wirutex
hi-tech tools

Catalogue

Router bits

P**02** _2020

Summary

Symbols and abbreviations

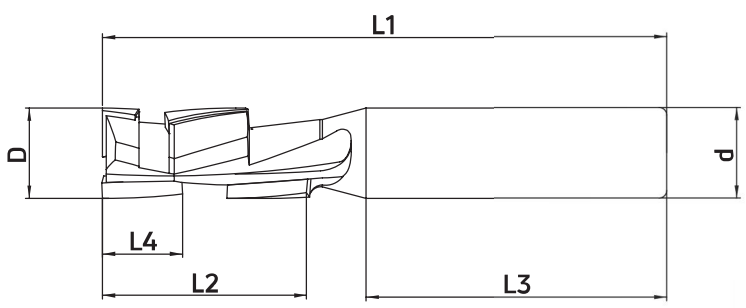
DP	POLYCRYSTALLINE DIAMOND
HW	TUNGSTEN CARBIDE
HWM	SOLID TUNGSTEN CARBIDE
MEC	MECHANICAL FEED

Id-No.	PRODUCT CODE
Id-No. (Rh)	TOOL CODE WITH RIGHT-HAND ROTATION
Id-No. (Lh)	TOOL CODE WITH LEFT-HAND ROTATION

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

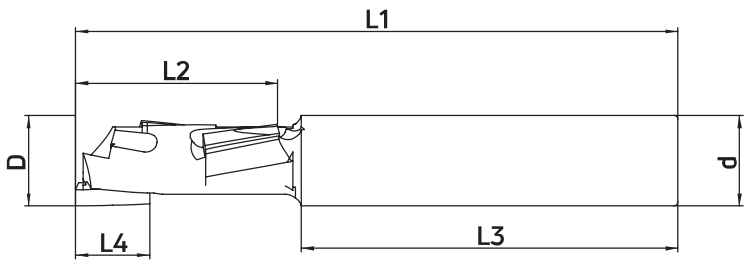
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
10	27	10	12	40	75	1+1	10°	24,000	S14461
12	27	10	12	40	75	1+1	15°	24,000	P03770
12	35	10	12	40	83	1+1	15°	24,000	P03790
16	27	10	16	50	85	1+1	20°	24,000	P03810
16	35	10	16	50	95	1+1	20°	24,000	P03830
16	44	10	16	50	105	1+1	20°	24,000	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

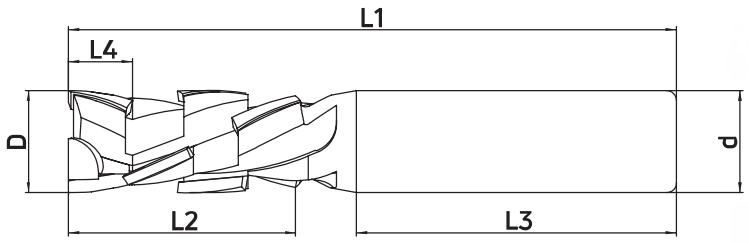
Max. rpm: 18,000 - 24,000

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°	24,000	ES0203
10	21	10	10	45	70	1+1	15°	24,000	ES0209
10	27	10	10	50	80	1+1	15°	24,000	ES0211
10	36	10	10	50	90	1+1	15°	24,000	ES0213
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°	24,000	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

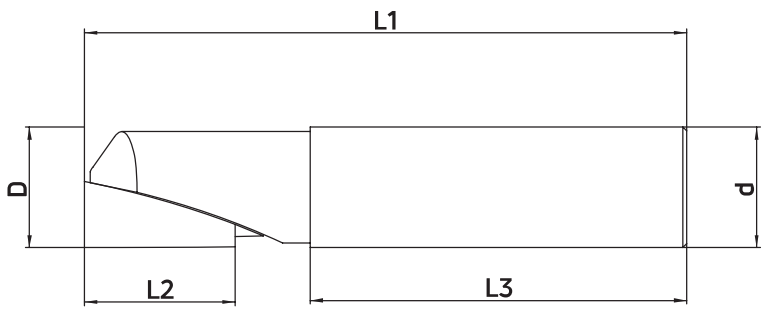
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
16	27	8.5	16	50	85	2+2	25°	24,000	P04010
16	35	10	16	50	95	2+2	25°	24,000	P04030
16	44	10	16	50	105	2+2	25°	18,000	P04050
18	27	10	20	50	85	2+2	25°	24,000	P04070
18	35	10	20	50	95	2+2	25°	24,000	P04090
18	44	10	20	50	105	2+2	25°	18,000	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

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

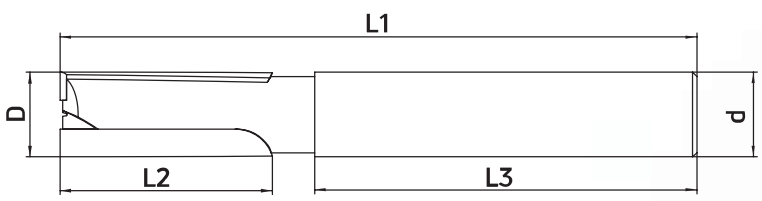
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
6	12	6	47	60	1	24,000	S14463
8	16	8	53	70	1	24,000	S14465
10	22	10	53	80	1	24,000	S14467
12	26	12	50	80	1	24,000	S14469
16	30	16	50	85	1	18,000	S14471

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	20	8	45	70	2	24,000	S16202
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	70	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

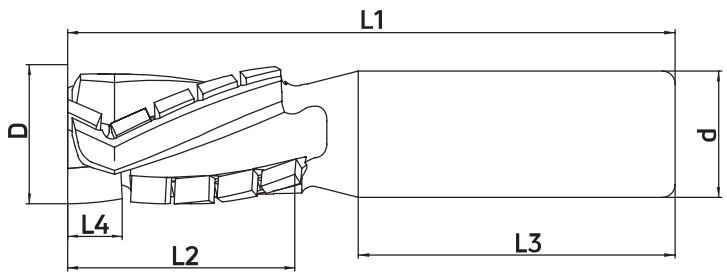
ThermoGrip chuck is recommended.

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	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	70	2	36,000	S16206
16	35	16	45	85	2	24,000	S15354

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

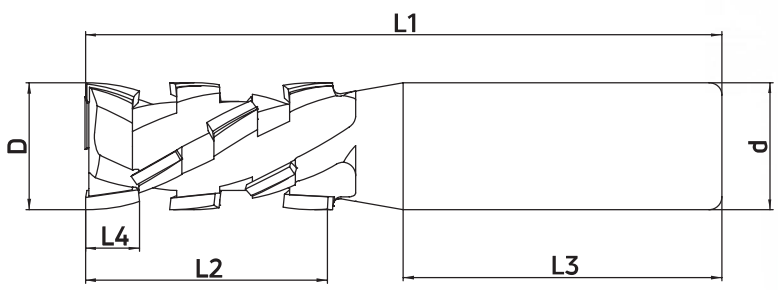
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
22	28	7	20	50	87	3+3	35°	24,000	S14473
22	36	7	20	50	95	3+3	35°	24,000	S14475
22	44	7	20	50	103	3+3	35°	24,000	S14477
25	28	7	25	55	92	3+3	35°	24,000	S14479
25	36	7	25	55	100	3+3	35°	24,000	S14573
25	44	7	25	55	108	3+3	35°	24,000	S14575

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

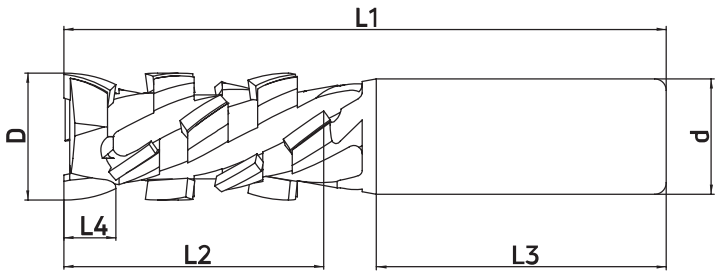
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
20	27	8.7	20	50	85	2+2	30°	24,000	S13584
20	36	8.7	20	50	95	2+2	30°	24,000	S13586
20	46	8.7	20	50	105	2+2	30°	24,000	S13588
20	57	8.7	20	50	115	2+2	30°	18,000	S13590
20	65	8.7	20	50	125	2+2	30°	18,000	S14530

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: 18,000 - 24,000

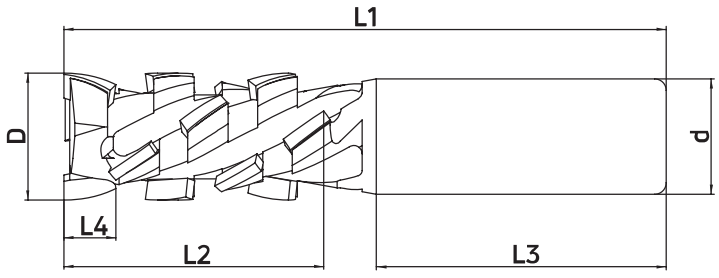
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
20	25	9	20	50	85	2+2	35°	24,000	S14481
20	35	9	20	50	95	2+2	35°	24,000	S14483
20	45	9	20	50	105	2+2	35°	24,000	S14485
20	55	9	20	50	115	2+2	35°	18,000	S14487
20	55	14	20	50	115	2+2	35°	18,000	S14489
20	25	9	25	60	95	2+2	35°	24,000	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°	18,000	S14497
20	55	14	25	60	125	2+2	35°	18,000	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

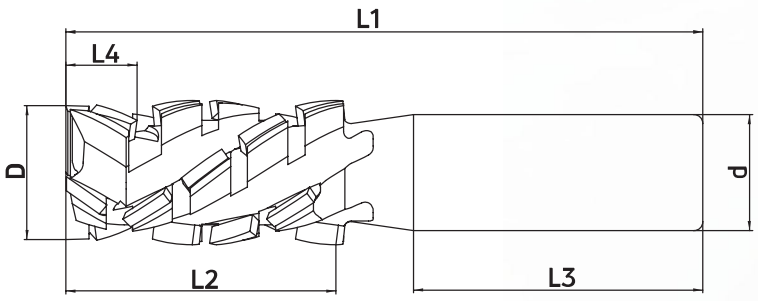
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
22	25	9	20	50	85	2+2	35°	24,000	S13612
22	35	9	20	50	95	2+2	35°	24,000	S13616
22	45	9	20	50	105	2+2	35°	24,000	S13618
22	60	9	20	50	120	2+2	35°	18,000	S13622
22	60	14	20	50	120	2+2	35°	18,000	S14501
22	65	9	20	50	125	2+2	35°	18,000	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	9	25	60	105	2+2	35°	24,000	S13630
22	45	9	25	60	115	2+2	35°	24,000	S13632
22	60	9	25	60	130	2+2	35°	18,000	S13636
22	60	14	25	60	130	2+2	35°	18,000	S14505
22	65	9	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, boring 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: 18,000 - 24,000

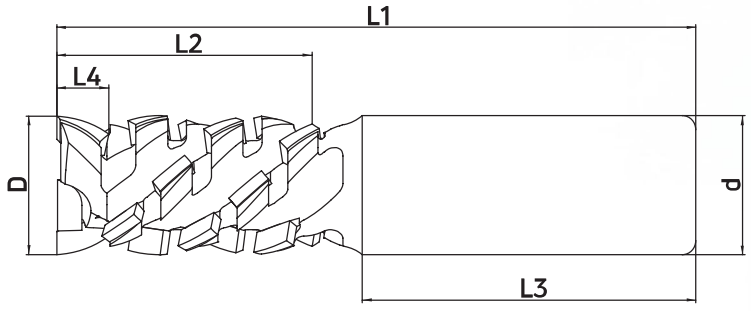
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
25	37	10	20	50	100	2+2	35°	24,000	S12655
25	47	10	20	50	110	2+2	35°	24,000	S12649
25	57	10	20	50	120	2+2	35°	24,000	S12645
25	67	10	20	50	130	2+2	35°	18,000	S12636
25	37	10	25	60	110	2+2	35°	24,000	S13602
25	47	10	25	60	120	2+2	35°	24,000	S13604
25	57	10	25	60	130	2+2	35°	24,000	S13608
25	67	10	25	60	140	2+2	35°	18,000	S13610

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: 18,000 - 24,000

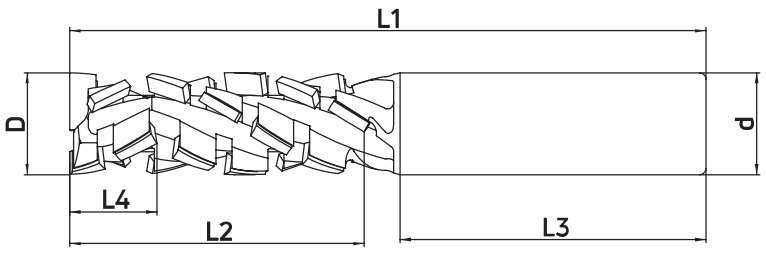
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
25	25	8	20	50	85	2+2	45°	24,000	S11946
25	37	8	20	50	100	2+2	45°	24,000	S12079
25	45	8	20	50	110	2+2	45°	24,000	S11944
25	45	16	20	50	110	2+2	45°	24,000	S13550
25	53	8	20	50	120	2+2	45°	24,000	S13522
25	53	16	20	50	120	2+2	45°	24,000	S13552
25	69	8	20	50	130	2+2	45°	18,000	S13534
25	69	16	20	50	130	2+2	45°	18,000	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: 18,000 - 24,000

Recommended for use on Hydro-Grip and ThermoGrip chuck.

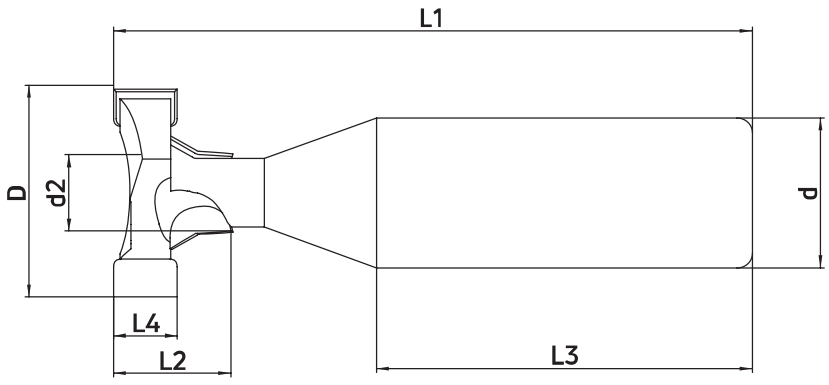
Max. panel thickness (mm)	D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)	Id-No, (Lh)
20÷22	14	25	9.5	16	50	80	2+2	30°	24,000	S14061*	S14062*
20÷28	16	30	10	16	50	85	2+2	30°	24,000	S14059	S14060
30	16	35	14	16	50	90	2+2	30°	18,000	S15690*	S15691*
35	16	45	13	16	50	100	2+2	30°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

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

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

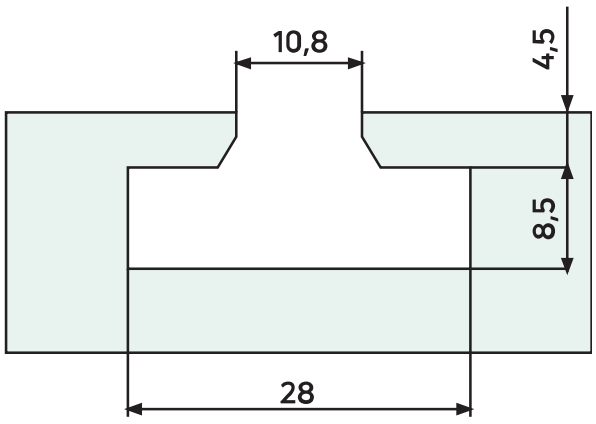
Feed speed: up to 10 m/min

Max. rpm: 18,000

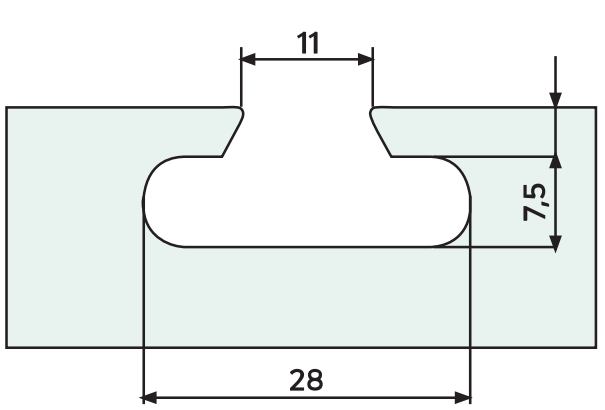
D (mm)	d2 (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	α	Max. rpm	Id-No. (Rh)
28	10.8	15.6	8.5	20	50	85	2+2	0°/15°	18,000	S14570
28	11	15	7.5	20	55	79	2+2	0°/15°	18,000	S14571
33.8	11.3	15	9.9	20	55	77	2+2	0°/15°	18,000	S14572

PROFILE EXAMPLES

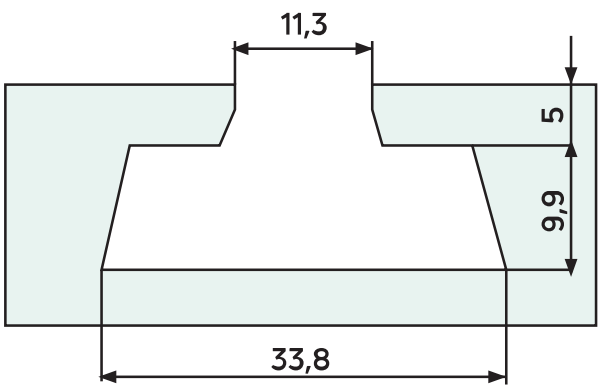
S14570



S14571



S14572

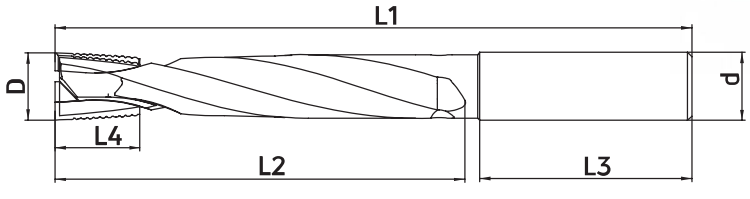


Helical router bit for locks

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

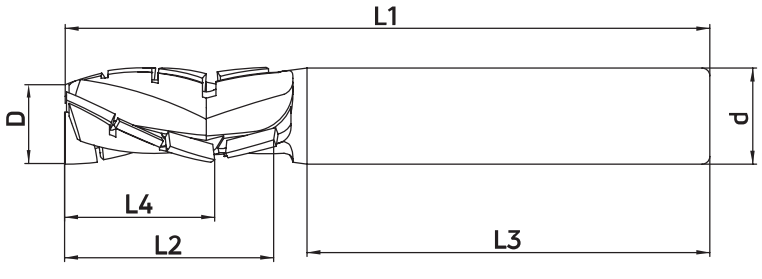
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
16	90	20	16	50	150	2	14,000	ES0185

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

Can be used with any type of chuck.

D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
12	16	10	12	47	70	3+1	24,000	S13494
12	21	13	12	50	75	3+1	24,000	S13492
12	26	18	12	50	80	3+1	24,000	S13490
14	30	22	12	50	85	3+1	24,000	S13456
16	35	28	16	50	95	3+1	24,000	S13988

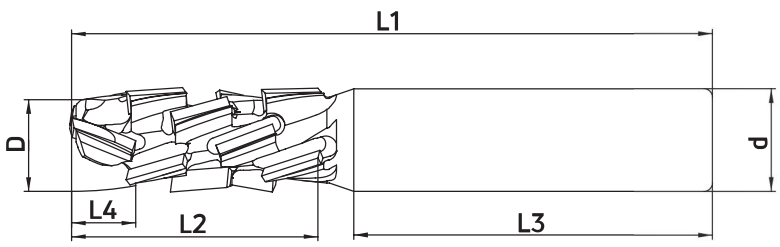
Recommended for **AEROTECH®**

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

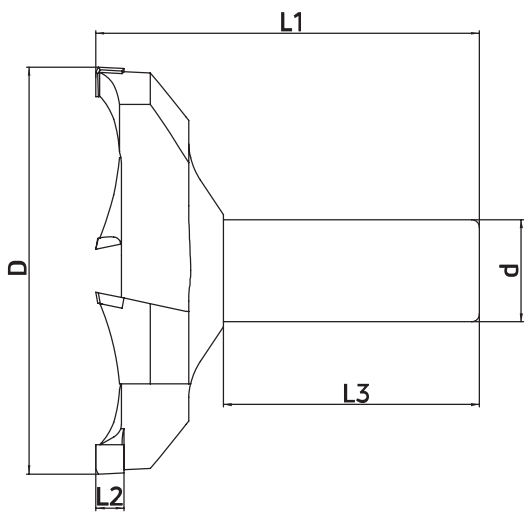
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
12	23	7.5	12	42	70	3	24,000	S14599
12	28.5	7.5	12	42	75	3	24,000	S14300
14	34	7.5	12	42	80	3	24,000	S14600

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

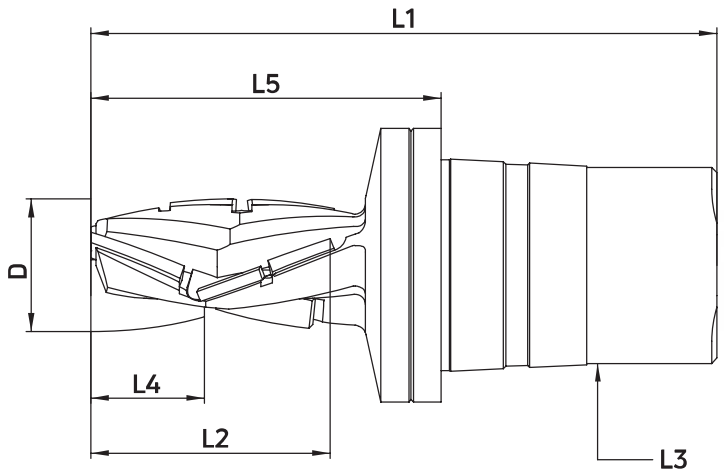
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
60	5.5	20	50	75	4	12°	16,500	S14414
80	5.5	20	50	75	4	15°	16,500	S14160

Cutter with HSK20E cone

heavy metal body

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For CABINET nesting.

Machining operations on chipboard or MDF, both faced and raw, with melamine film, HPL, laminates and plywood.

DESIGN

DP plunging tip.

Heavy metal body.

Sharpening area: 2.0 mm

NOTES

Feed speed: up to 25 m/min

Max. rpm: 24,000

D (mm)	L2 (mm)	L4 (mm)	L3 (mm)	L5 (mm)	Panel thickness (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
12	21	13	HSK20E	36	18÷19	61	3	24,000	S14434
12	25	18	HSK20E	39	20÷22	64	3	24,000	S14510

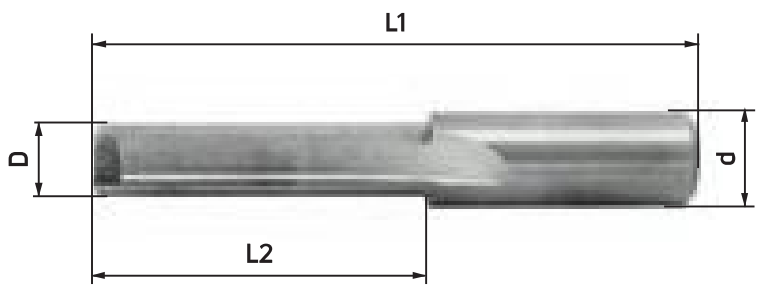
Specifically designed for

AEROTECH® SYSTEM E

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

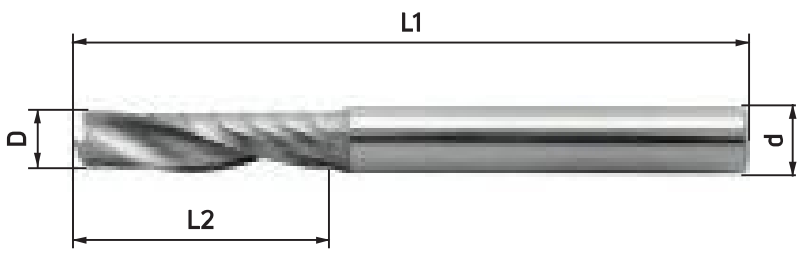
*Made from special high-resistance steel.

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.

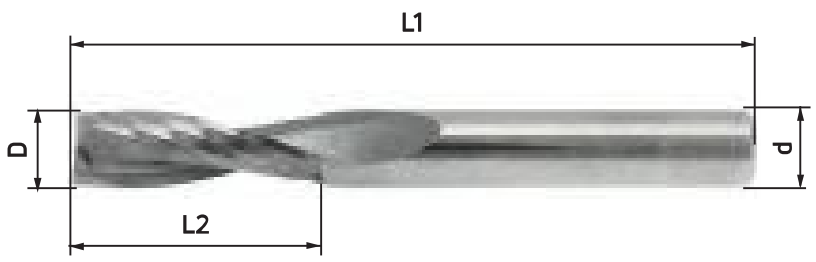
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	1	C01824
4	15	4	50	1	C01825
5	17	5	50	1	C01826
6	22	6	60	1	C01827
8	22	8	70	1	C01823
8	32	8	80	1	C05361
10	32	10	70	1	C01828
10	42	10	80	1	C05362
10	52	10	90	1	C04904
12	32	12	80	1	C01829

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.

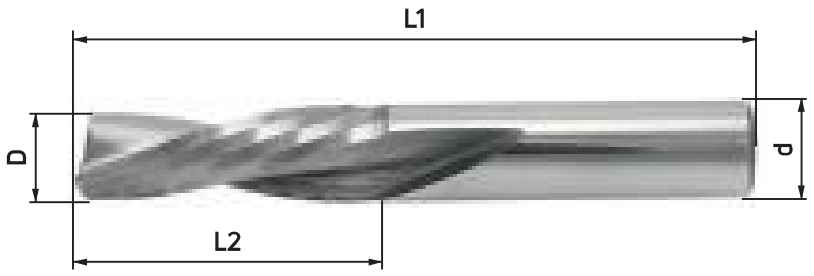
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	2	D00106
3	12	6	60	2	D01762
3	12	8	60	2	D02589
4	15	4	50	2	D00107
4	15	6	60	2	D01763
4	15	8	60	2	D00700
5	17	5	50	2	D00105
5	17	6	60	2	D03560
5	17	8	60	2	D02590
6	27	6	70	2	D00108
6	27	8	70	2	D01905
7	32	8	80	2	D03116
8	22	8	70	2	D00463
8	32	8	80	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

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.

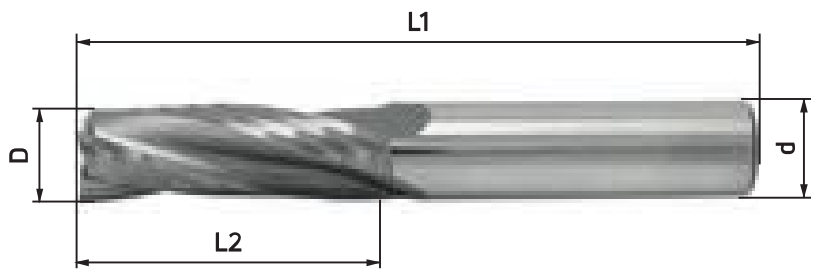
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	2	D00858
3	12	6	60	2	D04110
3	12	8	60	2	D01632
4	15	4	50	2	D00859
4	15	6	60	2	D01886
4	15	8	60	2	D01887
5	17	5	50	2	D00860
5	17	6	60	2	C03339
5	17	8	60	2	D04111
6	27	6	70	2	D00861
6	27	8	70	2	C05256
8	22	8	70	2	D00862
8	32	8	80	2	D01331
8	42	8	90	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

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.

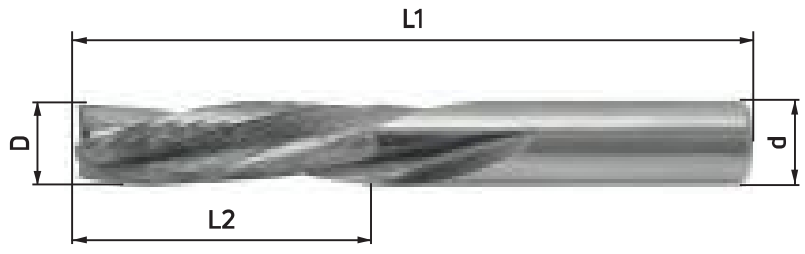
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
8	32	8	80	3	C02154
10	32	10	80	3	C01687
10	42	10	90	3	C02155
12	35	12	80	3	C01688
12	42	12	90	3	C02156
12	52	12	100	3	C05363
14	58	14	110	3	C02157
16	35	16	90	3	C02158
16	55	16	110	3	C00390
16	72	16	120	3	C05364
18	55	18	110	3	C02159
20	60	20	120	3	C02160
20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

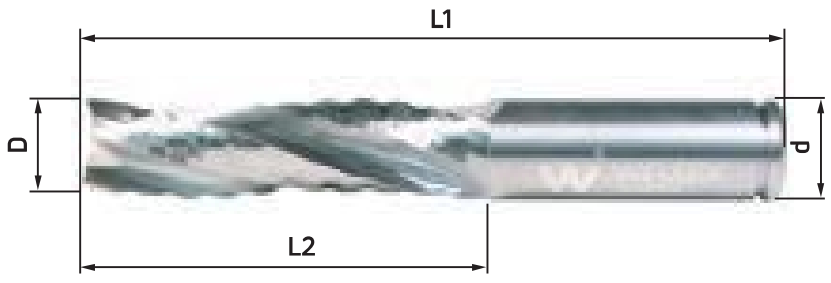
Chips discharged downwards.

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.

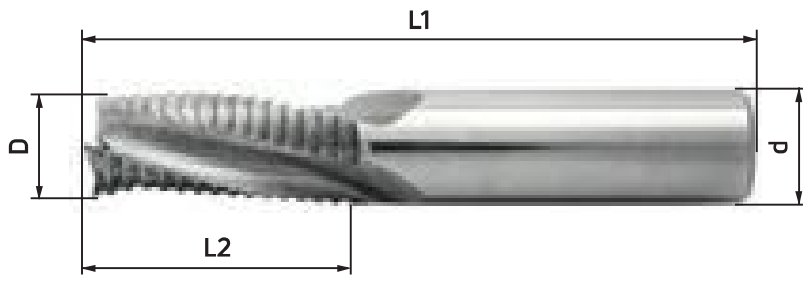
Challenge combines the function of a chip breaker tool with that of a finishing cutter.

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.

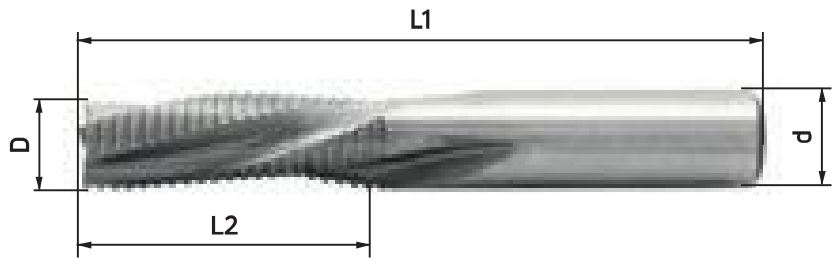
Chips discharged upwards.

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
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.

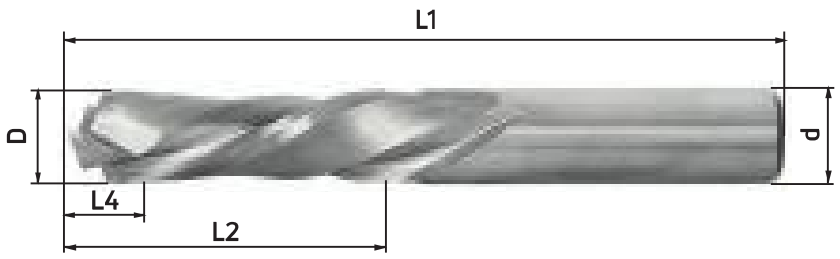
Chips discharged downwards.

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.

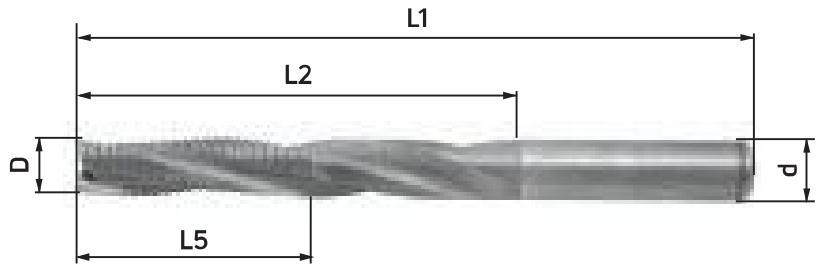
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
4	15	7	4	50	1+1	C05367
5	22	8	5	60	1+1	C05368
6	22	8	6	60	1+1	C05369
8	32	7	8	80	2+2	C02708
10	32	7	10	80	2+2	C02799
10	42	7	10	90	2+2	C05370
12	42	7	12	90	2+2	C02800
12	52	7	12	100	2+2	C05371
16	55	24	16	110	2+2	C02677
18	55	30	18	110	2+2	C02633

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

ThermoGrip 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)	L2 (mm)	Id-No.
12 G6	28	75	47	C04891
16 G6	28	75	50	C04892
20 G6	36	75	52	C04893
25 G6	36	75	52	C04894

ThermoGrip 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

Hydro-Grip 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)	L2 (mm)	Id-No.
12	32	61	C04376
16	38	61	C04914
20	40	73	C04915
25	45	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.

NOTES

To be used with ER32 or ER40 collet.

D (mm)	H (mm)	Collet	Id-No. (Rh)
50	70	ER32	C02127
63	80	ER40	C02135

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.

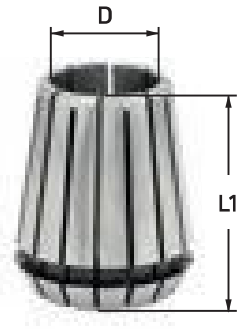
NOTES

To be used with ER32 collet.

*With assembled aluminium flange.

D (mm)	H (mm)	Collet	Id-No. (Rh)
50	55	ER32	C00100
50	55	ER32	*C01189

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 (mm)	L1 (mm)	Id-No.
3/2	40	C00051
4/3	40	C00052
5/4	40	C00053
6/5	40	C00054
7/6	40	C00055
8/7	40	C00056
9/8	40	C00057
10/9	40	C00058
11/10	40	C00046
12/11	40	C00059
13/12	40	C00047
14/13	40	C00060
15/14	40	C00061
16/15	40	C00048
17/16	40	C00062
18/17	40	C00063
19/18	40	C00064
20/19	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 (mm)	L1 (mm)	Id-No.
4/3	46	C00065
5/4	46	C01548
6/5	46	C00066
7/6	46	C01546
8/7	46	C00067
10/9	46	C00068
12/11	46	C00069
13/12	46	C01547
14/13	46	C00070
16/15	46	C00071
18/17	46	C00072
19/18	46	C01441
20/19	46	C00073
21/20	46	C01549
25/24	46	C00074

Universal disassembly device for chucks

DESCRIPTION	Id-No.
For HSK 63F chuck. >	C04714
For ISO30 chuck.. >	C04719

MACHINES / APPLICATIONS

For chucks with HSK63F and ISO30 shanks.

For assembly and disassembly of tools on chuck body.

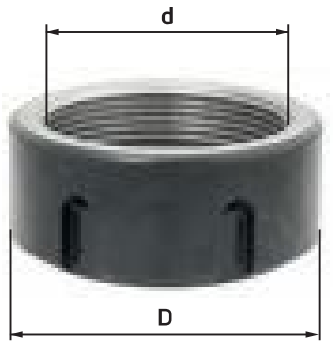
DESIGN

Universal disassembly device.

NOTES

Does not damage the surface of the chuck..

Ring nut for “ER32” chuck for precision collet



D (mm)	d	Id-No. (Rh)	Id-No. (Lh)
50	M40X1.5	C00089	C00090
50	M40X1.5	*C04927	*C05132

MACHINES / APPLICATIONS

Collect tightening ring nut.

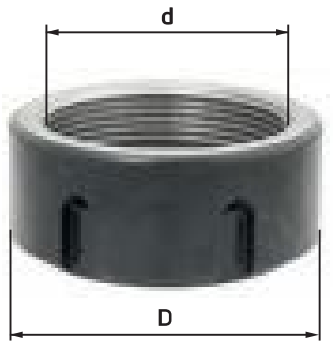
DESIGN

*Ring nut with ball bearings.

NOTES

-

Ring nut for “ER40” chuck for precision collet



D (mm)	d	Id-No. (Rh)	Id-No. (Lh)
63	M50X1.5	C00093	C03706
63	M50X1.5	*C05133	*C05134

MACHINES / APPLICATIONS

Collect tightening ring nut.

DESIGN

*Ring nut with ball bearings.

NOTES

-

Key wrench for “ER32” and “ER40” ring nut

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

MACHINES / APPLICATIONS

Wrench for removing ring nuts.

DESIGN

For “ER32” ring nut.

For “ER40” ring nut.

NOTES

*Ring nut with ball bearings.

Hook wrench for “ER40” ring nut

DESCRIPTION	Id-No.
For “ER40” ring nut. >	C03789

MACHINES / APPLICATIONS

Wrench for removing ring nuts.

DESIGN

For “ER40” ring nut.

NOTES

-

Aerotech®

Dust Free Nesting and Routing

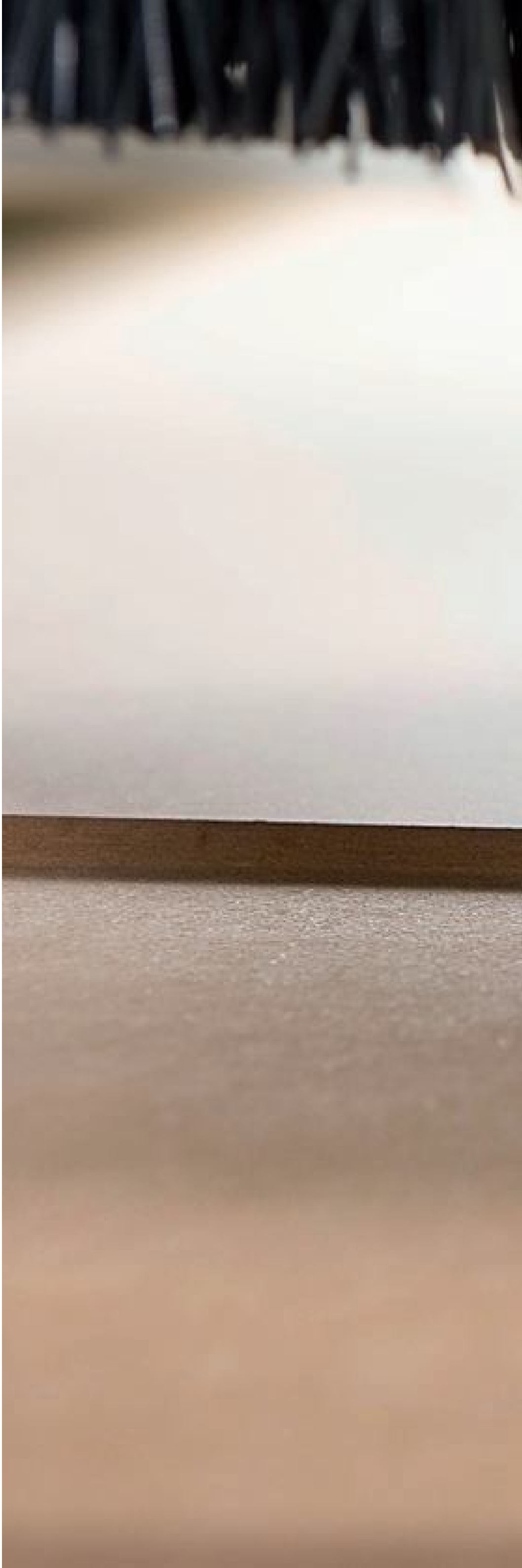
Dust free nesting and routing

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®.



Dust Free:
a winning operation.

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

The Faceplate

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

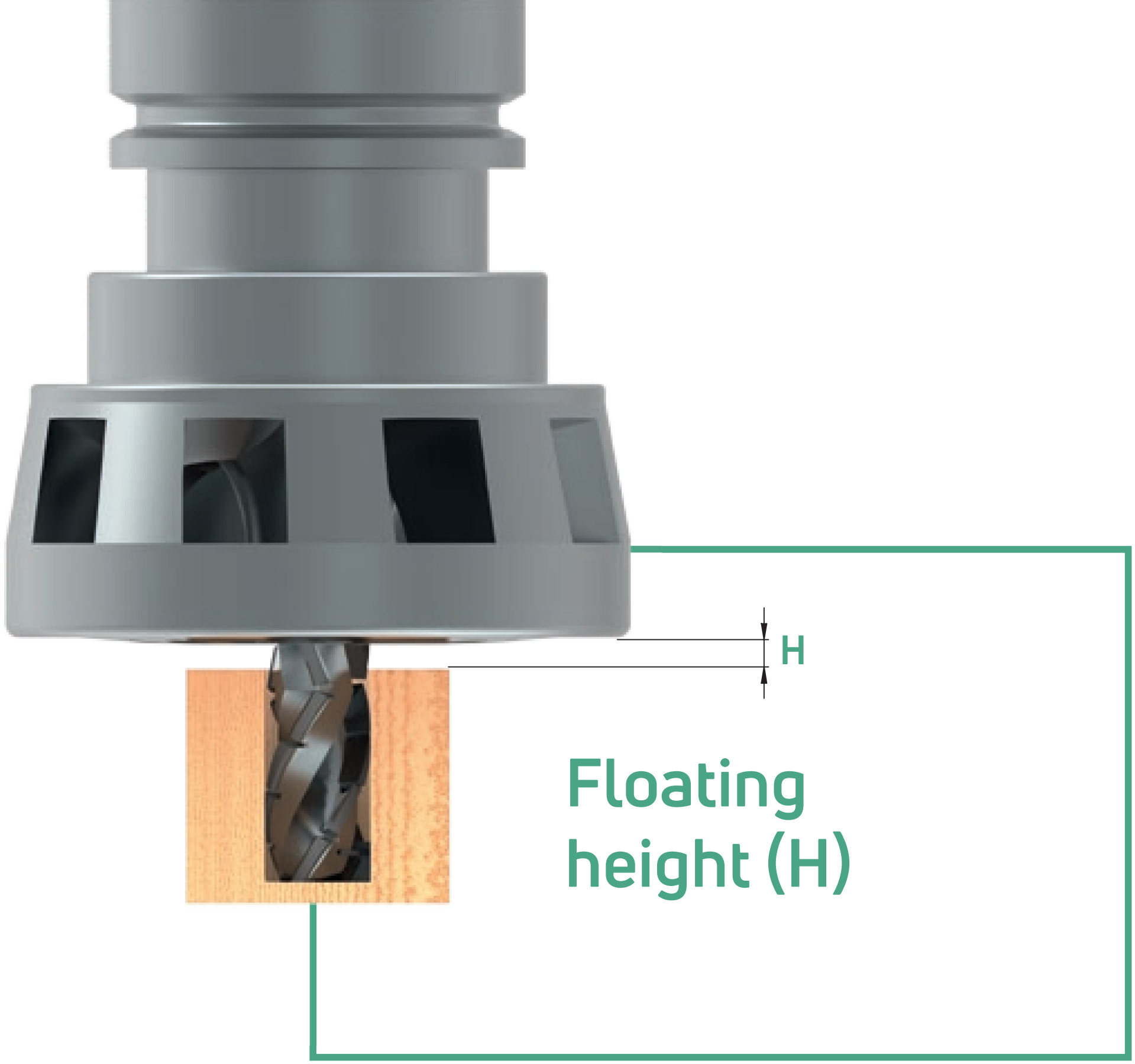
The Faceplate is a patented grille that prevents the machining chips from entering and jamming the Aerotech®; it also acts as a defensive shield, protecting the Aerotech® from accidental damage.

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

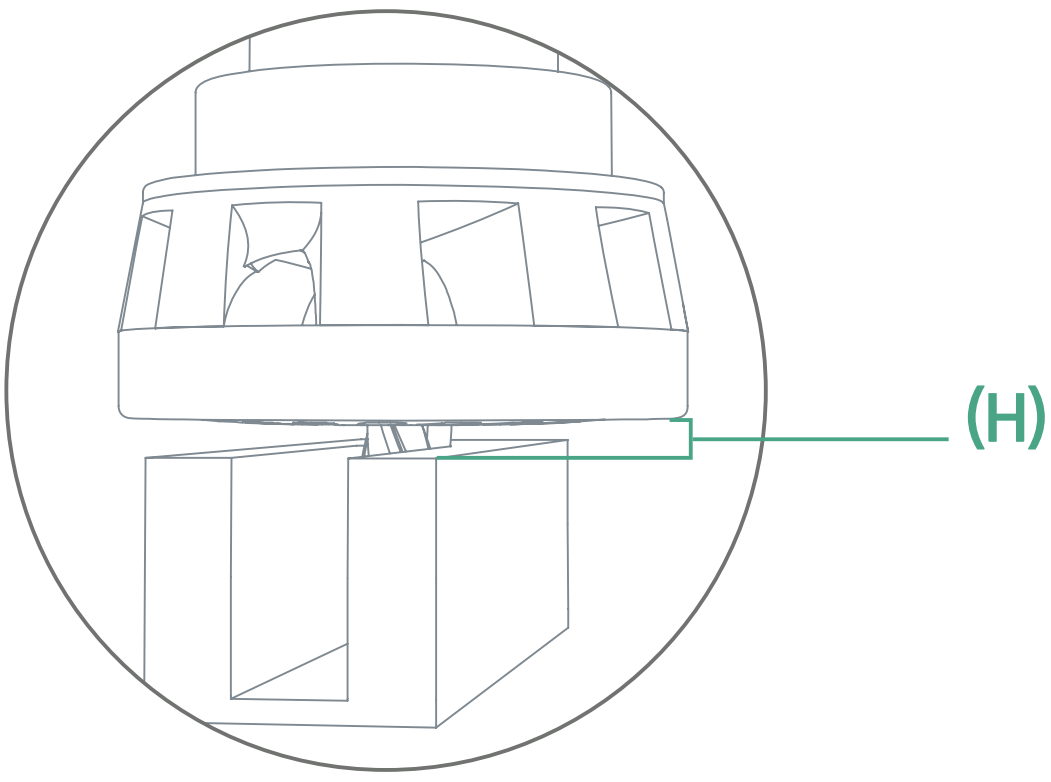
	NESTING CABINET with straight tools			NESTING MDF with profiled tools		ROUTING	
	SYSTEM E	HYDRO	UniT	SYSTEM E	HYDRO	HYDRO	UniT
CLAMPING SYSTEM	HSK20E	Hydraulic (with reduction sleeves)	Mechanical (with collets)	HSK20E	Hydraulic (with reduction sleeves)	Hydraulic (with reduction sleeves)	Mechanical (with collets)
TOOL INTERFACE	HSK20E cone	Cylindrical shank	Cylindrical shank	HSK20E cone	Cylindrical shank	Cylindrical shank	Cylindrical shank
PERFORMANCE	★★★	★★★	★★☆	★★★	★★½	★★★	★★☆
PRODUCTIVITY	★★★	★★★	★★☆	★★★	★★★	★★★	★★☆
AEROTECH DIAMETER (mm)	95	95	105	105	105	105	105
FLANGE TYPE	Faceplate	Faceplate	Faceplate	Standard	Standard	Standard	Standard
MACHINE INTERFACE	HSK63F	HSK63F ISO30	HSK63F	HSK63F	HSK63F	HSK63F	HSK63F
TOOL DIAMETER (mm)	Max 25.5	Max 25.5	Max 16.0	Max 72.5	Max 72.5	Max 72.5	Max 16.0



Floating height (H)

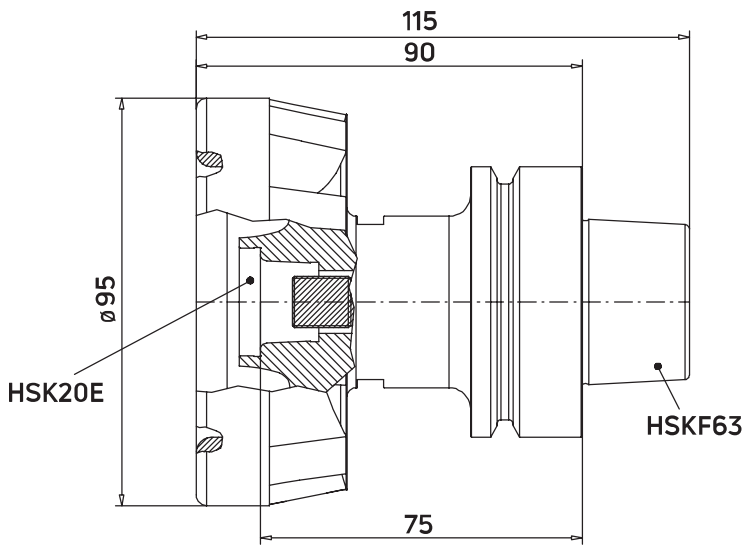
The use of Aerotech® at a floating height **(H) less than 2.0 - 3.0 mm** may reduce the air flow created and limit its capacity to remove dust.

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.



System E-Ø95

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 grille integrated faceplate.**

NOTES

Compatible with DP router bits with HSK20E cone.

Max. rpm: 24,000

Run-out: +/- 0.002 mm

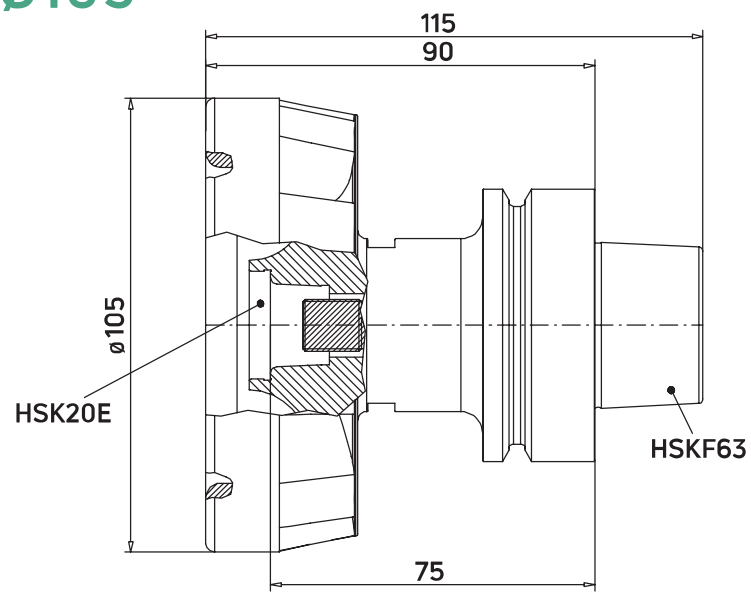
Balancing: G<2.5 at 25,000 rpm

Torque: 250 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank	Id-No.	* Id-No. PLUS - FACEPLATE
95	62.5	HSK63F	HSK20E	C05201	-
95	25.5	HSK63F	HSK20E	-	C05203

System E-Ø105

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

Only compatible with cutters with HSK20E cone.

Max. rpm: 24,000

Run-out: +/- 0.002 mm

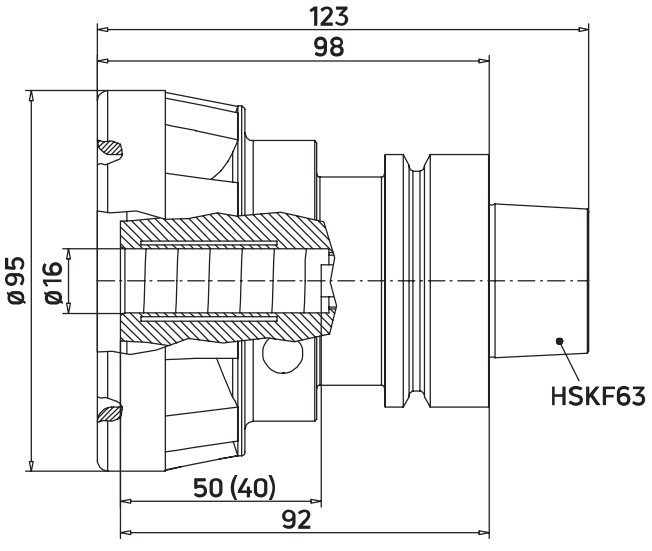
Balancing: G<2.5 at 25,000 rpm

Torque: 250 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank	Id-No.	* Id-No. PLUS - FACEPLATE
105	72.5	HSK63F	HSK20E	C05202	-
105	31.5	HSK63F	HSK20E	-	C05204

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

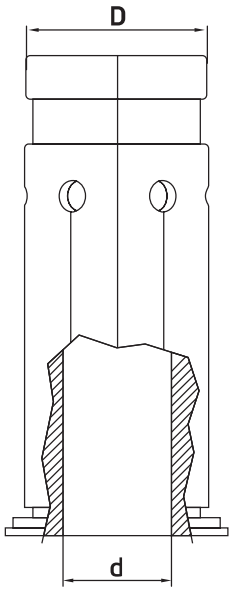
Balancing: G<2.5 at 25,000 rpm

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

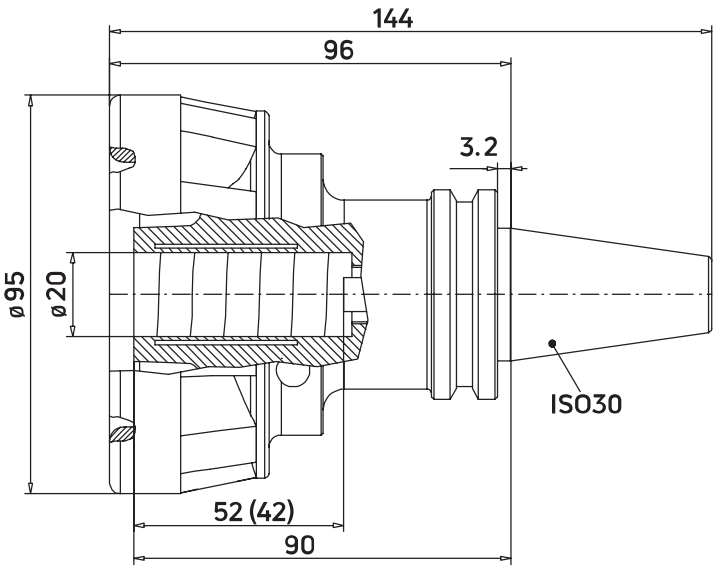
Reducer bushing



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

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

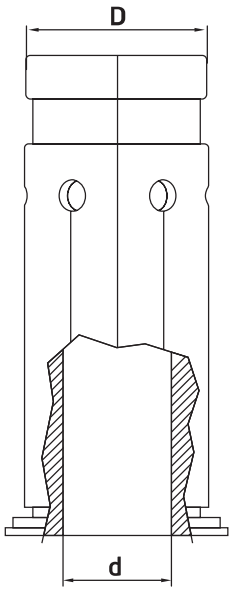
Balancing: G<2.5 at 25,000 rpm

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	-
95	25.5	ISO30	6-20 max	-	C05320

DESCRIPTION

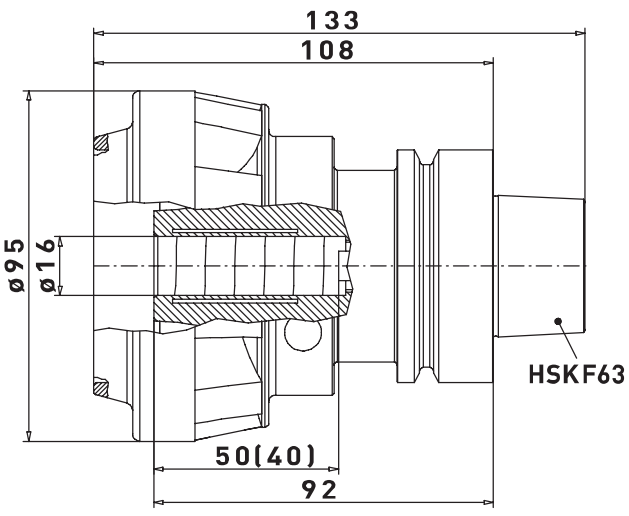
Reducer bushing.



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

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

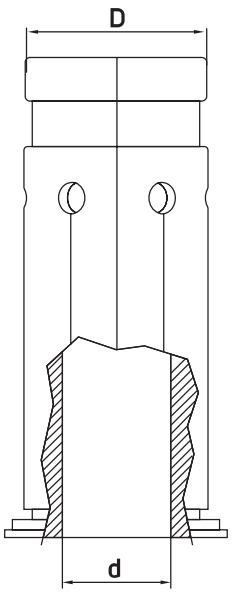
Balancing: G<2.5 at 25,000 rpm

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

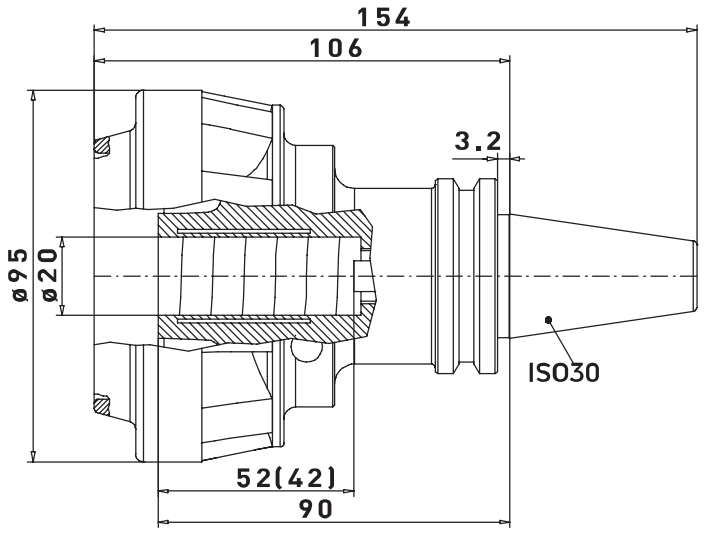
Reducer bushing



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

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

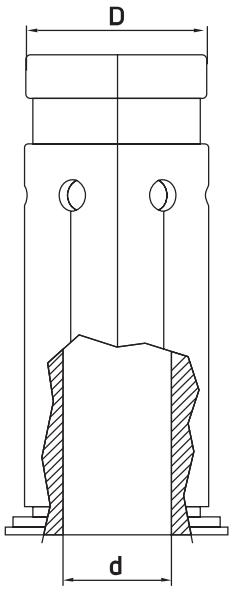
Balancing: G<2.5 at 25,000 rpm

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	-
95	25.5	ISO30	6-20 max.	-	C05342

DESCRIPTION

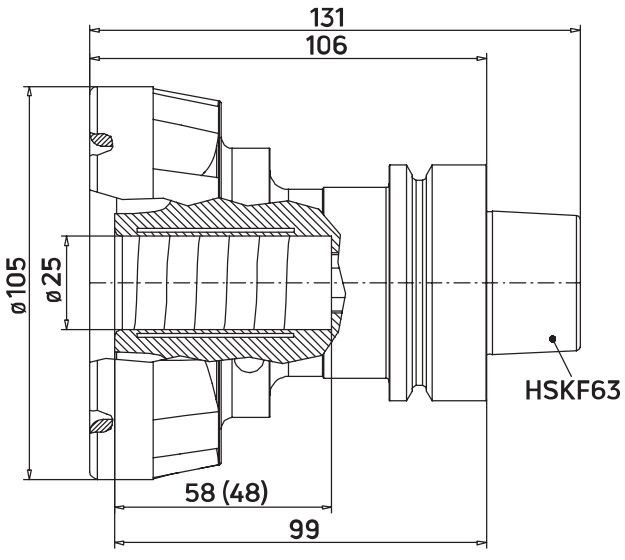
Reducer bushing



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

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

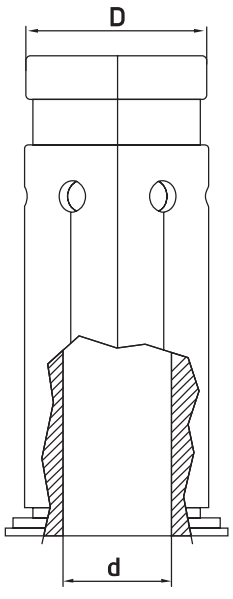
Balancing: G<2.5 at 25,000 rpm

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

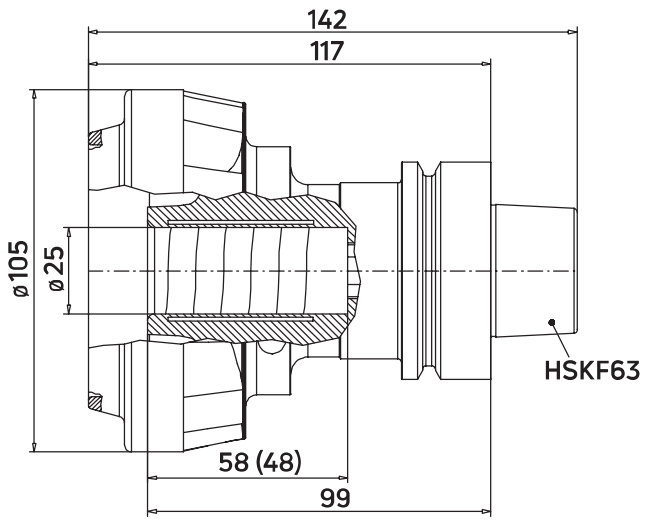
Reducer bushing



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

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

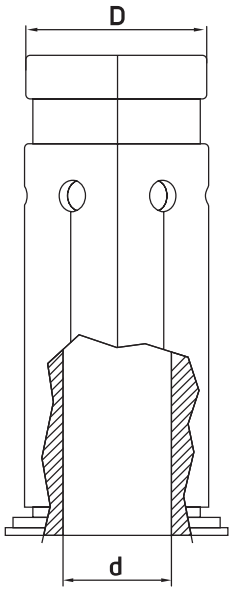
Balancing: G<2.5 at 25,000 rpm

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

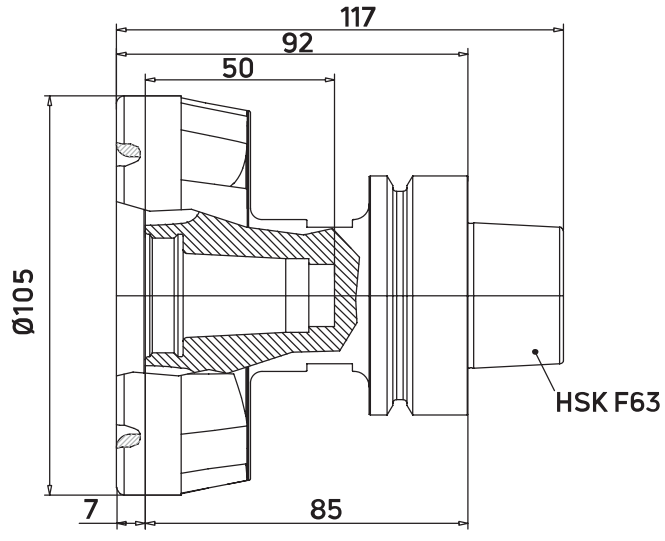
Reducer bushing



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

UniT

for DP router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC cutting applications on Flat Table machines and/or Pod & Rail.

DESIGN

Mechanical clamping system (with precision collets).

Monobloc steel body.

Heat treated up to 58 HRC.

9-fan turbine.

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

NOTES

Only compatible with DP straight tools.

Max. rpm: 24,000

Run-out: +/- 0.002 mm

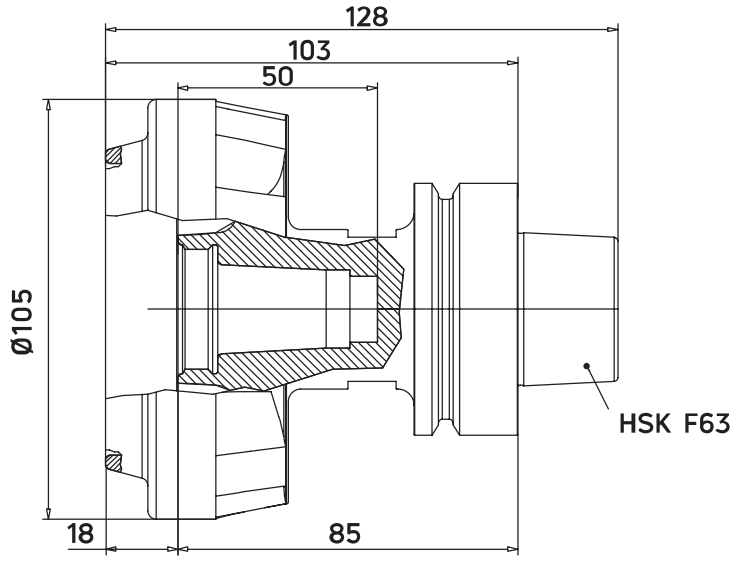
Balancing: G<2.5 at 25,000 rpm

Torque: 100 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
105	16	HSK63F	6-16 max.	C05441	-
105	16	HSK63F	6-16 max.	-	C05442

UniT

for HW router bits



MACHINES / APPLICATIONS

Chuck with integrated extractor turbine.

CNC cutting applications on Flat Table machines and/or Pod & Rail.

DESIGN

Mechanical clamping system (with precision collets).

Monobloc steel body.

Heat treated up to 58 HRC.

9-fan turbine.

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

NOTES

Only compatible with HW straight tools.

Max. rpm: 24,000

Run-out: +/- 0.002 mm

Balancing: G<2.5 at 25,000 rpm

Torque: 100 Nm

D. Aerotech (mm)	D. max. router bits (mm)	Machine shank	Router bits shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
105	16	HSK63F	6-16 max.	C05901	-
105	16	HSK63F	6-16 max.	-	C05902

Precision collet for Aerotech® UniT

Tool shank (mm)	Id-No.
6	C05443
8	C05444
10	C05445
12	C05446
14	C05447
16	C05448

Locking device for Aerotech® UniT

Locking device for collet clamping system
(max. tool diameter 16 mm/ total internal lenghts 75 mm).

Required for installing the cutters on Aerotech UniT.

Id-No.
C05453

Torque wrench for Aerotech® UniT

Torque wrench Nm 80 + s8 torque wrench extension.

Strongly recommended.

Id-No.
C05454

Tightening key

Tightening key 19x22.

Id-No.
C05909

HSK63F chuck

for router bits with HSK20E cone

Id-No.
C05343

MACHINES / APPLICATIONS

Chuck for machining wood.

DESIGN

Machine interface: HSK63F.

Tool interface: HSK20E..

NOTES

Specifically designed for router bits with HSK20E cone.

Adapter for sharpening

Id-No.
C05344

MACHINES / APPLICATIONS

Adapter for sharpening.

DESIGN

25 mm diameter.

NOTES

Specifically designed for router bits with HSK20E cone.

Aerotech SYSTEM E tool assembly and disassembly kit

Id-No.
C05391

MACHINES / APPLICATIONS

Tool assembly and disassembly kit.

DESIGN

-

NOTES

Specifically designed for Aerotech SYSTEM E.

GENERAL CONDITIONS

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DGUV Test
HO 152011
fliehkraftgeprüft
overspeed tested

Procedure qualificate
IIS CERT
EN 13134

Brasatori qualificati
IIS CERT
EN 13585

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