wirutex
hi-tech tools

Catalogue

Router Bits & Boring Bits

P2023


wirutex

Wirutex designs and manufactures tools in polycrystalline diamond and tungsten carbide for machining wood and latest generation materials.

It was set up in 1980 in Pesaro, which at the time was the most important furniture district in Italy, as a small company specializing in the sharpening, maintenance and resale of tools for machining wood.

Right from the start, passion, curiosity and an innate desire to develop new technology were the company's hallmarks. The most significant turning point came at the end of the 1980s: the first prototype of a polycrystalline diamond tool was produced. This marked the beginning of a new era focused on the manufacturing of diamond tools.

Today Wirutex is a point of reference in the development of high-tech tools for the furniture industry and for excellent craftsmanship, products and solutions for CNC machining centres, squaring and edge banding lines and panel sizing centres.

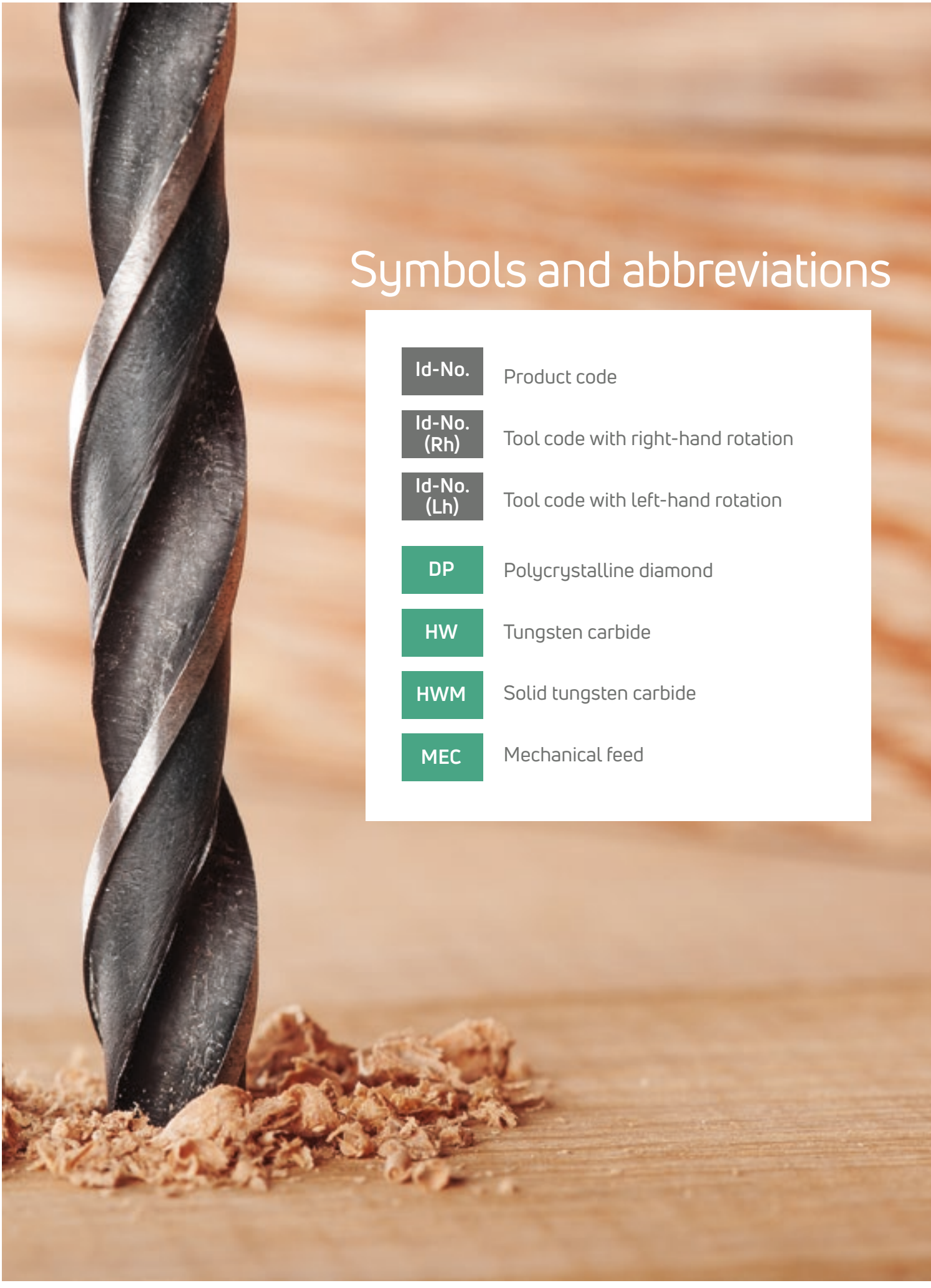
A special shade of green signifies excellence

Most of the Wirutex tools are green; a special, carefully selected green which makes them easy to recognize worldwide.

Certified quality

To guarantee the highest safety and quality standards, Wirutex certifies its products and operating procedures.

To find out more, go to the Certifications section of the website wirutex.com/certifications/



Symbols and abbreviations

Id-No.	Product code
Id-No. (Rh)	Tool code with right-hand rotation
Id-No. (Lh)	Tool code with left-hand rotation
DP	Polycrystalline diamond
HW	Tungsten carbide
HWM	Solid tungsten carbide
MEC	Mechanical feed

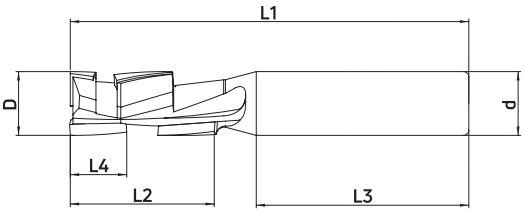
Summary

Router Bits

NEW-Mini Z=1+1

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

Machining operations on chipboard and MDF, both faced and raw.

DESIGN

HW plunging tip.

MINI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 1.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Feed speed: up to 15 m/min

Max. rpm: 18,000 - 24,000

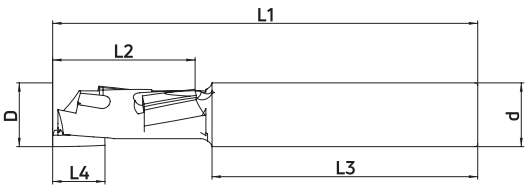
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
10	27	10	12	40	75	1+1	10°	24,000	S14461
12	27	10	12	40	75	1+1	15°	24,000	P03770
12	35	10	12	40	83	1+1	15°	24,000	P03790
16	27	10	16	50	85	1+1	20°	24,000	P03810
16	35	10	16	50	95	1+1	20°	24,000	P03830
16	44	10	16	50	105	1+1	20°	24,000	P03850
18	27	10	20	50	85	1+1	25°	24,000	P03870
18	35	10	20	50	95	1+1	25°	24,000	P03890
18	44	10	20	50	105	1+1	25°	24,000	P03910
20	27	10	20	50	85	1+1	25°	24,000	P03930
20	35	10	20	50	95	1+1	25°	24,000	P03950
20	44	10	20	50	105	1+1	25°	24,000	P03970
20	52	10	20	50	112	1+1	25°	18,000	P03990

NEW-Mini Z=1+1

body in solid tungsten carbide

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

Machining operations on chipboard and MDF, both faced and raw.

DESIGN

Socket-head cutting edge with body in HWM.

MINI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 1.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Feed speed: up to 20 m/min

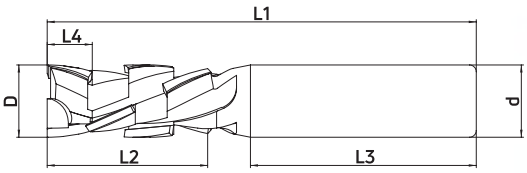
Max. rpm: 18,000 - 24,000

D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
8	21	10	8	45	70	1+1	15°	24,000	ES0201
8	27	10	8	50	80	1+1	15°	18,000	ES0203
10	21	10	10	45	70	1+1	15°	24,000	ES0209
10	27	10	10	50	80	1+1	15°	18,000	ES0211
10	36	10	10	50	90	1+1	15°	18,000	ES0213
10	45	10	10	50	100	1+1	15°	18,000	ES0215
12	21	10	12	45	70	1+1	15°	24,000	ES0217
12	27	10	12	50	80	1+1	15°	24,000	ES0219
12	36	10	12	50	90	1+1	15°	18,000	ES0221
12	45	10	12	50	100	1+1	15°	18,000	ES0223

NEW-Mini Z=2+2

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

Machining operations on chipboard and MDF, both faced and raw.

DESIGN

HW plunging tip.

MINI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 1.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Longer life than the NEW Mini Z=1+1.

Feed speed: up to 20 m/min

Max. rpm: 18,000 - 24,000

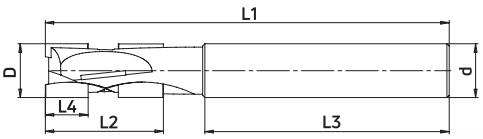
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
16	27	10	16	50	85	2+2	25°	24,000	P04010
16	35	10	16	50	95	2+2	25°	24,000	P04030
16	44	10	16	50	105	2+2	25°	24,000	P04050
18	27	10	20	50	85	2+2	25°	24,000	P04070
18	35	10	20	50	95	2+2	25°	24,000	P04090
18	44	10	20	50	105	2+2	25°	24,000	P04110
20	27	10	20	50	85	2+2	25°	24,000	P04130
20	35	10	20	50	95	2+2	25°	24,000	P04150
20	44	10	20	50	105	2+2	25°	24,000	P04170
20	52	10	20	50	112	2+2	25°	18,000	P04190

NEW-Mini Z=2+2

body in solid tungsten carbide

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring and sizing.

Machining operations on raw chipboard, faced chipboard, raw and faced MDF.

DESIGN

Socket-head cutting edge in HWM.

MINI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 1.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Longer life than NEW-Mini Z=1+1

Feed speed: up to 15 m/min

Max. rpm: 24,000

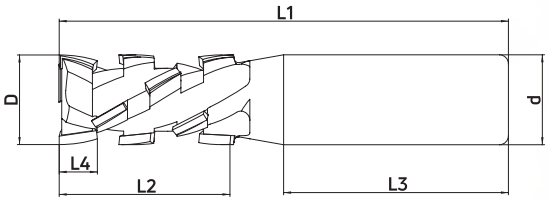
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
12	18	9.5	12	45	70	2+2	6°	24,000	S17053
12	25	9.5	12	45	75	2+2	6°	24,000	S17054
14	33	9.5	16	50	90	2+2	6°	24,000	S17055
14	41	9.5	16	50	95	2+2	6°	24,000	S17056

TiGi-D.20

cutting edges angle 30°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

Machining operations on raw chipboard, faced chipboard and faced MDF.
Extreme versatility - can be used on a range of materials.

DESIGN

DP plunging tip.

MINI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 1.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Good cutting quality.

Feed speed: up to 20 m/min

Max. rpm: 18,000 - 24,000

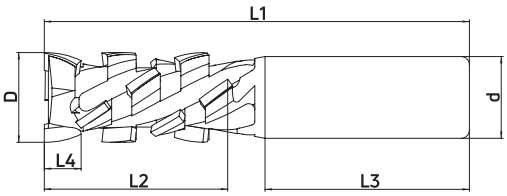
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
20	27	9.5	20	50	85	2+2	30°	24,000	S13584
20	36	9.5	20	50	95	2+2	30°	24,000	S13586
20	46	9.5	20	50	105	2+2	30°	24,000	S13588
20	57	9.5	20	50	115	2+2	30°	24,000	S13590
20	65	9.5	20	50	125	2+2	30°	18,000	S14530

TiCi-D.20

cutting edges angle 35°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing; for finger joints and rebating.

Machining operations on raw chipboard, faced chipboard and faced MDF.

DESIGN

DP plunging tip.

MED-type tips in DP.

Positive and negative shear angle.

Sharpening area: 2.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Optimum cutting quality.

Feed speed: up to 25 m/min

Max. rpm: 24,000

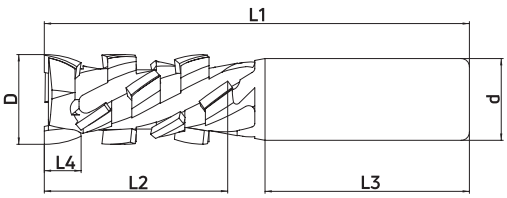
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
20	25	9	20	50	85	2+2	35°	24,000	S14481
20	35	9	20	50	95	2+2	35°	24,000	S14483
20	45	9	20	50	105	2+2	35°	24,000	S14485
20	55	9	20	50	115	2+2	35°	24,000	S14487
20	55	14	20	50	115	2+2	35°	24,000	S14489
20	25	9	25	60	95	2+2	35°	24,000	S14491
20	35	9	25	60	105	2+2	35°	24,000	S14493
20	45	9	25	60	115	2+2	35°	24,000	S14495
20	55	9	25	60	125	2+2	35°	24,000	S14497
20	55	14	25	60	125	2+2	35°	24,000	S14499

TiCi-D.22

cutting edges angle 35°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing; for finger joints and rebating.

Machining operations on raw chipboard, faced chipboard and faced MDF.

DESIGN

DP plunging tip.

MED-type tips in DP.

Positive and negative shear angle.

Sharpening area: 2.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Optimum cutting quality.

Feed speed: up to 25 m/min

Max. rpm: 18,000 - 24,000

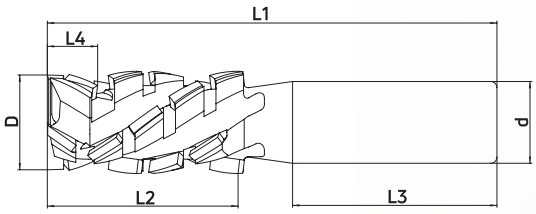
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
22	25	10	20	50	85	2+2	35°	24,000	S13612
22	35	10	20	50	95	2+2	35°	24,000	S13616
22	45	10	20	50	105	2+2	35°	24,000	S13618
22	60	10	20	50	120	2+2	35°	18,000	S13622
22	60	14	20	50	120	2+2	35°	18,000	S14501
22	65	10	20	50	125	2+2	35°	18,000	S13624
22	65	14	20	50	125	2+2	35°	18,000	S14503
22	25	10	25	60	97	2+2	35°	24,000	S13626
22	35	10	25	60	105	2+2	35°	24,000	S13630
22	45	10	25	60	115	2+2	35°	24,000	S13632
22	60	10	25	60	130	2+2	35°	18,000	S13636
22	60	14	25	60	130	2+2	35°	18,000	S14505
22	65	10	25	60	135	2+2	35°	18,000	S13638
22	65	15	25	60	135	2+2	35°	18,000	S14532

TiCi-D.25

cutting edges angle 35°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring and sizing.

Machining operations on raw chipboard, faced chipboard and faced MDF workpieces.

DESIGN

HW plunging tip.

MED-type tips in DP.

Positive and negative shear angle.

Sharpening area: 2.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Optimum cutting quality.

Feed speed: up to 25 m/min

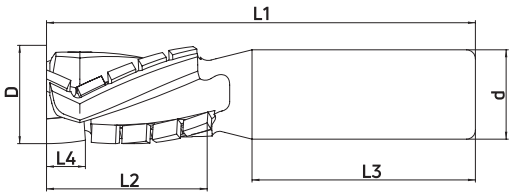
Max. rpm: 24,000

D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
25	37	10	20	50	100	2+2	35°	24.000	S12655
25	47	10	20	50	110	2+2	35°	24.000	S12649
25	57	10	20	50	120	2+2	35°	24.000	S12645
25	69	10	20	50	130	2+2	35°	24.000	S12636
25	37	10	25	60	110	2+2	35°	24.000	S13602
25	47	10	25	60	120	2+2	35°	24.000	S13604
25	57	10	25	60	130	2+2	35°	24.000	S13608
25	69	10	25	60	140	2+2	35°	24.000	S13610

NEW-helical multicutting router bit

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring and sizing.

Machining operations on melamine, raw chipboard, faced chipboard and faced MDF.

Extreme versatility - can be used on a range of materials.

DESIGN

DP plunging tip.

MAXI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 3.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Feed speed: up to 25 m/min

Max. rpm: 24,000

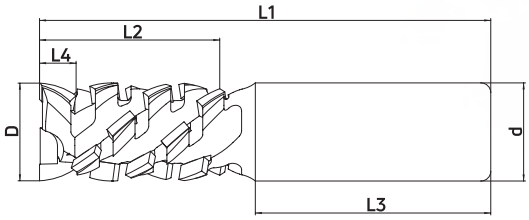
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
22	28	10	20	50	87	3+3	35°	24,000	S14473
22	36	10	20	50	95	3+3	35°	24,000	S14475
22	44	10	20	50	103	3+3	35°	24,000	S14477
25	28	10	25	55	92	3+3	35°	24,000	S14479
25	36	10	25	55	100	3+3	35°	24,000	S14573
25	44	10	25	55	108	3+3	35°	24,000	S14575

QuGi-D.25

cutting edges angle 45°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing; for finger joints and rebating.

Machining operations on raw chipboard, faced chipboard and faced MDF workpieces with gloss and laminate coatings, along with plywood and solid wood workpieces.

DESIGN

DP plunging tip.

MAXI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 3.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Optimum cutting quality.

Feed speed: up to 30 m/min

Max. rpm: 24,000

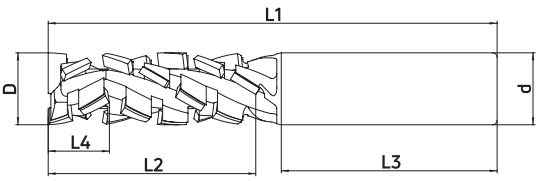
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
25	25	9	20	50	85	2+2	45°	24,000	S11946
25	36	9	20	50	100	2+2	45°	24,000	S12079
25	45	9	20	50	110	2+2	45°	24,000	S11944
25	45	16	20	50	110	2+2	45°	24,000	S13550
25	53	9	20	50	120	2+2	45°	24,000	S13522
25	53	16	20	50	120	2+2	45°	24,000	S13552
25	69	9	20	50	130	2+2	45°	24,000	S13534
25	69	16	20	50	130	2+2	45°	24,000	S13536

Batch-One

heavy metal body

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres, cutting centres, NextStep.

For contouring, boring and sizing; for finger joints and rebating.

Machining operations on MDF, coated MDF, chipboard, melamine and plywood workpieces.

DESIGN

DP plunging tip.

MED-type tips in DP.

Heavy metal body.

Positive and negative shear angle.

Sharpening area: 2.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 3 mm

Optimum cutting quality.

Feed speed: up to 25 m/min

Max. rpm: 24,000

Recommended for use on hydro and heat shrink chucks.

Max. panel thickness (mm)	D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)	Id-No. (Lh)
20÷22	14	25	9.5	16	50	80	2+2	30°	24,000	S14061*	S14062*
20÷28	16	30	10	16	50	85	2+2	30°	24,000	S14059	S14060
30	16	35	14	16	50	90	2+2	30°	24,000	S15690*	S15691*
35	16	45	13	16	50	100	2+2	30°	24,000	S14193	S14194
40	18	45	14	20	50	100	2+2	30°	24,000	S15692*	S15693*
50	20	55	14	20	50	110	2+2	30°	24,000	S15694*	S15695*
65	20	70	10	20	50	130	2+2	30°	24,000	S14053	S14054
60	22	65	14	20	50	120	2+2	30°	24,000	S15696*	S15697*

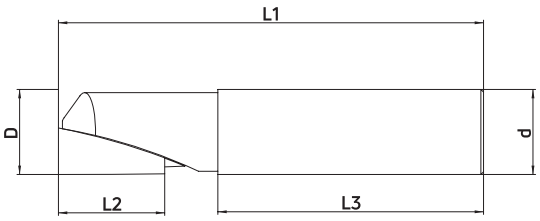
* Recommended by **BIESSE** for NEXTSTEP cutting centre

Whole tip Z=1

body in solid tungsten carbide

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For finger joints and rebating.

Machining operations on chipboard and MDF without melamine facing, with facing in laminate, corian, HPL and stratified materials.

DESIGN

DP tip.

Body in solid tungsten carbide.

Sharpening area: 3.0 mm

NOTES

Feed speed: from 5 to 10 m/min

Max. rpm: 18,000 - 24,000

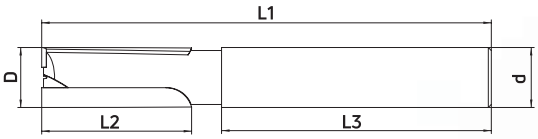
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
6	12	6	47	60	1	24,000	S14463
8	16	8	53	70	1	24,000	S14465
10	22	10	53	80	1	24,000	S14467
12	26	12	50	80	1	24,000	S14469
16	30	16	50	85	1	18,000	S14471

Whole tip Z=2

body in solid tungsten carbide

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For finger joints and rebating.

Machining operations on chipboard, MDF, derivates.

DESIGN

DP tips.

Body in solid tungsten carbide.

Sharpening area: up to 3.0 mm

NOTES

Feed speed: from 3 to 20 m/min

Max. rpm: 24,000 - 36,000

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
6	10	6	50	60	2	36,000	S16155
6	18	6	50	70	2	24,000	S16201
8	12	8	45	60	2	36,000	S16156
8	16	8	45	70	2	24,000	S17051
10	14	10	45	65	2	36,000	S16157
10	25	10	45	75	2	24,000	S16203
12	16	12	45	65	2	36,000	S16158
12	25	12	45	75	2	24,000	S16204
16	20	16	45	75	2	36,000	S16159
16	35	16	45	85	2	24,000	S16205

Advanced

Cutter with whole tip Z=2 specific for machining operations on highly abrasive materials, phenolic, Corian, plywood.

DESIGN

DP tips.

Body in solid tungsten carbide.

Sharpening area: up to 3.0 mm

NOTES

Feed speed: from 3 to 10 m/min

Max. rpm: 24,000 - 36,000

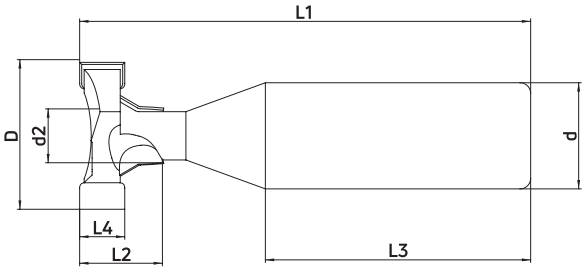
ThermoGrip chuck is recommended.

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
6	10	6	50	60	2	36,000	S16210
6	18	6	50	70	2	24,000	S15265
8	12	8	45	60	2	36,000	S16209
8	16	8	45	70	2	24,000	S17052
8	20	8	45	70	2	24,000	S15266
10	14	10	45	65	2	36,000	S16208
10	25	10	45	75	2	24,000	S15352
12	16	12	45	65	2	36,000	S16207
12	25	12	45	75	2	24,000	S15353
16	20	16	45	75	2	36,000	S16206
16	35	16	45	85	2	24,000	S15354

Router bit for “T” grooves

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For grooved profiling.

Machining operations on raw chipboard, faced chipboard and faced MDF workpieces, as well as laminates and workpieces with gloss coatings.

DESIGN

DP tips.

Positive and negative shear angle.

NOTES

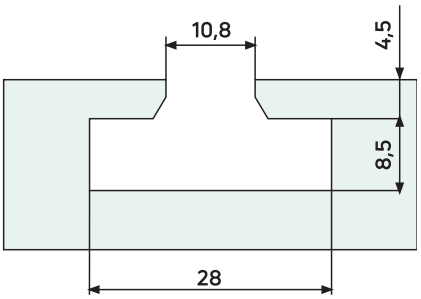
Feed speed: up to 10 m/min

Max. rpm: 18,000

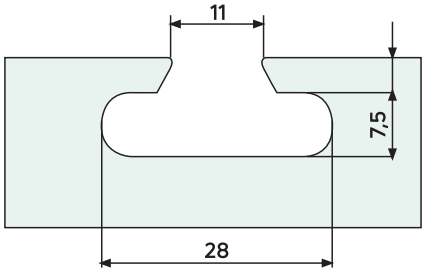
D (mm)	d2 (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	α	Max. rpm	Id-No. (Rh)
28	10.8	15.6	8.5	20	50	85	2+2	0°/15°	18,000	S14570
28	11	15	7.5	20	55	79	2+2	0°/15°	18,000	S14571
33.8	11.3	15	9.9	20	55	77	2+2	0°/15°	18,000	S14572

PROFILE EXAMPLES

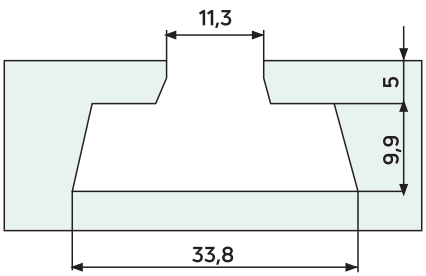
S14570



S14571



S14572

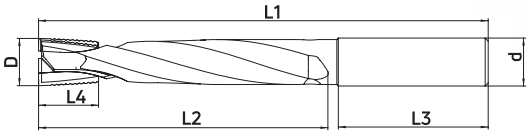


Helical router bit for locks

body in solid tungsten carbide

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

Machining operations on solid wood and its derivatives.

DESIGN

DP tips.

Body in solid tungsten carbide.

NOTES

Feed speed: up to 3 m/min

Max. rpm: 14,000

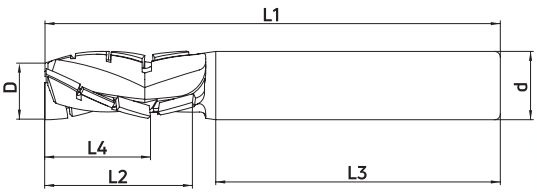
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
16	90	20	16	50	150	2	14,000	ES0185

Nesting ECO

heavy metal body

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For CABINET nesting.

Machining operations on MDF and melamine.

DESIGN

DP plunging tip.

Heavy metal body.

Sharpening area: 2.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 2 mm

Feed speed: up to 20 m/min

Max. rpm: 24,000

D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
12	16	10	12	40	70	3+1	24,000	S13494
12	21	13	12	45	75	3+1	24,000	S13492
12	26	18	12	45	80	3+1	24,000	S13490
14	30	22	12	48	85	3+1	24,000	S13456
16	35	28	16	50	95	3+1	24,000	S13988

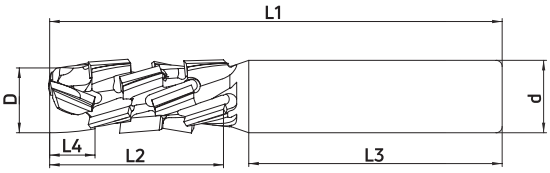
Recommended for **AEROTECH®**

Nesting HP

heavy metal body

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For CABINET nesting.

Machining operations on MDF, melamine and plywood and coated plywood workpieces.

DESIGN

DP plunging tip.

Heavy metal body.

Sharpening area: 1.0 mm

NOTES

Minimal workable workpiece thickness = L4 + 2 mm

Feed speed: up to 20 m/min

Max. rpm: 24,000

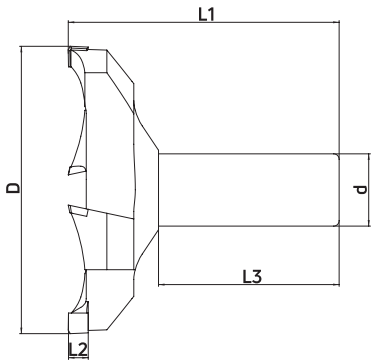
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
12	23	7.5	12	42	70	3	24,000	S14599
12	28.5	7.5	12	42	75	3	24,000	S14300
14	34	7.5	12	42	80	3	24,000	S14600

Recommended for **AEROTECH®**

Planing cutter for support panel

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For planing.

Machining operations on MDF support panel.

DESIGN

MED-type tips in DP.

Positive and negative shear angle.

Sharpening area: 2.0 mm

NOTES

Feed speed: up to 20 m/min

Max. rpm: 16,500

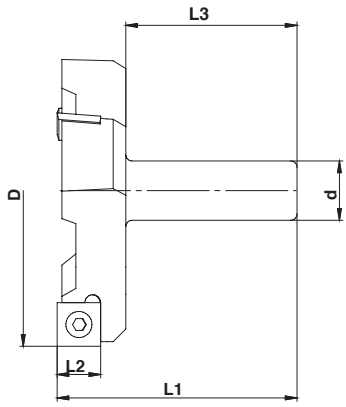
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
60	5.5	20	50	75	4	12°	16,500	S14414
80	5.5	20	50	75	4	15°	16,500	S14160
100	5.5	20	55	90	6	12°	12,000	S16112

Planing cutter with interchangeable knives

for support panel

HW

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For planing.

Machining operations on MDF support panel.

DESIGN

Cutter with interchangeable knives in HW.

NOTES

Feed speed: up to 15 m/min

Max. rpm: 12,000/18,000

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
60	12	12	50	77	3	18,000	C05171
80	12	20	60	77	3	16,000	C05172
100	12	20	50	77	4	12,000	C06477

	Id-No.
Spare knife 12x12x1.5	C02787

Cutters for profile grooves

P-System® Lamello® Clamex P®

Diamond tools and accessories for P-System® groove cutting and Clamex P® connectors made by Lamello®.
To obtain the P-System® profile, it is necessary to perform a profiled milling cut on the panel. This machining operation can be performed using a cutter with bore or with a cylindrical shank cutter, fitted onto a CNC machining centre or on the manual milling machine Lamello® Zeta P2.

Grooving cutter

DP

MACHINES / APPLICATIONS

CNC machining centres
and Lamello® Zeta P2.
For cutting grooves for P- System® Clamex P® connectors by Lamello®.

DESIGN

Tips in DP.

DIMENSIONS	Id-No.
D. 100.4x7x 22 mm Z=3	S15191

Grooving shank-type cutter

DP

Side view

Top view

MACHINES / APPLICATIONS

5 axis CNC machining centres.

For routing P-System® profile for Clamex P® connectors by Lamello®.

DESIGN

Tips in DP.

DIMENSIONS	Id-No.
D. 10x18 Sh. 12x50 mm Z=1 RH rot.	ES0253

Shank-type adaptor

MACHINES / APPLICATIONS

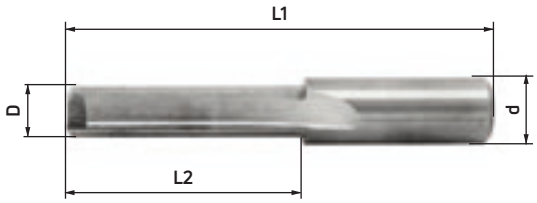
Shank-type adaptor for use of the grooving cutter **S15191** on CNC machining centres.

DIMENSIONS	Id-No.
D. 25x60 L.91.8 mm	S16163

Straight cutting edge router bit Z=2+1

HWM

MEC



MACHINES / APPLICATIONS

Per CNC machining centres.

For boring and contouring.

Machining operations on solid wood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

1 socket-head cutting edge in HW.

2 cutting edges in HW.

NOTES

*Made from special high-resistance steel.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	10	9.5	48	2	C02168
4	10	9.5	48	2	C02169
5	12	9.5	39	2	C00287
6	14	9.5	41	2	C00372
7	16	9.5	43	2	C02170
8	18	9.5	48	2	C00373
8	30	9.5	60	2	C01359
9	20	9.5	52	2	C02171
10*	22	9.5	52	2	C00374
10*	35	9.5	65	2	C02121
11*	26	9.5	52	2	C01544
12*	26	9.5	52	2	C02797

Router bit with positive helical cutting edges Z=1

HWM

MEC

MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on hardwood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

HW positive helical cutting edge.

NOTES

Improved finish on lower side of workpiece.

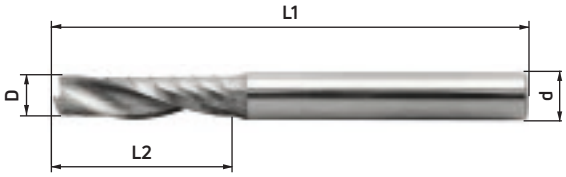
Chips discharged upwards.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	1	C01824
4	15	4	50	1	C01825
5	17	5	50	1	C01826
6	22	6	60	1	C01827
8	22	8	70	1	C01823
8	32	8	80	1	C05361
10	32	10	70	1	C01828
10	42	10	80	1	C05362
10	52	10	90	1	C04904
12	32	12	80	1	C01829

Upcut spiral bit Z=1

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on hardwood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

HW positive helical cutting edge.

NOTES

Improved finish on lower side of workpiece.

Chips discharged upwards.

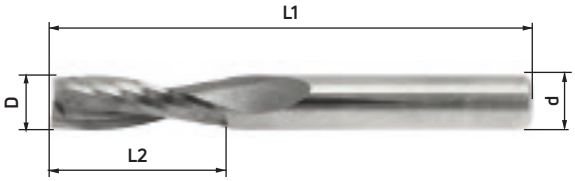
D (inches)	L2 (inches)	d (inches)	L1 (inches)	Z	Id-No. (Rh)
1/8	1/2	1/4	2	1	C06058
3/16	5/8	1/4	2	1	C06059
1/4	3/4	1/4	2	1	C06060
1/4	1	1/4	2-1/2	1	C06061
3/8	1-1/8	3/8	3	1	C06062

Router bit with positive helical cutting edges Z=2

for finishing

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

2 positive helical cutting edges in HW.

NOTES

Chips discharged upwards.

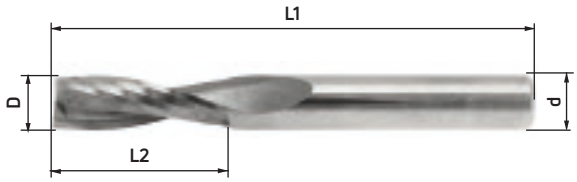
Improved finish on lower side of workpiece.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	2	D00106
3	12	6	60	2	D01762
3	12	8	60	2	D02589
4	15	4	50	2	D00107
4	15	6	60	2	D01763
4	15	8	60	2	D00700
5	17	5	50	2	D00105
5	17	6	60	2	D03560
5	17	8	60	2	D02590
6	27	6	70	2	D00108
6	27	8	70	2	D01905
7	32	8	80	2	D03116
8	22	8	70	2	D00463
8	32	8	80	2	D00980
8	42	8	90	2	D03010
10	32	8	80	2	D00109
10	42	10	90	2	D01221
12	35	8	80	2	D00110
12	42	12	90	2	D00663
12	52	12	100	2	D03011
14	50	14	110	2	D00854
16	35	16	90	2	D00856
16	55	16	110	2	D00855
16	72	16	120	2	D04109
20	60	20	120	2	D00857

Upcut spiral bit Z=2

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

2 positive helical cutting edges in HW.

NOTES

Chips discharged upwards.

Improved finish on lower side of workpiece.

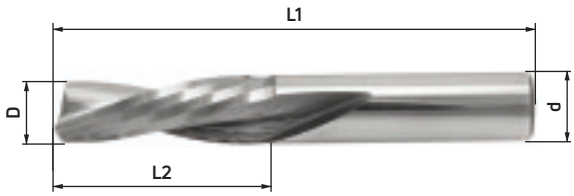
D (inches)	L2 (inches)	d (inches)	L1 (inches)	Z	Id-No. (Rh)
1/8	1/2	1/4	2	2	C06048
5/32	1/2	1/4	2	2	C06049
3/16	3/4	1/4	2	2	C06050
1/4	3/4	1/4	2	2	C06051
1/4	1	1/4	2-1/2	2	C06052
5/16	1	1/2	3	2	C06053
3/8	1-1/4	1/2	3-1/4	2	C06054
1/2	1-1/4	1/2	3	2	C06055
1/2	1-1/2	1/2	3-1/2	2	C06056
1/2	2	1/2	4	2	C06057

Router bit with negative helical cutting edges Z=2

for finishing

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

2 negative helical cutting edges in HW.

NOTES

Excellent finish on upper side of workpiece.

Chips discharged downwards.

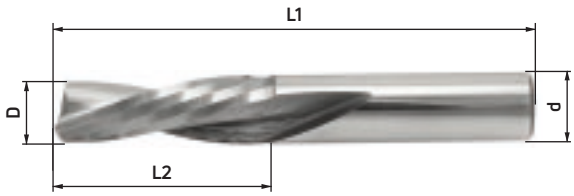
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	2	D00858
3	12	6	60	2	D04110
3	12	8	60	2	D01632
4	15	4	50	2	D00859
4	15	6	60	2	D01886
4	15	8	60	2	D01887
5	17	5	50	2	D00860
5	17	6	60	2	C03339
5	17	8	60	2	D04111
6	27	6	70	2	D00861
6	27	8	70	2	C05256
8	22	8	70	2	D00862
8	32	8	80	2	D01331
8	42	8	90	2	D03562
10	32	10	80	2	D00821
10	42	10	90	2	D04112
12	35	12	80	2	D00863
14	52	14	110	2	D03984
16	55	16	110	2	D00864

Downcut spiral bit Z=2

for finishing

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

2 negative helical cutting edges in HW.

NOTES

Excellent finish on upper side of workpiece.

Chips discharged downwards.

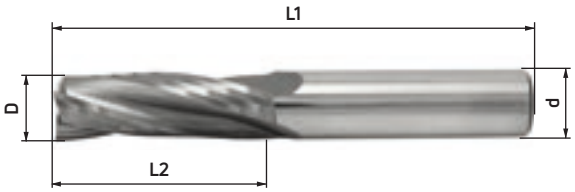
D (inches)	L2 (inches)	d (inches)	L1 (inches)	Z	Id-No. (Rh)
1/8	1/2	1/4	2	2	C06063
5/32	1/2	1/4	2	2	C06064
3/16	3/4	1/4	2	2	C06065
1/4	3/4	1/4	2	2	C06066
1/4	1	1/4	2-1/2	2	C06067
5/16	1	1/2	3	2	C06068
3/8	1-1/4	1/2	3-1/4	2	C06069
1/2	1-1/4	1/2	3	2	C06070
1/2	1-1/2	1/2	3-1/2	2	C06071
1/2	2	1/2	4	2	C06072

Router bit with positive helical cutting edges Z=3

for finishing

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives.

DESIGN

Body in HWM.

3 positive helical cutting edges in HW.

NOTES

Optimal finish of the machined surface.

Improved finish on lower side of workpiece.

Chips discharged upwards.

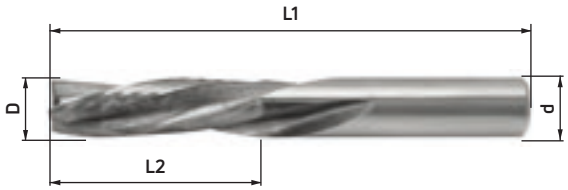
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
8	32	8	80	3	C02154
10	32	10	80	3	C01687
10	42	10	90	3	C02155
12	35	12	80	3	C01688
12	42	12	90	3	C02156
12	52	12	100	3	C05363
14	58	14	110	3	C02157
16	35	16	90	3	C02158
16	55	16	110	3	C00390
16	72	16	120	3	C05364
18	55	18	110	3	C02159
20	60	20	120	3	C02160
20	70	20	120	3	C01584

Router bit with negative helical cutting edges Z=3

for finishing

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives.

DESIGN

Body in HWM.

3 negative helical cutting edges in HW.

NOTES

Optimal finish of the machined surface.

Excellent finish on upper side of workpiece.

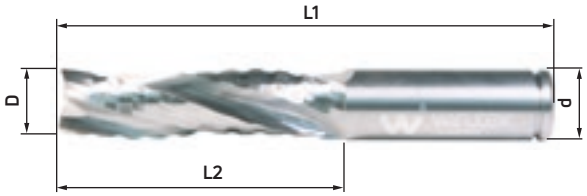
Chips discharged downwards.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
10	32	10	80	3	C02161
10	42	10	90	3	C03343
12	35	12	80	3	C02162
12	42	12	90	3	C05365
14	50	14	110	3	C02163
16	35	16	90	3	C02165
16	55	16	110	3	C02164
18	55	18	110	3	C02166
20	60	20	120	3	C02167
20	72	20	120	3	C05366
20	102	20	165	3	C05245

Challenge

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives.

DESIGN

Body in HWM.

3 positive helical cutting edges with chipbreaker.

NOTES

High quality finish on the entire workpiece.

Chips discharged upwards.

Seeger housing, from 12 mm diameter.

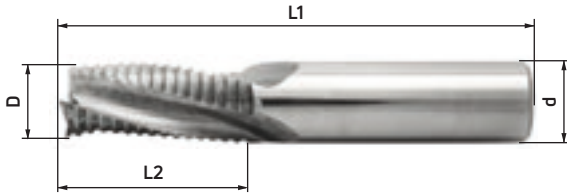
Challenge combines the function of a chip breaker tool with that of a finishing cutter.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
8	32	8	80	3	C05921
8	42	8	90	3	C05922
10	32	10	80	3	C05923
10	42	10	90	3	C05924
12	35	12	80	3	C05925
12	42	12	90	3	C05926
12	52	12	100	3	C05927
14	58	14	110	3	C05928
16	35	16	90	3	C05929
16	55	16	100	3	C05930
16	62	16	110	3	C05384
18	55	18	110	3	C05931
20	60	20	120	3	C05932
20	72	20	120	3	C05933
20	102	20	165	3	C05934

Router bit with positive helical cutting edges Z=3 with chipbreaker

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives.

DESIGN

Body in HWM.

3 positive helical cutting edges with chipbreaker in HW.

NOTES

Excellent finish on lower side of workpiece.

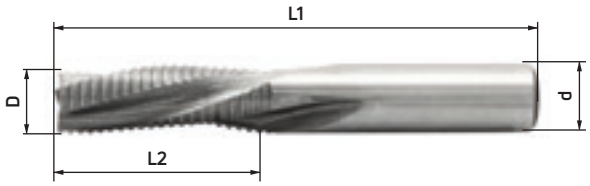
Chips discharged upwards.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
8	32	8	80	3	D00831
8	42	8	90	3	D04113
10	32	10	80	3	D00819
10	42	10	90	3	D00724
12	35	12	80	3	D00099
12	42	12	90	3	D00680
12	52	12	100	3	D04114
14	58	14	110	3	D00111
16	35	16	90	3	D00759
16	55	16	110	3	D00112
16	72	16	120	3	D05321
18	55	18	110	3	D00113
20	60	20	120	3	D00114
20	72	20	120	3	D01330
20	102	20	165	3	D04058

Router bit with negative helical cutting edges Z=3 with chipbreaker

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives.

DESIGN

Body in HWM.

3 negative helical cutting edges with chipbreaker in HW.

NOTES

Improved finish on upper side of workpiece.

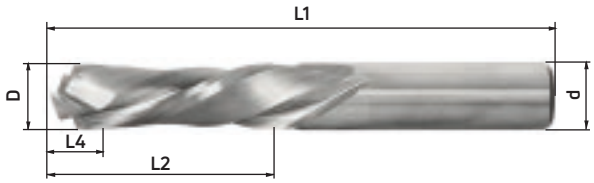
Chips discharged downwards.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
8	32	8	80	3	D00849
10	42	10	90	3	D00850
12	35	12	80	3	D00851
12	42	12	90	3	D04115
12	52	12	100	3	D04116
14	50	14	110	3	D00820
16	55	16	110	3	D00807
18	55	18	110	3	D00852
20	60	20	120	3	D00853
20	72	20	120	3	D04117

Router bit with positive and negative helical cutting edges Z=1+1, Z=2+2

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on hardwood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

1 positive and 1 negative helical cutting edge in HW (Z=1+1).

2 positive and 2 negative helical cutting edges in HW (Z=2+2).

NOTES

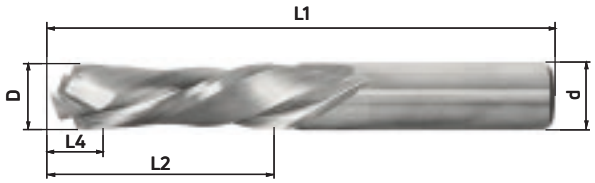
Excellent finish on both sides of the workpiece.

D (mm)	L2 (mm)	L4 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
4	15	7	4	50	1+1	C05367
5	22	8	5	60	1+1	C05368
6	22	8	6	60	1+1	C05369
8	32	7	8	80	2+2	C02708
10	32	7	10	80	2+2	C02799
10	42	7	10	90	2+2	C05370
12	42	7	12	90	2+2	C02800
12	52	7	12	100	2+2	C05371
16	55	24	16	110	2+2	C02677
18	55	30	18	110	2+2	C02633

Up-Downcut spiral bit

HWM

MEC



MACHINES / APPLICATIONS

For CNC machining centres, point-to-point boring machines.

For contouring, profiling and sizing.

Machining operations on hardwood and its derivatives, laminates and plastic materials.

DESIGN

Body in HWM.

2 positive and 2 negative helical cutting edges (Z =2+2).

3 positive and 3 negative helical cutting edges (Z =3+3).

NOTES

Excellent finish on both sides of the workpiece.

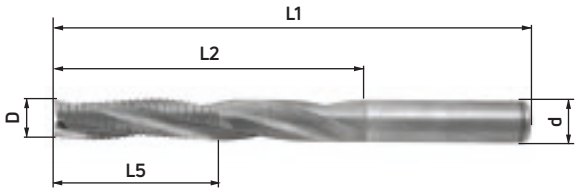
D (inches)	L2 (inches)	L4 (inches)	d (inches)	L1 (inches)	Z	Id-No. (Rh)	
3/8	1-1/8	9/32	3/8	3	2+2	C02798	
3/8	1-1/8	9/32	3/8	3	2+2	C06034	DLC coated
1/2	1	15/32	1/2	3	2+2	C02801	
1/2	1	15/32	1/2	3	2+2	C06035	DLC coated
1/2	1-1/8	15/32	1/2	3	2+2	C02802	
1/2	1-1/8	15/32	1/2	3	2+2	C06036	DLC coated
1/2	1-3/8	15/32	1/2	3-1/2	2+2	C02803	
1/2	1-3/8	15/32	1/2	3-1/2	2+2	C06037	DLC coated
1/2	1-5/8	15/32	1/2	4	2+2	C02804	
1/2	1-5/8	15/32	1/2	4	2+2	C06038	DLC coated
3/8	7/8	3/16	3/8	3	2+2	C06039	
3/8	7/8	3/16	3/8	3	2+2	C06040	DLC coated
1/2	7/8	13/64	1/2	3	2+2	C06041	
1/2	7/8	13/64	1/2	3	2+2	C06042	DLC coated
1/2	1-3/8	13/64	1/2	3-1/2	2+2	C06043	
1/2	1-3/8	13/64	1/2	3-1/2	2+2	C06044	DLC coated
3/8	1	13/64	3/8	3	3+3	C05696	
3/8	1	13/64	3/8	3	3+3	C06045	DLC coated
1/2	1-1/8	15/64	1/2	3	3+3	C06046	
1/2	1-1/8	15/64	1/2	3	3+3	C06047	DLC coated

Positive helical router bit Z=3 with chipbreaker

for locks

HWM

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, profiling and sizing.

Machining operations on solid wood and its derivatives.

DESIGN

Body in HWM.

3 positive helical cutting edges with chipbreaker.

NOTES

Max. surface roughness 0.3 mm

Improved finish on lower side of workpiece.

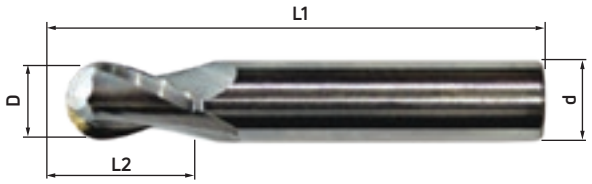
Chips discharged upwards.

D (mm)	L2 (mm)	L5 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
14	95	45	14	150	3	C04124
14	120	45	14	170	3	C05372
16	95	45	16	150	3	C02752
16	120	50	16	170	3	C05373
18	95	45	18	150	3	C04578

Round nose upcut spiral bit

HWM

MEC



MACHINES / APPLICATIONS

For CNC routers, machining centres, point-to-point boring machines.

For ripping, sizing and routing.

Machining operations on solid wood, wood composites, plastic materials and laminates.

DESIGN

2 positive cutting edges.

NOTES

Excellent finish on the lower side of the panel.

Upward chip ejection.

D (inches)	L2 (inches)	d (inches)	L1 (inches)	Z	Id-No. (Rh)
1/8	1/2	1/4	2	2	C06073
1/4	1	1/4	2-1/2	2	C06074
3/8	1-1/8	3/8	3	2	C06075
1/2	1-1/4	1/2	3	2	C06076
5/8	2-1/4	5/8	4-5/16	2	C06077
3/4	2-1/4	3/4	4-5/16	2	C06078

Heat shrink chuck

HSK63F shank

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

DESIGN

For thermal coupling.

HSK63F shank.

NOTES

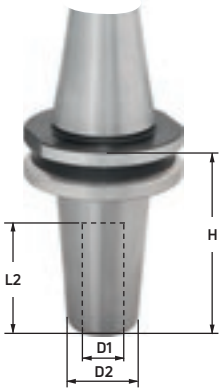
Suitable for high-speed machining operations.

D1 (mm)	D2 (mm)	H (mm)	Id-No.
12 G6	28	75	C04891
16 G6	28	75	C04892
20 G6	36	75	C04893
25 G6	36	75	C04894
6 h6	21	80	C05851
8 h6	21	80	C05653
10 h6	24	85	C05966

Heat shrink chuck

ISO30 shank

MEC



MACHINES / APPLICATIONS

Chuck for machining wood.

DESIGN

For thermal coupling.

ISO30 shank.

NOTES

Suitable for high-speed machining operations.

D1 (mm)	D2 (mm)	H (mm)	L2 (mm)	Id-No.
12	28	80	47	C05326
16	28	80	50	C05327
20	36	80	52	C05328

DESCRIPTION

Retaining stud.

Machines	Retaining stud (mm)	Id-No.
Biesse	⌀ 12 - 8	C03754
Biesse with Omlat engine, Bulleri, Busellato, CMS, IMA	⌀ 13 - 9	C03755
Alberti, Masterwood	⌀ 12.8 - 9	C05138
Morbidelli, SCM	⌀ 8.5	C05139

Compact hydro chuck

HSK63F shank

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

DESIGN

HSK63F shank.

Compact, robust design.

H=75 for all diameters.

NOTES

Easy tool changes.

Excellent finishing.

Max. rpm: 25,000

D1 (mm)	D2 (mm)	H (mm)	L2 (mm)	Id-No.
12	43,5	75	40	C06646
16	48	75	50	C06647
20	52	75	52	C06648
(inches)	**(inches)**	**(inches)**	**(inches)**	
1/2"	0.866	2.953	1.575	C06649
5/8"	1.024	2.953	1.969	C06650
3/4"	1.181	2.953	2.047	C06651

Hydro chuck

HSK63F shank

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

DESIGN

Compact, robust design.

HSK63F shank.

Safety device which prevents the tool from falling when the pressure fails.

The router bits should be equipped with adjustment screws.

NOTES

Easy tool changes.

Excellent finishing.

Max. rpm: 25,000

D1 (mm)	D2 (mm)	H (mm)	L2 (mm)	Id-No.
12	32	87	61	C04376
16	38	87	61	C04914
20	40	99	73	C04915
25	45	103	77	C03729

Chuck for precision collet

HSK63F shank

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

For **Biesse, SCM, Essetre, Homag, IMA** machines (9/94)

DESIGN

HSK63F shank.

*Ringhut with ball bearing.

NOTES

To be used with ER32 or ER40 collet.

D (mm)	H (mm)	Collet	Id-No. (Rh)
50	70	ER32	C02127E
63	80	ER40	C02135E
50	70	ER32	*C06262
63	80	ER40	*C05307

Chuck for precision collet

HSK63F shank - **STAINLESS STEEL**

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

For **Biesse, SCM, Essetre, Homag, IMA** machines (9/94)

DESIGN

In STAINLESS STEEL.

HSK63F shank.

NOTES

To be used with ER32 or ER40 collet.

Stainless steel ensures resistance to corrosion and to shocks, scratches and chipping.

D (mm)	H (mm)	Collet	Id-No. (Rh)
50	70	ER32	C05303
63	80	ER40	C05305

Chuck for precision collet

ISO30 conical shank

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

For **Biesse, Cosmec, Masterwood** machines.

DESIGN

ISO30 shank.

NOTES

To be used with ER32 or ER40 collet.

D (mm)	H (mm)	Collet	Id-No. (Rh)
50	50	ER32	C00079
63	57	ER40	C00083

Chuck for precision collet

ISO30 conical shank - **STAINLESS STEEL**

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

For **Biesse, Cosmec, Masterwood** machines.

DESIGN

In STAINLESS STEEL.

ISO30 shank.

NOTES

To be used with ER32 or ER40 collet.

Stainless steel ensures resistance to corrosion and to shocks, scratches and chipping.

D (mm)	H (mm)	Collet	Id-No. (Rh)
50	50	ER32	C05237
63	57	ER40	C05239

Chuck for precision collet

ISO30 conical shank

MEC

MACHINES / APPLICATIONS

Chuck for machining wood.

For SCM and MORBIDELLI machines.

DESIGN

ISO30 shank.

NOTES

To be used with ER32 collet.

D (mm)	H (mm)	Collet	Id-No. (Rh)
50	55	ER32	C00100

Chuck for saw blades

HSK63F

MEC

MACHINES / APPLICATIONS

For CNC machining centres.

DESIGN

HSK63F shank.
With flange.

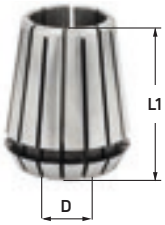
NOTES

See table for saw blades Id-No.

Description	D (mm)	H (mm)	L1 (mm)	Id-No.
HSK63F + Flange for saw blade Ø 300	100	95	126	C04226
HSK63F + Flange for saw blade Ø 550	100	56	87	C06358

Blade (HW)	Id-No.
Ø300x3.2x50+6+1 Z=24 alternate tooth	D03298
Ø300x3.2x50+6+1 Z=36 alternate tooth	D03835
Ø300x3.2x50+6+1 Z=48 alternate tooth	D03563
Ø300x3.2x50+6+1 Z=60 alternate tooth	D03993
Ø300x3.2x50+6+1 Z=72 alternate tooth	D04093

ER32 precision collet



MACHINES / APPLICATIONS

For chucks with HSK63F, ISO30 and assembled flange ISO30 shank.

DESIGN

Interchangeable biconical collet with interspersed and contrasting axial grooves.

NOTES

Can be adapted to most conical chucks.

D		L1	Id-No.
(mm)	(inches)	(mm)	
3	-	40	C00051
4	-	40	C00052
5	-	40	C00053
6	-	40	C00054
6.35	1/4	40	C06514
7	-	40	C00055
8	-	40	C00056
9	-	40	C00057
9.52	3/8	40	C06515
10	-	40	C00058
11	-	40	C00046
12	-	40	C00059
12.7	1/2	40	C00047
14	-	40	C00060
15	-	40	C00061
16	-	40	C00048
17	-	40	C00062
18	-	40	C00063
19.05	3/4	40	C00064
20	-	40	C00045

ER40 precision collet

MACHINES / APPLICATIONS

For chucks with HSK63F, ISO30 and assembled flange ISO30 shank.

DESIGN

Interchangeable biconical collet with interspersed and contrasting axial grooves.

NOTES

Can be adapted to most conical chucks.

D		L1	Id-No.
(mm)	(inches)	(mm)	
3	-	46	C05787
4	-	46	C00065
5	-	46	C01548
6	-	46	C00066
6.35	1/4	46	C06516
7	-	46	C01546
8	-	46	C00067
9.52	3/8	46	C06517
10	-	46	C00068
12	-	46	C00069
12.7	1/2	46	C01547
14	-	46	C00070
16	-	46	C00071
18	-	46	C00072
19.05	3/4	46	C01441
20	-	46	C00073
25	-	46	C00074

Universal adjustable disassembly device

MACHINES / APPLICATIONS

For assembly and disassembly of tools on chuck body.

DESIGN

Flange rotation from 0° to 90°. Basement with 4 holes.

NOTES

Mount and fix the disassembly device on the workbench.

DESCRIPTION	Id-No.
For ISO30 tool holder - flange D. 50	SR0001
For HSK63F tool holder - flange D. 63	SR0002

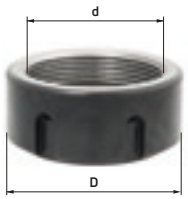
Ring nut for chuck for precision collet

MACHINES / APPLICATIONS

Collect tightening ring nut.

DESIGN

*Ring nut with ball bearings.



Tipo	D (mm)	d	Id-No. (Rh)	Id-No. (Lh)
ER32	50	M40X1,5	C00089	C00090
ER32	50	M40X1,5	*C04927	*C05132
ER40	63	M50X1,5	C00093	C03706
ER40	63	M50X1,5	*C05133	*C05134

Torque wrenches

Torque wrenches are the ideal tool for tightening screws and bolts to the correct torque value (Nm). They guarantee an even tightening load, stop incorrect screwing which can cause the tool to come out or, on the contrary, stop an excessive clamping force damaging the ring nut.

Torque wrench for ER32 - ER40 ring nut

RING NUT	D (mm)	L (mm)	Id-No.
ER32	50	400	CD0001
ER40	63	450	CD0002

Torque hook wrench

RING NUT	D (mm)	L (mm)	Id-No.
DIN 6388/E0C25	58-62	380	CD0003

Key wrench for ER32 and ER40 ring nut

DESCRIPTION	Id-No.
For ER32 ring nut	C05131
For ER40 ring nut	C02253

Hook wrench for ER40 ring nut

DESCRIPTION	Id-No.
For ER40 ring nut	C03789

Spindle wiper

To remove chips and dirt from the tool holder seat.

DESCRIPTION	Id-No.
ISO30/BT30	TP0001
HSK63 B-D-F	TP0002

Collet wiper

To clean the collet seat.

DESCRIPTION	Id-No.
ER32-ETS32-DIN6499	TP0003
ER40-ETS40-DIN6499	TP0004
EOC25-DIN3688	TP0005

Brushes kit

DESCRIPTION	Id-No.
4 cleaning brushes for collet with bore 3÷25	SE0001

Digital caliper for cutters Z=3

Digital caliper for measuring the diameter of router bits Z=3

DESCRIPTION

Measuring range: 4,00 mm ÷ 40,00 mm
Resolution: 0,01 mm/0,0005
Accuracy: ± 0,05 mm/± 0,002
Repeatability: 0,01 mm/0,0005
Max measurement speed: 1,5 m/s - 60 in/s
Operating temperature: 0°C - 40°C
Storage temperature: -10°C - 60°C Power: 1,5V SR44 - 1 bactery

MEASURING RANGE	Id-No.
4÷40 mm	CA0001

Preset P368LR/HSK63F

Precision tool setting instrument to set or adjust the tools before their use on CNC centres. It measures both the diameter and height of the tools. The measurements shown in the display can be set directly in the machine to reduce machine downtime.

ADVANTAGES

Possibility to set up to 4 machine origins.
Considerable cutback of tooling-up times.
It measures all types of tools.
No need of electrical plug.
Large diplay, easy to read.
One touch conversion mm/inch
Interchangeable cone holders. High precision magnetic strip for measurement detection.

MEASURING RANGE	Id-No.
H 300 mm - D. 250 mm	PR0001

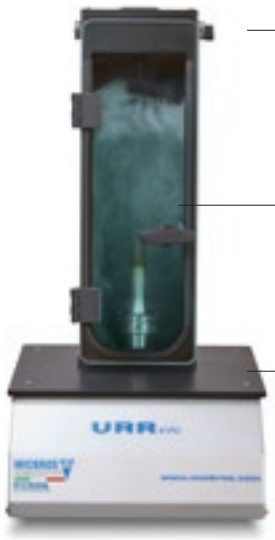
Gauge for linear measurements

Gauge made of chromium-plate steel with laser inscribed scale. It has been designed for measuring wood panels widths and lenghts.
Precision of 0,1 mm

DESCRIPTION	Id-No.
L= 0÷1000	CA0002
L= 0÷1500	CA0003
L= 0÷2000	CA0004
L= 0÷2500	CA0005

Rapid Cooling Unit

Cooling technology that maintains the tool-holder characteristics unaltered over time and prevents structural deformation. Quickly cools the spindle without engaging the shrinking machine.

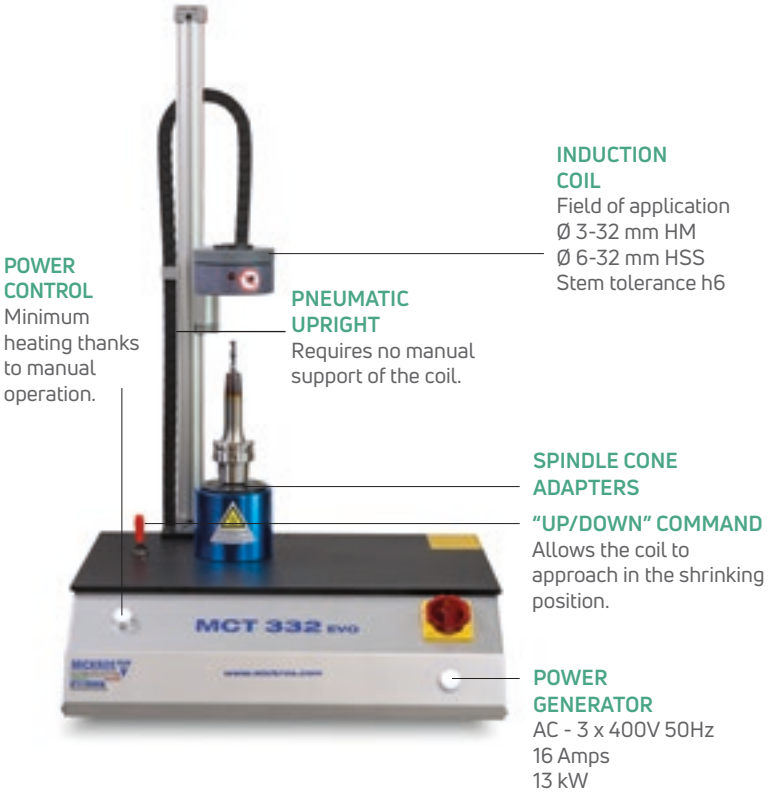


ID-No. MA0002

DIMENSIONS: Approx. 360 x 480 x 690 mm
WEIGHT: Approx. 27 Kg

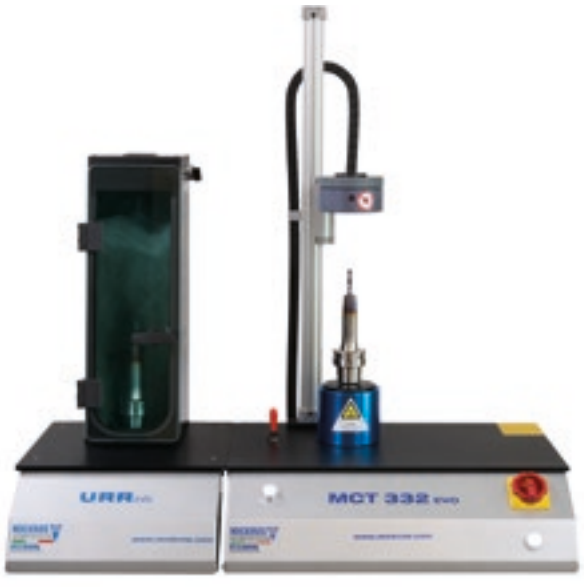
Shrinking machine

Magnetic induction shrinking device for HSS and HM tools. Hot shrinking takes place in just a few seconds. Extremely easy use and maintenance.
No overheating of the cone or tool.



ID-No. MA0001

WORKING FIELD: Maximum coil upright stroke: h=600 mm
DIMENSIONS: Approx. 600 x 550 x 990 mm
WEIGHT: Approx. 31 Kg



WATCH THE VIDEO TO FIND OUT HOW THE SHRINKING AND COOLING PROCESS WORKS.

Shrinking machine and Cooling unit

Machinery that combines the magnetic induction shrinking process and cooling technology in one single solution.

- The cooling cycle is activated without any manual movement of the tool-holder, thanks to a manual start button.
- At the end of the timed cooling cycle, the tool-holder is automatically repositioned on the machine table and can be handled in total safety.
- The cooling time is calibrated to cool tool-holders with a more critical mass in the heating zone.

PNEUMATIC UPRIGHT
Requires no manual support of the coil.

INDUCTION COIL
Field of application
Ø 3-32 mm HM
Ø 6-32 mm HSS
Stem tolerance h6

SPINDLE CONE ADAPTERS

"UP/DOWN" COMMAND
Allows the coil to approach in the shrinking position

SHRINK POWER CONTROL
Minimum heating thanks to manual operation.

START COMMAND FOR THE OOLING CYCLE

POWER GENERATOR
AC - 3 x 400V 50Hz
16 Amps
13 kW

ID-No. MA0003

WORKING FIELD: Maximum coil upright stroke: h=600 mm / Maximum cooling height h = 500 mm
DIMENSIONS: Approx. 920 X 800 x 1950 mm
WEIGHT: Approx. 175 Kg

Dust Free:
a winning operation.

- **IMPROVED** health
- **GREATER** energy savings
- **MORE** productivity
- **MORE** useful life for the tools
- **LESS** maintenance

Aerotech®

Dust Free Nesting and Routing

Dust free nesting and routing

Aerotech® is a revolutionary tooling solution combining a **high-precision chuck and an extraction turbine** in one single product.

A revolutionary idea that **facilitates the removal of MDF and chipboard dust** chips during nesting and routing operations.

Aerotech® **captures the dust and chips**, channelling them towards the machine suction system.

Watch the film-clip of machining operations carried out with Aerotech®.

The Faceplate

All the Aerotech® models are available in **Plus** versions with an integrated Faceplate grille.

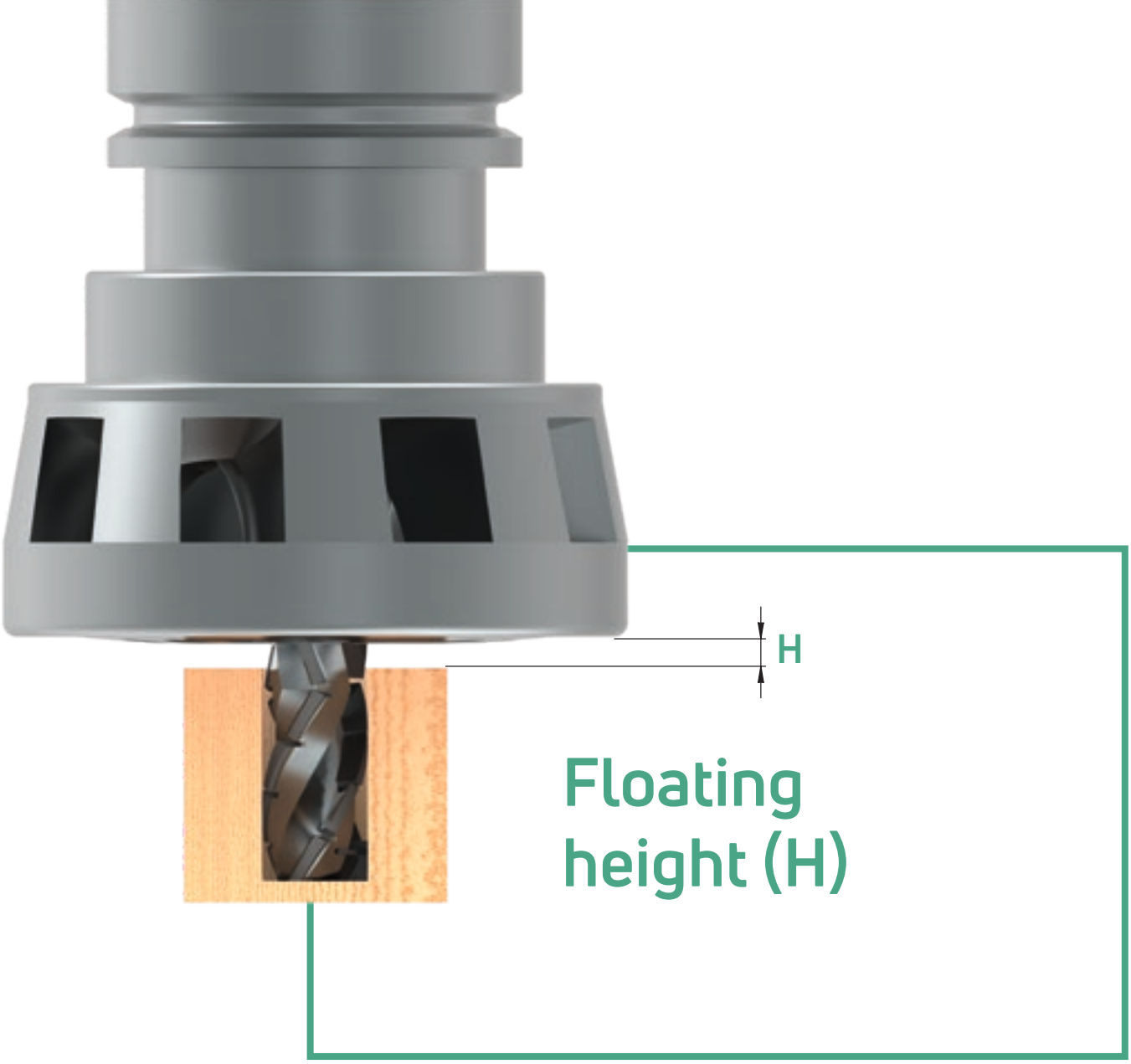
The Faceplate is a patented grille that prevents the machining chips from entering and jamming the Aerotech®; it also acts as a defensive shield, protecting the Aerotech® from accidental damage.

That's why it's highly recommended in particular for all those machining operations that produce chips.

*Cannot be used with profiled tools.

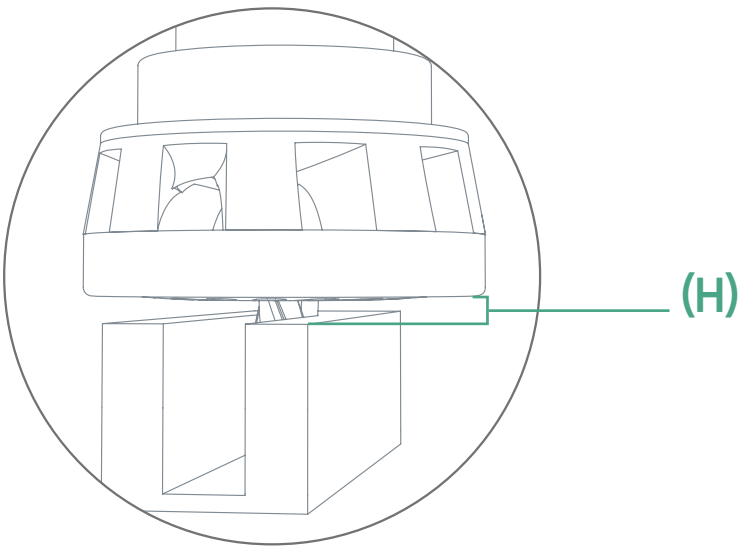
An Aerotech® for every machining operation

	NESTING CABINET with straight tools	NESTING MDF with profiled tools	ROUTING
	HYDRO	HYDRO	HYDRO
CLAMPING SYSTEM	Hydraulic (with reduction sleeves)	Hydraulic (with reduction sleeves)	Hydraulic (with reduction sleeves)
TOOL INTERFACE	Cylindrical shank	Cylindrical shank	Cylindrical shank
PERFORMANCE	★★½	★★½	★★½
PRODUCTIVITY	★★★	★★★	★★★
AEROTECH DIAMETER (mm)	95	105	105
FLANGE TYPE	Faceplate	Standard	Standard
MACHINE INTERFACE	HSK63F	HSK63F	HSK63F
TOOL DIAMETER (mm)	Max 25.5	Max 72.5	Max 72.5



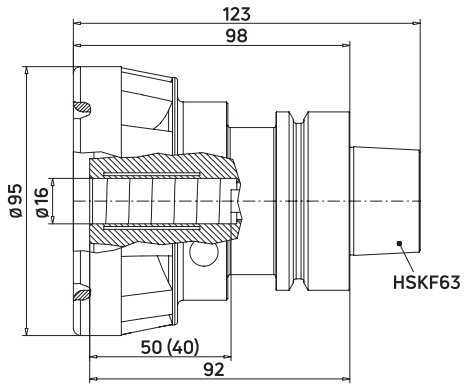
The use of Aerotech® at a floating height **(H) less than 2.0 - 3.0 mm** may reduce the air flow created and limit its capacity to remove dust.

You are advised **not to use** Aerotech® at a floating height **(H) less than 2.0 mm**, as otherwise it may come into contact with the panel during cutting operations.



Hydro 95

for DP router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC machining centres.

For nesting operations.

Machining operations on Mdf and chipboard workpieces.

DESIGN

Chuck with integrated extractor turbine.

Monobloc steel body.

Heat treated up to 58 HRC.

9-fan turbine.

***Plus version: with integrated Faceplate grille.**

NOTES

Compatible with DP router bits with cylindrical shank from 6 to 16 mm

Max. rpm: 24,000

Run-out: +/- 0.002 mm

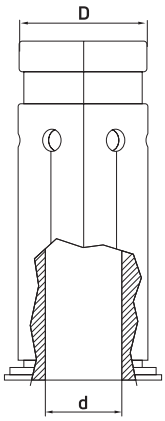
Balancing: G<2.5 at 25,000 rpm

Torque: 185 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank (mm)	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
95	62.5	HSK63F	6-16 max.	C05146	-
95	25.5	HSK63F	6-16 max.	-	C05200

DESCRIPTION

Reducer bushing

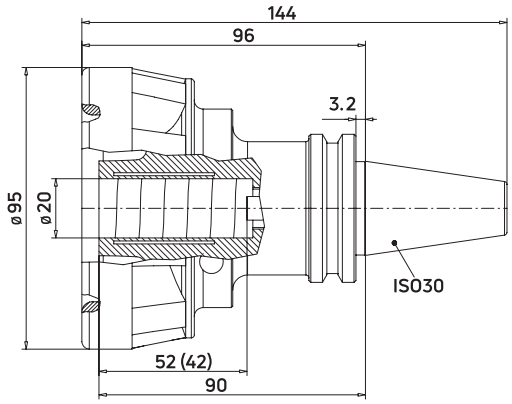


D. (mm)	d. (mm)	Id-No.
16	06	C05160
16	08	C05161
16	10	C05162
16	12	C05163

	Id-No.
Calibration tester	D05252

Hydro 95 ISO30 shank

for DP router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC machining centres.

For nesting operations.

Machining operations on Mdf and chipboard workpieces.

DESIGN

Monobloc steel body.
Heat treated up to 58 HRC.
9-fan turbine.

***Plus version:**
with integrated Faceplate grille.

NOTES

Compatible with DP router bits with cylindrical shank from 6 to 20 mm

Max. rpm: 24,000

Run-out: +/- 0.002 mm

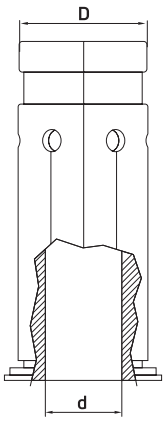
Balancing: G<2.5 at 25,000 rpm

Torque: 185 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
95	62.5	ISO30	6-20 max.	C05314	-

DESCRIPTION

Reducer bushing.

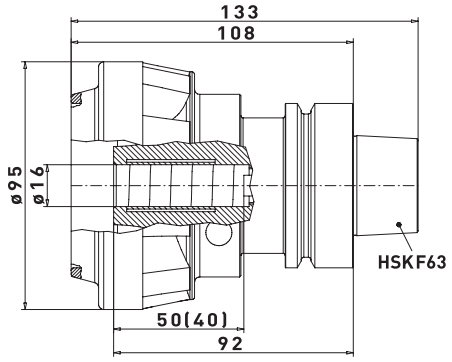


D. (mm)	d. (mm)	Id-No.
20	06	C05345
20	08	C05346
20	10	C05647
20	12	C05648
20	16	C05649

	Id-No.
Calibration tester	D05252

Hydro 95

for HW router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC machining centres.

For nesting operations.

Machining operations on Mdf and chipboard workpieces.

DESIGN

Monobloc steel body.
Heat treated up to 58 HRC.
9-fan turbine.

***Plus version: with integrated Faceplate grille.**

NOTES

Compatible with HW router bits with cylindrical shank from 6 to 16 mm

Max. rpm: 24,000

Run-out: +/- 0.002 mm

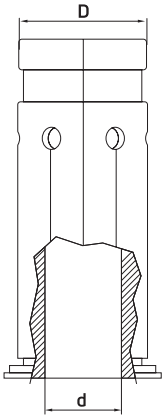
Balancing: G<2.5 at 25,000 rpm

Torque: 185 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
95	62.5	HSK63F	6-16 max.	C05337	-
95	25.5	HSK63F	6-16 max.	-	C05340

DESCRIPTION

Reducer bushing

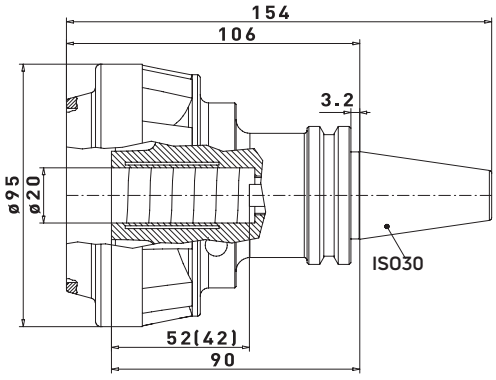


D. (mm)	d. (mm)	Id-No.
16	06	C05160
16	08	C05161
16	10	C05162
16	12	C05163

	Id-No.
Calibration tester	D05252

Hydro 95 ISO30 shank

for HW router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC machining centres.

For nesting operations.

Machining operations on Mdf and chipboard workpieces.

DESIGN

Monobloc steel body.
Heat treated up to 58 HRC.
9-fan turbine.

***Plus version: with integrated Faceplate grille.**

NOTES

Compatible with HW router bits with cylindrical shank from 6 to 20 mm

Max. rpm: 24,000

Run-out: +/- 0.002 mm

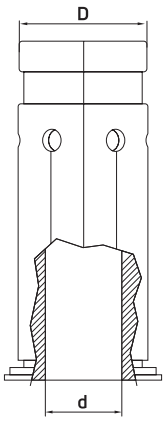
Balancing: G<2.5 at 25,000 rpm

Torque: 185 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
95	62.5	ISO30	6-20 max.	C05339	-

DESCRIPTION

Reducer bushing

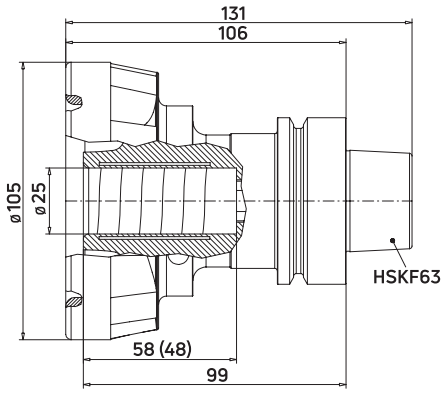


D. (mm)	d. (mm)	Id-No.
20	06	C05345
20	08	C05346
20	10	C05647
20	12	C05648
20	16	C05649

	Id-No.
Calibration tester	D05252

Hydro 105

for DP router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC machining centres.

For traditional routing operations, as well as those integrated into the edgebanding process.

Machining operations on Mdf and chipboard workpieces.

DESIGN

Monobloc steel body.
Heat treated up to 58 HRC.
9-fan turbine.

***Plus version: with integrated Faceplate grille.**

NOTES

Compatible with DP router bits with cylindrical shank from 6 to 25 mm

Max. rpm: 24,000

Run-out: +/- 0.002 mm

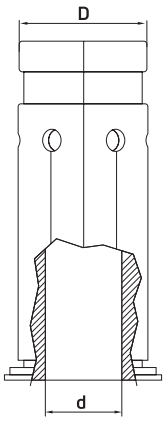
Balancing: G<2.5 at 25,000 rpm

Torque: 250 Nm

D. Aerotech (mm)	D. max. tool (mm)	Machine shank	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
105	72.5	HSK63F	6-25 max.	C05145	-
105	31.5	HSK63F	6-25 max.	-	C05199

DESCRIPTION

Reducer bushing

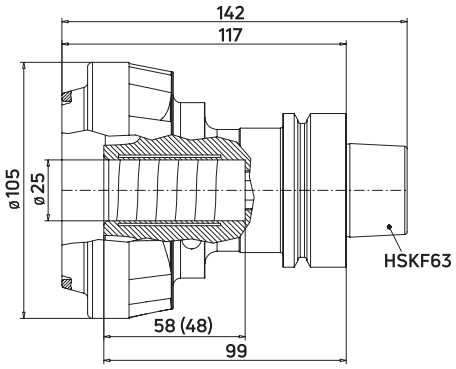


D. (mm)	d. (mm)	Id-No.
25	06	C05164
25	08	C05165
25	10	C05166
25	12	C05167
25	16	C05168
25	20	C05169

	Id-No.
Calibration tester	D05253

Hydro 105

for HW router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC machining centres.

For traditional routing operations, as well as those integrated into the edgebanding process.

Machining operations on Mdf and chipboard workpieces.

DESIGN

Monobloc steel body.
Heat treated up to 58 HRC.
9-fan turbine.

***Plus version: with integrated Faceplate grille.**

NOTES

Compatible with HW router bits with cylindrical shank from 6 to 25 mm

Max. rpm: 24,000

Run-out: +/- 0.002 mm

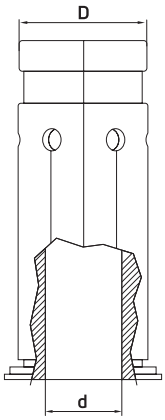
Balancing: G<2.5 at 25,000 rpm

Torque: 250 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
105	72.5	HSK63F	6-25 max.	C05338	-
105	31.5	HSK63F	6-25 max.	-	C05341

DESCRIPTION

Reducer bushing



D. (mm)	d. (mm)	Id-No.
25	06	C05164
25	08	C05165
25	10	C05166
25	12	C05167
25	16	C05168
25	20	C05169

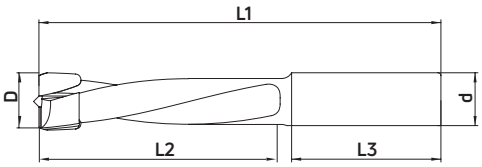
	Id-No.
Calibration tester	D05253

Boring Bits

Boring bit for blind holes

DP

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on MDF and melamine.

DESIGN

DP centering point.

DP tips.

Parallel shank with driving flat and adjusting screw.

Centering point protrusion h= 0.5 mm

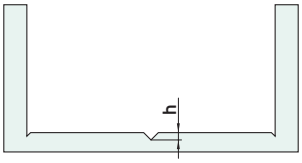
NOTES

For blind holes.

Feed speed: up to 3 m/min

Max. rpm: 12,000

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
8	30	10	26	57.5	2	S14110	S14111
10	30	10	26	57.5	2	S14112	S14113
8	42	10	26	70	2	S11375	S12681
10	42	10	26	70	2	S12683	S12684

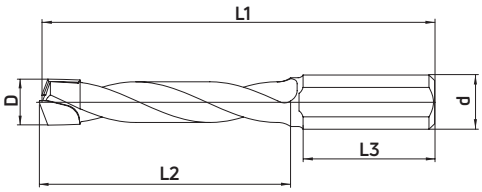


Boring bit for blind holes

solid tungsten carbide body

DP

MEC



MACHINES / APPLICATIONS

Boring machines and CNC.

DESIGN

Body in HWM.

DP tips.

Parallel shank with driving flat and adjusting screw.

NOTE

For blind holes.

Feed speed: up to 3 m/min

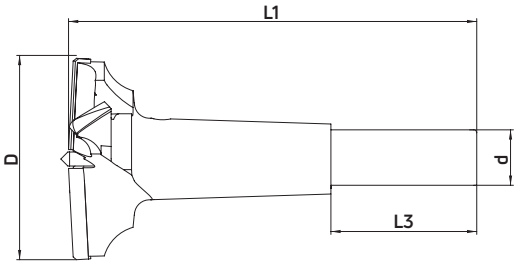
Max. rpm: 12,000

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
8	33	10	24	57.5	2	S15384	S15385
10	33	10	24	57.5	2	S15046	S15192
8	46	10	24	70	2	S15386	S15387
10	46	10	24	70	2	S15045	S15388

Boring bit for hinges

DP

MEC



MACHINES / APPLICATIONS

Boring machines.

Ideal for creating hinge pockets.

Machining operations on chipboard and coated MDF.

DESIGN

Adjustable HW centering point.

DP tips.

Parallel shank with driving flat and adjusting screw.

Centering point protrusion h= 0.5 mm

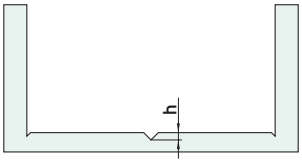
NOTES

For blind holes.

Feed speed: up to 3 m/min

Max. rpm: 12,000

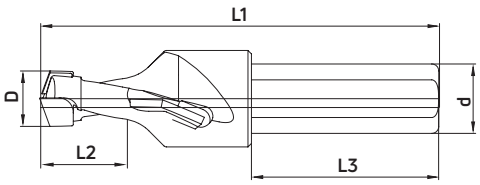
D (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
14	10	26	57.5	2+2	S15765	S15766
15	10	26	57.5	2+2	S13998	S13999
16	10	26	57.5	2+2	S11886	S11887
20	10	26	57.5	2+2	S03376	S03377
25	10	26	57.5	2+2	S11876	S11877
26	10	26	57.5	2+2	S11998	S11999
35	10	26	57.5	2+2	S12623	S12733
14	10	38.5	70	2+2	S12911	S12912
15	10	26	70	2+2	S15487	S15825
16	10	38.5	70	2+2	S15834	S15826
20	10	38.5	70	2+2	S03380	S03381
25	10	26	70	2+2	S11984	S11985
26	10	26	70	2+2	S11107	S11108
35	10	25	70	2+2	S12734	S12735



Boring bit with countersink for blind holes

DP

MEC



MACHINES / APPLICATIONS

Boring machines and CNC.

DESIGN

DP tips.

Parallel shank with driving flat and adjusting screw.

NOTE

For boring and countersinking.

Feed speed: up to 3 m/min

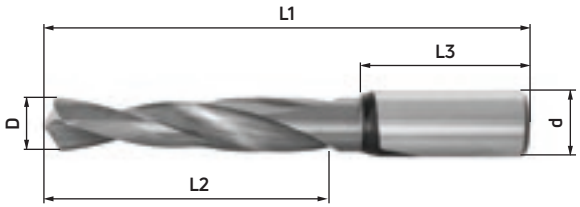
Max. rpm: 12,000

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
8	12.5	10	27	57.5	2+2	S15243	S15389
8	15	10	27	57.5	2+2	S15390	S15391
8	20	10	27	57.5	2+2	S15392	S15393
10	12.5	10	27	57.5	2+2	S15394	S15395
10	15	10	27	57.5	2+2	S15396	S15397
10	20	10	27	57.5	2+2	S15398	S15399
8	12.5	10	27	70	2+2	S15328	S15329
8	15	10	27	70	2+2	S15400	S15401
8	20	10	27	70	2+2	S15402	S15403
10	12.5	10	27	70	2+2	S15114	S15115
10	15	10	27	70	2+2	S15404	S15405
10	20	10	27	70	2+2	S15406	S15407

Boring bit for blind holes

HWM

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

Helical body in HWM.

Centering point - 2 cutting edges in HWM.

2+2 spiral flutes.

2 ground spurs with reinforced sharpening.

Parallel shank with driving flat and adjusting screw.

NOTES

For blind holes.

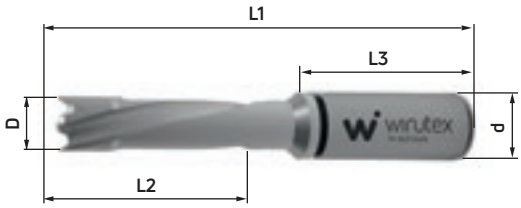
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
2	12	10	27	57.5	2	C04579	C04580
3	9	10	35	57.5	2	C04210	C04211
3	18	10	25	57.5	2	C00388	C00389
4	20	10	25	57.5	2	C01841	C01842
5	22	10	27	57.5	2	C00360	C00361
6	22	10	25	57.5	2	C01843	C01844
6.35	22	10	25	57.5	2	C01845	C01846
8	22	10	25	57.5	2	C04060	C04061
10	22	10	25	57.5	2	C05407	C05408
2	12	10	40	70	2	C04581	C04582
3	18	10	40	70	2	C01380	C01381
4	27	10	28	70	2	C01847	C01848
5	30	10	28	70	2	C00362	C00363
6	30	10	30	70	2	C01849	C01850
6.35	30	10	30	70	2	C01851	C01852
8	35	10	25	70	2	C04062	C04063
10	35	10	25	70	2	C05409	C05410

W-DrillCut

for blind holes

HWM

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on chipboard, melamine, MDF, veneered and lacquered.

DESIGN

Helical body in HWM.

Centering point - 2 cutting edges in HWM.

2 Spiral flutes.

2 Ground spurs.

Parallel shank with driving flat and adjusting screw.

NOTES

Longer durability.

Better finishing.

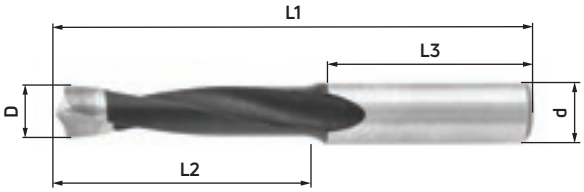
Particularly suitable where the hole approaches to the lower part of the covering.

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	22.5	10	28	57.5	2	S16871	S16872
8	22.5	10	28	57.5	2	S16873	S16874
5	35	10	28	70	2	S16875	S16876
8	35	10	28	70	2	S16877	S16878

Boring bit with curved ground spurs for blind holes

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HW head.

2 cutting edges in HW.

2 spiral flutes.

2 ground spurs.

Parallel shank with driving flat and adjusting screw.

NOTES

For blind holes.

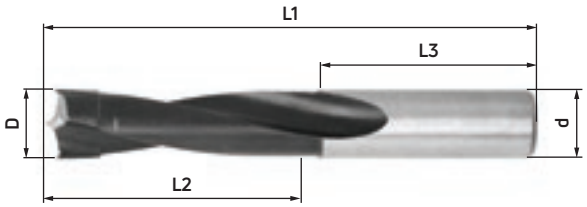
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	27	10	27	57.5	2	C02715	C02716
6	27	10	27	57.5	2	C02717	C02718
7	27	10	27	57.5	2	C01926	C01927
8	27	10	27	57.5	2	C01642	C01643
9	27	10	27	57.5	2	C01928	C01929
10	27	10	27	57.5	2	C01930	C01931
5	35	10	30	70	2	C02643	C02644
6	35	10	30	70	2	C02645	C02646
7	35	10	30	70	2	C01932	C01933
8	35	10	30	70	2	C01934	C01935
9	35	10	30	70	2	C01936	C01937
10	35	10	30	70	2	C01938	C01939

2 spiral flutes boring bit for blind holes

L. 57.5

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For blind holes.

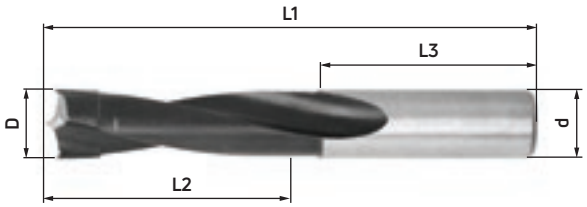
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
4	27	10	27	57.5	2	C01853	C01854
4.5	27	10	27	57.5	2	C01855	C01856
4.76	27	10	27	57.5	2	C01857	C01858
5	27	10	27	57.5	2	C01813	C01814
5.1	27	10	27	57.5	2	C01859	C01860
5.2	27	10	27	57.5	2	C01861	C01862
5.55	27	10	27	57.5	2	C01557	C01558
6	27	10	27	57.5	2	C01863	C01864
6.35	27	10	27	57.5	2	C01865	C01866
6.5	27	10	27	57.5	2	C01867	C01868
7	27	10	27	57.5	2	C01869	C01870
8	27	10	27	57.5	2	C01815	C01816
8.2	27	10	27	57.5	2	C01871	C01872
9	27	10	27	57.5	2	C01873	C01874
9.52	27	10	27	57.5	2	C01875	C01876
10	27	10	27	57.5	2	C01817	C01818
11	27	10	27	57.5	2	C01877	C01878
12	27	10	27	57.5	2	C01879	C01880
12.7	27	10	27	57.5	2	C01881	C01882
13	27	10	27	57.5	2	C01883	C01884
14	27	10	27	57.5	2	C01885	C01886
15	27	10	27	57.5	2	C01887	C01888
16	27	10	27	57.5	2	C01889	C01890

2 spiral flutes boring bit for blind holes

L. 70

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For blind holes.

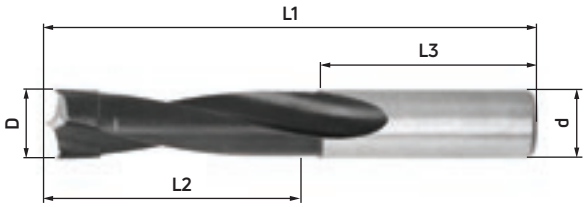
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
4	35	10	30	70	2	C01891	C01892
4.5	35	10	30	70	2	C03536	C03537
4.76	35	10	30	70	2	C00771	C00772
5	35	10	30	70	2	C01811	C01812
5.1	35	10	30	70	2	C01893	C01894
5.2	35	10	30	70	2	C00834	C00835
5.55	35	10	30	70	2	C00773	C00774
6	35	10	30	70	2	C01895	C01896
6.35	35	10	30	70	2	C01897	C01898
6.5	35	10	30	70	2	C01899	C01900
7	35	10	30	70	2	C01901	C01902
8	35	10	30	70	2	C01505	C01506
8.2	35	10	30	70	2	C00870	C00871
9	35	10	30	70	2	C01903	C01904
9.52	35	10	30	70	2	C01905	C01906
10	35	10	30	70	2	C01907	C01908
11	35	10	30	70	2	C01909	C01910
11.1	35	10	30	70	2	C01911	C01912
12	35	10	30	70	2	C01913	C01914
12.7	35	10	30	70	2	C01915	C01916
13	35	10	30	70	2	C01917	C01918
14	35	10	30	70	2	C01919	C01920
15	35	10	30	70	2	C01921	C01922
16	35	10	30	70	2	C01923	C01924

2 spiral flutes boring bit for blind holes

L. 77

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For blind holes.

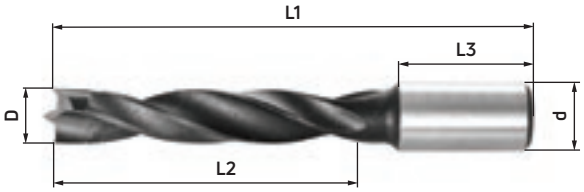
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	44	10	30	77	2	C00632	C01564
6	44	10	30	77	2	C01565	C01566
7	44	10	30	77	2	C01567	C01568
8	44	10	30	77	2	C01569	C01570
10	44	10	30	77	2	C01571	C01572
12	44	10	30	77	2	C01573	C01574

4 spiral flutes boring bit for blind holes

L. 57.5

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
4 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For blind holes.

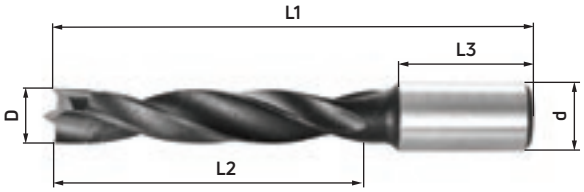
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
4	26	10	20	57.5	2	C00200	C00201
5	30	10	20	57.5	2	C00202	C00203
6	30	10	20	57.5	2	C00204	C00205
6.35	30	10	20	57.5	2	C00206	C00207
7	30	10	20	57.5	2	C00208	C00209
8	30	10	20	57.5	2	C00210	C00211
9	30	10	20	57.5	2	C00212	C00213
9.52	30	10	20	57.5	2	C00214	C00215
10	30	10	20	57.5	2	C00216	C00217
11	30	10	20	57.5	2	C00218	C00219
12	30	10	20	57.5	2	C00220	C00221
12.7	30	10	20	57.5	2	C00222	C00223
13	30	10	20	57.5	2	C00812	C00813
14	30	10	20	57.5	2	C00224	C00225
15	30	10	20	57.5	2	C00226	C00227
16	30	10	20	57.5	2	C00814	C00815

4 spiral flutes boring bit for blind holes

L. 70

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
4 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For blind holes.

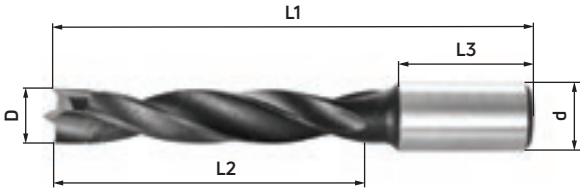
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
4	43	10	20	70	2	C00228	C00229
5	43	10	20	70	2	C00230	C00231
6	43	10	20	70	2	C00232	C00233
6.35	43	10	20	70	2	C00234	C00235
7	43	10	20	70	2	C00236	C00237
7.5	43	10	20	70	2	C00238	C00239
8	43	10	20	70	2	C00240	C00241
9	43	10	20	70	2	C00242	C00243
9.52	43	10	20	70	2	C00244	C00245
10	43	10	20	70	2	C00246	C00247
11	43	10	20	70	2	C00712	C00713
12	43	10	20	70	2	C00248	C00249
12.7	43	10	20	70	2	C00250	C00251
13	43	10	20	70	2	C01637	C01638
14	43	10	20	70	2	C00710	C00711
15	43	10	20	70	2	C00252	C00253
16	43	10	20	70	2	C01040	C01041

4 spiral flutes boring bit for blind holes

L. 85

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites
and laminated materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
4 spiral flutes.

Parallel shank with driving flat
and adjusting screw.

NOTES

For blind holes.

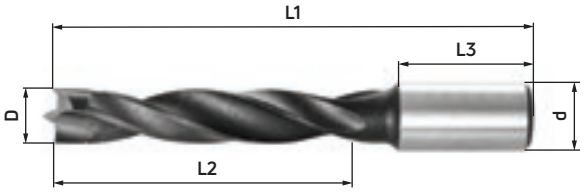
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	50	10	27	85	2	C00659	C00660
6	50	10	27	85	2	C00661	C00662
7	50	10	27	85	2	C03563	C03564
8	50	10	27	85	2	C00663	C00664
10	50	10	27	85	2	C00665	C00666
12	50	10	27	85	2	C00667	C00668

4 spiral flutes boring bit for blind holes

L. 105

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
4 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

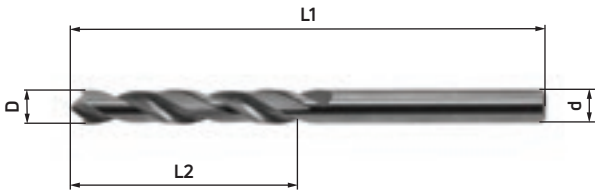
For blind holes.

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	65	10	30	105	2	C03524	C03525
6	65	10	30	105	2	C03526	C03527
7	65	10	30	105	2	C04301	C04302
8	65	10	30	105	2	C03528	C03529
10	65	10	30	105	2	C03530	C03531
12	65	10	30	105	2	C03532	C03533

Helical boring bit for small blind holes Z=2

HWM

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

2 cutting edges.

2 spiral flutes.

NOTES

For blind holes.

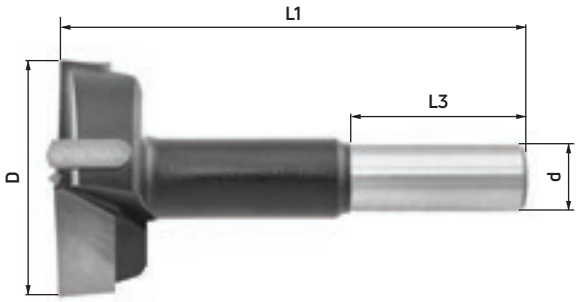
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
2.5	27	2.5	55	2	C03111	C03112
3	27	3	55	2	C03113	C03114
4	27	4	55	2	C03115	C03116
5	28	5	60	2	C03117	C03118

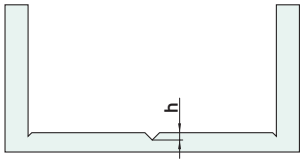
Boring bit for hinges

L. 57.5

HW

MEC





MACHINES / APPLICATIONS

Boring machines.

Ideal for creating hinge pockets.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HW centering point.

2 cutting edges in HW.

2 negative sharpening ground spurs.

Parallel shank with driving flat and adjusting screw.

Centering point protrusion h= 1 mm

NOTES

For blind holes.

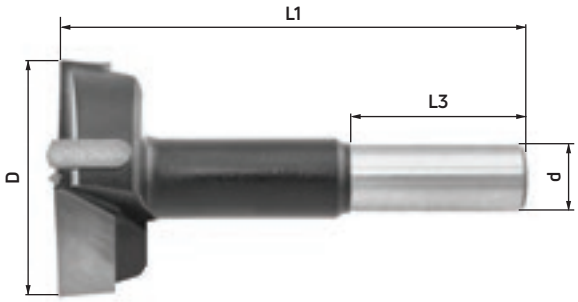
D (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
14	10	26	57.5	2+2	C00264	C00265
15	10	26	57.5	2+2	C00143	C00144
16	10	26	57.5	2+2	C00145	C00146
17	10	26	57.5	2+2	C01449	C01450
18	10	26	57.5	2+2	C00147	C00148
19	10	26	57.5	2+2	C01451	C01452
20	10	26	57.5	2+2	C00149	C00150
22	10	26	57.5	2+2	C00151	C00152
24	10	26	57.5	2+2	C00153	C00154
25	10	26	57.5	2+2	C00130	C00141
26	10	26	57.5	2+2	C00155	C00156
28	10	26	57.5	2+2	C00157	C00158
30	10	26	57.5	2+2	C00159	C00160
32	10	26	57.5	2+2	C00161	C00162
34	10	26	57.5	2+2	C04583	C04584
35	10	26	57.5	2+2	C00131	C00142
38	10	26	57.5	2+2	C00163	C00164
40	10	26	57.5	2+2	C00165	C00166
45	10	26	57.5	2+2	C04585	C04586
50	10	26	57.5	2+2	C04314	C04315
55	10	26	57.5	2+2	C04587	C04588
60	10	26	57.5	2+2	C04589	C04590

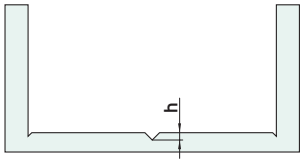
Boring bit for hinges

L. 70

HW

MEC





MACHINES / APPLICATIONS

Boring machines.

Ideal for creating hinge pockets.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HW centering point.

2 cutting edges in HW.

2 negative sharpening ground spurs.

Parallel shank with driving flat and adjusting screw.

Centering point protrusion h= 1 mm

NOTES

For blind holes.

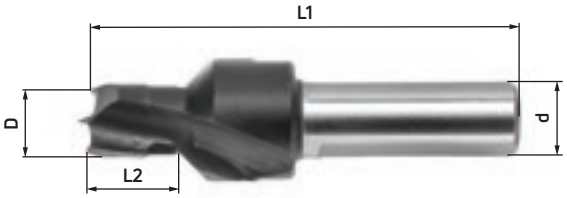
D (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
14	10	26	70	2+2	C01967	C01968
15	10	26	70	2+2	C00167	C00168
16	10	26	70	2+2	C01398	C01399
18	10	26	70	2+2	C00169	C00170
20	10	26	70	2+2	C00171	C00172
22	10	26	70	2+2	C01969	C01970
25	10	26	70	2+2	C00173	C00174
26	10	26	70	2+2	C00175	C00176
30	10	26	70	2+2	C00177	C00178
35	10	26	70	2+2	C00179	C00180
40	10	26	70	2+2	C00181	C00182
45	10	26	70	2+2	C04591	C04592
50	10	26	70	2+2	C04593	C04594
55	10	26	70	2+2	C04595	C04596
60	10	26	70	2+2	C04597	C04598

Boring bit with countersink for blind holes

L. 70

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood and wood composites, laminated and plastic materials.

DESIGN

HWM head.

Centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For boring and countersinking.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
8	12	10	57.5	2+2	C02412	C02413
8	13	10	57.5	2+2	C04097	C04098
8	15	10	57.5	2+2	C02414	C02415
8	20	10	57.5	2+2	C02393	C02394
10	12	10	57.5	2+2	C02416	C02417
10	13	10	57.5	2+2	C04411	C04412
10	15	10	57.5	2+2	C02395	C02396
10	20	10	57.5	2+2	C02418	C02419
8	12	10	70	2+2	C02420	C02421
8	13	10	70	2+2	C04243	C04244
8	15	10	70	2+2	C02422	C02423
8	20	10	70	2+2	C02424	C02425
10	12	10	70	2+2	C02426	C02427
10	13	10	70	2+2	C04245	C04246
10	15	10	70	2+2	C02428	C02429
10	20	10	70	2+2	C02430	C02431

Boring bit with threaded shank for blind holes

HW

MEC

MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head - Centering point.

2 cutting edges in HW.
2 ground spurs.
4 spiral flutes.

NOTES

For blind holes.

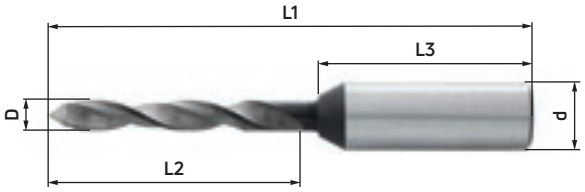
D (mm)	L2 (mm)	LB (mm)	d (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	30	45	M10/11x4	2	C00736	C00737
6	30	45	M10/11x4	2	C00738	C00739
8	30	45	M10/11x4	2	C00740	C00741
10	30	45	M10/11x4	2	C00742	C00743
12	30	45	M10/11x4	2	C00744	C00745
5	40	55	M10/11x4	2	C00746	C00747
6	40	55	M10/11x4	2	C00748	C00749
8	40	55	M10/11x4	2	C00750	C00751
10	40	55	M10/11x4	2	C00752	C00753
12	40	55	M10/11x4	2	C00754	C00755
5	50	65	M10/11x4	2	C00756	C00757
6	50	65	M10/11x4	2	C00758	C00759
8	50	65	M10/11x4	2	C00760	C00761
10	50	65	M10/11x4	2	C00762	C00763
12	50	65	M10/11x4	2	C00764	C00765

Boring bit for through holes

L. 70

HWM

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

Helical body in HWM.

2 double angle cutting edges.

2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

Max workpiece thickness: 20-30 mm

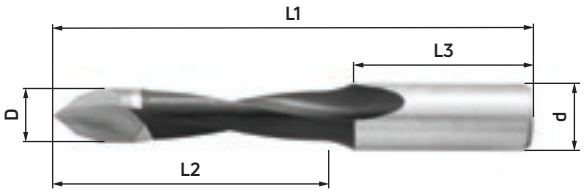
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
3	27	10	30	70	2	C04043	C04044
4	35	10	26	70	2	C02783	C02784
5	35	10	26	70	2	C00822	C00823
6	35	10	26	70	2	C03773	C03774
8	35	10	26	70	2	C03775	C03776
10	35	10	27	70	2	C05411	C05412

Boring bit with double clearance angle for through holes

L. 57.5

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HW head.

2 double angle cutting edges in HW.

2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

Max workpiece thickness: 20 mm

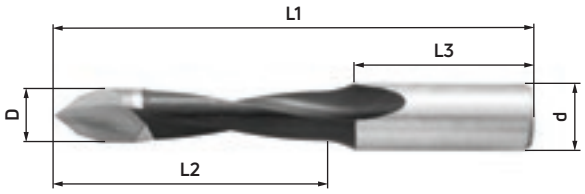
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	27	10	26	57,5	2	C02742	C02743
8	27	10	26	57,5	2	C02744	C02745

Boring bit with double clearance angle for through holes

L. 70

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HW head.

2 double angle cutting edges in HW.

2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

Max workpiece thickness: 25 - 30 mm

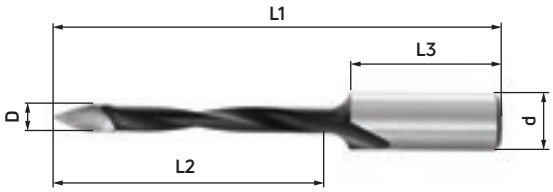
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	35	10	26	70	2	C02669	C02670
6	35	10	26	70	2	C04175	C04176
7	35	10	26	70	2	C04177	C04178
8	35	10	26	70	2	C01837	C01838
10	35	10	26	70	2	C04179	C04180

2 spiral flutes boring bit for through holes

L. 57.5

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

2 cutting edges in HW.

2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

Max workpiece thickness: 20 mm

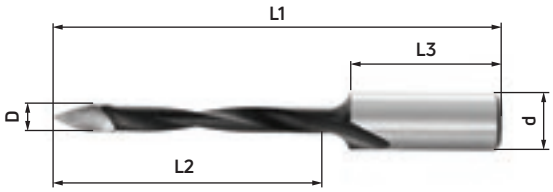
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	27	10	26	57.5	2	C00254	C00255
6	27	10	26	57.5	2	C00256	C00257
8	27	10	26	57.5	2	C00258	C00259
10	27	10	26	57.5	2	C00260	C00261

2 spiral flutes boring bit for through holes

L. 70

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

2 cutting edges in HW.

2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

Max workpiece thickness: 25 -30 mm

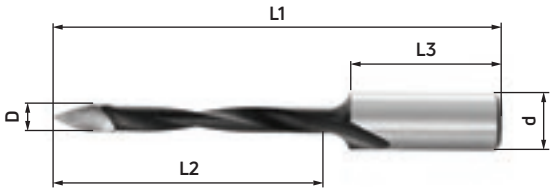
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
4	30	10	26	70	2	C00701	C00702
4.76	35	10	26	70	2	C01959	C01960
5	35	10	26	70	2	C00001	C00002
5.55	35	10	26	70	2	C00703	C00704
6	35	10	26	70	2	C00019	C00020
6.35	35	10	26	70	2	C01062	C01063
7	35	10	26	70	2	C00021	C00022
8	35	10	26	70	2	C00023	C00024
9	35	10	26	70	2	C00025	C00026
9.52	35	10	26	70	2	C01961	C01962
10	35	10	26	70	2	C00027	C00028
12	35	10	26	70	2	C00029	C00030

2 spiral flutes boring bit for through holes

L. 77

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

2 cutting edges in HW.

2 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

Max workpiece thickness: 30-40 mm

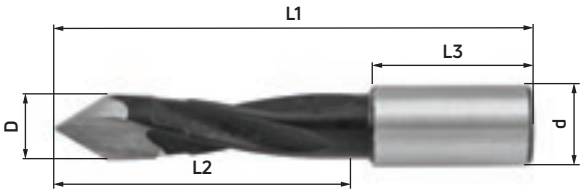
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	44	10	26	77	2	C00375	C00376
6	44	10	26	77	2	C01093	C01094
8	44	10	26	77	2	C00377	C00378
10	44	10	26	77	2	C00379	C00380
12	44	10	26	77	2	C01965	C01966

4 spiral flutes boring bit for through holes

L. 57.5

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

2 cutting edges in HW.

4 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

Max workpiece thickness: 20-25 mm

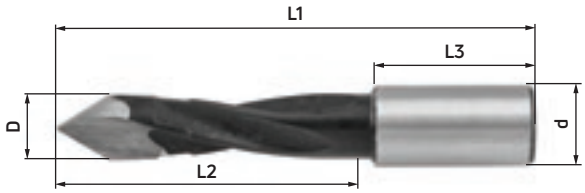
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	30	10	20	57,5	2	C00446	C00447
8	30	10	20	57,5	2	C00448	C00449

4 spiral flutes boring bit for through holes

L. 70

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

HWM head.

2 cutting edges in HW.

4 spiral flutes.

Parallel shank with driving flat and adjusting screw.

NOTES

For through holes.

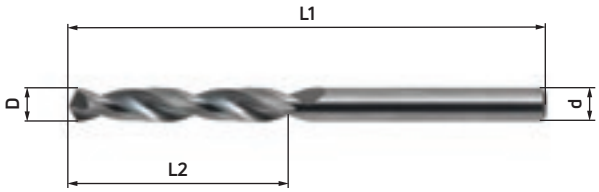
Max workpiece thickness: 30-35 mm

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	40	10	20	70	2	C00442	C00443
6	40	10	20	70	2	C01599	C01600
7	40	10	20	70	2	C01453	C01454
8	40	10	20	70	2	C00444	C00445
10	40	10	20	70	2	C01601	C01602

Helical boring bit for small through holes Z=2

HWM

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood, wood composites and laminated materials.

DESIGN

2 cutting edges in HWM.

2 spiral flutes.

NOTES

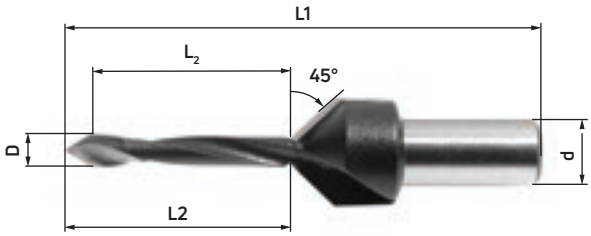
For through holes.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
2	25	2	50	2	C01050	C01051
2.5	27	2.5	55	2	C00669	C00670
3	27	3	55	2	C00344	C00345
3.2	27	3.2	55	2	C01950	C01951
3.5	27	3.5	55	2	C01644	C01645
4	27	4	55	2	C00564	C00565
4.5	28	4.5	60	2	C01055	C01056
5	28	5	60	2	C00428	C00429

Boring bit with countersink for through holes

HW

MEC



MACHINES / APPLICATIONS

Boring machines.

Machining operations on solid wood and wood composites, laminated and plastic materials.

DESIGN

HW centering point.

2 cutting edges in HW.
2 negative sharpening ground spurs.
2 spiral flutes.

Parallel shank with driving flat and screw.

NOTES

For through holes.

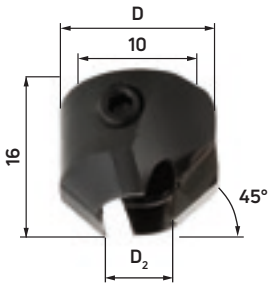
For boring and countersinking.

D (mm)	L2 (mm)	d (mm)	L1 (mm)	L_2 (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5	35	10	70	31	2	C05258	C05259
7	35	10	70	29,5	2	C05260	C05261
8	35	10	70	29	2	C05262	C05263
10	35	10	70	26,5	2	C05264	C05265

Countersink for helical boring bits

HW

MEC



MACHINES / APPLICATIONS

For chamfering - planing holes in solid wood, wood composites and laminated materials.

DESIGN

2 cutting edges in HW.

NOTES

To be installed on the shank of the boring bit.

To be used with the boring bits listed on pages:
76-77-78-79-90-91-92-93-94

D2 (mm)	D (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
5 ÷ 10	20	2	C01064	C01065
11 ÷ 12	22	2	C01066	C01067

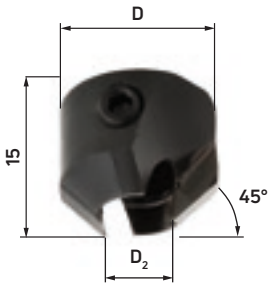
SPARE PARTS

Description	Id-No.
STEI screws (grub) M5X5	C04377
Hex wrench mm 2.5	C04704

Countersink for helical boring bits

HW

MEC



MACHINES / APPLICATIONS

For chamfering - planing holes in solid wood, wood composites and laminated materials.

DESIGN

2 cutting edges in HW.

NOTES

To be installed on the spiral head of the boring bit.

To be used with the boring bits listed pp.: 80-81-82-83-95-96

D2 (mm)	D (mm)	Z	Id-No. (Rh)	Id-No. (Lh)
4	16	2	C00300	C00301
5	16	2	C00302	C00303
6	16	2	C00304	C00305
7	16	2	C00306	C00307
8	18	2	C00308	C00309
9	18	2	C00310	C00311
10	20	2	C00312	C00313
12	20	2	C00314	C00315

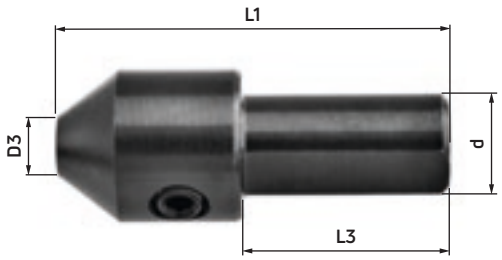
SPARE PARTS

Description	Id-No.
STEI screws (grub) M5X5	C05674
Hex wrench mm 2.5	C04704

Chuck for helical boring bits

for small holes

MEC



MACHINES / APPLICATIONS

For boring machines.

DESIGN

Driving flat.

NOTES

Use with helical boring bits
with a shank with the same diameter
as the chuck hole (D3).

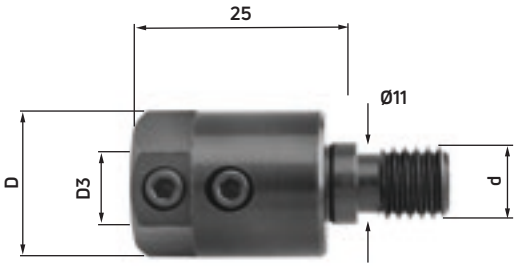
D3 (mm)	d (mm)	L3 (mm)	L1 (mm)	Id-No.
2	10	20	38	C01104
2.5	10	20	38	C00671
3	10	20	38	C00346
3.2	10	20	38	C01952
3.5	10	20	38	C01953
4	10	20	38	C00672
4.5	10	20	38	C01954
5	10	20	38	C01955

SPARE PARTS

Description	Id-No.
STEI screws (grub) M5X5	C04377
Hex wrench mm 2.5	C04704

Chuck

MEC



MACHINES / APPLICATIONS

For boring machines.

Can be adapted to the following machines: Masterwood (Zangheri & Baschetti), Morbidelli, Torwegge, Vitap, Weeke.

DESIGN

-

NOTES

Use with helical boring bits with a shank with the same diameter as the chuck hole (D3).

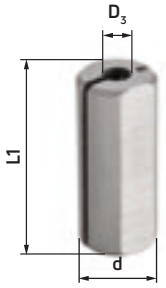
D3 (mm)	D (mm)	d	Id-No. (Rh)	Id-No. (Lh)
8	16	M10	C03065	C03066
10	19.5	M10	C00426	C00427

SPARE PARTS

Description	Id-No.
STEI screws (grub) M5X5	C04377
Hex wrench mm 2.5	C04704

Bushing for helical boring bits

MEC



MACHINES / APPLICATIONS

To be inserted on chucks or adapters on boring machines.

DESIGN

Driving flat.

NOTES

Use with helical boring bits with a shank with the same diameter as the bushing hole (D3).

D3 (mm)	d (mm)	L1 (mm)	Id-No.
2	10	23	C01052
2.5	10	23	C01956
3	10	23	C00441
3.2	10	23	C01957
3.5	10	23	C01958
4	10	23	C00566
4.5	10	23	C01057
5	10	23	C00567

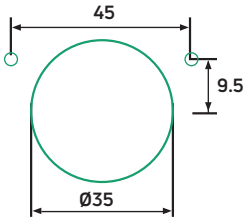
Trimatic

Boring jig for hinges. Allows three bores to be made simultaneously.
To be used with a pillar drill or a portable electric drill.

DESCRIPTION	Id-No.
45/9.5	GT0001
48/6	GT0002
52/5.5	GT0003

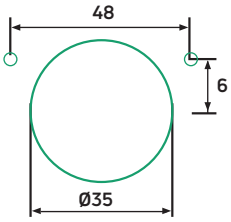
ID-No. GT0001

TRIMATIC 45/9.5 for "BLUM" type hinge.



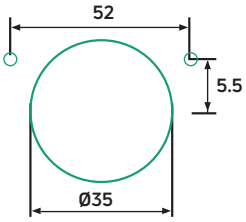
ID-No. GT0002

TRIMATIC 48/6 for "SALICE" type hinge.



ID-No. GT0003

TRIMATIC 52/5.5 for "HETTICH" type hinge.



List of symbols

Hinge pockets

Blind hole

Through hole

Blind hole with countersink

Through hole with countersink

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Procedure qualificate IIS CERT EN 13134

Brasatori qualificati IIS CERT EN 13585

02-2023

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