埃特法斯®
Aitefasi
eitfs®

埃特法斯®
Aitefasi
eitfs® Changzhou Aitefasi Tools Co., Ltd

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COMPANY PROFILE

Changzhou Aitefasi Tools Co.,Ltd. is a professional enterprise which specializes in design, manufacture and sale of solid carbide cutting tools. In recent years, Aitefasi Tools has introduced advanced CNC grinding machines from Germany, USA and Switze.

Aitefasi Tools mainly manufactures solid carbide drill bits, end mills and reamers. What's more, customized cutting tools can be designed for the clients. All the products are widely applied in the area of machinery processing, like automobile, mould, plastic and so on.

Aitefasi Tools' core value is "advanced tools, process advanced products". We trust that, With our high performance tools, you will process high performance products.

Workshop’s production scene

End mill

1 A20 Solid carbide 2 Flute End mill.....2

2 A20 Solid carbide 4 Flute Endmill.....3

3 A20 Solid Carbide 2/4 Flute End mill With Radius Corner 4

4 A20 Solid carbide 2 flute ball end mill.....5

5 A20 Solid carbide 4 flute ball endmill.....5

6 2 flute micro end mill..... .7

7 2 flute micro ball end mill.....7

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10 2/3 Flute Endmill For Alloy And Copperalloy.....10

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12 A65-4 Flute Endmill..... 13

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埃特法斯®

AiteFasi

A20

–General Purpose Carbide Endmills

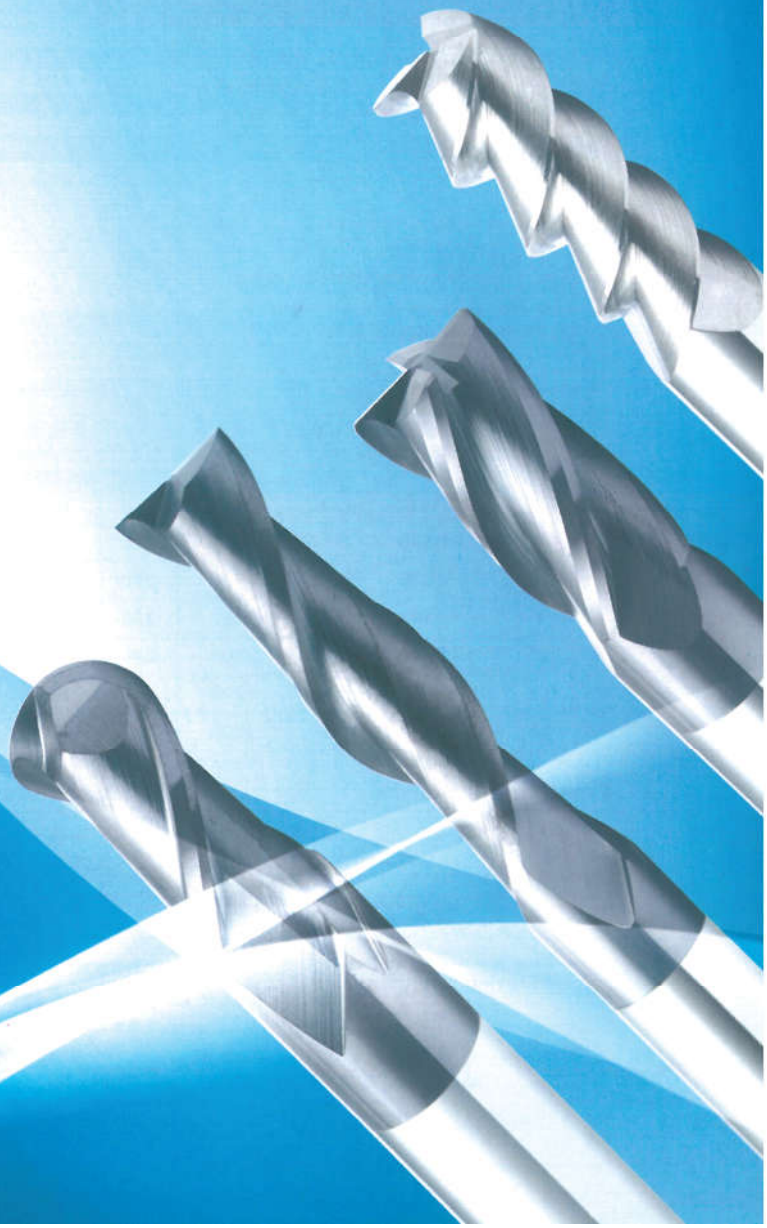
–For the processing of carbon steel, tool steel, alloy steel and cast irons

–Applicable to ordinary processing and wet cutting materials

–多功能硬质合金铣刀

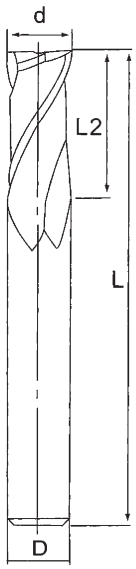
–用于加工碳钢、工具钢、合金钢和铸铁

适用于普通加工及湿式切削材料



TiALN HRC ≤55° 35°

A20 Solid carbide 2 Flute End mill

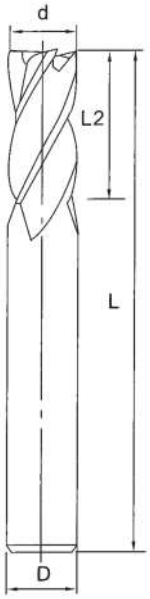


d	L2	L	D
1.0	3	50	4
1.5	4.5	50	4
2.0	6	50	4
2.5	7	50	4
3.0	8	50	4
3.5	10	50	4
4.0	11	50	4
4.5	13	50	6
5.0	13	50	6
5.5	13	50	6
6.0	15	50	6
6.5	17	60	8
7.0	17	60	8
7.5	17	60	8
8.0	20	60	8
8.5	23	75	10
9.0	23	75	10
9.5	25	75	10
10.0	25	75	10
10.5	25	75	12
11.0	28	75	12
11.5	28	75	12
12.0	30	75	12
13.0	33	100	16
14.0	35	100	16
15.0	38	100	16
16.0	40	100	16
17.0	40	100	20
18.0	40	100	20
19.0	40	100	20
20.0	40	100	20
22.0	40	100	25
25.0	40	100	25

Universal cutting parameter

Ggeneral purpose carbide endmills
For the processing of carbon steel ,tool steel,alloy steel and cast irons
Applicable to ordinary processing and wet cutting materials

A20 Solid carbide 4 Flute End mill



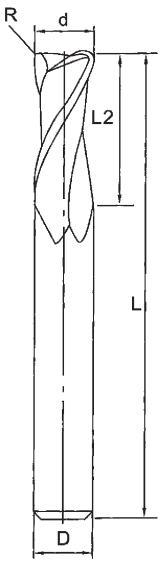
d	L2	L	D
1.0	3	50	4
1.5	4.5	50	4
2.0	6	50	4
2.5	7	50	4
3.0	8	50	4
3.5	10	50	4
4.0	11	50	4
4.5	13	50	6
5.0	13	50	6
5.5	13	50	6
6.0	15	50	6
6.5	17	60	8
7.0	17	60	8
7.5	17	60	8
8.0	20	60	8
8.5	23	75	10
9.0	23	75	10
9.5	25	75	10
10.0	25	75	10
10.5	25	75	12
11.0	28	75	12
11.5	28	75	12
12.0	30	75	12
13.0	33	100	16
14.0	35	100	16
15.0	38	100	16
16.0	40	100	16
17.0	40	100	20
18.0	40	100	20
19.0	40	100	20
20.0	40	100	20
22.0	40	100	25
25.0	40	100	25

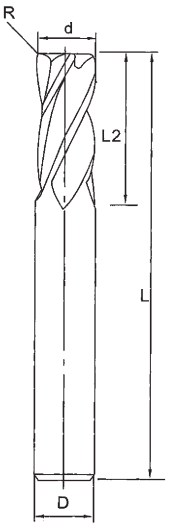
Universal cutting parameter

General purpose carbide endmills
For the processing of carbon steel ,tool steel,alloy steel and cast irons
Applicable to ordinary processing and wet cutting materials

TiALN HRC ≤55° 35°

A20 Solid Carbide 2/4 Flute End mill With Radius Corner



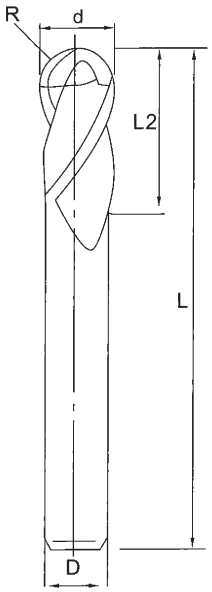


d	R	L2	L	D
1.0	0.2	2	50	4
1.5	0.2	3	50	4
1.5	0.5	3	50	4
2.0	0.2	4	50	4
2.0	0.5	4	50	4
2.5	0.2	5	50	4
2.5	0.5	5	50	4
3.0	0.2	6	50	4
3.0	0.5	6	50	4
3.0	1.0	6	50	4
4.0	0.2	8	50	4
4.0	0.5	8	50	4
4.0	1.0	8	50	4
5.0	0.5	10	50	6
5.0	1.0	10	50	6
6.0	0.2	12	50	6
6.0	0.5	12	50	6
6.0	1.0	12	50	6
6.0	1.5	12	50	6
6.0	2.0	12	50	6
8.0	0.5	16	60	8
8.0	1.0	16	60	8
8.0	1.5	16	60	8
8.0	2.0	16	75	8
10.0	0.5	20	75	10
10.0	1.0	20	75	10
10.0	1.5	20	75	10
10.0	2.0	20	75	10
10.0	2.5	20	75	10
10.0	3.0	20	75	10
12.0	0.5	24	75	12
12.0	1.0	24	75	12
12.0	1.5	24	75	12
12.0	2.0	24	75	12
12.0	2.5	24	75	12
12.0	3.0	24	75	12

Universal cutting parameter

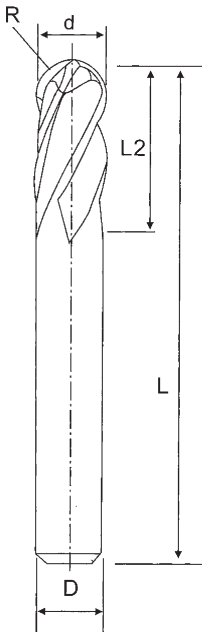
General purpose carbide endmills
For the processing of carbon steel ,tool steel,alloy steel and cast irons
Fpplicable to ordinary processing and wet cutting materials

A20 solid carbide 2 Flute Ball Endmill



R径	L2	L	D
R0.50	2.0	50	4
R0.75	3.0	50	4
R1.00	4.0	50	4
R1.25	5.0	50	4
R1.50	6.0	50	4
R1.75	7.0	50	4
R2.00	8.0	50	4
R2.25	9.0	50	6
R2.50	10.0	50	6
R2.75	11.0	50	6
R3.00	12.0	50	6
R3.25	13.0	60	8
R3.50	14.0	60	8
R3.75	15.0	60	8
R4.00	16.0	60	8
R4.50	18.0	75	10
R5.00	20.0	75	10
R6.00	24.0	75	12
R8.00	30.0	100	16
R10.0	30.0	100	20
R12.5	30.0	100	25

A20 Solid carbide 4 Flute Ball Endmill



R径	L2	L	D
R0.50	2.0	50	4
R0.75	3.0	50	4
R1.00	4.0	50	4
R1.25	5.0	50	4
R1.50	6.0	50	4
R1.75	7.0	50	4
R2.00	8.0	50	4
R2.25	9.0	50	6
R2.50	10.0	50	6
R2.75	11.0	50	6
R3.00	12.0	50	6
R3.25	13.0	60	8
R3.50	14.0	60	8
R3.75	15.0	60	8
R4.00	16.0	60	8
R4.50	18.0	75	10
R5.00	20.0	75	10
R6.00	24.0	75	12
R8.00	30.0	100	16
R10.0	30.0	100	20
R12.5	30.0	100	25

Universal cutting parameter

General purpose carbide endmills
For the processing of carbon steel ,tool steel,alloy steel and cast irons
Applicable to ordinary processing and wet cutting materials

埃特法斯®

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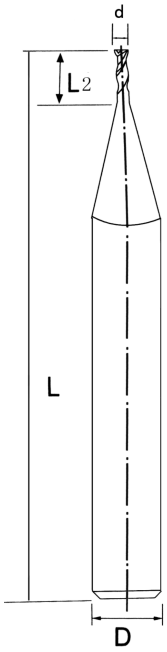
微小径·深沟系列

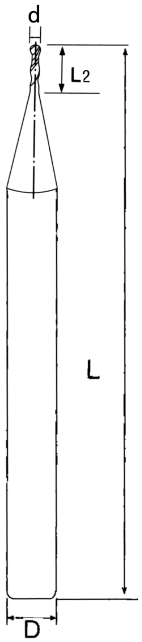
Micro & Long Neck Series

2 Flute Micro End mill



d	L2	L	D
0.2	0.4	50	3
0.3	0.6	50	3
0.4	0.8	50	3
0.5	1.0	50	3
0.6	1.2	50	3
0.7	1.4	50	3
0.8	1.6	50	3
0.9	1.8	50	3
0.2	0.4	50	4
0.3	0.6	50	4
0.4	0.8	50	4
0.5	1.0	50	4
0.6	1.2	50	4
0.7	1.4	50	4
0.8	1.6	50	4
0.9	1.8	50	4

2 Flute Micro Ball End mill

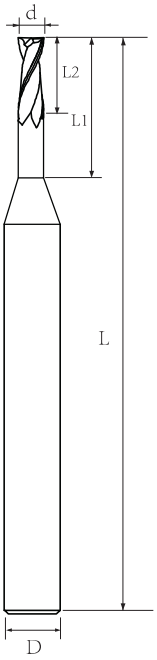


R径 1/2d	L2	L	D
R0.10	0.4	50	3
R0.15	0.6	50	3
R0.20	0.8	50	3
R0.25	1.0	50	3
R0.30	1.2	50	3
R0.35	1.4	50	3
R0.40	1.6	50	3
R0.45	1.8	50	3
R0.10	0.4	50	4
R0.15	0.6	50	4
R0.20	0.8	50	4
R0.25	1.0	50	4
R0.30	1.2	50	4
R0.35	1.4	50	4
R0.40	1.6	50	4
R0.45	1.8	50	4

Universal cutting parameter

Application: constructional steel, carbon steel, cast iron,Quenching just, stainless steel, titanium alloy

2 Flute Long Neck Endmill

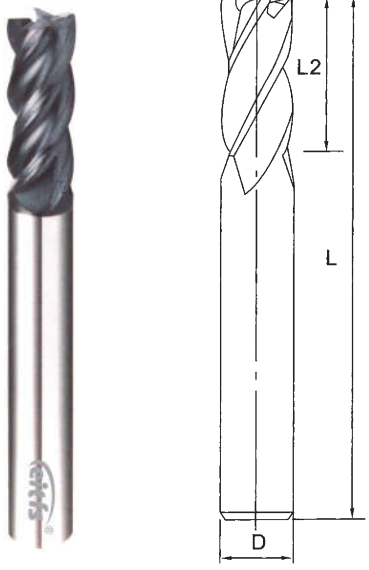


d	L2	L1	L	D
0.4	0.6	2	50	4
0.4	0.6	4	50	4
0.5	0.8	2	50	4
0.5	0.8	4	50	4
0.5	0.8	6	50	4
0.6	1.0	2	50	4
0.6	1.0	4	50	4
0.6	1.0	6	50	4
0.6	1.0	8	50	4
0.8	1.2	3	50	4
0.8	1.2	4	50	4
0.8	1.2	6	50	4
0.8	1.2	8	50	4
0.8	1.2	10	50	4
1.0	1.2	4	50	4
1.0	1.2	6	50	4
1.0	1.2	8	50	4
1.0	1.2	10	50	4
1.0	1.2	12	50	4
1.5	1.7	1	50	4
1.5	1.7	6	50	4
1.5	1.7	8	50	4
1.5	1.7	10	50	4
1.5	1.7	12	50	4
2.0	2.2	6	50	4
2.0	2.2	8	50	4
2.0	2.2	10	50	4
2.0	2.2	12	50	4
2.0	2.2	14	50	4
2.0	2.2	16	75	4
3.0	3.2	8	50	4
3.0	3.2	10	50	4
3.0	3.2	12	50	4
3.0	3.2	14	50	4
3.0	3.2	16	75	4
3.0	3.2	20	75	4
4.0	4.2	12	50	6
4.0	4.2	14	50	6
4.0	4.2	16	75	6
4.0	4.2	20	75	6
4.0	4.2	25	75	6

Universal cutting parameter

Application: constructional steel, carbon steel, cast iron,Quenching just, stainless steel, titanium alloy

4 Flute Endmill For Stainless Steel



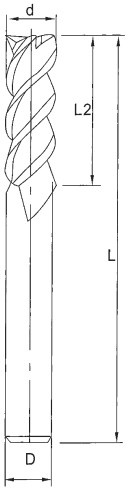
d	L2	L	D
1.0	3	50	4
1.5	4.5	50	4
2.0	6	50	4
2.5	7	50	4
3.0	8	50	4
3.5	10	50	4
4.0	11	50	4
4.5	13	50	6
5.0	13	50	6
5.5	13	50	6
6.0	15	50	6
6.5	17	60	8
7.0	17	60	8
7.5	17	60	8
8.0	20	60	8
8.5	23	75	10
9.0	23	75	10
9.5	25	75	10
10.0	25	75	10
10.5	25	75	12
11.0	28	75	12
11.5	28	75	12
12.0	30	75	12
13.0	33	100	16
14.0	35	100	16
15.0	38	100	16
16.0	40	100	16
17.0	40	100	20
18.0	40	100	20
19.0	40	100	20
20.0	40	100	20
22.0	40	100	25
25.0	40	100	25

Universal cutting parameter

Application: constructional steel, carbon steel, cast iron,Quenching just, stainless steel, titanium alloy

2/3 Flute Endmill For Alloy And Copperalloy

d	L2	L	D
1.0	3	50	4
1.5	4.5	50	4
2.0	6	50	4
2.5	7	50	4
3.0	8	50	4
4.0	11	50	4
5.0	13	50	6
6.0	15	50	6
7.0	18	60	8
8.0	20	60	8
9.0	23	75	10
10.0	25	75	10
11.0	28	75	12
12.0	30	75	12
16.0	40	100	16
20.0	40	100	20



Universal cutting parameter

Application: constructional steel, carbon steel, cast iron,Quenching just, stainless steel, titanium alloy

埃特法斯®

Aitefasi

A65 Series

–High Performance Carbide Endmills

–For processing high hardness of HRC65 steel, die and alloy steel, cast irons

–Apply to wet and dry cutting under conditions of high speed machining

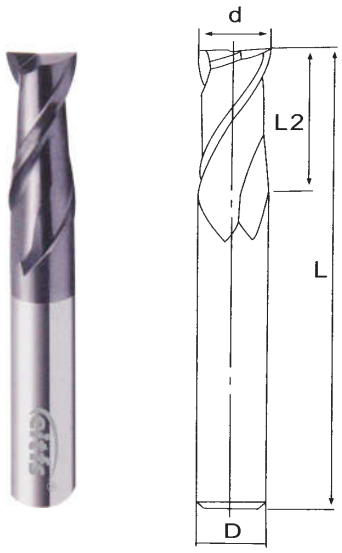
–高级硬质合金铣刀

–用于加工硬度高达HRC65的钢件，冲模和合金钢、铸铁

–适合于湿式和干式切削条件下的高速加工

A65-2 Flute Endmill

Solution: For HRC≤65°



d	L2	L	D
1.0	3	50	4
1.5	4.5	50	4
2.0	6	50	4
2.5	7	50	4
3.0	8	50	4
3.5	10	50	4
4.0	11	50	4
4.5	13	50	6
5.0	13	50	6
5.5	13	50	6
6.0	15	50	6
6.5	17	60	8
7.0	17	60	8
7.5	17	60	8
8.0	20	60	8
8.5	23	75	10
9.0	23	75	10
9.5	25	75	10
10.0	25	75	10
10.5	25	75	12
11.0	28	75	12
11.5	28	75	12
12.0	30	75	12
13.0	33	100	16
14.0	35	100	16
15.6	38	100	16
16.0	40	100	16
17.0	40	100	20
18.0	40	100	20
19.0	40	100	20
20.0	40	100	20
22.0	40	100	25
25.0	40	100	25

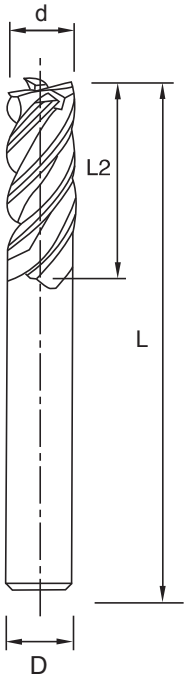
High speed cutting parameter

High performance carbide endmills

For processing high hardness of HRC65 steel,die and alloy steel,cast irons

Apply to wet and dry cutting under conditions of high speed machining

A65-4 Flute Endmill



d	L2	L	D
1.0	3	50	4
1.5	4.5	50	4
2.0	6	50	4
2.5	7	50	4
3.0	8	50	4
3.5	10	50	4
4.0	11	50	4
4.5	13	50	6
5.0	13	50	6
5.5	13	50	6
6.0	15	50	6
6.5	17	60	8
7.0	17	60	8
7.5	17	60	8
8.0	20	60	8
8.5	23	75	10
9.0	23	75	10
9.5	25	75	10
10.0	25	75	10
10.5	25	75	12
11.0	28	75	12
11.5	28	75	12
12.0	30	75	12
13.0	33	100	16
14.0	35	100	16
15.0	38	100	16
16.0	40	100	16
17.0	40	100	20
18.0	40	100	20
19.0	40	100	20
20.0	40	100	20
22.0	40	100	25
25.0	40	100	25

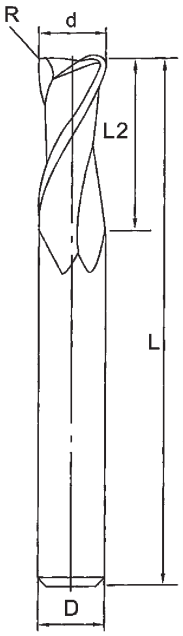
High speed cutting parameter

High performance carbide endmills

For processing high hardness of HRC65 steel,die and alloy steel,cast irons

Apply to wet and dry cutting under conditionsof high speed machining

A65-2 Flute Endmill With Radius Corner



d	R	L2	L	D
1.0	0.2	2	50	4
1.5	0.2	3	50	4
1.5	0.5	3	50	4
2.0	0.2	4	50	4
2.0	0.5	4	50	4
2.5	0.2	5	50	4
2.5	0.5	5	50	4
3.0	0.2	6	50	4
3.0	0.5	6	50	4
3.0	1.0	6	50	4
4.0	0.2	8	50	4
4.0	0.5	8	50	4
4.0	1.0	8	50	4
5.0	0.5	10	50	6
5.0	1.0	10	50	6
6.0	0.2	12	50	6
6.0	0.5	12	50	6
6.0	1.0	12	50	6
6.0	1.5	12	50	6
6.0	2.0	12	50	6
8.0	0.5	16	60	8
8.0	1.0	16	60	8
8.0	1.5	16	60	8
8.0	2.0	16	60	8
10.0	0.5	20	75	10
10.0	1.0	20	75	10
10.0	1.5	20	75	10
10.0	2.0	20	75	10
10.0	2.5	20	75	10
10.0	3.0	20	75	10
12.0	0.5	24	75	12
12.0	1.0	24	75	12
12.0	1.5	24	75	12
12.0	2.0	24	75	12
12.0	2.5	24	75	12
12.0	3.0	24	75	12

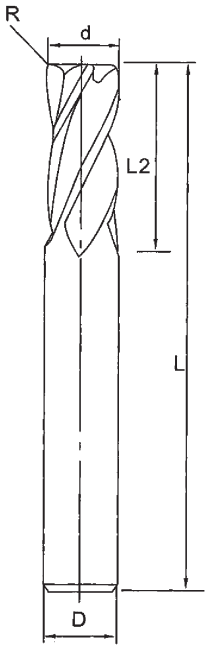
High speed cutting parameter

High performance carbide endmills

For processing high hardness of HRC65 steel,die and alloy steel,cast irons

Apply to wet and dry cutting under conditions of high speed machining

A65-4 Flute Endmill With Radius Corner



d	R	L2	L	D
1.0	0.2	2	50	4
1.5	0.2	3	50	4
1.5	0.5	3	50	4
2.0	0.2	4	50	4
2.0	0.5	4	50	4
2.5	0.2	5	50	4
2.5	0.5	5	50	4
3.0	0.2	6	50	4
3.0	0.5	6	50	4
3.0	1.0	6	50	4
4.0	0.2	8	50	4
4.0	0.5	8	50	4
4.0	1.0	8	50	4
5.0	0.5	10	50	6
5.0	1.0	10	50	6
6.0	0.2	12	50	6
6.0	0.5	12	50	6
6.0	1.0	12	50	6
6.0	1.5	12	50	6
6.0	2.0	12	50	6
8.0	0.5	16	60	8
8.0	1.0	16	60	8
8.0	1.5	16	60	8
8.0	2.0	16	60	8
10.0	0.5	20	75	10
10.0	1.0	20	75	10
10.0	1.5	20	75	10
10.0	2.0	20	75	10
10.0	2.5	20	75	10
10.0	3.0	20	75	10
12.0	0.5	24	75	12
12.0	1.0	24	75	12
12.0	1.5	24	75	12
12.0	2.0	24	75	12
12.0	2.5	24	75	12
12.0	3.0	24	75	12

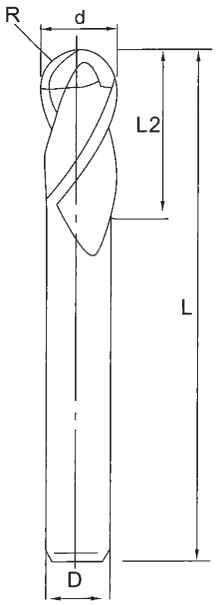
High speed cutting parameter

High performance carbide endmills

For processing high hardness of HRC65 steel,die and alloy steel,cast irons

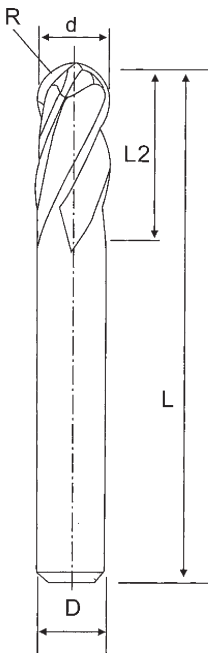
Apply to wet and dry cutting under conditionsof high speed machining

A65-2 Flute Ball Endmill



R径	L2	L	D
R0.50	2.0	50	4
R0.75	3.0	50	4
R1.00	4.0	50	4
R1.25	5.0	50	4
R1.50	6.0	50	4
R1.75	7.0	50	4
R2.00	8.0	50	4
R2.25	9.0	50	6
R2.50	10.0	50	6
R2.75	11.0	50	6
R3.00	12.0	50	6
R3.25	13.0	60	8
R3.50	14.0	60	8
R3.75	15.0	60	8
R4.00	16.0	60	8
R4.50	18.0	75	10
R5.00	20.0	75	10
R6.00	24.0	75	12
R8.00	30.0	100	16
R10.0	30.0	100	20
R12.5	30.0	100	25

A65-4 Flute Ball Endmill

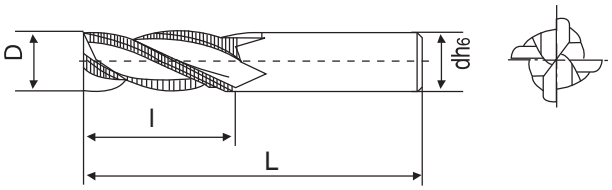


R径	L2	L	D
R0.50	2.0	50	4
R0.75	3.0	50	4
R1.00	4.0	50	4
R1.25	5.0	50	4
R1.50	6.0	50	4
R1.75	7.0	50	4
R2.00	8.0	50	4
R2.25	9.0	50	6
R2.50	10.0	50	6
R2.75	11.0	50	6
R3.00	12.0	50	6
R3.25	13.0	60	8
R3.50	14.0	60	8
R3.75	15.0	60	8
R4.00	16.0	60	8
R4.50	18.0	75	10
R5.00	20.0	75	10
R6.00	24.0	75	12
R8.00	30.0	100	16
R10.0	30.0	100	20
R12.5	30.0	100	25

High speed cutting parameter

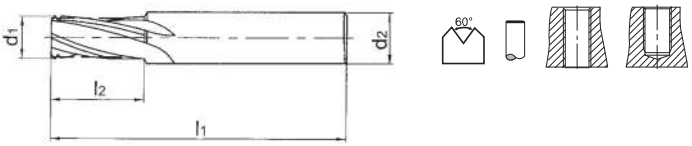
High performance carbide endmills
For processing high hardness of HRC65 steel,die and alloy steel,cast irons Apply to wet and dry cutting under conditionsof high speed machining

Solid Carbide Tapping Endmill



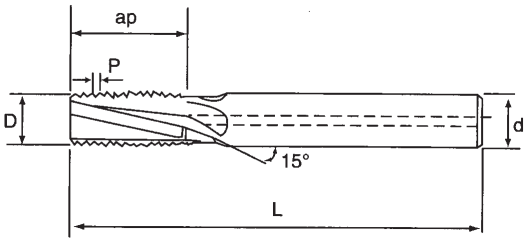
D	d	l	L	Z
6.0	6	19	63	3
7.0	8	28	70	3
8.0	8	28	70	3
9.0	10	32	82	4
10.0	10	32	82	4
12.0	12	35	100	4
14.0	14	40	100	4
16.0	16	48	110	4
18.0	18	48	110	4
20.0	20	55	110	4
25.0	25	56	120	5

Tapping Endmill



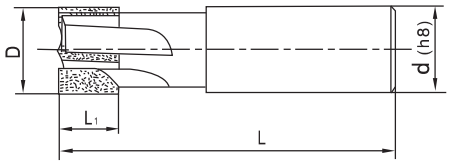
D	d1	P	d2	l1	l2	Z	Bottom hole diameter D	Type of bottom hole drill
M 3	2.35	0.5	4	50	6	3	2.5	DM－M 3×0.5
M 4	3.15	0.7	4	50	8	3	3.3	DM－M 4×0.7
M 5	4	0.8	6	50	10	3	4.2	DM－M 5×0.8
M 6	4.75	1	6	60	12	4	5	DM－M 6×1
M 8	6.45	1.25	8	60	16	4	6.75	DM－M 8×1.25
M 10	8.1	1.5	10	75	20	4	8.5	DM－M 10×1.5
M 12	9.75	1.75	12	75	24	4	10.25	DM－M 12×1.75
M 14	11.4	2	14	75	28	4	12	DM－M 14×2
M 16	13.3	2	16	90	32	6	14	DM－M 16×2
M 18	14.75	2.5	18	90	36	6	15.5	DM－M 18×2.5
M 20	16.65	2.5	18	100	40	6	17.5	DM－M 20×2.5

Solid Carbide Tapper



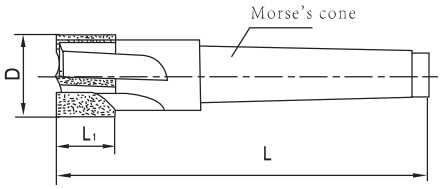
M coarse	p	M Fine	d	D	Z	blade's length ap	L
M 4	0.70	>5	6.00	3.10	3	7.40	58.00
–	0.50	>5	6.00	3.80	3	10.30	58.00
–	0.75	>6	6.00	4.50	3	10.10	58.00
M 5	0.80	>6	6.00	3.80	3	9.20	58.00
–	0.75	>12	10.00	10.00	4	24.40	73.00
–	1.00	>9	6.00	6.00	3	12.50	58.00
M 6	1.00	>7	6.00	4.60	3	10.50	58.00
–	1.00	>10	8.00	8.00	4	16.50	64.00
M 6	1.00	>6	6.00	4.60	3	14.50	58.00
–	1.00	>12	10.00	10.00	4	14.40	58.00
–	1.50	>14	10.00	10.00	4	21.80	73.00
M 8	1.25	>10	6.00	6.00	3	14.40	58.00
–	1.50	>20	16.00	16.00	6	33.80	105.00
M 8	1.25	>10	6.00	6.00	3	19.40	58.00
–	2.00	>26	20.00	20.00	6	41.00	105.00
M 10	1.50	>12	8.00	7.80	3	17.00	64.00
M 10	1.50	>12	8.00	7.80	3	24.80	64.00
M 12	1.75	>12	10.00	9.00	3	20.10	73.00
M 12	1.75	>12	10.00	9.00	3	28.90	73.00
M 14	2.00	>15	10.000	10.00	3	27.00	73.00
M 16	2.00	>17	12.00	11.80	4	27.00	84.00
M 16	2.00	>17	12.00	11.80	4	39.00	105.00
–	1.50	>16	12.00	12.00	4	26.30	84.00
M 20	2.50	>22	16.00	15.00	5	33.80	105.00
M 20	2.50	>22	16.00	15.00	5	48.80	105.00
M 24	3.00	>25	20.00	18.00	4	40.50	105.00
M 24	3.00	>25	20.00	18.00	4	58.50	120.00
M 27	3.00	>27	20.00	20.00	4	43.50	105.00

Welding Endmill



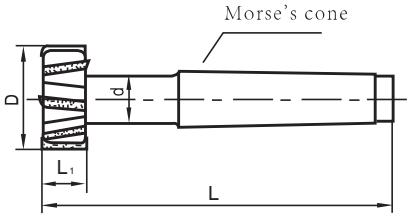
D	L	L1	d
10	75	13.5	10
11	80	13.5	12
12	80	13.5	12
14	80	13.5	12
16	85	13.5	16
18	90	18	15
20	90	18	20
22	90	18	20
25	100	18	25
28	100	18	25

Welding Endmill With Tap Shank



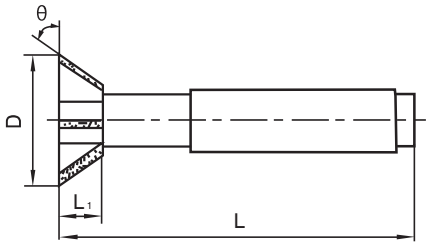
D	L	L1	Morse cone
14-16	105	15	3
18	110	20	2
20-26	130	20	3
28	155	20	4
30-32	160	25	4
34-36	160	25	4
38-42	160	25	4
45-50	170	30	4
55-60	170	30	4
65-70	170	30	4
75-80	170	30	4
85-90	170	30	4
95-100	170	30	4
110	170	30	4
120	170	30	4

Welding T-slot Endmill



D	L1	d	L	Morse cone
21	9	12	100	MW2
25	11	14	105	MW2
29	12.5	16	105	MW2
32	14	18	110	MW2
36	15.5	20	130	MW3
40	18	22	140	MW3
45	20	24	140	MW3
50	22	28	175	MW4
57	24	32	180	MW4
60	28	36	190	MW4
72	35	42	230	MW5
85	40	48	240	MW5
95	44	54	250	MW5

Welding Angle-Slot Endmill



Mohs	Z	D	L	L1	θ °
MW3	4	40	137	16	55°
MW3	4	50	137	16	55°
MW4	6	63	179	20	55°
MW4	6	80	179	20	55°
MW4	6	100	179	20	55°
MW3	4	40	137	16	60°
MW3	4	50	137	16	60°
MW4	6	63	179	20	60°
MW4	6	80	179	20	60°
MW4	6	100	179	20	60°

Non-standard cutting tools

Non-standard cutting tools