wirutex
hi-tech tools

CATALOGUE
ROUTER BITS

P 01

Summary

List of symbols and abbreviations

SYMBOLS

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

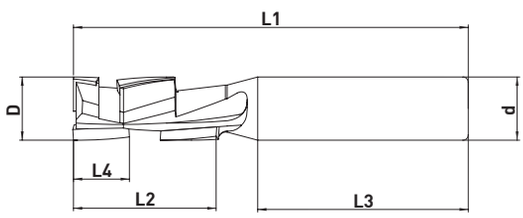
ABBREVIATIONS

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

NEW-Mini Z=1+1 router bit

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

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

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.

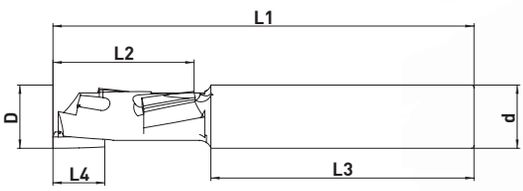
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
10	27	10	12	40	75	1+1	10°	24,000	S14461
12	27	10	12	40	75	1+1	15°	24,000	P03770
12	35	10	12	40	83	1+1	15°	24,000	P03790
16	27	10	16	50	85	1+1	20°	24,000	P03810
16	35	10	16	50	95	1+1	20°	24,000	P03830
16	44	10	16	50	105	1+1	20°	24,000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

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 unpolished.

DESIGN

Socket-head cutting edge with body inHWM.

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.

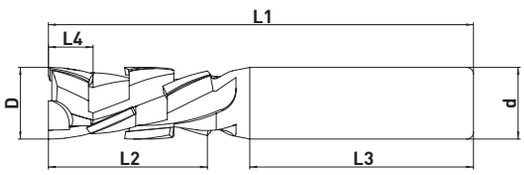
Max. rpm: 18,000 - 24,000.

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 router bit

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

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

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.

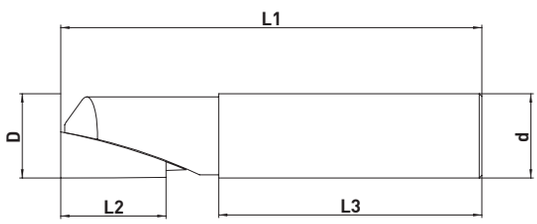
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
16	27	8.5	16	50	85	2 + 2	25°	24,000	P04010
16	35	10	16	50	95	2 + 2	25°	24,000	P04030
16	44	10	16	50	105	2 + 2	25°	18,000	P04050
18	27	10	20	50	85	2 + 2	25°	24,000	P04070
18	35	10	20	50	95	2 + 2	25°	24,000	P04090
18	44	10	20	50	105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

Router bit with 1 whole tip

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.

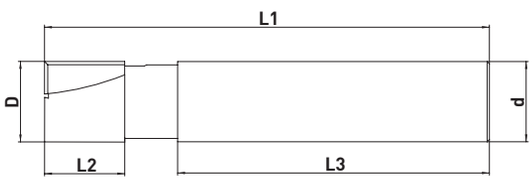
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
6	12	6	47	60	1	24,000	S14463
8	16	8	53	70	1	24,000	S14465
10	22	10	53	80	1	24,000	S14467
12	26	12	50	80	1	24,000	S14469
16	30	16	50	85	1	18,000	S14471

Router bit with 2 whole tips

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 tips.

Body in solid tungsten carbide.

Sharpening area: 3.0 mm.

NOTES

Feed speed: from 10 to 25 m/min.

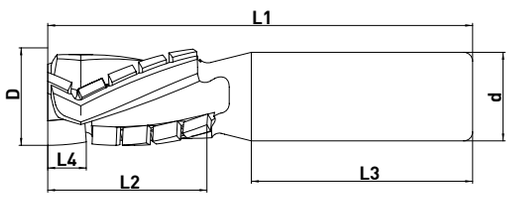
Max. rpm: 18,000 - 24,000.

D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
10	22	10	50	80	2	24,000	ES0231
12	26	12	50	80	2	24,000	ES0233
16	30	16	50	85	2	18,000	S14528

NEW-helical multicutting router bit

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring and sizing.

Machining operations on melamine, unpolished chipboard, 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.

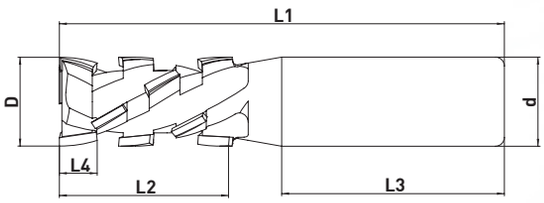
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
22	26	7	20	50	80	3+3	35°	24,000	S14473
22	36	7	20	50	90	3+3	35°	24,000	S14475
22	46	7	20	50	100	3+3	35°	24,000	S14477
25	26	7	25	55	85	3+3	35°	24,000	S14479
25	36	7	25	55	95	3+3	35°	24,000	S14573
25	46	7	25	55	105	3+3	35°	24,000	S14575

TiGi-D.20 router bit

cutting edges angle 30°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

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

DESIGN

HW plunging tip.

MINI-type tips in DP.

Positive and negative shear angle.

Sharpening area: 1.0 mm.

NOTES

DP plunging tip on request.

Minimal workable workpiece thickness = L4 + 3 mm.

Good cutting quality.

Feed speed: up to 20 m/min.

Max. rpm: 18,000 - 24,000.

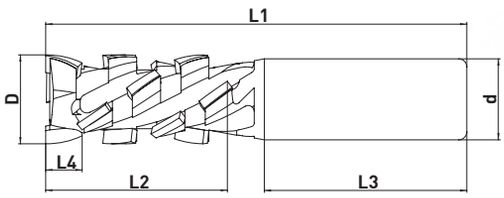
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
20	27	8.7	20	50	85	2+2	30°	24,000	S13584
20	36	8.7	20	50	95	2+2	30°	24,000	S13586
20	46	8.7	20	50	105	2+2	30°	24,000	S13588
20	57	8.7	20	50	115	2+2	30°	18,000	S13590
20	65	8.7	20	50	125	2+2	30°	18,000	S14530

TiCi-D.20 router bit

cutting edges angle 35°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

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

Machining operations on unpolished chipboard, 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.

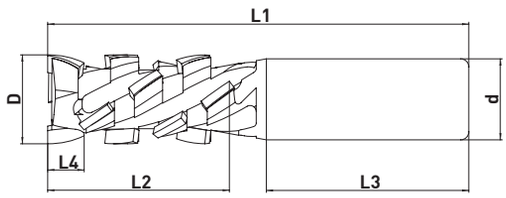
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
20	25	9	20	50	85	2+2	35°	24,000	S14481
20	35	9	20	50	95	2+2	35°	24,000	S14483
20	45	9	20	50	105	2+2	35°	24,000	S14485
20	55	9	20	50	115	2+2	35°	18,000	S14487
20	55	15	20	50	115	2+2	35°	18,000	S14489
20	25	9	25	60	95	2+2	35°	24,000	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	15	25	60	125	2+2	35°	18,000	S14499

TiCi-D.22 router bit

cutting edges angle 35°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

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

Machining operations on unpolished chipboard, 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.

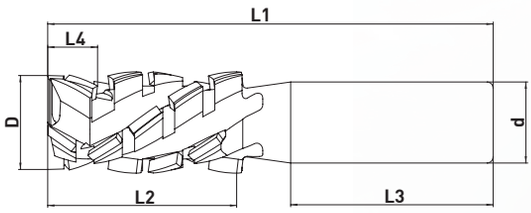
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
22	25	9	20	50	85	2+2	35°	24,000	S13612
22	36	9	20	50	95	2+2	35°	24,000	S13616
22	47	9	20	50	105	2+2	35°	24,000	S13618
22	58	9	20	50	120	2+2	35°	18,000	S13622
22	58	15	20	50	120	2+2	35°	18,000	S14501
22	64	9	20	50	125	2+2	35°	18,000	S13624
22	64	15	20	50	125	2+2	35°	18,000	S14503
22	25	9	25	60	95	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	58	9	25	60	130	2+2	35°	18,000	S13636
22	58	15	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 router bit

cutting edges angle 35°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For contouring, boring and sizing.

Machining operations on unpolished chipboard, 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.

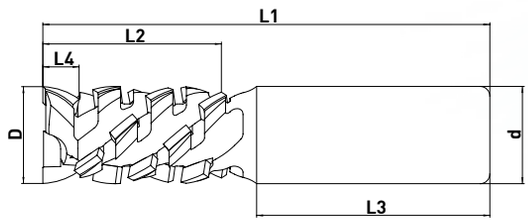
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
25	37	10	20	50	100	2+2	35°	24,000	S12655
25	47	10	20	50	110	2+2	35°	24,000	S12649
25	57	10	20	50	120	2+2	35°	24,000	S12645
25	67	7	20	50	130	2+2	35°	18,000	S12634
25	67	10	20	50	130	2+2	35°	18,000	S12636
25	37	10	25	60	110	2+2	35°	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 router bit

cutting edges angle 45°

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

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

Machining operations on unpolished chipboard, 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.

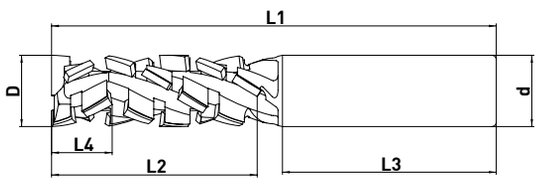
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
25	23	8	20	50	85	2+2	45°	24,000	S11946
25	37	8	20	50	100	2+2	45°	24,000	S12079
25	46	8	20	50	110	2+2	45°	24,000	S11944
25	45	18	20	50	110	2+2	45°	24,000	S13550
25	55	8	20	50	120	2+2	45°	24,000	S13522
25	55	18	20	50	120	2+2	45°	24,000	S13552
25	70	8	20	50	130	2+2	45°	18,000	S13534
25	70	18	20	50	130	2+2	45°	18,000	S13536

Batch-One router bit

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.

MAXI-type tips in DP.

Heavy metal body.

Positive and negative shear angle.

Sharpening area: 2.5 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.

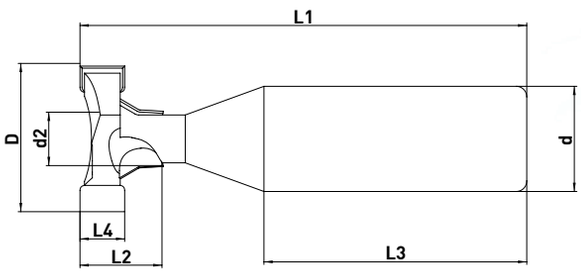
Recommended for use on Hydro-Grip and ThermoGrip chuck.

D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
14	25	10	16	50	80	2+2	30°	24,000	S14061
16	30	10	16	50	85	2+2	30°	24,000	S14059
16	45	14	16	50	100	2+2	30°	18,000	S14193
20	70	10	20	55	135	2+2	30°	18,000	S14053

Router bit for “T” grooves

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For grooved profiling.

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

DESIGN

DP tips.

Positive and negative shear angle.

NOTES

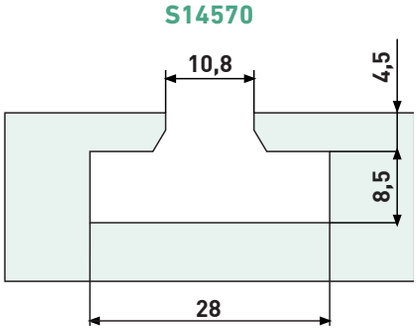
Feed speed: up to 10 m/min.

Max. rpm: 18,000.

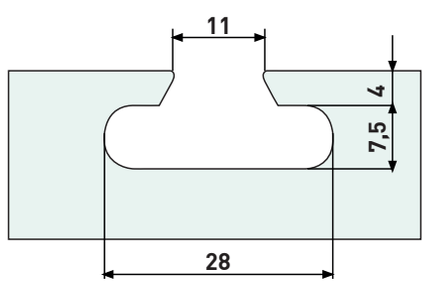
D (mm)	d2 (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	α	Max. rpm	Id-No. (Rh)
28	10.8	15.6	8.5	20	50	85	2+2	0°/15°	18,000	S14570
28	11	15	7.5	20	55	79	2+2	0°/15°	18,000	S14571
33.8	11.3	15	9.9	20	55	77	2+2	0°/15°	18,000	S14572

PROFILE EXAMPLES

S14570



S14571



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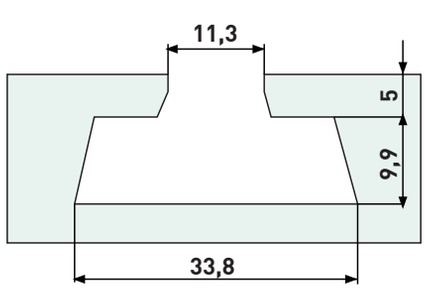
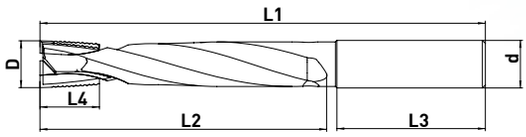


Helical router bit for locks

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.

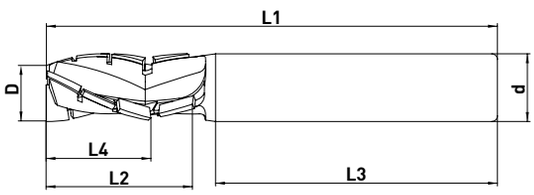
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
16	90	20	16	50	150	2	14,000	ES0185

Nesting ECO router bit

heavy metal body

DP

MEC



MACHINES / APPLICATIONS

CNC machining centres.

For CABINET nesting.

Machining operations on MDF and melamine.

DESIGN

DP plunging tip.

MAXI-type tips in DP.

Heavy metal body.

Sharpening area: 2.0 mm.

NOTES

Minimal workable workpiece thickness = L4 + 3 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	24,000	S13494
12	21	13	12	50	75	3	24,000	S13492
12	26	18	12	50	80	3	24,000	S13490
14	30	22	12	50	85	3	24,000	S13456
16	35	28	16	50	95	3	24,000	S13988

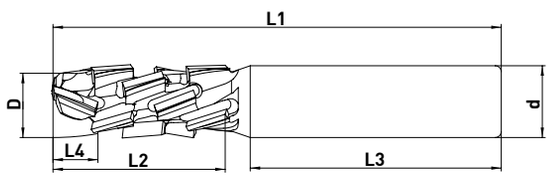
Recommended for **AEROTECH®**

Nesting HP router bit

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 + 3 mm.

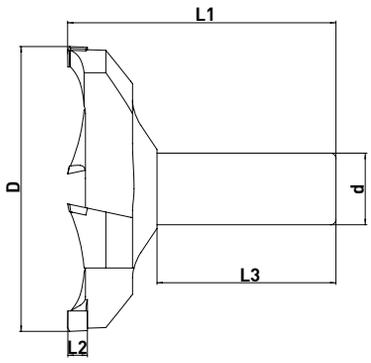
Feed speed: up to 20 m/min.
Max. rpm: 24,000.

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

Planing router bit 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.

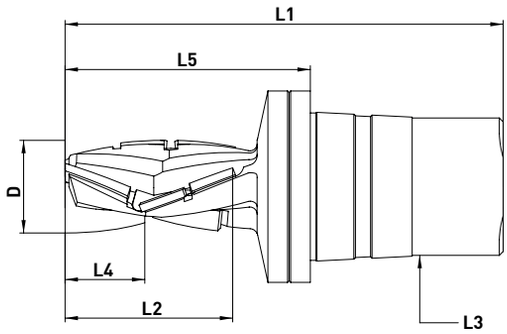
D (mm)	L2 (mm)	d (mm)	L3 (mm)	L1 (mm)	Z	Ax	Max. rpm	Id-No. (Rh)
60	5.5	20	50	75	4	12°	16,500	S14414
80	5.5	20	50	75	4	15°	16,500	S14160

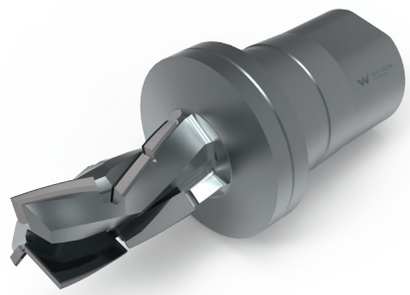
Router bit with HSK20E cone

heavy metal body

DP

MEC





MACHINES / APPLICATIONS

CNC machining centres.

For CABINET nesting.

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

DESIGN

DP plunging tip.

MAXI-type tips in DP.

Heavy metal body.

Sharpening area: 2.0 mm.

NOTES

Feed speed: up to 25 m/min.

Max. rpm: 24,000.

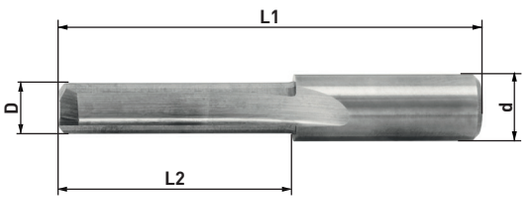
D (mm)	L2 (mm)	L4 (mm)	L3 (mm)	L5 (mm)	Panel thickness (mm)	L1 (mm)	Z	Max. rpm	Id-No. (Rh)
12	21	13	HSK20E	36	18÷19	61	3	24,000	S14434
12	25	18	HSK20E	39	20÷22	64	3	24,000	S14510

Specifically designed for
AEROTECH® SYSTEM E

Straight cutting edge router bit Z=2+1

HWM

MEC



MACHINES / APPLICATIONS

For 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

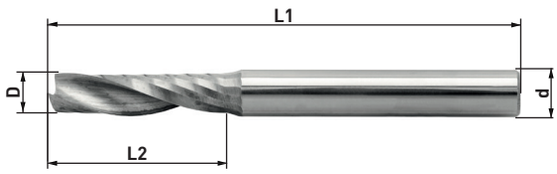
*Made from special high-resistance steel.

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.

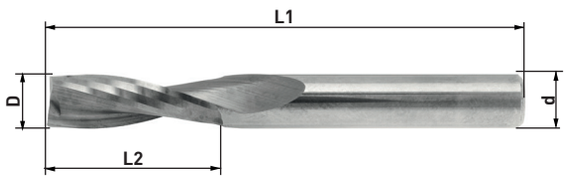
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	1	C01824
4	15	4	50	1	C01825
5	17	5	50	1	C01826
6	22	6	60	1	C01827
8	22	8	70	1	C01823
8	32	8	80	1	C05361
10	32	10	70	1	C01828
10	42	10	80	1	C05362
10	52	10	90	1	C04904
12	32	12	80	1	C01829

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.

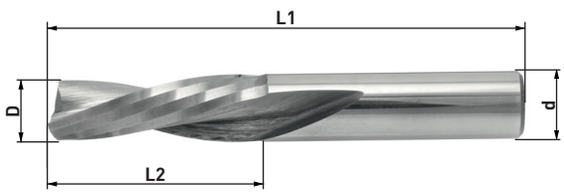
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	2	D00106
3	12	6	60	2	D01762
3	12	8	60	2	D02589
4	15	4	50	2	D00107
4	15	6	60	2	D01763
4	15	8	60	2	D00700
5	17	5	50	2	D00105
5	17	6	60	2	D03560
5	17	8	60	2	D02590
6	27	6	70	2	D00108
6	27	8	70	2	D01905
7	32	8	80	2	D03116
8	22	8	70	2	D00463
8	32	8	80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

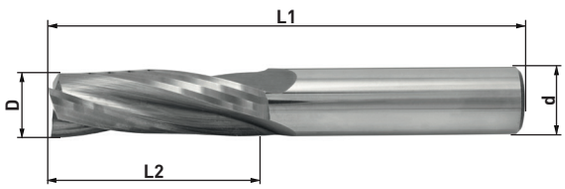
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
3	12	3	50	2	D00858
3	12	6	60	2	D04110
3	12	8	60	2	D01632
4	15	4	50	2	D00859
4	15	6	60	2	D01886
4	15	8	60	2	D01887
5	17	5	50	2	D00860
5	17	6	60	2	C03339
5	17	8	60	2	D04111
6	27	6	70	2	D00861
6	27	8	70	2	C05256
8	22	8	70	2	D00862
8	32	8	80	2	D01331
8	42	8	90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

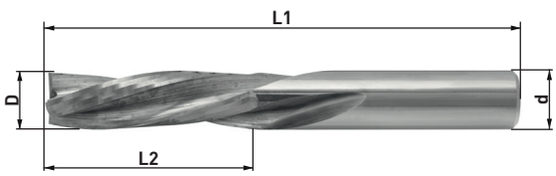
D (mm)	L2 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
8	32	8	80	3	C02154
10	32	10	80	3	C01687
10	42	10	90	3	C02155
12	35	12	80	3	C01688
12	42	12	90	3	C02156
12	52	12	100	3	C05363
14	58	14	110	3	C02157
16	35	16	90	3	C02158
16	55	16	110	3	C00390
16	72	16	120	3	C05364
18	55	18	110	3	C02159
20	60	20	120	3	C02160
20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

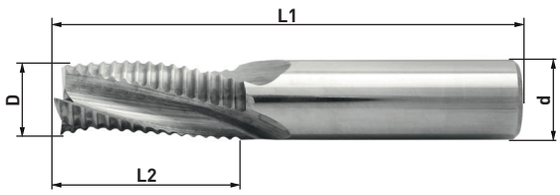
Chips discharged downwards.

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

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.

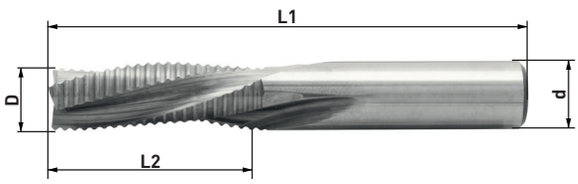
Chips discharged upwards.

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.

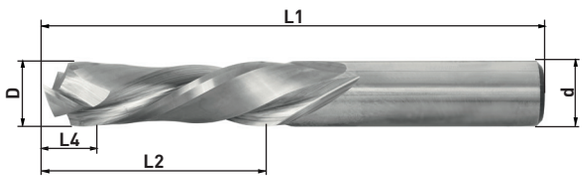
Chips discharged downwards.

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=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.

2 positive and 2 negative helical cutting edges in HW.

NOTES

Excellent finish on both sides of the workpiece.

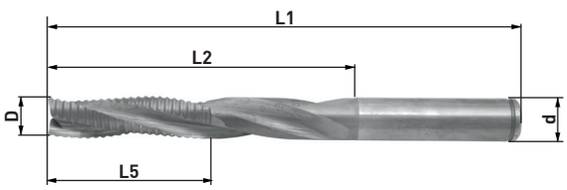
D (mm)	L2 (mm)	L4 (mm)	d (mm)	L1 (mm)	Z	Id-No. (Rh)
4	15	7	4	50	2+2	C05367
5	22	8	5	60	2+2	C05368
6	22	8	6	60	2+2	C05369
8	32	7	8	80	2+2	C02708
10	32	7	10	80	2+2	C02799
10	42	7	10	90	2+2	C05370
12	42	7	12	90	2+2	C02800
12	52	7	12	100	2+2	C05371
16	55	24	16	110	2+2	C02677
18	55	30	18	110	2+2	C02633

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.

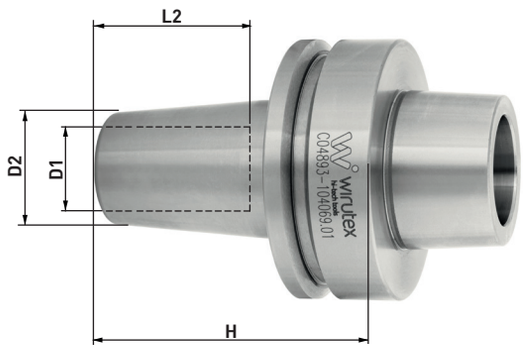
Chips discharged upwards.

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

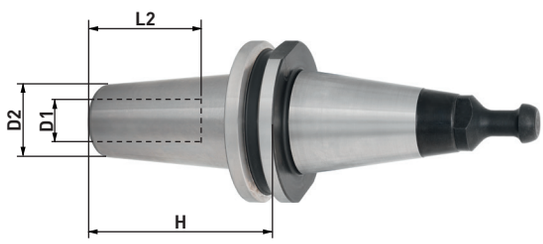
Suitable for high-speed machining operations.

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

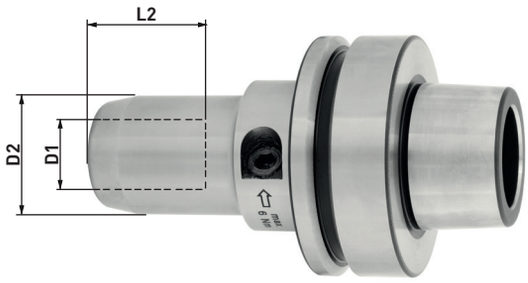
Suitable for high-speed machining operations.

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

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 bit should be equipped with adjustment screws.

NOTES

Easy tool changes.

Excellent finishing.

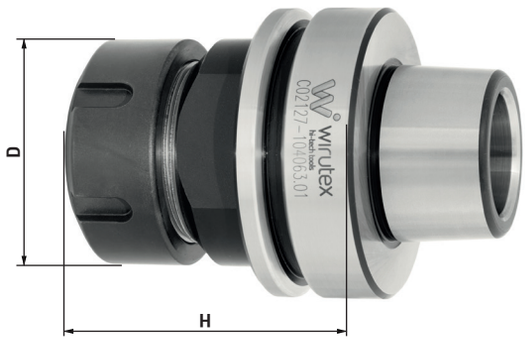
Max. rpm: 25,000.

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

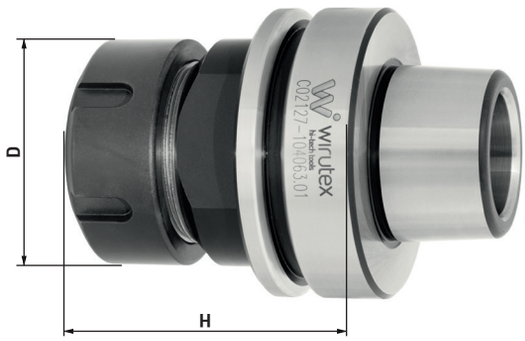
To be used with ER32 or ER40 collet.

D (mm)	H (mm)	Collet	Id-No. (Rh)	Id-No. (Lh)
50	70	ER32	C02127	C02128
63	80	ER40	C02135	C02136

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.

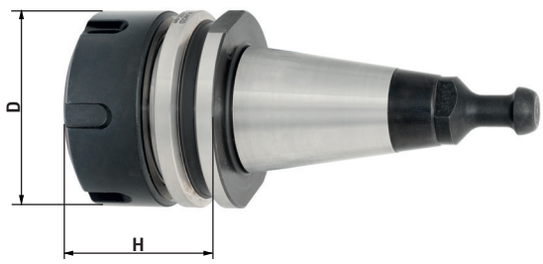
Stainless steel ensures resistance to corrosion and to shocks, scratches and chipping.

D (mm)	H (mm)	Collet	Id-No. (Rh)	Id-No. (Lh)
50	70	ER32	C05303	C05304
63	80	ER40	C05305	C05306

Chuck for precision collet

ISO30 conical shank

MEC



MACHINES / APPLICATIONS

Chuck for machining wood.

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

DESIGN

ISO30 shank.

NOTES

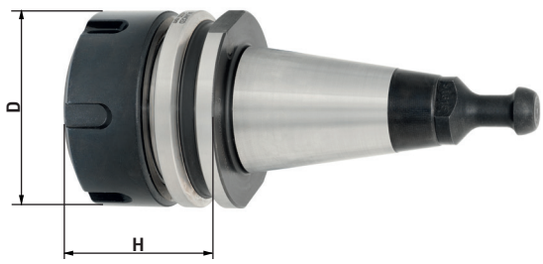
To be used with ER32 or ER40 collet.

D (mm)	H (mm)	Collet	Id-No. (Rh)	Id-No. (Lh)
50	50	ER32	C00079	C00080
63	57	ER40	C00083	C02283

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.

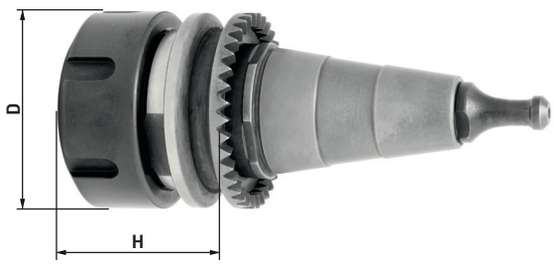
Stainless steel ensures resistance to corrosion and to shocks, scratches and chipping.

D (mm)	H (mm)	Collet	Id-No. (Rh)	Id-No. (Lh)
50	50	ER32	C05237	C05238
63	57	ER40	C05239	C05240

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)	Id-No. (Lh)
50	55	ER32	C00100	C00101
50	55	ER32	*C01189	*C01190

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

Universal disassembly device for chucks

MACHINES / APPLICATIONS

For chucks with HSK63F and ISO30 shanks.

For assembly and disassembly of tools on chuck body.

DESIGN

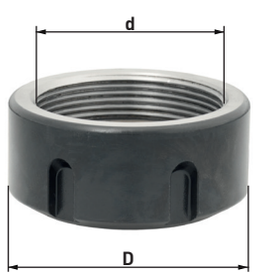
Universal disassembly device.

NOTES

Does not damage the surface of the chuck.

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

Ring nut for “ER32” chuck for precision collet



MACHINES / APPLICATIONS

Collect tightening ring nut.

DESIGN

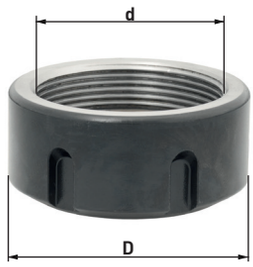
*Ring nut with ball bearings.

NOTES

-

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

Ring nut for “ER40” chuck for precision collet



MACHINES / APPLICATIONS

Collect tightening ring nut.

DESIGN

*Ring nut with ball bearings.

NOTES

-

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

ACCESSORIES

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

MACHINES / APPLICATIONS

Wrench for removing ring nuts.

DESIGN

For “ER32” ring nut.

For “ER40” ring nut.

NOTES

*Ring nut with ball bearings.

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

Hook wrench for “ER40” ring nut

MACHINES / APPLICATIONS

Wrench for removing ring nuts.

DESIGN

For “ER40” ring nut.

NOTES

-

DESCRIPTION

For “ER40” ring nut.

>

Id-No.
C03789

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®.

wirutex hi-tech tools

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.

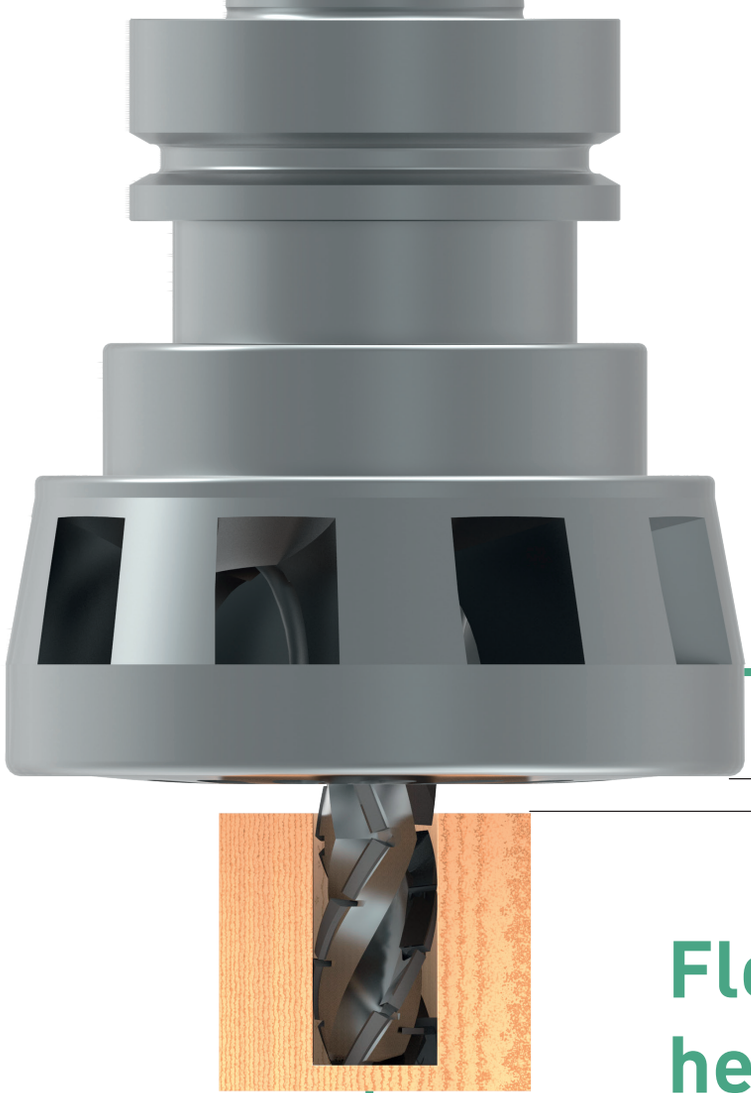
Versions

Aerotech® System E - Ø95

Aerotech® Hydro 95

Aerotech® System E - Ø105

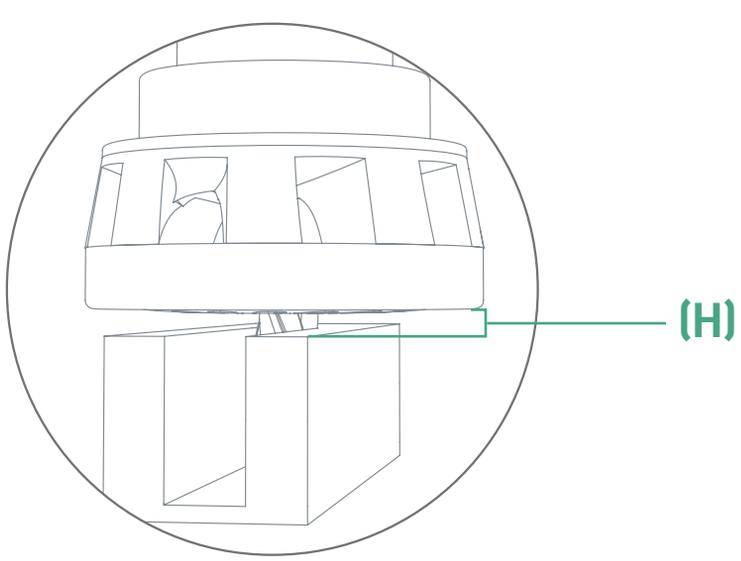
Aerotech® Hydro 105



Floating height (H)

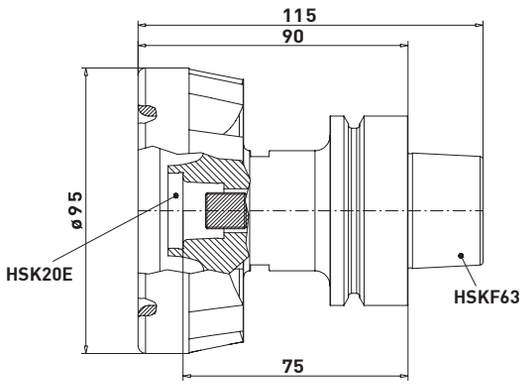
The use of Aerotech® at a floating height **(H) less than 2.0 - 3.0 mm** may reduce the air flow created and limit its capacity to remove dust.

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.



Aerotech® 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**
(see page 46).

NOTES

Compatible with DP router bits with HSK20E cone.

Max. rpm: 24,000.

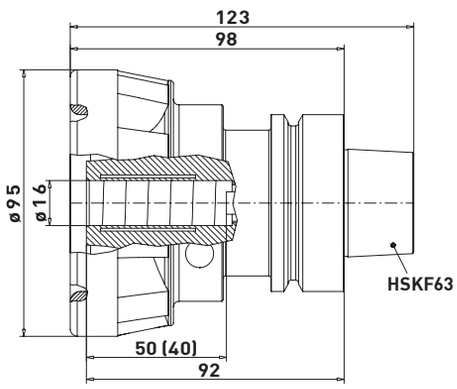
Run-out: +/- 0.002 rpm.

Balancing: G<2.5 at 25,000 rpm.

Torque: 250 Nm.

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

Aerotech® 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** (see page 46).

NOTES

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

Max. rpm: 24,000

Run-out: +/- 0.002 rpm.

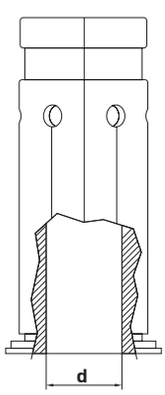
Balancing: G<2.5 at 25,000 rpm.

Torque: 185 Nm.

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

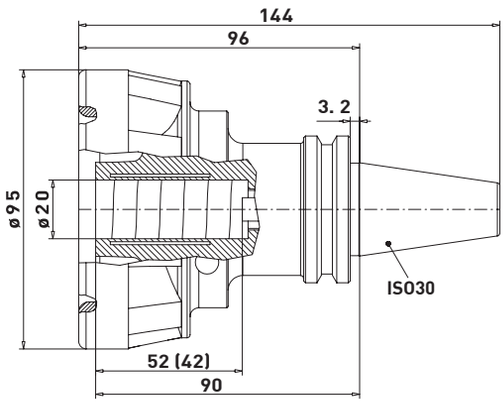
DESCRIPTION

Reducer bushing



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

Aerotech® 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**
(see page 46).

NOTES

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

Max. rpm: 24,000.

Run-out: +/- 0.002 rpm.

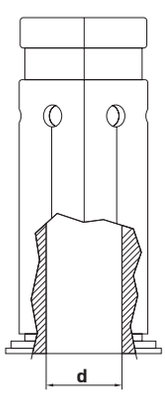
Balancing: G<2.5 at 25,000 rpm.

Torque: 185 Nm.

D. Aerotech (mm)	D. max. router bit (mm)	Machine shank	Router bit shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
95	62.5	ISO30	6-20 max.	C05314	C05320

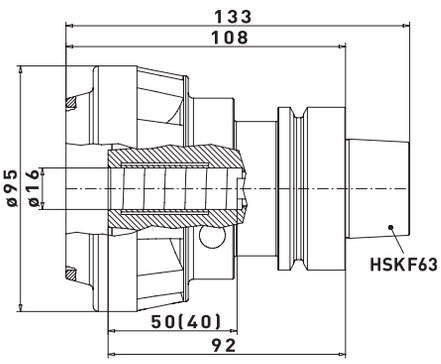
DESCRIPTION

Reducer bushing



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

Aerotech® 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**
(see page 46).

NOTES

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

Max. rpm: 24,000

Run-out: +/- 0.002 rpm.

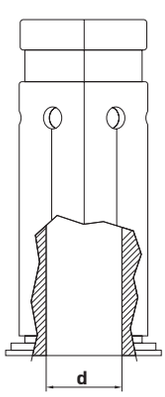
Balancing: G<2.5 at 25,000 rpm.

Torque: 185 Nm.

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

DESCRIPTION

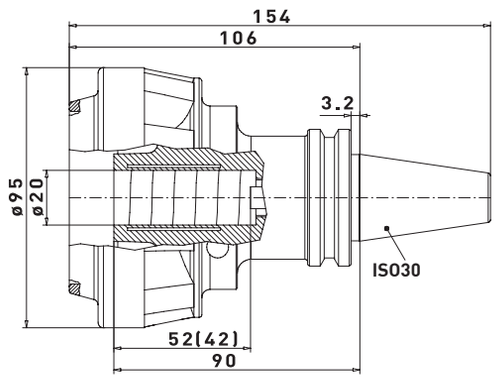
Reducer bushing



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

Aerotech® 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**
(see page 46).

NOTES

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

Max. rpm: 24,000.

Run-out: +/- 0.002 rpm.

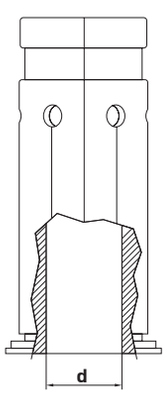
Balancing: G<2.5 at 25,000 rpm.

Torque: 185 Nm.

D. Aerotech (mm)	D. max. router bit (mm)	Machine shank	Router bit shank (mm)	Id-No.	* Id-No. PLUS - FACEPLATE
95	62.5	ISO30	6-20 max.	C05339	C05342

DESCRIPTION

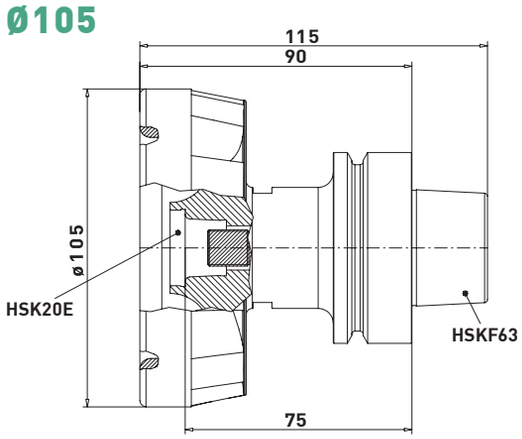
Reducer bushing



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

Aerotech® 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**
(see page 46).

NOTES

Only compatible with router bits with HSK20E cone.

Max. rpm: 24,000.

Run-out: +/- 0.002 rpm.

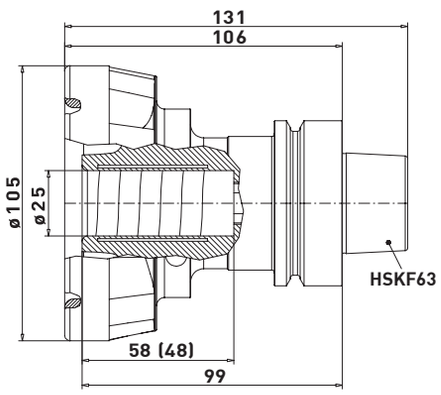
Balancing: G<2.5 at 25,000 rpm.

Torque: 250 Nm.

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

Aerotech® 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**
(see page 46).

NOTES

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

Max. rpm: 24,000.

Run-out: +/- 0.002 rpm.

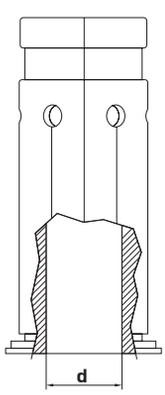
Balancing: G<2.5 at 25,000 rpm.

Torque: 250 Nm.

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

DESCRIPTION

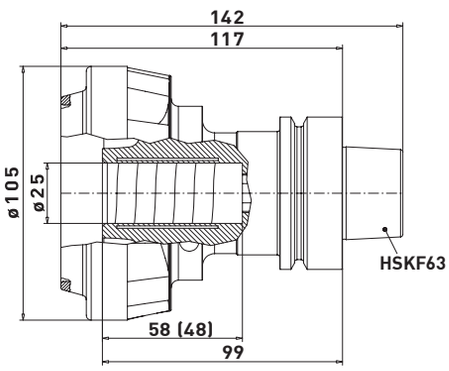
Reducer bushing



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

Aerotech® 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** (see page 46).

NOTES

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

Max. rpm: 24,000.

Run-out: +/- 0.002 rpm.

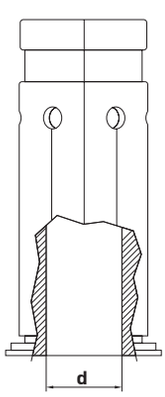
Balancing: G<2.5 at 25,000 rpm.

Torque: 250 Nm.

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

DESCRIPTION

Reducer bushing



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

HSK63F chuck

for router bits with HSK20E cone

MACHINES / APPLICATIONS

Chuck for machining wood.

DESIGN

Machine interface: HSK63F.
Tool interface: HSK20E.

NOTES

Specifically designed for router bits with HSK20E cone.

Id-No.
C05343

AEROTECH® ACCESSORIES

Adapter for sharpening

MACHINES / APPLICATIONS

Adapter for sharpening.

DESIGN

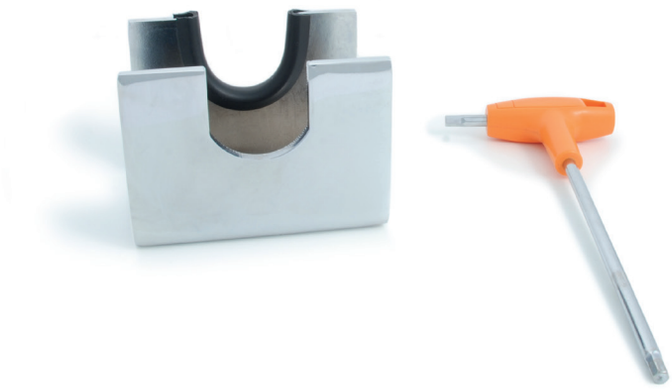
25 mm diameter.

NOTES

Specifically designed for router bits with HSK20E cone.

Id-No.
C05344

Aerotech SYSTEM E
tool assembly and disassembly kit



MACHINES / APPLICATIONS

Tool assembly and disassembly kit.

DESIGN

-

NOTES

Specifically designed for Aerotech SYSTEM E.

Id-No.
C05391

PRODUCT SPECIFICATIONS – MODIFICATIONS – MEASUREMENTS

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DGUV Test HO 152011 fliehkraftgeprüft overspeed tested

Procedure qualificate IIS CERT EN 13134

Brasatori qualificati IIS CERT EN 13585

March **2017**

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