	13x50	215.240.130.HS.R	
	25	170	250	13x50	215.250.130.HS.R	
	26	170	250	13x50	215.260.130.HS.R	
	28	170	250	13x50	215.280.130.HS.R	
	30	170	250	13x50	215.300.130.HS.R	

218 STOCKADE DRILL





The practical alternative:
two-parts • available in three different lengths

stockade drill •
extra long centre point and spurs •
landed flute • right-hand rotation
+ extension in requested length •
stepped parallel shank 13 mm

especially suited for precise inclined drilling (stockade holes)
in softwood and hardwood in stair production, etc.
on drilling attachments for stockade holes
e. g. Bohrfix • Bohrluchs

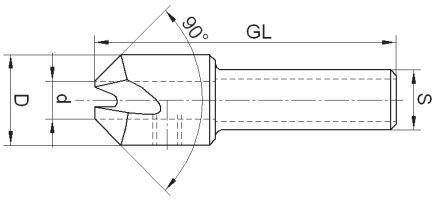
stockade drill

HS	D	NL	L2	S2	Part number right-hand rotation	
	20	100	125	AG M12	218.200.100.HS.R	
	25	100	125	AG M12	218.250.100.HS.R	
	30	100	125	AG M12	218.300.100.HS.R	

useable only in combination with an extension as follows • extensions with driving flat are available optionally without extra charge

	L1	for GL	S1	Part number right-hand rotation	
	70	180	13x40	218.000.070.SM.R	
	160	270	13x50	218.000.160.SM.R	
	190	300	13x50	218.000.190.SM.R	

250 COUNTERSINK



two cutting edges • countersink angle 90° •
right-hand rotation • bore and crampling screw •
stepped parallel shank

for counter sinking of holes

for mounting on twist drills
e. g. like article 200 • 203 • 205

further dimensions on inquiry

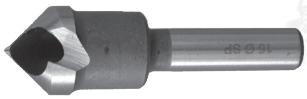
for softwood

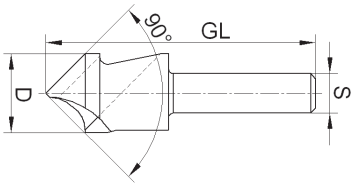
TS	d	D	GL	S	Part number right-hand rotation	
	2,5	15	58	10x30	250.025.000.SP.R	
	3,5	15	58	10x30	250.035.000.SP.R	
	4	15	58	10x30	250.040.000.SP.R	
	5	15	58	10x30	250.050.000.SP.R	
	5,5	15	58	10x30	250.055.000.SP.R	
	7	15	58	10x30	250.070.000.SP.R	

for softwood and hardwood

HS	d	D	GL	S	Part number right-hand rotation	
	4	15	58	10x30	250.040.000.HS.R	
	5	15	58	10x30	250.050.000.HS.R	
	6	15	58	10x30	250.060.000.HS.R	
	10	20	58	13x30	250.100.000.HS.R	

260 COUNTERSINK





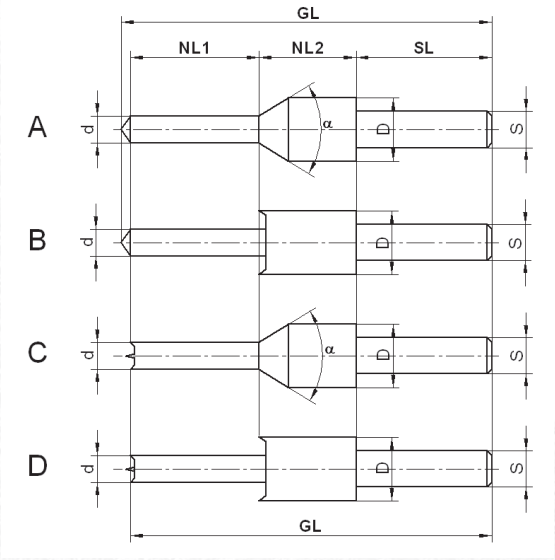
one cutting edge • countersink angle 90° •
right-hand rotation • traverse hole • stepped parallel shank

for later counter sinking of holes in softwood

TS	D	GL	S	Part number right-hand rotation	
	16	55	8x30	260.160.000.SP.R	

* deliverable while stocks last

HS • two- or multi-stage • one- or two-part



The drills are custom-made,
in case of enquiry • order please inform about:

• requested version
- A Front drill with V-point • ream 90°
- B Front drill with V-point • ream 180°
- C Front drill with centre point and spurs • ream 90°
- D Front drill with centre point and spurs • ream 180°

• Diameter and length of front drill (d x NL1)

• Diameter and length of ream (D x NL2)

• Version of shank (S)
- cylindrical
- with driving flat
- with internal or external thread

• Length of shank (SL)

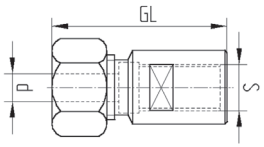
• Total length (GL)

• Direction (right-hand or left-hand rotation)

• requested quantity

Further Stepped drills please find on page 42.

315-6 COLLET CHUCK



threepart • right-hand rotation

consisting of:
holding fixture with shank internal thread M10
collet
nut

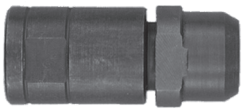
for e. g. Scheer

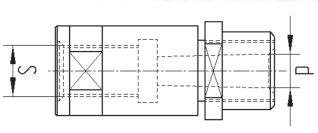
	complete	d	GL	S	Part number right-hand rotation	
	for shank 6	6	39	IG M10	315-6.060.000.SM.R	

Component parts

	Denotation	d	Part number component parts	
	Collet	6	315-0.000.060.SM.0	

7315-6 PRECISION COLLET CHUCK





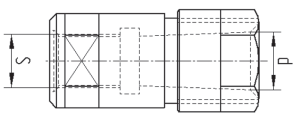
threepart • right-hand rotation

consisting of:
holding fixture with shank internal thread M10
collet
nut

for e. g. Scheer

	complete	d	S	Part number right-hand rotation	
	for shank 6	6	IG M10	7315-6.060.000.SM.R*	

7316-6 PRECISION COLLET CHUCK



threepart • robust design • right-hand rotation

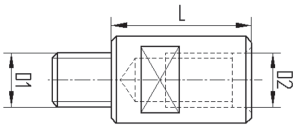
consisting of:
holding fixture with shank internal thread M10
collet
nut

for e. g. Scheer

	complete	d	S	Part number right-hand rotation	
	for shank 6	6	IG M10	7316-6.060.000.SM.R*	
	for shank 6,35	6,35	IG M10	7316-6.063.000.SM.R*	
	for shank 8	8	IG M10	7316-6.080.000.SM.R*	
	for shank 10	10	IG M10	7316-6.100.000.SM.R*	
	for shank 12	12	IG M10	7316-6.120.000.SM.R*	

* deliverable while stocks last

318-6 EXTENSION

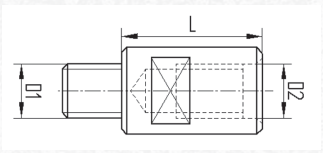


to extend dowel drills with threaded shank M10 • right-hand or left-hand rotation

for e. g. Ayen • Mayer • Scheer

	D1	D2	L	Part number left-hand rotation	Part number right-hand rotation	
	AG M10	IG M10	18	318-6.180.000.SM.L	318-6.180.000.SM.R	
	AG M10	IG M10	20	-	318-6.200.000.SM.R	
	AG M10	IG M10	25	-	318-6.250.000.SM.R	
	AG M10	IG M10	35	-	318-6.350.000.SM.R	

318-9 EXTENSION



to extend dowel drills with threaded shank M12x1 • right-hand rotation

for e. g. Elu

	D1	D2	L	Part number right-hand rotation	
	AG M12x1	IG M12x1	18	318-9.180.000.SM.R	
	AG M12x1	IG M12x1	25	318-9.250.000.SM.R	
	AG M12x1	IG M12x1	35	318-9.350.000.SM.R	
	AG M12x1	IG M12x1	40	318-9.400.000.SM.R	

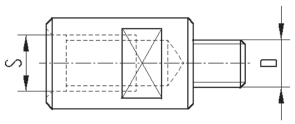
THREAD REDUCTION

Rechtsgang

for e. g. Elu (DeWalt) • Haffner • Holzma • Scheer

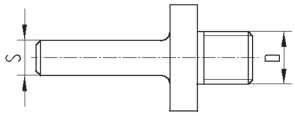
further reductions on inquiry

from internal thread to external thread



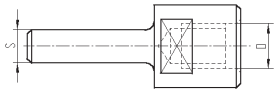
from S	to D	from / to	Part number right-hand rotation	
IG M10	AG M12x1	Scheer / Elu	321.000.000.SM.R	
IG M12x1	AG M10	Elu / Scheer	320.000.000.SM.R	

from cylindrical to external thread



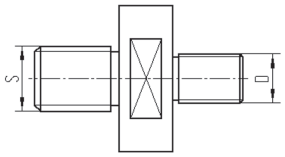
from S	to D	from / to	Part number right-hand rotation	
8x25 zyl.	AG M10	Elu / Scheer	323.080.000.SM.R	
10x30 zyl.	AG M12x1	Haffner / Elu	322.100.000.SM.R	
12x35 zyl.	AG M10	Elu / Scheer	323.120.000.SM.R	
12x50 zyl.	AG M12x1	Elu / Elu	326.000.000.SM.R	

from cylindrical to internal thread



from S	to D	from / to	Part number right-hand rotation	
8x25 zyl.	IG M10	Elu / Scheer	321.000.080.SM.R	

from external thread to external thread



from S	to D	from / to	Part number right-hand rotation	
AG M16x1,5	AG M10	Scheer / Scheer	324.000.000.SM.R	

ADAPTOR

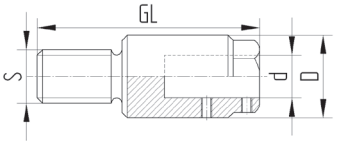
inner diameter 10 mm • outer diameter 19 mm •
right-hand or left-hand rotation • two crampling screws

for use with dowel drills and cylinder boring bits with shank 10 mm

inner diameter 8 mm on inquiry

shank external thread M10 • for e. g. Ayen • Holzma • Knoevenagel • Mayer • Torwegge

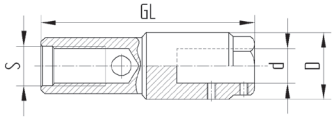
310-2



GL	Part number left-hand rotation	Part number right-hand rotation	
40	310-2.100.000.SM.L	310-2.100.000.SM.R	

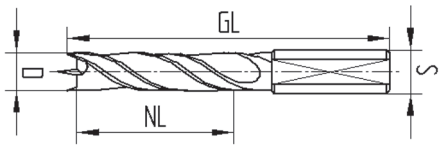
shank internal thread M10 • for e. g. Häfele • Scheer

310-6



GL	Part number left-hand rotation	Part number right-hand rotation	
46	310-6.100.000.SM.L	310-6.100.000.SM.R	

* deliverable while stocks last



two cutting edges • centre point and spurs •
landed flute • right-hand or left-hand rotation •
shank 10 mm with driving flat • no length adjusting screw

particularly suited for precise holes in softwood and
hardwood in collet chucks on dowel drill and CNC machines

drilling length 30 mm • total length 57 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation	
	5	30	57	10x20	350.050.300.HS.L	350.050.300.HS.R	
	6	30	57	10x20	350.060.300.HS.L	350.060.300.HS.R	
	8	30	57	10x20	-	350.080.300.HS.R	
	10	30	57	10x20	350.100.300.HS.L	350.100.300.HS.R	
	12	30	57	10x20	350.120.300.HS.L	350.120.300.HS.R	

drilling length 40 mm • total length 67 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation	
	5	40	67	10x20	350.050.400.HS.L	350.050.400.HS.R*	
	6	40	67	10x20	350.060.400.HS.L*	350.060.400.HS.R	
	8	40	67	10x20	350.080.400.HS.L	350.080.400.HS.R	
	12	40	67	10x20	350.120.400.HS.L	350.120.400.HS.R	

drilling length 45 mm • total length 85 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation	
	5	45	85	10x30	350.050.450.HS.L	350.050.450.HS.R	
	6	45	85	10x30	350.060.450.HS.L	350.060.450.HS.R*	
	8	45	85	10x30	350.080.450.HS.L	350.080.450.HS.R	
	10	45	85	10x30	350.100.450.HS.L	350.100.450.HS.R*	
	12	45	85	10x30	350.120.450.HS.L	-	

drilling length 60 mm • total length 95 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation	
	8	60	95	10x25	350.080.600.HS.L	350.080.600.HS.R	
	10	60	95	10x25	-	350.100.600.HS.R	
	14	60	95	10x25	350.140.600.HS.L	350.140.600.HS.R	

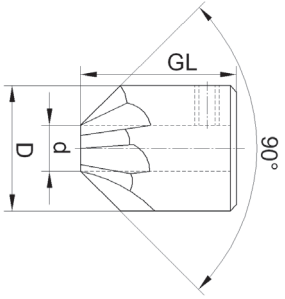
drilling length 65 mm • total length 105 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation	
	5	65	105	10x30	350.050.650.HS.L	350.050.650.HS.R	
	6	65	105	10x30	350.060.650.HS.L	-	
	8	65	105	10x30	350.080.650.HS.L	350.080.650.HS.R	
	10	65	105	10x30	350.100.650.HS.L	350.100.650.HS.R	
	12	65	105	10x30	350.120.650.HS.L	350.120.650.HS.R	

drilling length 85 mm • total length 120 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation	
	10	85	120	10x25	350.100.850.HS.L	350.100.850.HS.R	
	12	85	120	10x25	350.120.850.HS.L	350.120.850.HS.R	
	16	85	120	10x25	350.160.850.HS.L	350.160.850.HS.R	

375 LOOSE COUNTERSINK



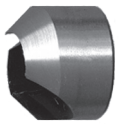
five cutting edges • countersink angle 90° •
right-hand rotation • bore and locking screw

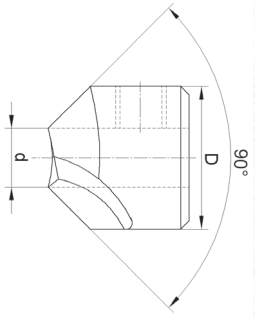
to be used in conjunction with twist drills and dowel drills

for softwood

TS	d	D	GL	Part number right-hand rotation
	3	16	28	375.030.000.WS.R
	3,5	16	28	375.035.000.WS.R
	4	16	28	375.040.000.WS.R
	4,5	16	28	375.045.000.WS.R
	5	16	28	375.050.000.WS.R
	5,5	16	28	375.055.000.WS.R
	6	16	28	375.060.000.WS.R
	6,5	16	28	375.065.000.WS.R
	8	20	28	375.080.000.WS.R
	10	20	28	375.100.000.WS.R

380 LOOSE COUNTERSINK





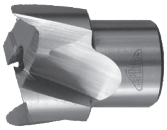
two cutting edges • countersink angle 90° •
right-hand or left-hand rotation • bore and locking screw

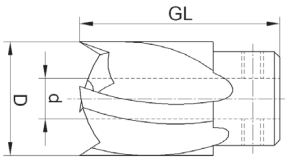
to be used in conjunction with twist drills and dowel drills

for softwood and hardwood

HS	d	D	Part number left-hand rotation	Part number right-hand rotation
	3	16	380.030.000.HS.L	380.030.000.HS.R
	3,5	16	380.035.000.HS.L	380.035.000.HS.R
	4,5	16	-	380.045.000.HS.R
	5	16	380.050.000.HS.L	380.050.000.HS.R
	5,5	16	380.055.000.HS.L	380.055.000.HS.R
	6	16	380.060.000.HS.L	380.060.000.HS.R
	7,5	18	380.075.000.HS.L	380.075.000.HS.R
	8	18	380.080.000.HS.L	380.080.000.HS.R
	8,5	18	380.085.000.HS.L	380.085.000.HS.R
	9	18	380.090.000.HS.L	-
	9,5	18	380.095.000.HS.L	380.095.000.HS.R
	10	20	380.100.000.HS.L	380.100.240.HS.R
	10,5	20	-	380.105.000.HS.R*
	11	20	380.110.000.HS.L	-
	12	20	380.120.000.HS.L	380.120.000.HS.R
	12,5	20	-	380.125.000.HS.R
	13	22	-	380.130.220.HS.R
	14	22	-	380.140.000.HS.R*

* deliverable while stocks last



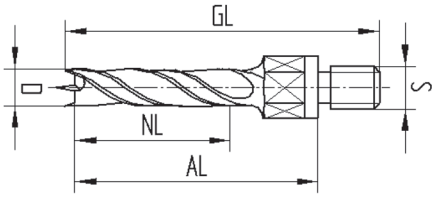


two cutting edges • countersink angle 180° •
right-hand rotation • bore and locking screw

to be used in conjunction with twist drills and dowel drills

for shallow countersinks in softwood and hardwood

HS	d	D	GL	Part number right-hand rotation	
	4	10	25	390.040.100.HS.R	
	5	10	25	390.050.100.HS.R*	
	5	12	25	390.050.120.HS.R	
	5	15	25	390.050.150.HS.R	
	6	15	25	390.060.150.HS.R	
	6	16	25	390.060.160.HS.R	
	6	20	30	390.060.200.HS.R	
	6,5	15	25	390.065.150.HS.R*	
	6,5	20	30	390.065.200.HS.R*	
	8	16	25	390.080.160.HS.R	
	8	20	30	390.080.200.HS.R	
	8	22	30	390.080.220.HS.R	
	8	25	30	390.080.250.HS.R	
	8,5	20	30	390.085.200.HS.R	
	9	28	25	390.090.280.HS.R	
	9,5	28	25	390.095.280.HS.R	
	10	20	30	390.100.200.HS.R	
	10	25	30	390.100.250.HS.R	
	10	30	30	390.100.300.HS.R	
	12	25	25	390.120.250.HS.R	
	12	28	30	390.120.280.HS.R*	
	12	30	30	390.120.300.HS.R	
	12	35	30	390.120.350.HS.R	



two cutting edges • centre point and spurs • landed flute • right-hand or left-hand rotation • shank external thread M10

particularly suited for precise holes in softwood and hardwood on e. g. Ayen • Haffner • Holzma • Knoevenagel • Mayer • Pertici • Striffler • Torwegge

drilling length 45 mm • adjusting length 63 mm

HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	5	45	63	78	AG M10	-	410-2.050.450.HS.R
	6	45	63	78	AG M10	410-2.060.450.HS.L	410-2.060.450.HS.R
	8	45	63	78	AG M10	410-2.080.450.HS.L	410-2.080.450.HS.R
	10	45	63	78	AG M10	410-2.100.450.HS.L	410-2.100.450.HS.R
	12	45	63	78	AG M10	410-2.120.450.HS.L	410-2.120.450.HS.R

drilling length 50 mm • adjusting length 68 mm

HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	5	50	68	83	AG M10	410-2.050.500.HS.L	410-2.050.500.HS.R
	7	50	68	83	AG M10	410-2.070.500.HS.L	410-2.070.500.HS.R
	8	50	68	83	AG M10	-	410-2.080.500.HS.R
	10	50	68	83	AG M10	410-2.100.500.HS.L	410-2.100.500.HS.R
	12	50	68	83	AG M10	410-2.120.500.HS.L	410-2.120.500.HS.R
	13	50	68	83	AG M10	410-2.130.500.HS.L	-
	14	50	68	83	AG M10	-	410-2.140.500.HS.R
	15	50	68	83	AG M10	-	410-2.150.500.HS.R

drilling length 60 mm • adjusting length 78 mm

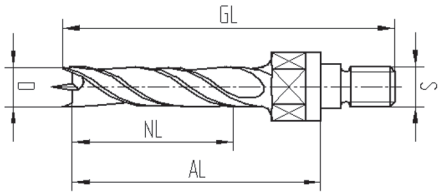
HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	60	78	93	AG M10	410-2.100.600.HS.L	-
	14	60	78	93	AG M10	410-2.140.600.HS.L	-
	16	60	78	93	AG M10	410-2.160.600.HS.L*	410-2.160.600.HS.R*

drilling length 80 mm • adjusting length 98 mm

HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	8	80	98	113	AG M10	-	410-2.080.800.HS.R
	10	80	98	113	AG M10	410-2.100.800.HS.L	410-2.100.800.HS.R
	12	80	98	113	AG M10	410-2.120.800.HS.L	410-2.120.800.HS.R
	14	80	98	113	AG M10	410-2.140.800.HS.L	410-2.140.800.HS.R
	16	80	98	113	AG M10	410-2.160.800.HS.L	410-2.160.800.HS.R

* deliverable while stocks last

410-4 DOWEL DRILL

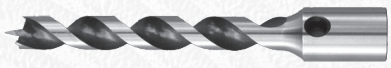


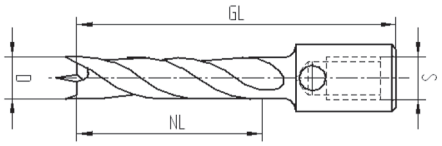
two cutting edges • centre point and spurs • landed flute •
right-hand or left-hand rotation •
shank external thread M10 and register 11x4 mm

particularly suited for precise holes in softwood and
hardwood on e. g . B.u.G. • Biesse • Bussellato •
Morbidelli • Torwegge • Weeke

HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	6	45	62	78	AG M10+P	410-4.060.450.HS.L	410-4.060.450.HS.R
	8	45	62	78	AG M10+P	-	410-4.080.450.HS.R*
	10	45	62	78	AG M10+P	410-4.100.450.HS.L	410-4.100.450.HS.R
	12	45	62	78	AG M10+P	410-4.120.450.HS.L	410-4.120.450.HS.R
	18	45	62	78	AG M10+P	410-4.180.450.HS.L	-

410-6 DOWEL DRILL





two cutting edges • centre point and spurs •
right-hand or left-hand rotation • shank internal thread M10

for working softwood and hardwood
on e. g. Häfele • Scheer

drilling length 47 mm • total length 80 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	5	47	80	IG M10	410-6.050.470.HS.L	410-6.050.470.HS.R
	6	47	80	IG M10	410-6.060.470.HS.L	410-6.060.470.HS.R
	7	47	80	IG M10	410-6.070.470.HS.L	410-6.070.470.HS.R
	8	47	80	IG M10	410-6.080.470.HS.L	410-6.080.470.HS.R
	9	47	80	IG M10	410-6.090.470.HS.L	-
	10	47	80	IG M10	410-6.100.470.HS.L	410-6.100.470.HS.R
	11	47	80	IG M10	-	410-6.110.470.HS.R
	12	47	80	IG M10	410-6.120.470.HS.L	410-6.120.470.HS.R
	13	47	80	IG M10	410-6.130.470.HS.L	410-6.130.470.HS.R
	14	47	80	IG M10	410-6.140.470.HS.L	410-6.140.470.HS.R
	15	47	80	IG M10	410-6.150.470.HS.L	410-6.150.470.HS.R
	16	47	80	IG M10	410-6.160.470.HS.L	410-6.160.470.HS.R
	18	47	80	IG M10	-	410-6.180.470.HS.R

drilling length 80 mm • total length 105 mm

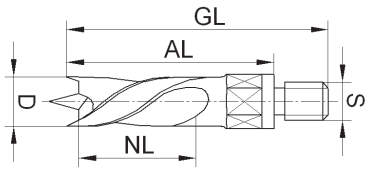
HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	8	80	105	IG M10	410-6.080.800.HS.L	410-6.080.800.HS.R
	10	80	105	IG M10	410-6.100.800.HS.L	410-6.100.800.HS.R
	12	80	105	IG M10	410-6.120.800.HS.L	410-6.120.800.HS.R
	14	80	105	IG M10	410-6.140.800.HS.L	410-6.140.800.HS.R
	15	80	105	IG M10	-	410-6.150.800.HS.R
	16	80	105	IG M10	410-6.160.800.HS.L	410-6.160.800.HS.R

drilling length 127 mm • total length 150 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	16	127	150	IG M10	410-6.160.721.HS.L	-

* deliverable while stocks last

473-2 HANDLE DRILL

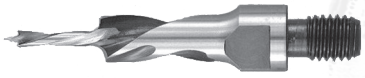


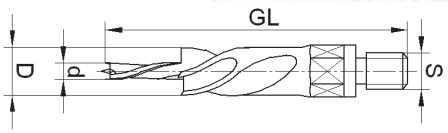
two cutting edges • enforced centre point and spurs •
landed flute • left-hand rotation • shank external thread M10

particularly for precise drilling of handles in wood
on e. g. Ayen • Haffner • Mayer • Pertici • Striffler

HS	D	NL	AL	GL	S	Part number left-hand rotation
	10	20	44	59	AG M10	473-2.100.000.HS.L
	12	20	44	59	AG M10	473-2.120.000.HS.L

477-2 STEPPED DRILL



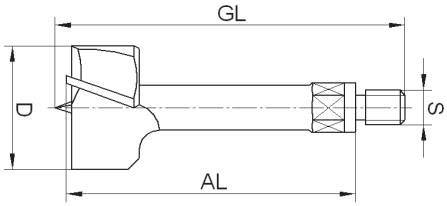


two cutting edges • front drill • left-hand rotation •
shank external thread M10

for drilling handles in wood
on e. g. Ayen • Haffner • Mayer • Pertici • Striffler

HS	D	d	GL	S	Part number left-hand rotation
	10	3,5x18	72	AG M10	477-2.035.100.HS.L

479-2 HINGE BORING BIT



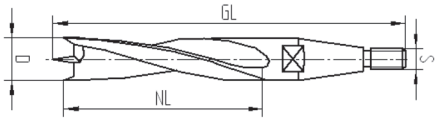
two cutting edges • centre point and spurs •
right-hand or left-hand rotation • shank external thread M10

for drilling handles in wood
on e. g. Ayen • Haffner • Mayer • Pertici • Striffler

HS	D	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	25	68	87	AG M10	479-2.250.000.HS.L	479-2.250.000.HS.R

* deliverable while stocks last

460-8 HANDLE DRILL

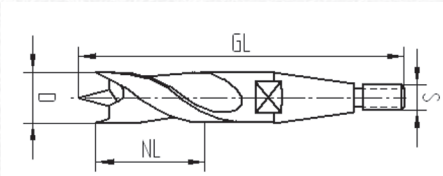


two cutting edges • centre point and spurs •
right-hand rotation •
shank external thread M6 and cone angle 16°

for drilling handles in wood on e. g. Notter • Striffler

TS	D	NL	GL	S	Part number right-hand rotation
	6	45	87	AG M6+K	460-8.060.000.SP.R
	8	45	87	AG M6+K	460-8.080.000.SP.R
	8,5	45	87	AG M6+K	460-8.085.000.SP.R
	9	45	87	AG M6+K	460-8.090.000.SP.R
	10	45	87	AG M6+K	460-8.100.000.SP.R
	12	45	87	AG M6+K	460-8.120.000.SP.R
	14	45	87	AG M6+K	460-8.140.000.SP.R
	15	45	87	AG M6+K	460-8.150.000.SP.R
	16	45	87	AG M6+K	460-8.160.000.SP.R

463-8 HANDLE DRILL

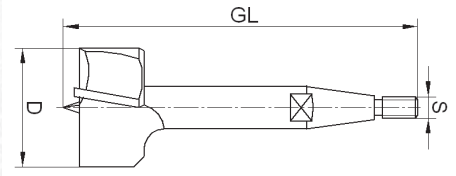


two cutting edges • enforced centre point and spurs •
right-hand rotation •
shank external thread M6 and cone angle 16°

for drilling handles in wood on e. g. Notter • Striffler

TS	D	NL	GL	S	Part number right-hand rotation
	10	20	63	AG M6+K	463-8.100.000.SP.R
	12	20	63	AG M6+K	463-8.120.000.SP.R

469-8 HINGE BORING BIT



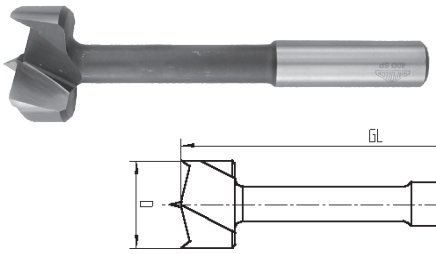
two cutting edges • centre point and spurs •
right-hand rotation •
shank external thread M6 and cone angle 16°

for drilling handles in wood on e. g. Notter • Striffler

TS	D	GL	S	Part number right-hand rotation
	22	87	AG M6+K	469-8.220.000.SP.R*
	30	87	AG M6+K	469-8.300.000.SP.R

* deliverable while stocks last

500 CYLINDER BORING BIT



two cutting edges • centre point and spurs •
right-hand rotation • stepped parallel shank

to produce tear free bore holes in softwood
on e. g. portable and stationary boring machines

TS	D	GL	S	Part number right-hand rotation	
	8	120	13	500.080.000.WS.R	
	10	120	13	500.100.000.WS.R	
	12	125	13	500.120.000.WS.R	
	13	125	13	500.130.000.WS.R	
	15	125	13	500.150.000.WS.R	
	20	130	13	500.200.000.WS.R	
	22	130	13	500.220.000.WS.R	
	24	135	13	500.240.000.WS.R	
	25	135	13	500.250.000.WS.R	
	26	135	13	500.260.000.WS.R	
	28	140	13	500.280.000.WS.R	
	30	140	13	500.300.000.WS.R	
	34	140	16	500.340.000.WS.R	
	35	140	16	500.350.000.WS.R	
	36	140	16	500.360.000.WS.R	
	38	140	16	500.380.000.WS.R	
	40	140	16	500.400.000.WS.R	
	42	140	16	500.420.000.WS.R	
	45	140	13	500.450.130.WS.R	
	45	140	16	500.450.000.WS.R	
	50	140	16	500.500.000.WS.R	
	52	140	16	500.520.000.WS.R	
	55	140	16	500.550.000.WS.R	
	60	140	16	500.600.000.WS.R	
	65	140	16	500.650.000.WS.R	
	75	160	20	500.750.000.WS.R	
	80	140	20	500.800.000.WS.R	

505 CYLINDER BORING BIT

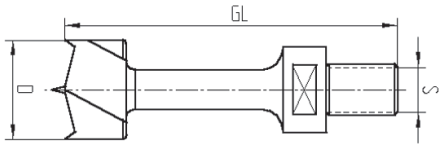
two cutting edges • centre point and spurs •
right-hand rotation • stepped parallel shank 10 mm

to produce tear free bore holes in softwood
on e. g. portable and stationary boring machines

TS	D	GL	S	Part number right-hand rotation	
	8	90	10	505.080.000.WS.R	
	15	90	10	505.150.000.WS.R	
	16	90	10	505.160.000.WS.R	
	18	90	10	505.180.000.WS.R	
	19	90	10	505.190.000.WS.R	
	22	90	10	505.220.000.WS.R	
	23	90	10	505.230.000.WS.R	
	24	90	10	505.240.000.WS.R	
	25	90	10	505.250.000.WS.R	
	26	90	10	505.260.000.WS.R	
	28	90	10	505.280.000.WS.R	
	30	90	10	505.300.000.WS.R	
	34	90	10	505.340.000.WS.R	
	35	90	10	505.350.000.WS.R	
	38	90	10	505.380.000.WS.R	
	40	90	10	505.400.000.WS.R	
	45	90	10	505.450.000.WS.R	

* deliverable while stocks last

530-12 HINGE BORING BIT

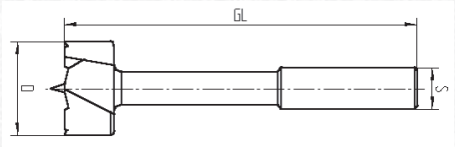


two-edged • centre point and spurs •
right-hand rotation • shank external thread M12

to produce hinge holes and dowel holes, etc. in softwood
on e. g. Rapid

TS	D	GL	S	Part number right-hand rotation
	15	85	AG M12	530-12.150.000.SP.R
	20	85	AG M12	530-12.200.000.SP.R
	25	85	AG M12	530-12.250.000.SP.R
	30	85	AG M12	530-12.300.000.SP.R
	35	85	AG M12	530-12.350.000.SP.R

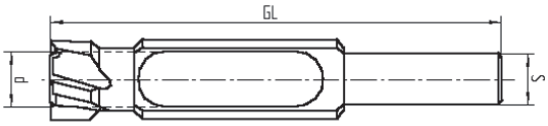
510 FORSTNER BORING BIT



two-edged • centre point and periphery cutting edges •
right-hand rotation • stepped parallel shank

to produce tear free bore holes in softwood
on e. g. portable and stationary boring machines

TS	D	GL	S	Part number right-hand rotation
	12	120	13	510.120.000.WS.R*
	15	125	13	510.150.000.WS.R*
	16	125	13	510.160.000.WS.R*
	18	130	13	510.180.000.WS.R*
	20	130	13	510.200.000.WS.R*
	25	135	13	510.250.000.WS.R*
	26	135	13	510.260.000.WS.R*
	28	135	13	510.280.000.WS.R*
	30	140	13	510.300.000.WS.R*
	35	145	16	510.350.000.WS.R*
	38	145	16	510.380.000.WS.R*
	40	145	16	510.400.000.WS.R*
	45	150	16	510.450.000.WS.R*



four- to seven-edged and periphery cutting edge • right-hand rotation • stepped parallel shank

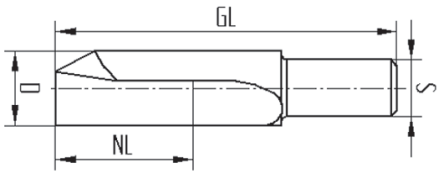
to produce plugs, tenors, etc. in softwood on e. g. stationary boring machines

TS	d	Z	GL	S	Part number right-hand rotation
	8	4	140	13	520.080.000.WS.R
	10	4	140	13	520.100.000.WS.R
	14	4	140	13	520.140.000.WS.R
	15	4	140	13	520.150.000.WS.R
	16	4	140	13	520.160.000.WS.R
	18	4	140	13	520.180.000.WS.R
	20	4	140	13	520.200.000.WS.R
	25	5	140	13	520.250.000.WS.R
	34	6	140	13	520.340.130.WS.R
	34	6	140	16	520.340.000.WS.R
	35	6	140	13	520.350.130.WS.R
	40	6	140	13	520.400.130.WS.R
	40	6	140	16	520.400.000.WS.R
	45	6	140	13	520.450.130.WS.R
	45	6	140	16	520.450.000.WS.R

fitted with HS components

HS	d	Z	GL	S	Part number right-hand rotation
	8	4	140	13	520.080.000.HS.R
	12	4	140	13	520.120.000.HS.R

* deliverable while stocks last



one straight cutting edge • right-hand rotation • stepped parallel shank

for grooving, jointing and contour cutting in softwood and hardwood on stationary routers in excentric clamping chucks with manual feed (MAN) or mechanical feed (MEC)

short design

620

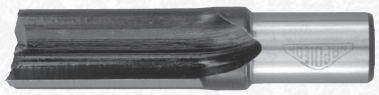
D	NL	GL	S	Part number right-hand rotation
5,5	12	45	9,5	620.055.000.HS.R*
6,5	16	50	9,5	620.065.000.HS.R*
7	16	50	9,5	620.070.000.HS.R*
7,5	20	55	9,5	620.075.000.HS.R*
9	20	55	9,5	620.090.000.HS.R*
10,5	23	60	9,5	620.105.000.HS.R*
11	23	60	9,5	620.110.000.HS.R*
16	35	65	12	620.160.000.HS.R*
17	35	65	12	620.170.000.HS.R*
18	38	70	12	620.180.000.HS.R*
19	38	70	12	620.190.000.HS.R*

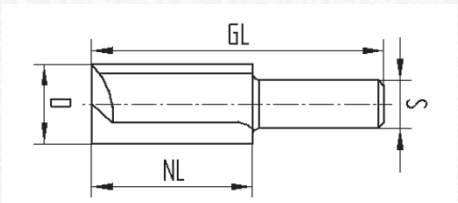
long design

625

D	NL	GL	S	Part number right-hand rotation
8	35	65	9,5	625.080.000.HS.R*
9	50	80	9,5	625.090.000.HS.R*
18	60	90	12	625.180.000.HS.R*
20	65	95	12	625.200.000.HS.R*

ROUTER CUTTER





two straight cutting edges • short design • right-hand rotation • stepped parallel shank

for grooving, jointing and contour cutting on stationary routers in concentric clamping chucks with manual feed (MAN) or mechanical feed (MEC)

for softwood and hardwood

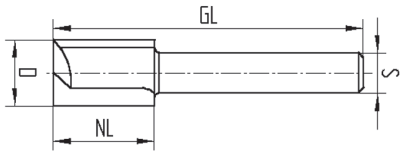
630 HS

D	NL	GL	S	Part number right-hand rotation
8	25	55	9,5	630.080.000.HS.R*
16	35	65	12	630.160.000.HS.R*
18	38	70	12	630.180.000.HS.R*
20	38	70	12	630.200.000.HS.R*

for hardwood, wood composites and boards etc.

631 TC

D	NL	GL	S	Part number right-hand rotation
18	35	69	12	631.180.000.HW.R*



either one or two straight cutting edges • right-hand rotation • standard length • parallel shank 8 mm

for use on portable and stationary routers with concentric clamping chucks with manual feed (MAN)

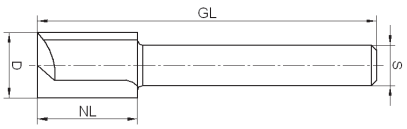
for softwood and hardwood

HS	D	NL	GL	Z	S	Part number right-hand rotation
	3	8	42	1	8	6804.030.080.HS.R
	4	10	48	2	8	6804.040.002.HS.R
	5	15	49	2	8	6804.050.150.HS.R
	6	16	49	2	8	6804.060.160.HS.R*
	8	20	51	2	8	6804.080.200.HS.R
	10	30	60	2	8	6804.100.300.HS.R
	12	20	52	2	8	6804.120.200.HS.R
	14	20	48	2	8	6804.140.200.HS.R
	15	20	48	2	8	6804.150.200.HS.R
	18	20	50	2	8	6804.180.200.HS.R

for hardwood, wood composites and coated materials • without TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	3	6	45	2	8	6804.030.060.HW.R
	4	10	45	2	8	6804.040.100.HW.R
	5	12	45	2	8	6804.050.120.HW.R
	6	14	44	2	8	6804.060.140.HW.R
	8	20	50	2	8	6804.080.200.HW.R
	8	30	57	2	8	6804.080.300.HW.R*
	10	20	50	2	8	6804.100.200.HW.R
	10	30	57	2	8	6804.100.300.HW.R
	12	20	45	2	8	6804.120.200.HW.R
	12	30	57	2	8	6804.120.300.HW.R*
	14	20	51	2	8	6804.140.200.HW.R
	15	20	48	2	8	6804.150.200.HW.R
	18	20	45	2	8	6804.180.200.HW.R
	20	20	51	2	8	6804.200.200.HW.R
	22	20	50	2	8	6804.220.200.HW.R

* deliverable while stocks last



either one or two straight cutting edges •
right-hand or left-hand rotation • long version • parallel shank

for use on portable and stationary routers with concentric clamping chucks with manual feed (MAN)

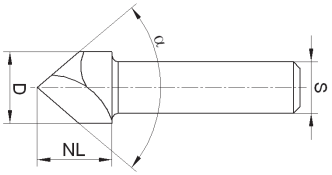
for softwood and hardwood

HS	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	2	6	55	1	8	-	6809.020.060.HS.R*
	2,5	6	55	1	8	-	6809.025.060.HS.R
	3	8	55	1	8	-	6809.030.080.HS.R
	3,5	8	55	1	8	-	6809.035.080.HS.R
	4	10	55	1	8	-	6809.040.100.HS.R
	4	12	70	1	8	-	6809.040.120.HS.R
	4,5	15	55	1	8	-	6809.045.150.HS.R
	5	17	55	2	8	-	6809.050.170.HS.R
	6	20	55	2	8	-	6809.060.200.HS.R*
	7	23	55	2	8	-	6809.070.230.HS.R
	8	23	55	2	8	-	6809.080.230.HS.R
	8	40	85	2	8	6809.080.400.HS.L	-
	9	23	55	2	8	-	6809.090.230.HS.R
	9	40	90	2	9	6809.090.400.HS.L	-
	11	20	60	2	8	-	6809.110.200.HS.R
	12	20	60	2	8	-	6809.120.200.HS.R
	13	20	60	2	8	-	6809.130.200.HS.R
	14	12	60	2	8	-	6809.140.120.HS.R
	14	20	60	2	8	-	6809.140.200.HS.R
	15	20	60	2	8	-	6809.150.200.HS.R
	16	20	70	2	8	-	6809.160.200.HS.R*
	16	35	75	2	8	6809.160.350.HS.L	-
	18	20	70	2	8	-	6809.180.200.HS.R
	20	20	70	2	8	-	6809.200.200.HS.R*
	22	10	70	2	8	-	6809.220.100.HS.R
	24	10	60	2	8	-	6809.240.100.HS.R
	25	10	70	2	8	-	6809.250.050.HS.R
	30	10	70	2	8	-	6809.300.050.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	2	4	55	1	8	-	6809.020.040.HW.R
	3	6	55	2	8	-	6809.030.060.HW.R
	4	10	55	2	8	-	6809.040.100.HW.R
	5	12	55	2	8	-	6809.050.120.HW.R
	6	14	55	2	8	-	6809.060.140.HW.R
	7	17	55	2	8	-	6809.070.170.HW.R
	8	20	55	2	8	-	6809.080.200.HW.R
	8	30	90	2	8	-	6809.080.300.HW.R
	9	20	55	2	8	-	6809.090.200.HW.R
	10	20	60	2	8	-	6809.100.200.HW.R
	10	30	90	2	8	-	6809.100.300.HW.R
	11	20	60	2	8	-	6809.110.200.HW.R
	12	20	60	2	8	-	6809.120.200.HW.R
	14	20	60	2	8	-	6809.140.200.HW.R
	14	30	90	2	8	-	6809.140.300.HW.R
	15	20	60	2	8	-	6809.150.200.HW.R
	18	20	70	2	8	-	6809.180.200.HW.R
	18	30	65	2	8	-	6809.180.300.HW.R
	20	30	65	2	8	-	6809.200.300.HW.R*
	22	20	70	2	8	-	6809.220.160.HW.R
	24	16	70	2	8	-	6809.240.160.HW.R
	25	16	70	2	8	-	6809.250.160.HW.R
	26	16	70	2	8	-	6809.260.160.HW.R
	28	16	70	2	8	-	6809.280.160.HW.R*

6810 V-GROOVING CUTTER



two cutting edges • right-hand rotation • parallel shank 8 mm

for V-grooves, decorative grooves, lettering or bevelling on on portable routers, etc. with manual feed (MAN)

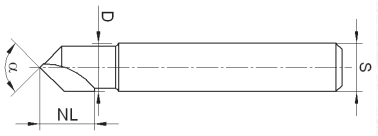
for softwood and hardwood

HS	D	a	NL	Z	S	Part number right-hand rotation
	11	60	14	2	8	6810.110.600.HS.R
	14	90	18	2	8	6810.140.900.HS.R

for hardwood, wood composites and coated materials

TC	D	a	NL	Z	S	Part number right-hand rotation
	14	90	13	2	8	6810.140.900.HW.R

6811 ENGRAVING CUTTER



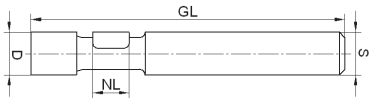
one cutting edge • right-hand rotation • parallel shank 8 mm

for V-grooves, decorative grooves, lettering and bevelling of hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

TC	D	a	NL	Z	S	Part number right-hand rotation
	8	90	9	1	8	6811.080.900.HW.R

* deliverable while stocks last

6814 SQUARE TRIMMING CUTTER



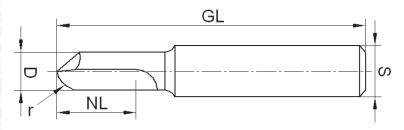
one cutting edge • guide pin • right-hand rotation • parallel shank 8 mm

for apertures, contour cutting, etc. in hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

fitted

TC	D	NL	GL	Z	S	Part number right-hand rotation
	8	8	48	1	8	6814.080.000.HW.R

6817 DECORATIVE GROOVE CUTTER

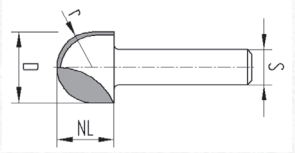


one cutting edge • right-hand rotation • parallel shank 8 mm

for decorative grooving, lettering and engraving, etc. in softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	D	r	NL	GL	Z	S	Part number right-hand rotation
	4,8	2,4	12	44	1	8	6817.048.024.HS.R

6818 CORE BOX CUTTER



two cutting edges • right-hand rotation • parallel shank 8 mm

for use on portable routers, etc. with manual feed (MAN)

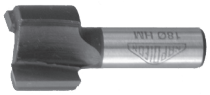
for softwood and hardwood

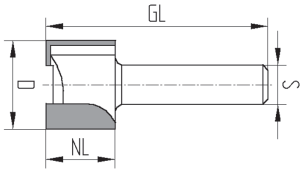
HS	D	r	NL	Z	S	Part number right-hand rotation
	8	4	9	2	8	6818.080.040.HS.R
	9,5	4,75	10	2	8	6818.095.047.HS.R
	12,7	6,35	9	2	8	6818.127.063.HS.R
	16	8	10	2	8	6818.160.080.HS.R
	20	10	15	2	8	6818.200.100.HS.R

for hardwood, wood composites and coated materials

TC	D	r	NL	Z	S	Part number right-hand rotation
	12,7	6,35	9	2	8	6818.127.063.HW.R

6820 SQUARE TRIMMING CUTTER



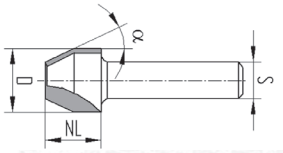


two cutting edges •right-hand rotation • parallel shank 8 mm

for working hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

TC	D	NL	GL	Z	S	Part number right-hand rotation
	18	12	37	2	8	6820.180.120.HW.R

6821 BEVEL TRIMMING CUTTER

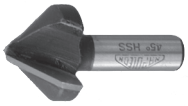


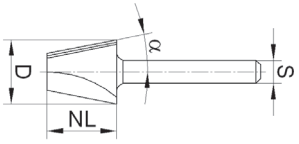
two cutting edges • right-hand rotation • parallel shank 8 mm

for working hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

TC	D	a	NL	Z	S	Part number right-hand rotation
	12	22	12	2	8	6821.120.220.HW.R

6822 BEVEL CUTTER





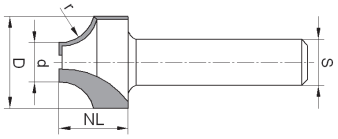
two cutting edges • right-hand rotation • parallel shank 8 mm

for working softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	D	a	NL	Z	S	Part number right-hand rotation
	22,8	45	14	2	8	6822.228.450.HS.R

* deliverable while stocks last

6825 OVOLO CUTTER



two cutting edges • right-hand rotation •parallel shank 8 mm

for use on portable routers, etc. with manual feed (MAN)

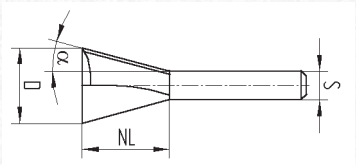
for softwood and hardwood

HS	D	r	d	NL	Z	S	Part number right-hand rotation
	16	5	6	10	2	8	6825.160.050.HS.R

for hardwood, wood composites and coated materials • without TC face cutting edge

TC	D	r	d	NL	Z	S	Part number right-hand rotation
	26	6,35	13	12	2	8	6825.260.063.HW.R

6830 DOVETAIL CUTTER

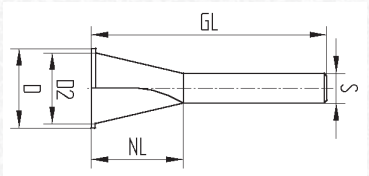


two cutting edges • right-hand rotation • parallel shank 8 mm

for working softwood and hardwood on portable routers, etc. for manual feed (MAN)

HS	D	α	NL	Z	S	Part number right-hand rotation
	10	15	7	2	8	6830.100.000.HS.R
	12	15	8	2	8	6830.120.000.HS.R
	14	15	10	2	8	6830.140.000.HS.R*

6832 DOVETAIL CUTTER



two cutting edges • scorer • right-hand rotation • parallel shank 8 mm

for use on portable routers, etc. with manual feed (MAN)

for softwood and hardwood

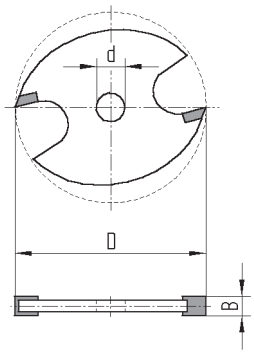
HS	D	D2	NL	GL	Z	S	Part number right-hand rotation
	14,3	12,7	13,5	44	2	8	6832.143.000.HS.R

for hardwood, wood composites and coated materials

TC	D	D2	NL	GL	Z	S	Part number right-hand rotation
	14,3	12,7	13,5	46	2	8	6832.143.000.HW.R

* deliverable while stocks last

TC GROOVING SAW



two TC cutting edges • right-hand rotation • bore 6 mm

for grooving and slotting of hardwood, wood composites and coated materials on spindles and arbors, etc. with manual feed (MAN)

version with bore 8 mm without extra-charge

diameter 40 mm

6640

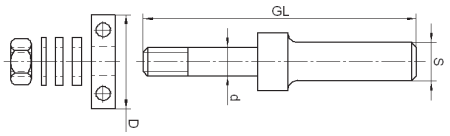
B	D	d	Z	Part number right-hand rotation
1,5	40	6	2	6640.015.000.HW.R
1,8	40	6	2	6640.018.000.HW.R
2	40	6	2	6640.020.000.HW.R
2,2	40	6	2	6640.022.000.HW.R
2,5	40	6	2	6640.025.000.HW.R
2,8	40	6	2	6640.028.000.HW.R
3	40	6	2	6640.030.000.HW.R
3,5	40	6	2	6640.035.000.HW.R
4	40	6	2	6640.040.000.HW.R
5	40	6	2	6640.050.000.HW.R
6	40	6	2	6640.060.000.HW.R

diameter 45 mm

6645

B	D	d	Z	Part number right-hand rotation
1,5	45	6	2	6645.015.000.HW.R
1,8	45	6	2	6645.018.000.HW.R
2	45	6	2	6645.020.000.HW.R
2,2	45	6	2	6645.022.000.HW.R
2,5	45	6	2	6645.025.000.HW.R
2,8	45	6	2	6645.028.000.HW.R
3	45	6	2	6645.030.000.HW.R
3,5	45	6	2	6645.035.000.HW.R
4	45	6	2	6645.040.000.HW.R
5	45	6	2	6645.050.000.HW.R
6	45	6	2	6645.060.000.HW.R

ARBOR



to take grooving saws with bore diameter 6 or 8 mm in right-hand rotation on portable routers, etc.

for bore diameter 6 mm

D	d	GL	S	Part number right-hand rotation
12	6	50	8	6841.120.060.00.R

for bore diameter 6 mm • with ball bearing

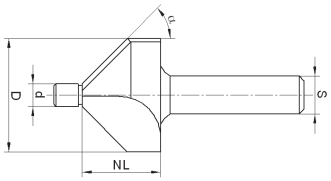
D	d	GL	S	Part number right-hand rotation
19	6	52	8	6871.190.060.00.R
19	6	54	IG M10	6971-6.000.000.00.R

for bore diameter 8 mm

D	d	GL	S	Part number right-hand rotation
16	8	54	8	6841.160.080.00.R

* deliverable while stocks last

6850 BEVEL CUTTER

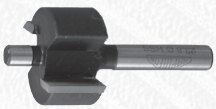


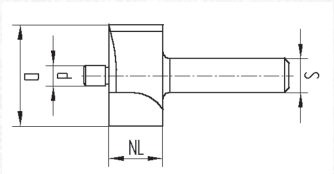
two cutting edges • guide pin • right-hand rotation • parallel shank 8 mm

for working hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

TC	D	a	NL	d	Z	S	Part number right-hand rotation
	12,5	45	11,5	4,8	2	8	6850.125.000.HW.R

6852 REBATING CUTTER



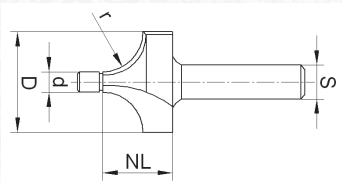


two cutting edges • guide pin • right-hand rotation • parallel shank 8 mm

for working softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	D	NL	d	Z	S	Part number right-hand rotation
	23,8	13	4,8	2	8	6852.238.000.HS.R

6854 ROUNDING OVER CUTTER

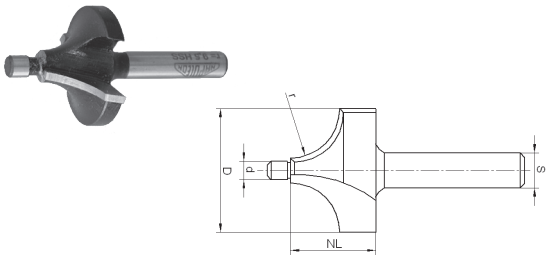


two cutting edges • guide pin • right-hand rotation • parallel shank 8 mm

for working softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	D	r	NL	d	Z	S	Part number right-hand rotation
	17,5	6,35	13,4	4,8	2	8	6854.175.063.HS.R
	20,8	8	15	4,8	2	8	6854.208.080.HS.R
	23,8	9,5	16	4,8	2	8	6854.238.095.HS.R

6856 OVOLO CUTTER

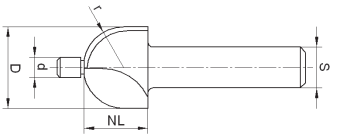


two cutting edges • guide pin • right-hand rotation • parallel shank 8 mm

for working softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	D	r	NL	d	Z	S	Part number right-hand rotation
	21,6	6,35	14	4,8	2	8	6856.216.064.HS.R
	28,0	9,5	16	4,8	2	8	6856.280.095.HS.R

6858 CORE BOX CUTTER

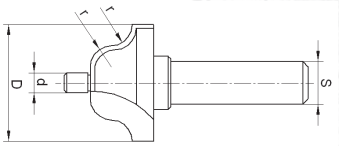


two cutting edges • guide pin • right-hand rotation • parallel shank 8 mm

for working softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	D	r	NL	d	Z	S	Part number right-hand rotation
	17,6	6,35	13	4,8	2	8	6858.176.064.HS.R
	23,8	9,5	18	4,8	2	8	6858.238.095.HS.R

6859 CLASSIC COVE CUTTER



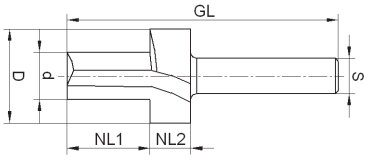
two cutting edges • guide pin • right-hand rotation • parallel shank 8 mm

for working softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	D	r	d	Z	S	Part number right-hand rotation
	23,8	4/4	4,8	2	8	6859.238.040.HS.R
	30,2	6,35/6,35	4,8	2	8	6859.302.063.HS.R

* deliverable while stocks last

6860 STEPPED CUTTER

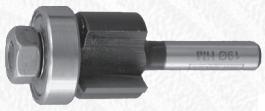


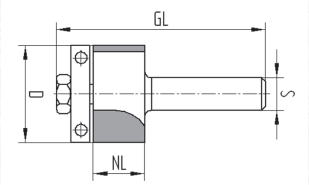
two cutting edges • right-hand rotation • parallel shank 8 mm

for cutting stepped grooves for closure fittings, etc. in softwood and hardwood on portable routers, etc. with manual feed (MAN)

HS	d	NL1	D	NL2	GL	Z	S	Part number right-hand rotation
	11	10	16	10	50	2	8	6860.110.161.HS.R

6870 SQUARE TRIMMING CUTTER





two cutting edges • ball bearing guide • right-hand rotation • parallel shank 8 mm

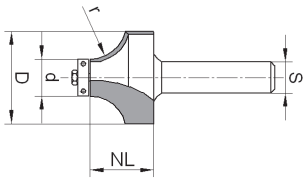
for working hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

TC	D	NL	GL	Z	S	Part number right-hand rotation
	12,7	25	63	2	8	6870.127.250.HW.R
	13	6,35	52	2	8	6870.130.063.HW.R
	19	12	50	2	8	6870.190.120.HW.R
	22	20	60	2	8	6870.220.200.HW.R

Spare parts

	Denotation	D	d	PU	Part number spare parts
	Ball bearing	13	4	1	100.130.040.SM.0
	Ball bearing	19	6	1	100.190.060.SM.0
	Ball bearing	22	6,35 m. AR	1	100.220.063.SM.A

6876 ROUNDING OVER CUTTER



two cutting edges • ball bearing guide • right-hand rotation • parallel shank 8 mm

for use on portable routers, etc. with manual feed (MAN)

Rounding over cutter for portable edge rounding machines with ball bearing and synthetic guide ring on inquiry

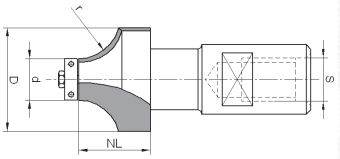
for softwood and hardwood

HS	D	r	NL	d	Z	S	Part number right-hand rotation
	25,5	6,35	13,5	12,7	2	8	6876.255.064.HS.R
	28,7	8	15	12,7	2	8	6876.287.080.HS.R
	38,1	12,7	19,7	12,7	2	8	6876.381.127.HS.R

for hardwood, wood composites and coated materials

TC	D	r	NL	d	Z	S	Part number right-hand rotation
	16,7	2	8	12,7	2	8	6876.167.020.HW.R
	18,7	3	8	12,7	2	8	6876.187.030.HW.R
	20,7	4	12	12,7	2	8	6876.207.040.HW.R
	22,7	5	12	12,7	2	8	6876.227.050.HW.R
	25,5	6,35	12	12,7	2	8	6876.255.064.HW.R*
	28,7	8	15	12,7	2	8	6876.287.080.HW.R
	31,7	9,5	16	12,7	2	8	6876.317.095.HW.R
	38,1	12,7	19,7	12,7	2	8	6876.381.127.HW.R
	42,7	15	21	12,7	2	8	6876.427.150.HW.R

TC ROUNDING OVER CUTTER



two cutting edges • ball bearing guide • right-hand rotation • shank with internal thread

for working hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

shank internal thread M10

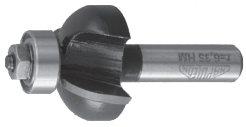
6976-6	D	r	NL	d	Z	S	Part number right-hand rotation
	18,7	3	8	12,7	2	IG M10	6976-6.187.030.HW.R
	25,5	6,35	12	12,7	2	IG M10	6976-6.255.064.HW.R
	31,7	9,5	16	12,7	2	IG M10	6976-6.317.095.HW.R
	42,7	15	21	12,7	2	IG M10	6976-6.427.150.HW.R

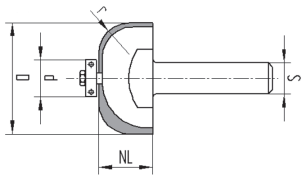
shank internal thread M12x1

6976-9	D	r	NL	d	Z	S	Part number right-hand rotation
	18,7	3	8	12,7	2	IG M12x1	6976-9.187.030.HW.R
	25,5	6,35	12	12,7	2	IG M12x1	6976-9.255.064.HW.R
	28,7	8	15	12,7	2	IG M12x1	6976-9.287.080.HW.R
	31,7	9,5	16	12,7	2	IG M12x1	6976-9.317.095.HW.R
	42,7	15	21	12,7	2	IG M12x1	6976-9.427.150.HW.R

* deliverable while stocks last

6877 CORE BOX CUTTER



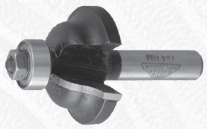


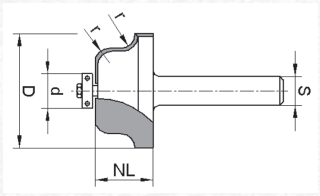
two cutting edges • ball bearing guide • right-hand rotation • parallel shank 8 mm

for working hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

TC	D	r	NL	d	Z	S	Part number right-hand rotation
	25,4	6,35	12,7	12,7	2	8	6877.254.064.HW.R

6879 CLASSIC COVE CUTTER

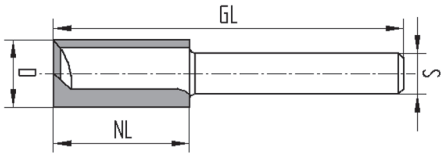




two cutting edges • ball bearing guide • right-hand rotation • parallel shank 8 mm

for working hardwood, wood composites and coated materials on portable routers, etc. with manual feed (MAN)

TC	D	r	NL	d	Z	S	Part number right-hand rotation
	31,7	4/4	13	12,7	2	8	6879.317.040.HW.R



two straight cutting edges • right-hand or left-hand rotation • parallel shank 12 mm

for use on portable and stationary routers with concentric clamping chucks, etc. with manual feed (MAN)

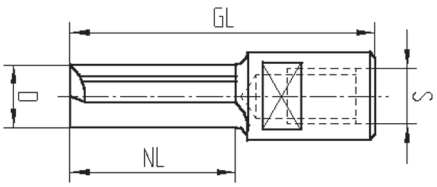
for softwood and hardwood

HS	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	12	35	90	2	12	-	6202.120.000.HS.R
	12	50	105	2	12	6202.120.500.HS.L	-
	14	35	90	2	12	-	6202.140.000.HS.R
	14	50	110	2	12	-	6202.140.500.HS.R
	16	35	75	2	12	6202.160.350.HS.L	6202.160.350.HS.R
	16	35	90	2	12	-	6202.160.000.HS.R
	18	35	90	2	12	-	6202.180.000.HS.R
	20	35	90	2	12	-	6202.200.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	10	35	90	2	12	-	6202.100.000.HW.R
	12	35	90	2	12	-	6202.120.350.HW.R
	12	45	90	2	12	-	6202.120.450.HW.R*
	14	35	90	2	12	-	6202.140.000.HW.R
	15	60	110	2	12	-	6202.150.600.HW.R*
	16	35	90	2	12	-	6202.160.000.HW.R
	16	60	110	2	12	-	6202.160.600.HW.R
	18	35	90	2	12	-	6202.180.000.HW.R
	18	60	110	2	12	-	6202.180.600.HW.R
	20	35	90	2	12	-	6202.200.000.HW.R
	22	60	110	2	12	-	6202.220.600.HW.R
	24	35	90	2	12	-	6202.240.000.HW.R

* deliverable while stocks last



two straight cutting edges • right-hand rotation • short design • shank internal thread M10

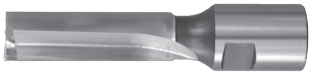
for use on portable routers, etc. with manual feed (MAN)

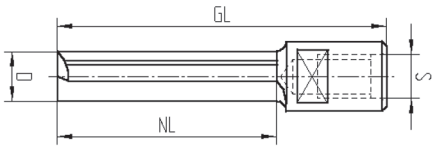
for softwood and hardwood

HS	D	NL	GL	Z	S	Part number right-hand rotation
	4	12	55	2	IG M10	640-6.040.000.HS.R
	5	16	55	2	IG M10	640-6.050.000.HS.R
	6	18	55	2	IG M10	640-6.060.000.HS.R
	7	18	55	2	IG M10	640-6.070.000.HS.R
	8	20	55	2	IG M10	640-6.080.000.HS.R
	9	20	55	2	IG M10	640-6.090.000.HS.R
	10	20	55	2	IG M10	640-6.100.000.HS.R
	11	20	55	2	IG M10	640-6.110.000.HS.R
	12	20	55	2	IG M10	640-6.120.000.HS.R
	13	22	55	2	IG M10	640-6.130.000.HS.R
	14	22	55	2	IG M10	640-6.140.000.HS.R
	15	25	55	2	IG M10	640-6.150.000.HS.R
	16	25	55	2	IG M10	640-6.160.000.HS.R
	18	27	57	2	IG M10	640-6.180.000.HS.R
	19	27	57	2	IG M10	640-6.190.000.HS.R
	20	27	57	2	IG M10	640-6.200.000.HS.R
	22	27	57	2	IG M10	640-6.220.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	6	14	55	2	IG M10	640-6.060.000.HW.R
	8	20	55	2	IG M10	640-6.080.000.HW.R
	10	25	55	2	IG M10	640-6.100.000.HW.R
	11	25	55	2	IG M10	640-6.110.000.HW.R
	12	25	55	2	IG M10	640-6.120.000.HW.R
	13	25	55	2	IG M10	640-6.130.000.HW.R
	14	25	55	2	IG M10	640-6.140.000.HW.R
	15	25	55	2	IG M10	640-6.150.000.HW.R
	16	25	55	2	IG M10	640-6.160.000.HW.R
	17	25	55	2	IG M10	640-6.170.000.HW.R
	18	25	57	2	IG M10	640-6.180.000.HW.R
	19	25	57	2	IG M10	640-6.190.000.HW.R
	20	25	57	2	IG M10	640-6.200.000.HW.R
	22	25	57	2	IG M10	640-6.220.000.HW.R
	24	25	57	2	IG M10	640-6.240.000.HW.R
	25	25	57	2	IG M10	640-6.250.000.HW.R
	30	25	57	2	IG M10	640-6.300.000.HW.R





two straight cutting edges • right-hand rotation • long design • shank internal thread M10

for use on portable routers, etc. with manual feed (MAN)

for softwood and hardwood

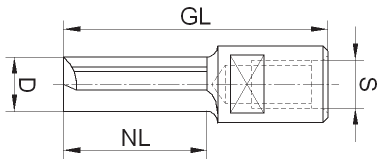
HS	D	NL	GL	Z	S	Part number right-hand rotation
	6	30	65	2	IG M10	641-6.060.000.HS.R
	7	35	67	2	IG M10	641-6.070.000.HS.R
	8	35	68	2	IG M10	641-6.080.000.HS.R
	9	35	67	2	IG M10	641-6.090.000.HS.R
	10	35	70	2	IG M10	641-6.100.000.HS.R
	11	40	70	2	IG M10	641-6.110.000.HS.R
	12	40	72	2	IG M10	641-6.120.000.HS.R
	13	40	70	2	IG M10	641-6.130.000.HS.R
	14	40	72	2	IG M10	641-6.140.000.HS.R
	15	45	75	2	IG M10	641-6.150.000.HS.R
	16	45	75	2	IG M10	641-6.160.000.HS.R
	18	45	75	2	IG M10	641-6.180.000.HS.R
	20	45	75	2	IG M10	641-6.200.000.HS.R
	22	45	75	2	IG M10	641-6.220.000.HS.R
	24	45	75	2	IG M10	641-6.240.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	12	35	67	2	IG M10	641-6.120.000.HW.R
	14	45	75	2	IG M10	641-6.140.450.HW.R
	15	45	75	2	IG M10	641-6.150.000.HW.R
	16	45	75	2	IG M10	641-6.160.000.HW.R
	18	45	75	2	IG M10	641-6.180.000.HW.R
	20	45	75	2	IG M10	641-6.200.000.HW.R
	22	45	75	2	IG M10	641-6.220.000.HW.R
	24	45	75	2	IG M10	641-6.240.000.HW.R

* deliverable while stocks last

643-9 GROOVING CUTTER



two straight cutting edges • right-hand rotation • shank internal thread M12x1

for use on portable routers, etc. with manual feed (MAN)

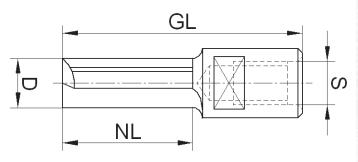
for softwood and hardwood

HS	D	NL	GL	Z	S	Part number right-hand rotation
	8	23	60	2	IG M12x1	643-9.080.000.HS.R
	9	23	60	2	IG M12x1	643-9.090.000.HS.R
	10	23	60	2	IG M12x1	643-9.100.000.HS.R
	11	23	60	2	IG M12x1	643-9.110.000.HS.R
	12	23	60	2	IG M12x1	643-9.120.000.HS.R
	13	23	60	2	IG M12x1	643-9.130.000.HS.R
	14	23	60	2	IG M12x1	643-9.140.000.HS.R
	15	25	60	2	IG M12x1	643-9.150.000.HS.R
	16	25	60	2	IG M12x1	643-9.160.000.HS.R
	19	25	60	2	IG M12x1	643-9.190.000.HS.R
	20	25	60	2	IG M12x1	643-9.200.000.HS.R
	22	25	60	2	IG M12x1	643-9.220.000.HS.R
	25	25	60	2	IG M12x1	643-9.250.000.HS.R
	34	25	60	2	IG M12x1	643-9.340.000.HS.R
	35	25	60	2	IG M12x1	643-9.350.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	8	20	60	2	IG M12x1	643-9.080.000.HW.R
	9	23	60	2	IG M12x1	643-9.090.000.HW.R
	10	25	60	2	IG M12x1	643-9.100.000.HW.R
	11	23	60	2	IG M12x1	643-9.110.000.HW.R
	12	25	60	2	IG M12x1	643-9.120.000.HW.R
	13	25	60	2	IG M12x1	643-9.130.000.HW.R
	14	25	60	2	IG M12x1	643-9.140.000.HW.R
	15	25	60	2	IG M12x1	643-9.150.000.HW.R
	16	25	60	2	IG M12x1	643-9.160.000.HW.R
	17	25	60	2	IG M12x1	643-9.170.000.HW.R
	18	25	60	2	IG M12x1	643-9.180.000.HW.R
	19	25	60	2	IG M12x1	643-9.190.000.HW.R
	20	25	60	2	IG M12x1	643-9.200.000.HW.R
	22	25	60	2	IG M12x1	643-9.220.000.HW.R
	25	25	60	2	IG M12x1	643-9.250.000.HW.R
	30	25	60	2	IG M12x1	643-9.300.000.HW.R

644-9 GROOVING CUTTER



two straight cutting edges • right-hand rotation • shank internal thread M12x1

for use on portable routers, etc. with manual feed (MAN)

for softwood and hardwood

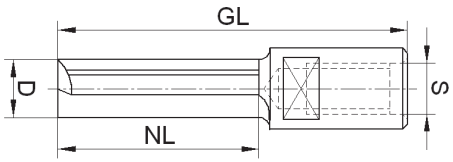
HS	D	NL	GL	Z	S	Part number right-hand rotation
	9	35	67	2	IG M12x1	644-9.090.000.HS.R
	10	35	67	2	IG M12x1	644-9.100.000.HS.R
	12	35	67	2	IG M12x1	644-9.120.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	10	35	67	2	IG M12x1	644-9.100.000.HW.R
	12	35	67	2	IG M12x1	644-9.120.000.HW.R
	14	35	67	2	IG M12x1	644-9.140.000.HW.R
	16	35	67	2	IG M12x1	644-9.160.000.HW.R*
	18	35	67	2	IG M12x1	644-9.180.000.HW.R
	20	35	67	2	IG M12x1	644-9.200.000.HW.R
	25	35	67	2	IG M12x1	644-9.250.000.HW.R

* deliverable while stocks last

642-9 GROOVING CUTTER



two straight cutting edges • right-hand rotation • shank internal thread M12x1

for use on portable routers, etc. with manual feed (MAN)

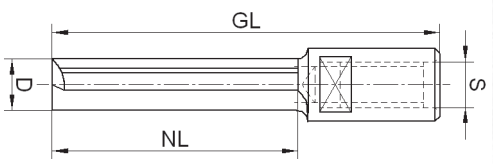
for softwood and hardwood

HS	D	NL	GL	Z	S	Part number right-hand rotation
	12	45	80	2	IG M12x1	642-9.120.000.HS.R
	16	45	80	2	IG M12x1	642-9.160.000.HS.R
	18	45	80	2	IG M12x1	642-9.180.000.HS.R
	20	45	80	2	IG M12x1	642-9.200.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	12	45	80	2	IG M12x1	642-9.120.450.HW.R
	14	45	80	2	IG M12x1	642-9.140.000.HW.R
	15	45	80	2	IG M12x1	642-9.150.000.HW.R
	16	45	80	2	IG M12x1	642-9.160.000.HW.R
	18	45	80	2	IG M12x1	642-9.180.000.HW.R
	20	45	80	2	IG M12x1	642-9.200.000.HW.R

645-9 GROOVING CUTTER



two straight cutting edges • right-hand rotation • shank internal thread M12x1

for use on portable routers, etc. with manual feed (MAN)

for softwood and hardwood

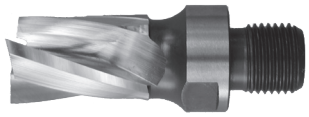
HS	D	NL	GL	Z	S	Part number right-hand rotation
	18	60	92	2	IG M12x1	645-9.180.000.HS.R
	20	60	92	2	IG M12x1	645-9.200.000.HS.R
	24	60	92	2	IG M12x1	645-9.240.000.HS.R

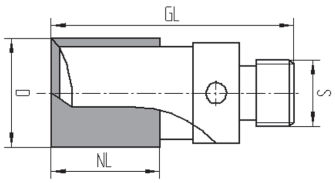
for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	18	60	92	2	IG M12x1	645-9.180.000.HW.R
	20	60	92	2	IG M12x1	645-9.200.000.HW.R

* deliverable while stocks last

650-16 GROOVING CUTTER





either two or three cutting edges • helical or straight edge • right-hand rotation • shank external thread M16x1,5

for use on portable routers, etc. with manual feed (MAN)

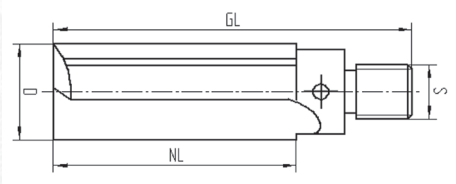
for softwood and hardwood • helical edge

HS	D	NL	GL	Z	S	Part number right-hand rotation
	20	30	64	3	AG M16x1,5	650-16.200.000.HS.R
	25	30	64	3	AG M16x1,5	650-16.250.000.HS.R

for hardwood, wood composites and coated materials • straight edge • TC plunge tip

TC	D	NL	GL	Z	S	Part number right-hand rotation
	25	25	61	2	AG M16x1,5	650-16.250.002.HW.R
	25	25	61	3	AG M16x1,5	650-16.250.003.HW.R
	30	25	61	2	AG M16x1,5	650-16.300.002.HW.R
	35	25	61	2	AG M16x1,5	650-16.350.002.HW.R

HS GROOVING CUTTER



two straight cutting edges • right-hand rotation • threaded shank

for use on portable routers, etc. with manual feed (MAN)
for stair strings in softwood and hardwood

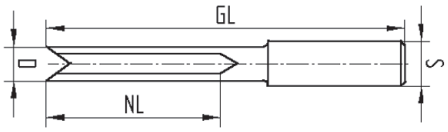
shank internal thread M10

651-6	D	NL	GL	Z	S	Part number right-hand rotation
	9	60	94	2	IG M10	651-6.090.000.HS.R

shank external thread M16x1,5

651-16	D	NL	GL	Z	S	Part number right-hand rotation
	12	60	99	2	AG M16x1,5	651-16.120.000.HS.R
	14	60	99	2	AG M16x1,5	651-16.140.000.HS.R
	16	60	99	2	AG M16x1,5	651-16.160.000.HS.R
	18	60	99	2	AG M16x1,5	651-16.180.000.HS.R
	22	40	93	2	AG M16x1,5	651-16.220.400.HS.R

HS RECIPROCATING SLOT MORTISE BIT



either two or four cutting edges • parallel shank

for working softwood and hardwood on e. g. special machines with reciprocating feed units

two cutting edges • shank 13 mm

910	D	NL	GL	Z	S	Part number
	6	38	90	2	13	910.060.000.HS.0*
	12	61	115	2	13	910.120.000.HS.0*
	14	70	120	2	13	910.140.000.HS.0*

two cutting edges • shank 10 mm

911	D	NL	GL	Z	S	Part number
	13	65	120	2	10	911.130.000.HS.0*
	14	30	80	2	10	911.140.000.HS.0*

two cutting edges • common shank and drilling diameter

912	D	NL	GL	Z	S	Part number
	6	38	90	2	6	912.060.000.HS.0
	7	23	80	2	7	912.070.230.HS.0
	7	38	95	2	7	912.070.380.HS.0
	8	42	95	2	8	912.080.000.HS.0
	9	26	80	2	9	912.090.260.HS.0
	9	46	100	2	9	912.090.460.HS.0
	10	51	105	2	10	912.100.000.HS.0
	11	56	110	2	11	912.110.000.HS.0
	12	61	115	2	12	912.120.000.HS.0

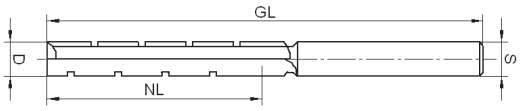
two cutting edges • shank 16 mm

913	D	NL	GL	Z	S	Part number
	6	38	90	2	16	913.060.000.HS.0*
	8	42	100	2	16	913.080.000.HS.0*
	9	46	100	2	16	913.090.000.HS.0*

four cutting edges

914	D	NL	GL	Z	S	Part number
	6	38	90	4	13	914.060.000.HS.0*
	7	34	80	4	10	914.070.340.HS.0*
	9	46	100	4	13	914.090.000.HS.0*
	10	40	75	4	10	914.100.400.HS.0*
	11	30	70	4	10	914.110.300.HS.0*
	14	70	120	4	13	914.140.000.HS.0*

918 LOCKSET CUTTER

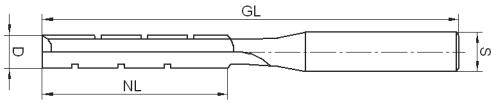


two straight cutting edges • chip breaking grooves • right-hand rotation • parallel shank 16 mm

designed to rout lockset pockets in softwood on mortise slot machines

TS	D	NL	GL	Z	S	Part number right-hand rotation
	18	130	200	2	16	918.180.130.WS.R*
	20	130	200	2	16	918.200.130.WS.R*

* deliverable while stocks last



two straight cutting edges • chip breaking grooves • right-hand or left-hand rotation • stepped parallel shank

for cutting mortise slots, etc. in softwood on e. g. mortise slot machines

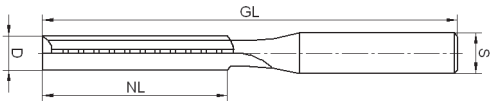
shank 13x50 mm

TS	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation	
	5	34	115	2	13	920.050.130.SP.L	-	
	6	36	120	2	13	920.060.130.SP.L	920.060.130.SP.R	
	7	38	125	2	13	920.070.130.SP.L	920.070.130.SP.R	
	8	40	130	2	13	920.080.130.SP.L	920.080.130.SP.R	
	9	43	135	2	13	920.090.130.SP.L	920.090.130.SP.R	
	10	45	140	2	13	920.100.130.SP.L	920.100.130.SP.R	
	11	48	145	2	13	920.110.130.SP.L	-	
	12	50	150	2	13	920.120.130.SP.L	920.120.130.SP.R	
	13	53	155	2	13	920.130.130.SP.L	920.130.130.SP.R	
	14	56	160	2	13	920.140.130.SP.L	920.140.130.SP.R	
	15	60	165	2	13	920.150.130.SP.L	-	
	16	63	170	2	13	920.160.130.SP.L	920.160.130.SP.R	
	17	67	180	2	13	920.170.130.SP.L	920.170.130.SP.R	
	18	67	180	2	13	-	920.180.130.SP.R	
	19	71	185	2	13	-	920.190.130.SP.R	
	21	75	190	2	13	-	920.210.130.SP.R	
	22	75	190	2	13	-	920.220.130.SP.R	
	28	90	210	2	13	-	920.280.130.SP.R*	

shank 16x50 mm

TS	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation	
	6	36	120	2	16	920.060.160.SP.L	920.060.160.SP.R	
	7	38	125	2	16	920.070.160.SP.L	920.070.160.SP.R	
	9	43	135	2	16	920.090.160.SP.L	-	
	10	45	140	2	16	920.100.160.SP.L	920.100.160.SP.R	
	12	50	150	2	16	920.120.160.SP.L	920.120.160.SP.R	
	14	56	160	2	16	920.140.160.SP.L	-	
	16	63	170	2	16	920.160.160.SP.L*	920.160.160.SP.R*	
	17	67	180	2	16	920.170.160.SP.L	-	
	18	67	180	2	16	920.180.160.SP.L	-	
	20	71	185	2	16	920.200.160.SP.L	-	
	22	75	190	2	16	-	920.220.160.SP.R	
	25	85	200	2	16	920.250.160.SP.L*	-	

921 SLOT MORTISE BIT

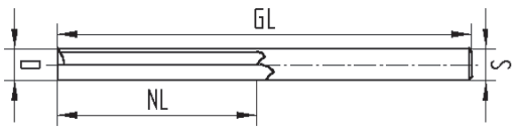


two straight cutting edges • chip breakers • right-hand rotation • stepped parallel shank

for cutting mortise slots, etc. in softwood on e. g. mortise slot machines

TS	D	NL	GL	Z	S	Part number right-hand rotation
	6	36	120	2	13	921.060.130.SP.R
	8	40	125	2	13	921.080.130.SP.R
	9	43	125	2	13	921.090.130.SP.R
	10	45	130	2	13	921.100.130.SP.R
	12	50	140	2	13	921.120.130.SP.R
	13	53	145	2	13	921.130.130.SP.R
	16	63	160	2	16	921.160.160.SP.R
	17	65	165	2	16	921.170.160.SP.R
	18	67	170	2	16	921.180.160.SP.R
	20	71	180	2	16	921.200.160.SP.R
	22	75	190	2	16	921.220.160.SP.R
	24	80	195	2	16	921.240.160.SP.R
	25	85	200	2	16	921.250.160.SP.R*

923 SLOT MORTISE BIT

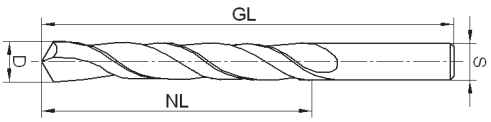


two straight cutting edges • right-hand rotation • common shank and drilling diameter

for cutting mortise slots, etc. in softwood on e. g. mortise slot machines

TS	D	NL	GL	Z	S	Part number right-hand rotation
	5	35	105	2	5	923.050.000.SP.R*
	6	35	110	2	6	923.060.000.SP.R*
	7	40	115	2	7	923.070.000.SP.R*
	8	45	120	2	8	923.080.000.SP.R*
	9	48	125	2	9	923.090.000.SP.R*
	11	50	135	2	11	923.110.000.SP.R*
	12	55	140	2	12	923.120.000.SP.R*

* deliverable while stocks last



two cutting edges • V-point • short design • right-hand or left-hand rotation • as per DIN 338 • common shank and drilling diameter

for use on portable boring machines, etc.

further dimensions under specification of quantity on inquiry

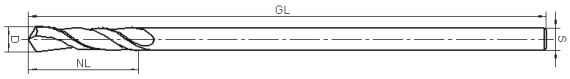
for softwood and hardwood • also suitable for processing steel

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	2	24	49	2	-	200.020.000.HS.R
	2,5	30	57	2,5	-	200.025.000.HS.R
	3	33	61	3	-	200.030.000.HS.R
	3,5	39	70	3,5	-	200.035.000.HS.R
	4	43	75	4	-	200.040.000.HS.R
	4,5	47	80	4,5	-	200.045.000.HS.R
	5	52	86	5	-	200.050.000.HS.R
	5,5	57	93	5,5	-	200.055.000.HS.R
	6	57	93	6	-	200.060.000.HS.R
	6,5	63	101	6,5	-	200.065.000.HS.R
	7	69	109	7	-	200.070.000.HS.R
	7,5	69	109	7,5	-	200.075.000.HS.R
	8	75	117	8	-	200.080.000.HS.R
	8,5	75	117	8,5	-	200.085.000.HS.R
	9	81	125	9	-	200.090.000.HS.R
	10	87	133	10	-	200.100.000.HS.R

for hardwood, wood composites and boards etc.

STC	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	2	18	40	2	200.020.000.HW.L	200.020.000.HW.R
	2,5	18	40	2,5	200.025.000.HW.L	200.025.000.HW.R
	3	20	50	3	200.030.000.HW.L	200.030.000.HW.R
	3,5	22	50	3,5	200.035.000.HW.L	200.035.000.HW.R
	4	22	50	4	200.040.000.HW.L	200.040.000.HW.R
	4,5	25	60	4,5	200.045.000.HW.L	200.045.000.HW.R
	5	26	60	5	200.050.000.HW.L	200.050.000.HW.R

202 HOLLOW SECTION TWIST DRILL



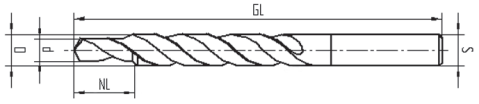
two cutting edges • V-point • extremely short spiral drill part • right-hand rotation • common shank and drilling diameter

designed for drilling hollow section and window construction in aluminium and UPVC profiles

further dimensions on inquiry

HS	D	NL	S	GL	Part number right-hand rotation
	5	30	5	150 180	202.050.150.HS.R -
	6	30	6	150 180	202.060.150.HS.R 202.060.180.HS.R
	6,5	30	6,5	150 180	202.065.150.HS.R 202.065.180.HS.R
	7	30	7	150 180	202.070.150.HS.R -
	8	30	8	150 180	202.080.150.HS.R 202.080.180.HS.R
	10	30	10	150 180	202.100.150.HS.R -

7280 SPECIAL STEPPED DRILL



two cutting edges • V-point • two-stage • right-hand rotation • parallel shank

designed for efficient production of bore and countersink at one workstep in aluminium and UPVC profiles, etc. on copying machines, boring machines, etc.

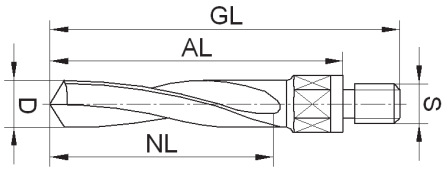
counter sunk 180° • recommended for socket head screw

HS	d	NL	D	GL	S	Part number right-hand rotation
	4,3	11	8	117	8	7280.043.080.HS.R
	5,3	13	10	133	10	7280.053.100.HS.R
	6,4	15	12	142	12	7280.064.120.HS.R
	7	10	10	123	10	7280.100.650.HS.R
	7	11	10	148	10	7280.100.900.HS.R

counter sunk 90° • recommended for countersunk screw

HS	d	NL	D	GL	S	Part number right-hand rotation
	4,3	11	8	117	8	7280.043.900.HS.R
	5,3	13	10	133	10	7280.053.900.HS.R
	6,4	15	12	142	12	7280.064.900.HS.R

* deliverable while stocks last



two cutting edges • V-point • right-hand or left-hand rotation • shank external thread M10

for drilling handles in UPVC profiles with or without filling steel profile and aluminium profiles
on e. g. Ayen • elumatec • Haffner • Mayer • Pertici • Striffler

by request also available in coated design
further lengths on inquiry

total length RH 76 / LH 72 mm • for e. g. Rotox

HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	30	57	72	AG M10	471-2.100.720.HS.L	-
	12	35	61	76	AG M10	-	471-2.120.760.HS.R
	12	30	57	72	AG M10	471-2.120.720.HS.L	-
	13	35	61	76	AG M10	-	471-2.130.760.HS.R
	13	30	57	72	AG M10	471-2.130.720.HS.L	-
	14	35	61	76	AG M10	-	471-2.140.760.HS.R
	15	35	61	76	AG M10	-	471-2.150.760.HS.R

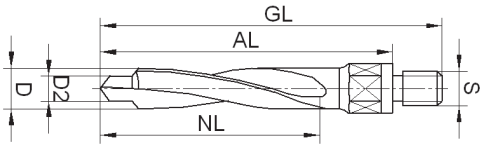
total length 87 mm

HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	8	50	72	87	AG M10	471-2.080.000.HS.L	-
	10	50	72	87	AG M10	471-2.100.000.HS.L	471-2.100.000.HS.R
	12	50	72	87	AG M10	471-2.120.000.HS.L	471-2.120.000.HS.R
	13	50	72	87	AG M10	471-2.130.000.HS.L	471-2.130.000.HS.R
	14	50	72	87	AG M10	471-2.140.000.HS.L	471-2.140.000.HS.R
	15	50	72	87	AG M10	-	471-2.150.000.HS.R

total length 113 mm

HS	D	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	80	98	113	AG M10	471-2.100.113.HS.L	471-2.100.113.HS.R
	12	80	98	113	AG M10	471-2.120.113.HS.L	471-2.120.113.HS.R
	14	80	98	113	AG M10	471-2.140.113.HS.L	471-2.140.113.HS.R

472-2 HANDLE DRILL



two cutting edges • V-point and front drill 6x5 mm •
right-hand or left-hand rotation • shank external thread M10

for drilling handles in UPVC profiles with or without filling
steel profile and aluminium profiles
on e. g. Ayen • elumatec • Haffner • Mayer • Pertici • Striffler

by request also available in coated design
further lengths on inquiry

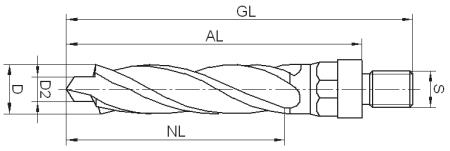
total length RH 84 / LH 87 mm

HS	D	D2	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	6	47	69	84	AG M10	-	472-2.100.000.HS.R
	10	6	50	72	87	AG M10	472-2.100.000.HS.L	-
	12	6	47	69	84	AG M10	-	472-2.120.000.HS.R
	12	6	50	72	87	AG M10	472-2.120.000.HS.L	-
	14	6	47	69	84	AG M10	-	472-2.140.000.HS.R
	14	6	50	72	87	AG M10	472-2.140.000.HS.L	-
	15	6	47	69	84	AG M10	-	472-2.150.000.HS.R

total length 113 mm

HS	D	D2	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	6	80	98	113	AG M10	472-2.100.113.HS.L	472-2.100.113.HS.R
	12	6	80	98	113	AG M10	472-2.120.113.HS.L	472-2.120.113.HS.R
	14	6	80	98	113	AG M10	472-2.140.113.HS.L	472-2.140.113.HS.R

474-2 QUADRO HANDLE DRILL



four cutting edges • V-point and front drill 6x5 mm •
right-hand or left-hand rotation • shank external thread M10

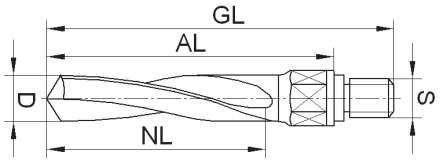
for drilling handles in UPVC profiles with or without filling
steel profile and aluminium profiles
on e. g. Ayen • elumatec • Haffner • Mayer • Pertici • Striffler

by request also available in coated design

HS	D	D2	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	6	50	72	87	AG M10	474-2.100.874.HS.L	474-2.100.874.HS.R
	12	6	50	72	87	AG M10	474-2.120.874.HS.L	474-2.120.874.HS.R
	14	6	50	72	87	AG M10	474-2.140.874.HS.L	474-2.140.874.HS.R

* deliverable while stocks last

491-4 HANDLE DRILL



two cutting edges • V-point • right-hand or left-hand rotation • shank external thread M10 and register 11x4 mm

for drilling handles in UPVC profiles with or without filling steel profile and aluminium profiles on e. g. elumatec • Federhenn • Pertici

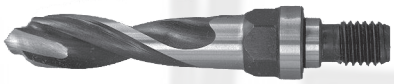
total length RH 83 / LH 80 mm

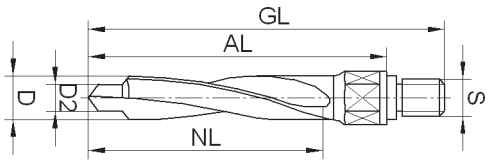
HS	D	NL	AL	GL	S	*Part number left-hand rotation*	*Part number right-hand rotation*
	10	45	64	83	AG M10+P	-	491-4.100.000.HS.R
	10	45	61	80	AG M10+P	491-4.100.000.HS.L	-
	12	45	61	80	AG M10+P	491-4.120.000.HS.L	-
	14	45	64	83	AG M10+P	-	491-4.140.000.HS.R
	14	45	61	80	AG M10+P	491-4.140.000.HS.L	-

total length 90 mm

HS	D	NL	AL	GL	S	*Part number left-hand rotation*	*Part number right-hand rotation*
	10	55	71	90	AG M10+P	491-4.100.550.HS.L	491-4.100.550.HS.R
	12	55	71	90	AG M10+P	491-4.120.550.HS.L	491-4.120.550.HS.R

492-4 HANDLE DRILL



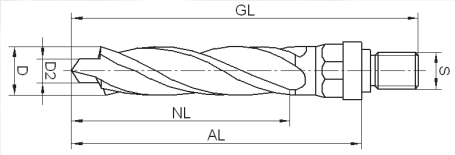


two cutting edges • V-point and front drill 6x5 mm • right-hand or left-hand rotation • shank external thread M10 and register 11x4 mm

for drilling handles in UPVC profiles with or without filling steel profile and aluminium profiles on e. g. elumatec • Federhenn • Pertici

HS	D	D2	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	6	50	68	87	AG M10+P	-	492-4.100.000.HS.R
	12	6	50	68	87	AG M10+P	492-4.120.000.HS.L	-
	14	6	50	68	87	AG M10+P	492-4.140.000.HS.L	492-4.140.000.HS.R

494-4 QUADRO HANDLE DRILL

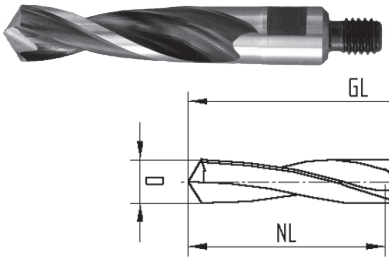


four cutting edges • V-point and front drill 6x5 mm • right-hand or left-hand rotation • shank external thread M10 and register 11x4 mm

for drilling handles in UPVC profiles with or without filling steel profile and aluminium profiles on e. g. elumatec • Federhenn • Pertici

HS	D	D2	NL	AL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	6	55	71	90	AG M10+P	494-4.100.554.HS.L	494-4.100.554.HS.R
	12	6	55	71	90	AG M10+P	494-4.120.554.HS.L	494-4.120.554.HS.R

451-1 HANDLE DRILL



two cutting edges • V-point •
shank external thread M8 and cone 90°

for drilling handles in UPVC profiles with or without filling
steel profile and aluminium profiles
on e. g. Wegoma

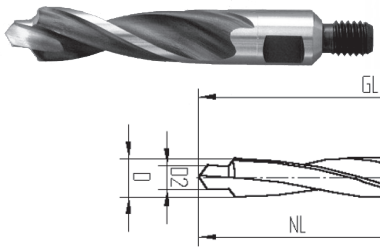
total length 78 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	50	78	AG M8+K	451-1.100.000.HS.L	451-1.100.000.HS.R
	12	50	78	AG M8+K	451-1.120.000.HS.L	451-1.120.000.HS.R
	14	50	78	AG M8+K	451-1.140.000.HS.L	451-1.140.000.HS.R
	16	50	78	AG M8+K	451-1.160.000.HS.L	-

total length 90 mm

HS	D	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	62	90	AG M8+K	451-1.100.900.HS.L*	451-1.100.900.HS.R*
	12	62	90	AG M8+K	451-1.120.900.HS.L*	451-1.120.900.HS.R*

452-1 HANDLE DRILL

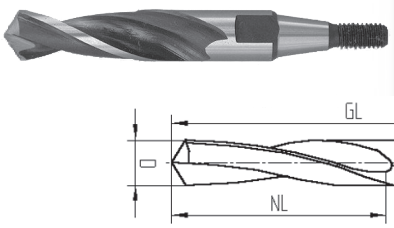


two cutting edges • V-point and front drill 6x5 mm •
shank external thread M8 and cone 90°

for drilling handles in UPVC profiles with or without filling
steel profile and aluminium profiles
on e. g. Wegoma

HS	D	D2	NL	GL	S	Part number left-hand rotation	Part number right-hand rotation
	10	6	50	78	AG M8+K	452-1.100.000.HS.L*	452-1.100.000.HS.R*
	12	6	50	78	AG M8+K	-	452-1.120.000.HS.R*
	14	6	50	78	AG M8+K	452-1.140.000.HS.L*	-

461-8 HANDLE DRILL

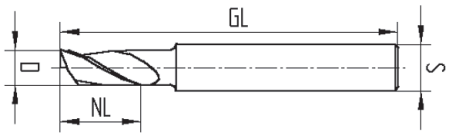


two cutting edges • V-point •
shank external thread M6 and cone angle 16°

for drilling handles in UPVC profiles with or without filling
steel profile and aluminium profiles
on e. g. Notter • Striffler

HS	D	NL	GL	S	Part number right-hand rotation
	6	45	87	AG M6+K	461-8.060.000.HS.R*
	8	45	87	AG M6+K	461-8.080.000.HS.R*
	9	45	87	AG M6+K	461-8.090.000.HS.R*
	10	45	87	AG M6+K	461-8.100.000.HS.R*
	12	45	87	AG M6+K	461-8.120.000.HS.R*
	14	45	87	AG M6+K	461-8.140.000.HS.R*
	18	45	87	AG M6+K	461-8.180.000.HS.R*

* deliverable while stocks last



one helical cutting edge • right-hand rotation • parallel shank

for cutting and milling of aluminium and UPVC profiles, etc. on copying machines, water slot milling machines and machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid • Rotox • Striffler • Wegoma

further dimensions on inquiry

shank 5 mm

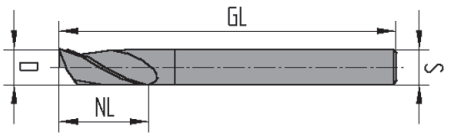
HS	D	NL	GL	Z	S	Part number right-hand rotation
	5	14	120	1	5	7501.0514.0012.HS.R

shank 8 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	3	12	60	1	8	7801.0312.0060.HS.R
	4	12	60	1	8	7801.0412.0060.HS.R
	4	25	80	1	8	7801.0425.0080.HS.R
	4	40	100	1	8	7801.0440.0010.HS.R
	5	12	60	1	8	7801.0512.0060.HS.R
	5	14	60	1	8	7801.0514.0060.HS.R
	5	14	100	1	8	7801.0514.0010.HS.R
	5	14	120	1	8	7801.0514.0012.HS.R
	5	18	60	1	8	7801.0518.0060.HS.R
	5	25	70	1	8	7801.0525.0070.HS.R
	5	25	80	1	8	7801.0525.0080.HS.R
	5	25	100	1	8	7801.0525.0010.HS.R
	5	35	80	1	8	7801.0535.0080.HS.R
	5	40	100	1	8	7801.0540.0010.HS.R
	5	40	120	1	8	7801.0540.0012.HS.R
	6	14	60	1	8	7801.0614.0060.HS.R
	6	14	100	1	8	7801.0614.0010.HS.R
	6	25	70	1	8	7801.0625.0070.HS.R
	6	40	100	1	8	7801.0640.0010.HS.R
	7	14	60	1	8	7801.0714.0060.HS.R
	8	14	80	1	8	7801.0814.0080.HS.R
	8	14	100	1	8	7801.0814.0010.HS.R
	8	14	120	1	8	7801.0814.0012.HS.R
	8	25	80	1	8	7801.0825.0080.HS.R
	8	25	100	1	8	7801.0825.0010.HS.R
	8	25	120	1	8	7801.0825.0012.HS.R
	8	40	100	1	8	7801.0840.0010.HS.R
	9	14	80	1	8	7801.0914.0080.HS.R
	10	14	80	1	8	7801.1014.0080.HS.R
	10	25	80	1	8	7801.1025.0080.HS.R
	12	14	80	1	8	7801.1214.0080.HS.R

shank 10 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	10	14	80	1	10	7101.1014.0080.HS.R
	10	14	120	1	10	7101.1014.0012.HS.R
	12	14	80	1	10	7101.1214.0080.HS.R



one helical cutting edge • right-hand rotation • parallel shank

for cutting and milling of aluminium and UPVC profiles, etc. on all kind of machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid • Rotox • Schüco • Striffler • Wegoma

further dimensions on inquiry

shank 5 mm

STC	D	NL	GL	Z	S	Part number right-hand rotation
	5	20	60	1	5	7511.0520.0060.VH.R
	5	40	80	1	5	7511.0540.0080.VH.R

shank 6 mm

STC	D	NL	GL	Z	S	Part number right-hand rotation
	2	10	50	1	6	7611.0210.0050.VH.R
	3	12	50	1	6	7611.0312.0050.VH.R
	4	14	60	1	6	7611.0414.0060.VH.R
	5	18	80	1	6	7611.0518.0080.VH.R
	5	40	80	1	6	7611.0540.0080.VH.R
	6	16	60	1	6	7611.0616.0060.VH.R
	6	20	70	1	6	7611.0620.0070.VH.R
	6	40	80	1	6	7611.0640.0080.VH.R

shank 8 mm

STC	D	NL	GL	Z	S	Part number right-hand rotation
	5	20	80	1	8	7811.0520.0080.VH.R
	5	25	80	1	8	7811.0525.0080.VH.R
	5	30	90	1	8	7811.0530.0090.VH.R
	5	30	113	1	8	7811.0530.0011.VH.R
	5	35	90	1	8	7811.0535.0090.VH.R
	5	40	80	1	8	7811.0540.0080.VH.R
	5	40	100	1	8	7811.0540.0010.VH.R
	8	18	60	1	8	7811.0818.0060.VH.R
	8	25	80	1	8	7811.0825.0080.VH.R
	8	40	80	1	8	7811.0840.0080.VH.R

shank 10 mm

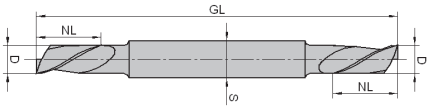
STC	D	NL	GL	Z	S	Part number right-hand rotation
	10	22	70	1	10	7111.1022.0070.VH.R
	10	32	90	1	10	7111.1032.0090.VH.R
	12	45	83	1	10	7111.1245.0083.VH.R

shank 12 mm

STC	D	NL	GL	Z	S	Part number right-hand rotation
	12	35	100	1	12	7211.1235.0010.VH.R

* deliverable while stocks last

702 DOUBLE-ENDED SINGLE FLUTE CUTTER



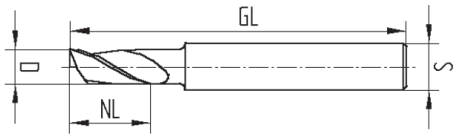
one helical cutting edge • right-hand rotation • double-ended design • parallel shank 8 mm

for cutting and milling of steel profiles on copying machines and machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid • Rotox • Striffler • Wegoma

further dimensions on inquiry

STC	D	NL	GL	Z	S	Part number right-hand rotation	
	5	12	65	1	8	7802.0512.0065.VH.R	

704 SINGLE FLUTE CUTTER



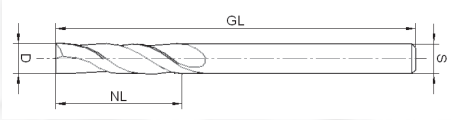
one helical cutting edge • right-hand rotation • parallel shank 8 mm

special design for working steel profiles on copying machines and machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid • Rotox • Striffler • Wegoma

further dimensions on inquiry

HS	D	NL	GL	Z	S	Part number right-hand rotation	
	5	12	60	1	8	7804.0512.0060.HS.R	
	8	14	80	1	8	7804.0814.0080.HS.R	

710 WATER SLOT CUTTER



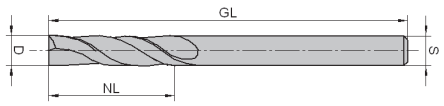
two helical cutting edges • right-hand rotation • parallel shank 8 mm

for cutting and milling of aluminium profiles on water slot milling machines
e. g. elumatec • Haffner • Rotox • Striffler • Wegoma

further dimensions on inquiry

HS	D	NL	GL	Z	S	Part number right-hand rotation	
	5	30	90	2	8	7810.0530.0090.HS.R	
	5	40	100	2	8	7810.0540.0010.HS.R	

712 MILLING CUTTER



two helical cutting edges • right-hand rotation • parallel shank

designed for all kind of machining centres

further dimensions on inquiry

STC	D	NL	GL	Z	S	Part number right-hand rotation
	2,5	8	58	2	6	7612.Y208.0058.VH.R
	3	10	40	2	3	7312.0310.0040.VH.R
	8	40	100	2	8	7812.0840.0010.VH.R
	10	40	100	2	10	7112.1040.0010.VH.R

7806 LOCKSET CUTTER

two helical cutting edges • right-hand rotation • parallel shank 8 mm

for working UPVC profiles on copying machines e. g. Rapid • Striffler • Wegoma

further dimensions on inquiry

bevelled cutting edges

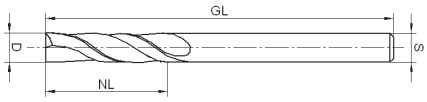
HS	D	NL	GL	Z	S	Part number right-hand rotation
	12	25	75	2	8	7806.1225.0075.HS.R
	14	25	75	2	8	7806.1425.0075.HS.R
	16	25	75	2	8	7806.1625.0075.HS.R

V-point

HS	D	NL	GL	Z	S	Part number right-hand rotation
	12	20	80	2	8	7806.1220.X080.HS.R
	14	20	110	2	8	7806.1420.X011.HS.R

* deliverable while stocks last

721 MILLING CUTTER



inside rabbet / lining groove cutter •
two or three helical cutting edges • right-hand rotation •
parallel shank

designed for corner cleaning machines
e. g. elumatec • Urban • Wegoma

further dimensions on inquiry

two cutting edges • shank 6 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	5	24	68	2	6	7621.0524.0268.HS.R

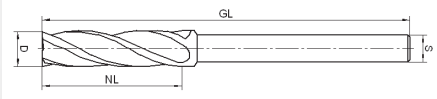
three cutting edges • shank 8 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	7	20	100	3	8	7821.0720.0310.HS.R
	7	20	120	3	8	7821.0720.0312.HS.R
	8	20	100	3	8	7821.0820.0310.HS.R
	8	20	120	3	8	7821.0820.0312.HS.R

three cutting edges • shank 10 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	8	25	100	3	10	7121.0825.0310.HS.R

739 ROUGHING CUTTER



four helical cutting edges • right-hand rotation •
chip breaking roughing teeth • parallel shank

for use on machining centres
e. g. elumatec • Stürtz • Rotox

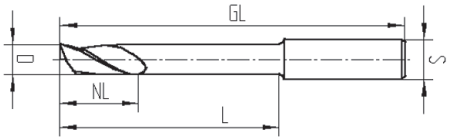
further dimensions on inquiry

shank 8 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	12	26	83	4	8	7839.1226.0483.HS.R

shank 10 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	13	53	110	4	10	7139.1353.0411.HS.R
	14	53	110	4	10	7139.1453.0411.HS.R



one helical cutting edge • right-hand rotation • narrow neck • parallel shank

for cutting and milling of aluminium and UPVC profiles, etc. on copying machines, water slot milling machines and machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid • Rotox • Striffler • Wegoma

further dimensions on inquiry

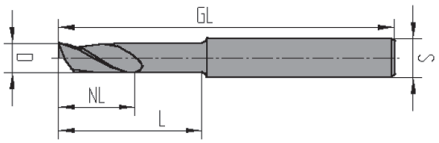
shank 8 mm

HS	D	NL	L	GL	Z	S	Part number right-hand rotation
	4	16	45	90	1	8	7803.0416.4590.HS.R
	5	14	25	120	1	8	7803.0514.2512.HS.R
	5	14	33	80	1	8	7803.0514.3380.HS.R
	5	14	33	120	1	8	7803.0514.3312.HS.R
	5	14	35	120	1	8	7803.0514.3512.HS.R
	5	16	45	90	1	8	7803.0516.4590.HS.R
	5	18	35	80	1	8	7803.0518.3580.HS.R
	5	18	35	100	1	8	7803.0518.3510.HS.R
	5	20	45	100	1	8	7803.0520.4510.HS.R
	5	40	60	100	1	8	7803.0540.6010.HS.R
	6	14	35	80	1	8	7803.0614.3580.HS.R
	6	16	45	90	1	8	7803.0616.4590.HS.R
	8	14	54	80	1	8	7803.0814.5480.HS.R
	8	14	68	100	1	8	7803.0814.6810.HS.R
	8	14	90	120	1	8	7803.0814.9012.HS.R
	8	30	70	100	1	8	7803.0830.7010.HS.R
	8	30	70	120	1	8	7803.0830.7012.HS.R

shank 10 mm

HS	D	NL	L	GL	Z	S	Part number right-hand rotation
	10	14	65	85	1	10	7103.1014.6585.HS.R
	10	14	75	96	1	10	7103.1014.7596.HS.R
	10	14	95	120	1	10	7103.1014.9512.HS.R
	10	30	70	100	1	10	7103.1030.7010.HS.R

* deliverable while stocks last



one helical cutting edge • right-hand rotation • narrow neck • parallel shank

for cutting and milling of aluminium and UPVC profiles, etc. on all kind of machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid • Rotox • Schüco • Striffler • Wegoma

further dimensions on inquiry

shank 6 mm

STC	D	NL	L	GL	Z	S	Part number right-hand rotation
	5	8	40	77	1	6	7613.0508.4077.VH.R
	6	10	40	77	1	6	7613.0610.4077.VH.R

shank 8 mm

STC	D	NL	L	GL	Z	S	Part number right-hand rotation
	4	15	35	80	1	8	7813.0415.3580.VH.R
	5	16	35	80	1	8	7813.0516.3580.VH.R
	5	20	45	90	1	8	7813.0520.4590.VH.R
	5	30	50	100	1	8	7813.0530.5010.VH.R
	5	40	50	100	1	8	7813.0540.5010.VH.R
	6	20	35	80	1	8	7813.0620.3580.VH.R
	8	14	70	100	1	8	7813.0814.7010.VH.R
	8	35	50	90	1	8	7813.0835.5090.VH.RW

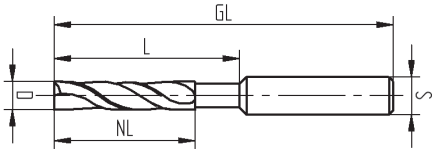
shank 10 mm

STC	D	NL	L	GL	Z	S	Part number right-hand rotation
	10	15	65	110	1	10	7113.1015.6511.VH.R
	10	20	70	100	1	10	7113.1020.7010.VH.R

shank 12 mm

STC	D	NL	L	GL	Z	S	Part number right-hand rotation
	12	20	70	100	1	12	7213.1220.7010.VH.R

723 MILLING CUTTER

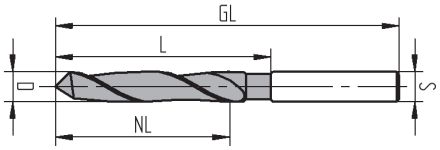


two helical cutting edges • right-hand or left-hand rotation • narrow neck • parallel shank 10 mm

for cutting and milling of aluminium and UPVC profiles, etc. on copying machines e. g. elumatec KF 178

HS	D	NL	L	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	10	22	40	100	2	10	7123.1022.4010.HS.L	-
	10	22	60	100	2	10	-	7123.1022.6010.HS.R
	10	22	70	120	2	10	-	7123.1022.7012.HS.R

726 WATER SLOT CUTTER



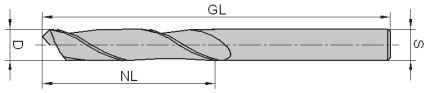
one helical cutting edge • drillbit • right-hand rotation • serrated grinding • narrow neck • parallel steel shank 8 mm

designed for CNC-machining centres
e. g. AFS-Federhenn • AFS-Schirmer • Rotox

STC	D	NL	L	GL	Z	S	Part number right-hand rotation
	5	30	50	100	1	8	7826.0530.5010.VS.RW

* deliverable while stocks last

720 WATER SLOT CUTTER



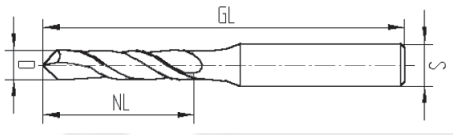
one helical cutting edge • drillbit 90° •
right-hand rotation • parallel shank

special design for CNC-machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid

further dimensions on inquiry

STC	D	NL	GL	Z	S	Part number right-hand rotation
	5	40	80	1	5	7520.0540.9080.VH.R
	5	40	80	1	8	7820.0540.9080.VH.R

705 WATER SLOT CUTTER



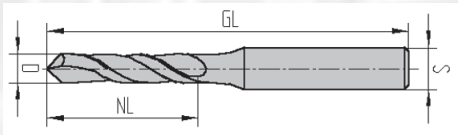
two helical cutting edges • drillbit 90° •
right-hand rotation • parallel shank 8 mm

for cutting and milling of UPVC profiles on water slot milling machines
e. g. elumatec • Haffner • Rotox • Striffler • Wegoma

further dimensions on inquiry

HS	D	NL	GL	Z	S	Part number right-hand rotation
	5	30	90	2	8	7805.0530.9090.HS.R
	5	40	100	2	8	7805.0540.9010.HS.R

715 WATER SLOT CUTTER



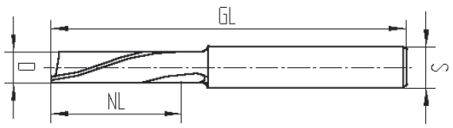
two helical cutting edges • drillbit 90° •
right-hand rotation • parallel shank 8 mm

for cutting and milling of UPVC profiles on machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid

further dimensions on inquiry

STC	D	NL	GL	Z	S	Part number right-hand rotation
	5	20	60	2	8	7815.0520.9060.VH.R
	5	30	90	2	8	7815.0530.9090.VH.R
	5	40	90	2	8	7815.0540.9090.VH.R
	5	40	100	2	8	7815.0540.9010.VH.R

707 WATER SLOT CUTTER



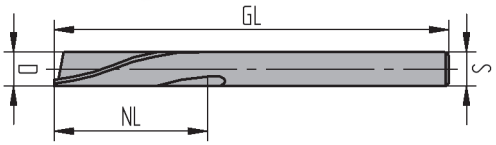
two cutting edges • LH spiral • RH cut •
parallel shank 8 mm

for cutting and milling of aluminium and UPVC profiles, etc.
on copying machines
e. g. elumatec • Haffner • Rapid • Rotox • Striffler • Wegoma

further dimensions on inquiry

HS	D	NL	GL	Z	S	Part number right-hand rotation
	5	15	70	2	8	7807.0515.0070.HS.LR
	5	25	80	2	8	7807.0525.0080.HS.LR

717 SINGLE FLUTE CUTTER



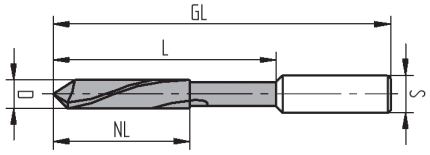
one cutting edges • LH spiral • RH cut •
parallel shank 5 mm

for cutting and milling of aluminium and UPVC profiles, etc.
on copying machines
e. g. elumatec • Haffner • Rapid • Rotox • Striffler • Wegoma

further dimensions on inquiry

STC	D	NL	GL	Z	S	Part number right-hand rotation
	5	20	60	1	5	7517.0520.0060.VH.LR
	5	25	60	1	5	7517.0525.0060.VH.LR
	5	40	80	1	5	7517.0540.0080.VH.LR

747 WATER SLOT CUTTER



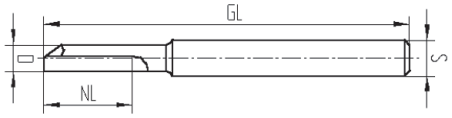
one helical cutting edge • drillbit • LH spiral • RH cut •
narrow neck • parallel steel shank 8 mm

designed for CNC-machining centres
e. g. AFS-Federhenn • AFS-Schirmer • Rotox

STC	D	NL	L	GL	Z	S	Part number right-hand rotation
	5	30	50	98	1	8	7847.0530.5098.VS.LR
	5	30	50	100	1	8	7847.0530.5010.VS.LRW

* deliverable while stocks last

708 WATER SLOT CUTTER



one straight cutting edge • without drillbit •
right-hand rotation • without chip thickness limitation •
parallel shank

for cutting and milling of aluminium and UPVC profiles, etc.
on copying machines, water slot milling machines
and machining centres
e. g. AFS-Schirmer • elumatec • Haffner • Rapid • Rotox •
Striffler • Wegoma

further dimensions on inquiry

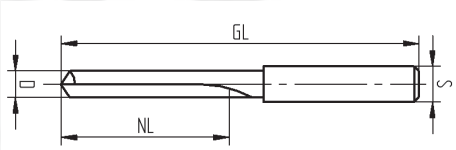
shank 8 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	4	25	100	1	8	7808.0425.0010.HS.R
	5	30	90	1	8	7808.0530.0090.HS.R
	5	30	100	1	8	7808.0530.0010.HS.R

shank 10 mm

HS	D	NL	GL	Z	S	Part number right-hand rotation
	5	30	100	1	10	7108.0530.0010.HS.R

709 WATER SLOT CUTTER



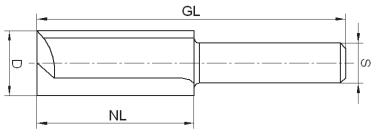
one straight cutting edge • with drillbit •
right-hand rotation • with chip thickness limitation •
parallel shank 8 mm

for cutting and milling of UPVC profiles on water slot
milling machines
e. g. elumatec • Haffner • Rotox • Striffler • Wegoma

further dimensions on inquiry

HS	D	NL	GL	Z	S	Part number right-hand rotation
	4	25	100	1	8	7809.0425.0010.HS.R
	5	30	100	1	8	7809.0530.0010.HS.R
	5	35	80	1	8	7809.0535.0080.HS.R
	5	35	100	1	8	7809.0535.0010.HS.R
	5	45	100	1	8	7809.0545.0010.HS.R
	5	55	100	1	8	7809.0555.0010.HS.R
	6	30	100	1	8	7809.0630.0010.HS.R
	6	45	100	1	8	7809.0645.0010.HS.R
	6	48	90	1	8	7809.0648.0090.HS.R

6805 LOCKSET CUTTER

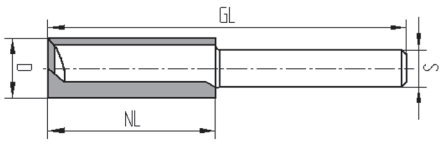


two straight cutting edges • right-hand rotation • parallel shank 8 mm

for milling and cutting mortices in manual feed (MAN)

HS	D	NL	GL	Z	S	Part number right-hand rotation
	8	30	100	2	8	6805.0830.0010.HS.R
	10	40	75	2	8	6805.1040.0075.HS.R
	12	40	75	2	8	6805.1240.0075.HS.R

6105 LOCKSET CUTTER



two straight cutting edges • right-hand or left-hand rotation • parallel shank 10 mm

for use on portable and stationary routers with manual feed (MAN)

for PVC, softwood and hardwood

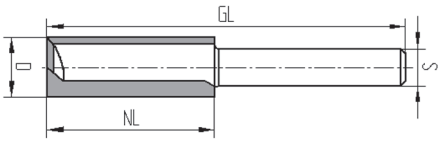
HS	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	5	15	60	2	10	-	6105.050.000.HS.R
	6	15	60	2	10	-	6105.060.000.HS.R
	8	30	70	2	10	6105.080.000.HS.L*	6105.080.000.HS.R
	10	35	75	2	10	-	6105.100.000.HS.R
	12	40	75	2	10	-	6105.120.000.HS.R
	13	40	75	2	10	-	6105.130.000.HS.R
	14	40	75	2	10	-	6105.140.000.HS.R
	16	40	75	2	10	-	6105.160.000.HS.R
	18	15	57	2	10	-	6105.180.150.HS.R
	18	40	75	2	10	-	6105.180.000.HS.R
	19	40	75	2	10	-	6105.190.000.HS.R
	20	40	75	2	10	-	6105.200.000.HS.R
	24	15	57	2	10	-	6105.240.150.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC	D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	4	10	49	2	10	-	6105.040.000.HW.R
	8	20	60	2	10	-	6105.080.000.HW.R
	10	25	70	2	10	-	6105.100.000.HW.R
	12	25	70	2	10	-	6105.120.000.HW.R
	14	25	70	2	10	-	6105.140.000.HW.R
	16	15	57	2	10	-	6105.160.150.HW.R
	16	25	70	2	10	-	6105.160.000.HW.R
	18	25	70	2	10	-	6105.180.000.HW.R
	20	25	70	2	10	-	6105.200.000.HW.R
	22	15	57	2	10	-	6105.220.150.HW.R
	22	25	70	2	10	-	6105.220.000.HW.R
	25	25	70	2	10	-	6105.250.000.HW.R

* deliverable while stocks last

6106 LOCKSET CUTTER



two straight cutting edges • right-hand rotation • parallel shank 10 mm

for use on portable and stationary routers with manual feed (MAN)

for PVC, softwood and hardwood

HS

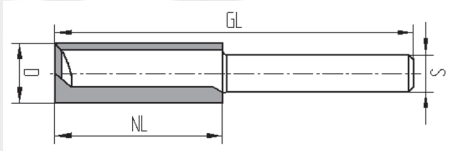
D	NL	GL	Z	S	Part number right-hand rotation
15	42	87	2	10	6106.150.000.HS.R
18	42	87	2	10	6106.180.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC

D	NL	GL	Z	S	Part number right-hand rotation
10	35	87	2	10	6106.100.000.HW.R
12	35	87	2	10	6106.120.000.HW.R
14	35	87	2	10	6106.140.000.HW.R
18	35	87	2	10	6106.180.000.HW.R

6107 LOCKSET CUTTER



two straight cutting edges • right-hand or left-hand rotation • parallel shank 10 mm

for use on portable and stationary routers with manual feed (MAN)

for PVC, softwood and hardwood

HS

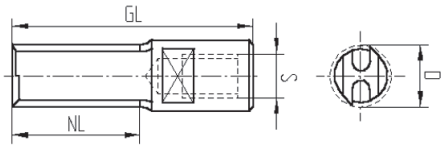
D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
10	40	97	2	10	6107.100.000.HS.L	6107.100.000.HS.R
12	48	97	2	10	-	6107.120.000.HS.R
14	48	97	2	10	-	6107.140.000.HS.R
16	48	97	2	10	-	6107.160.000.HS.R
18	48	97	2	10	-	6107.180.000.HS.R
20	48	97	2	10	-	6107.200.000.HS.R

for hardwood, wood composites and coated materials • TC plunge tip

TC

D	NL	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
11	40	97	2	10	-	6107.110.000.HW.R
12	40	97	2	10	-	6107.120.000.HW.R
14	40	97	2	10	-	6107.140.000.HW.R
18	45	97	2	10	-	6107.180.000.HW.R
22	45	97	2	10	-	6107.220.000.HW.R

640-7 GROOVING CUTTER

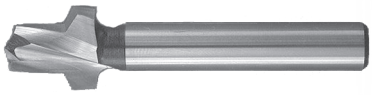


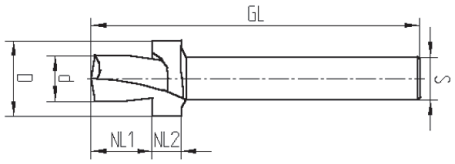
either one or two straight cutting edges • chip thickness limitation • right-hand rotation • shank internal thread M10 with spanner flat

for working UPVC profiles on e. g. Rotox • Striffler in manual feed (MAN)

HS	D	NL	GL	Z	S	Part number right-hand rotation
	3	8	52	1	IG M10	640-7.030.080.HS.R
	4	10	35	1	IG M10	640-7.040.100.HS.R
	4	12	52	1	IG M10	640-7.040.120.HS.R
	5	10	35	1	IG M10	640-7.050.100.HS.R
	5	23	52	1	IG M10	640-7.050.230.HS.R
	6	22	52	1	IG M10	640-7.060.220.HS.R
	8	26	47	2	IG M10	640-7.080.260.HS.R
	10	20	43	2	IG M10	640-7.100.200.HS.R
	10	30	50	2	IG M10	640-7.100.300.HS.R
	11,5	16	50	2	IG M10	640-7.115.160.HS.R
	12	14,5	43	2	IG M10	640-7.120.145.HS.R
	12	21	43	2	IG M10	640-7.120.230.HS.R
	12	38	58	2	IG M10	640-7.120.380.HS.R
	14	21	43	2	IG M10	640-7.140.210.HS.R
	14	30	51	2	IG M10	640-7.140.300.HS.R
	16	23	43	2	IG M10	640-7.160.230.HS.R
	18	23	43	2	IG M10	640-7.180.230.HS.R

7160 STEPPED CUTTER





two helical cutting edges • right-hand or left-hand rotation • special design • parallel shank 10 mm

for cutting casement bolts in aluminium and UPVC profiles, etc. on copying machines e. g. Rotox

further dimensions on inquiry

HS	d	NL1	D	NL2	GL	Z	S	Part number left-hand rotation	Part number right-hand rotation
	10,5	7	17,5	7	75	2	10	7160.105.775.HS.L	7160.105.775.HS.R
	10,5	12	17,5	7	75	2	10	7160.105.175.HS.L	7160.105.175.HS.R
	10,5	12	17,5	7	95	2	10	7160.105.950.HS.L	7160.105.950.HS.R

* deliverable while stocks last

ALPHABETICAL INDEX OF CONTENTS

GENERAL TERMS AND CONDITIONS

1	**General Terms and Conditions of Contract**
1.1	The acceptance and performance of orders are subject to our Business Terms and Conditions set forth below. Deviations must be agreed upon in writing. Unless the wording of the offer indicates differently, our offers are non-binding and subject to change.
1.2	Our Business Terms and Conditions are deemed acknowledged when an order is issued or a delivery accepted. Similarly, they are deemed acknowledged if order confirmations are not objected to.
1.3	Deviating business terms and conditions of the customer are not binding on us, including where we do not expressly object to them.
1.4	The customer grants us the right to rescind the contract if order performance is impossible as a result of force majeure, strikes, lock-outs, or similar unforeseen events.
1.5	The customer is liable for the accuracy of the documents provided to us, such as drawings, samples, etc.
1.6	Absent our express consent, our documents, such as drawings, samples, etc., may not be made accessible to others. Our express approval is required in order to reprint the content of the catalogue, including excerpts thereof.
1.7	For items offered or promised for delivery from the warehouse, we reserve the ability to make prior sales to others.
1.8	In the event that individual sections of the Business Terms and Conditions are ineffective, or if same are superseded by other agreements, the remaining contractual content remains unaffected thereby and is binding.
1.9	When new price documentation is issued, previous price lists, offers, etc. are no longer valid.

2	**Prices**
2.1	Unless other agreements were made for a certain delivery, the applicable deliver prices are those on the date of delivery.
2.2	Unless differently worded agreements were made, prices are in € (EUR), net of value-added tax, ex works and excluding packaging. Value-added tax is based on the tax law on the date of delivery. For small orders, a variable surcharge of up to € 30,00 net order value is charged per order.
2.3	Prices are applicable only for the specified normal performance. Deviations in terms of nature, construction, or sizes constitute custom-made products and are charged according to our determinations, including without express designation. Where follow-on orders are placed for custom-made products, no claim can be asserted for previous prices.
2.4	Modifications, special requests and cancellations that are made after contract conclusion may be separately charged in the amount of the incurred costs.
2.5	The customer bears any added costs for express shipment, insurance, etc. where it issued such special instructions.

3	**Delivery**
3.1	Details concerning delivery times are non-binding. Delivery dates are set by us with the requisite care. They are set by taking into consideration the foreseeable production processes on such date.
3.2	Delivery times begin to run on the date of order confirmation.
3.3	The delivery deadline is extended if unforeseen impediments occur (operational interruptions, delay in delivery by our input suppliers, etc.) that were unable to be avoided despite efforts.
3.4	If the scheduled delivery time, including where extended pursuant to 3.3, is exceeded by more than two months, the customer has the right to rescind the contract after setting a grace period of four weeks.
3.5	Unless expressly agreed otherwise, the customer declares that it is in agreement with partial deliveries and, in the case of custom-made products, with reasonable under- and over-deliveries. Each partial delivery is considered a separate transaction within the meaning of the Business Terms and Conditions.
3.6	Order cancellations and accruals require our written consent. Incurred costs must be reimbursed by the ordering party. Tools may be returned only with our consent. Custom-made products are not taken back. In the case of self-caused returns for credit, a processing fee of € 10,00 per item is charged.
3.7	Shipments are generally dispatched at the customer's risk and expense.

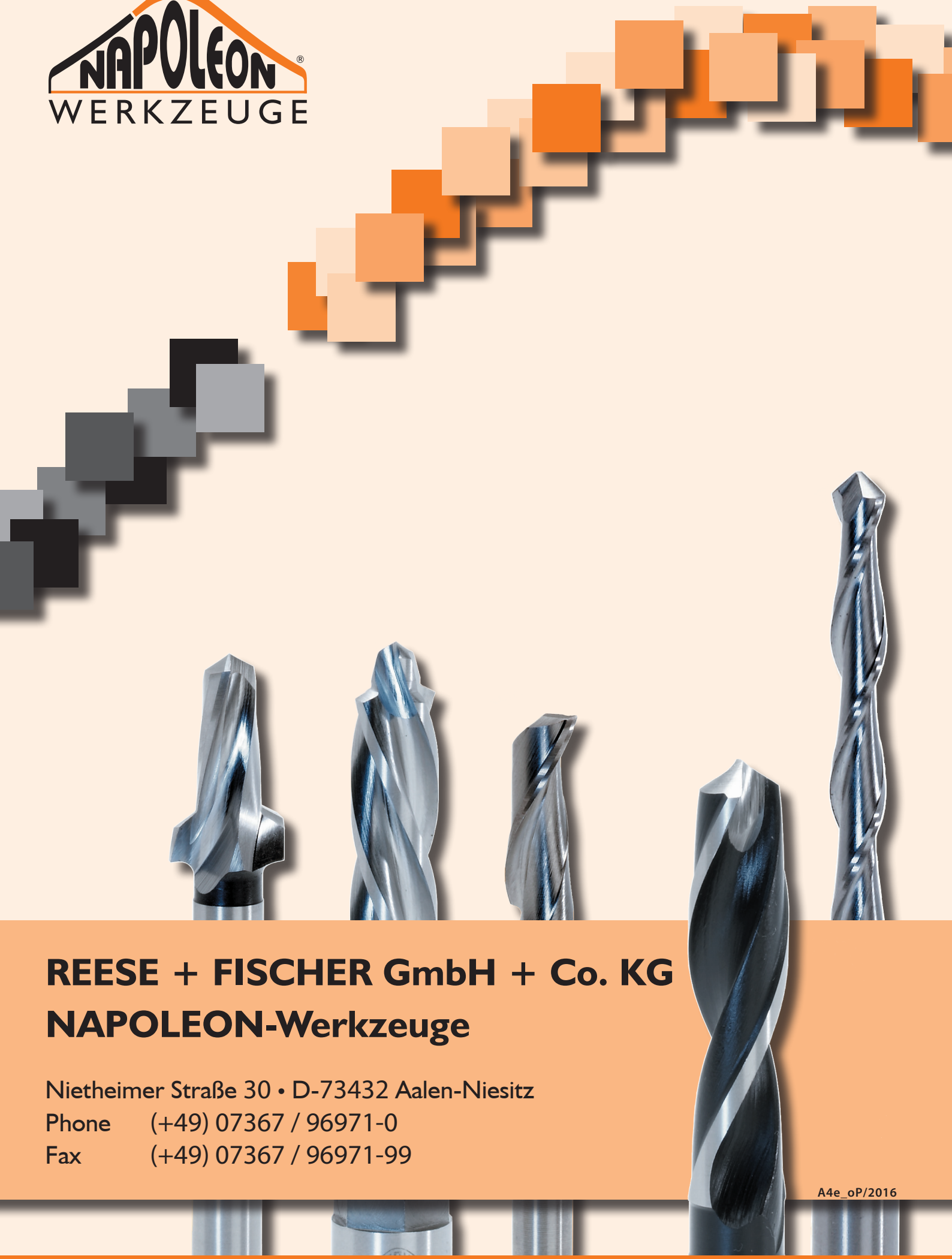
4	**Payment terms**
4.1	Our invoices are due and payable within 30 days, net. Repairs are immediately due and payable without deduction.
4.2	Cheques and bills of exchange are accepted in lieu of payment, but they do not constitute payment until collection. Discounts and collection fees are for the buyer's account and are immediately due and payable.
4.3	In the case of default in payment, we are entitled to charge incurred costs and customary bank interest.
4.4	If the customer is in default in payment, we are entitled to withhold outstanding deliveries or to make same against prepayment or cash on delivery. Promised delivery dates may be extended accordingly.
4.5	The buyer may not withhold payments or offset contested counter-claims.

5	**Warranty • Liability • Objections to defects**
5.1	We guarantee the delivery of flawless tools, proper performance and steel quality according to the catalogue description. Because of technical progress, we must make reservations for deviations in images, drawings, etc.
5.2	Technical changes and deviations from the catalogue description, image, etc. give the right to complaints only if they constitute an obstacle to the contract purpose. The same also applies to flaws that do not interfere with the intended use of a good.
5.3	Objections must be made within one week of receipt of the goods. The reason for the objection must be described in detail. In the case of flaws that are not immediately discernible, written notice must be given promptly after they become discernible.
5.4	We are not liable for latent defects (e. g. material flaws, etc.) or for defects caused by wear and tear, excessive use, improper handling, unauthorised changes, or improper maintenance.
5.5	For justified objections to defects, we reserve the right to cure or make replacement delivery. Claims of any nature for compensation of damages, including consequential damages, are precluded, other in cases of gross negligence on our part.

6	**Retention of title**
6.1	The customer's right to use the goods or to sell them in the normal of course of business lapses with the suspension of payments. If the customer is in default in payment, we may revoke this right with respect to the unpaid goods. The purchaser is not permitted to pledge the delivered goods or to assign them for the purposes of security. We must be immediately notified in the event of liens or seizures by a third party. In the event that a good is resold, the purchaser thereupon assigns its claim to us against the acquirer in the amount of the invoice (extended retention of title).

7	**Place of performance • Place of jurisdiction**
7.1	D-73432 Aalen-Niesitz is the place of performance for delivery and payment. The place of jurisdiction is the one with statutory competence over us. Under given circumstances, we reserve the ability to bring suit at the customer's place of jurisdiction. All legal relationships are subject exclusively to German law.

NAPOLEON®
WERKZEUGE



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