Mechstar®
TOOLING CORPORATION

Precision Engineering:

Where perfection meets machinery.

Mechstar®
TOOLING CORPORATION

About Us

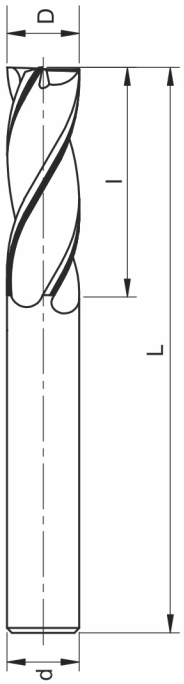
Mechstar Tooling Corporation, specialises in tool application engineering and focuses on various cutting tools, including solid carbide endmills, carbide drills, carbide inserts, circular saw blades, and bi-metal band saw blades. Our expertise in tool engineering and metal-cutting applications is undoubtedly valuable to industries that rely on precision machining and manufacturing.

In today's competitive manufacturing landscape, efficient tool utilisation and cost-effectiveness are essential factors for success. Our specialization in tool engineering and the range of cutting tools provide us position well to address these needs and contribute to the success of various industries.

MECHSTAR's offerings in cutting tools, inserts, holders, and related products likely cater to a diverse range of industries that rely on machining, manufacturing, and precision engineering.

Flat Carbidge Endmil

4 Flute - 55 HRC



Recommended For

Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
Stainless Steel <55 HRC
D2
Aluminium

Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
1	2.5	50	4
1.5	4	50	4
2	5	50	4
2.5	6.5	50	4
3	7.5	50	3
3	7.5	50	4
3.5	9	50	4
4	10	50	4
5	13	50	5
6	15	50	6
7	20	60	8
8	20	60	8
9	25	75	10
10	25	75	10
11	30	75	12
12	30	75	12
14	45	100	14
16	45	100	16
18	45	100	18
20	45	100	20

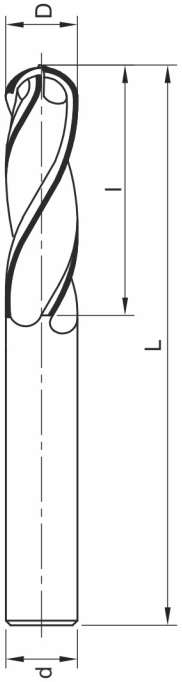
Long

1	3	75	4
1.5	5	75	4
2	6	75	4
3	9	75	4
4	14	75	4
5	20	75	5
6	21	75	6
8	30	75	8
10	45	100	10
12	45	100	12
14	60	150	14
16	60	150	16
18	60	150	18
20	60	150	20

Extra Long

3	12	100	3
4	18	100	4
5	25	100	5
6	27	100	6
6	40	150	6
8	35	100	8
8	50	150	8
10	55	150	10
12	60	150	12

Ballnose Carbide Endmil
4 Flute - 55 HRC



Recommended For

Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
Stainless Steel <55 HRC
D2
Aluminium

Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
R0.5	2	50	4
R0.75	3	50	4
R1	4	50	4
R1.25	5	50	4
R1.5	6	50	3
R1.5	6	50	4
R1.75	7	50	4
R2	8	50	4
R2.5	10	50	5
R3	12	50	6
R3.5	14	60	8
R4	16	60	8
R4.5	18	75	10
R5	20	75	10
R5.5	22	75	12
R6	24	75	12
R7	28	100	14
R8	32	100	16

Long

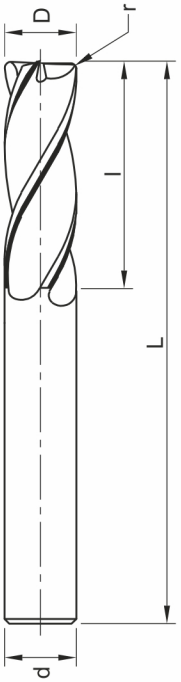
R0.5	2	75	4
R0.75	3	75	4
R1	4	75	4
R1.5	6	75	4
R2	8	75	4
R2.5	10	75	5
R3	12	75	6
R4	16	75	8
R5	20	100	10
R6	24	100	12
R7	28	150	14
R8	32	150	16

Extra Long

R1.5	6	100	3
R2	8	100	4
R2.5	10	100	5
R3	12	100	6
R3	12	150	6
R4	16	100	8
R4	16	150	8
R5	20	150	10
R6	24	150	12

Corner Radius (CR) Carbide Endmill

4 Flute - 55 HRC



Recommended For

Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
Stainless Steel <55 HRC
D2
Aluminium

Standard

Dia (D)	CR (r)	Flute Length (D)	Total Length (L)	Shank Dia (d)
3	0.5	8	50	3
3	1	8	50	3
4	0.5	10	50	4
4	1	10	50	4
5	0.5	12	50	4
5	1	12	50	4
6	0.5	15	50	6
6	1	15	50	6
8	0.5	20	60	8
8	1	20	60	8
10	0.5	25	75	10
10	1	25	75	10
10	1.5	25	75	10
12	0.5	30	75	12
12	1	30	75	12
12	1.5	30	75	12
12	2/2.5	30	75	12
16	2/2.5	35	100	16

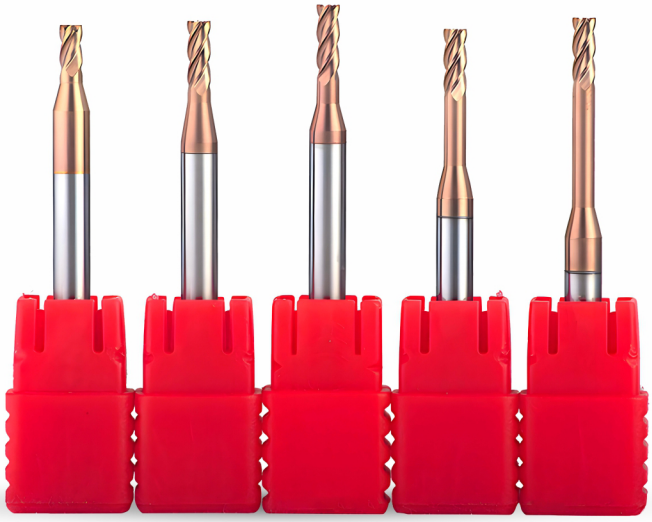
Long

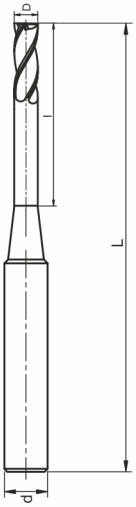
3	0.5	12	75	3
3	1	12	75	3
4	0.5	20	75	4
4	1	20	75	4
5	0.5	20	75	5
5	1	20	75	5
6	0.5	25	75	6
6	1	25	75	6
8	0.5	30	75	8
8	1	30	75	8
10	0.5	40	100	10
10	1	40	100	10
12	0.5	45	100	12
12	1	45	100	12

Extra Long

6	0.5	30	100	6
6	1	30	100	6
6	1	40	150	6
8	0.5	35	100	6
8	1	35	100	8
8	1	50	150	8
10	1	60	150	10
12	1	60	150	12

Carbide
Long Neck Endmill
55 HRC



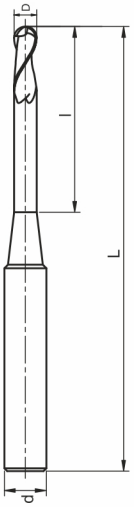


Recommended For

Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
Stainless Steel <55 HRC
D2
Aluminium

4F Flat Endmill

Dia (D)	Neck Length (l)	Total Length (L)	Shank Dia (d)
1	6/8/10/12/15/20	50	4
1.5	6/8/10/12/15/20	50	4
2	6/8/10/12/15/20	50	4
2.5	6/8/10/12/15/20	50	4



Recommended For

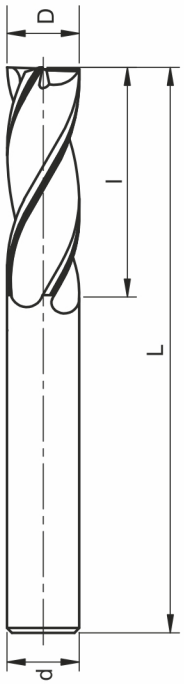
Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
Stainless Steel <55 HRC
D2
Aluminium

2F Ballnose Endmill

Dia (D)	Neck Length (l)	Total Length (L)	Shank Dia (d)
R0.5	6/8/10/12/15/20	50	4
R0.75	6/8/10/12/15/20	50	4
R1	6/8/10/12/15/20	50	4
R1.25	6/8/10/12/15/20	50	4

Flat Carbide Endmill

4 Flute - 50 HRC



Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
1	3	50	4
1.5	4	50	4
2	5	50	4
2.5	8	50	4
3	8	50	3
3	8	50	4
3.5	10	50	4
4	10	50	4
5	12	50	5
6	15	50	6
7	20	60	8
8	20	60	8
9	25	75	10
10	25	75	10
11	30	75	12
12	30	75	12
14	40	100	14
16	45	100	16
18	45	100	18
20	45	100	20
25	45	100	25

Long

1	3	75	4
1.5	5	75	4
2	6	75	4
3	12	75	4
4	20	75	4
5	20	75	5
6	25	75	6
8	30	75	8
10	40	100	10
12	45	100	12
14	60	150	14
16	60	150	16
18	70	150	18
20	70	150	20

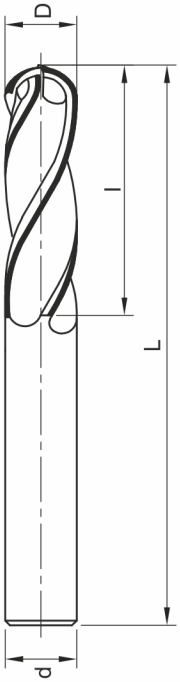
Extra Long

3	12	100	3
4	25	100	4
5	25	100	5
6	30	100	6
6	40	150	6
8	35	100	8
8	50	150	8
10	50	150	10
12	60	150	12

Recommended For

Mild Steel
Casting
Steel 30-45 HRC
EN Grade Material
Aluminium

Ballnose Carbide Endmil
4 Flute - 50 HRC



Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
R0.5	2	50	4
R0.75	3	50	4
R1	4	50	4
R1.25	5	50	4
R1.5	6	50	3
R1.5	6	50	4
R1.75	7	50	4
R2	8	50	4
R2.5	10	50	5
R3	12	50	6
R3.5	14	60	8
R4	16	60	8
R4.5	18	75	10
R5	20	75	10
R5.5	22	75	12
R6	24	75	12
R7	28	100	14
R8	32	100	16

Long

R0.5	2	75	4
R0.75	3	75	4
R1	4	75	4
R1.5	6	75	4
R2	8	75	4
R2.5	10	75	5
R3	12	75	6
R4	16	75	8
R5	20	100	10
R6	24	100	12
R7	28	150	14
R8	32	150	16

Extra Long

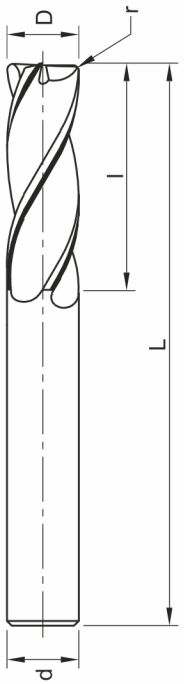
R1.5	6	100	3
R2	8	100	4
R2.5	10	100	5
R3	12	100	6
R3	12	150	6
R4	16	100	8
R4	16	150	8
R5	20	150	10
R6	24	150	12

Recommended For

Mild Steel
Casting
Steel 30-45 HRC
EN Grade Material
Aluminium

Corner Radius (CR) Carbide Endmill

4 Flute - 50 HRC



Recommended For

Mild Steel
Casting
Steel 30-45 HRC
EN Grade Material
Aluminium

Standard

Dia (D)	CR (r)	Flute Length (D)	Total Length (L)	Shank Dia (d)
3	0.5	8	50	3
3	1	8	50	3
4	0.5	10	50	4
4	1	10	50	4
5	0.5	12	50	4
5	1	12	50	4
6	0.5	15	50	6
6	1	15	50	6
8	0.5	20	60	8
8	1	20	60	8
10	0.5	25	75	10
10	1	25	75	10
10	1.5	25	75	10
12	0.5	30	75	12
12	1	30	75	12
12	1.5	30	75	12
12	2/2.5	30	75	12
16	2/2.5	35	100	16

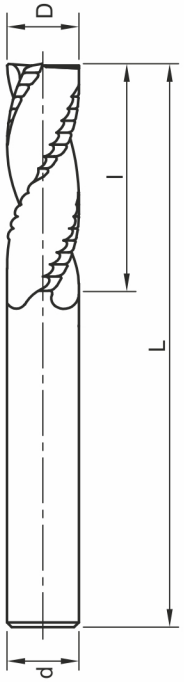
Long

3	0.5	12	75	3
3	1	12	75	3
4	0.5	20	75	4
4	1	20	75	4
5	0.5	20	75	5
5	1	20	75	5
6	0.5	25	75	6
6	1	25	75	6
8	0.5	30	75	8
8	1	30	75	8
10	0.5	40	100	10
10	1	40	100	10
12	0.5	45	100	12
12	1	45	100	12

Extra Long

6	0.5	30	100	6
6	1	30	100	6
6	1	40	150	6
8	0.5	35	100	6
8	1	35	100	8
8	1	50	150	8
10	1	60	150	10
12	1	60	150	12

Roughing
Carbide Endmill
4 Flute - 55 HRC



Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
4	10	50	4
5	13	50	5
6	15	50	6
8	20	60	8
10	25	75	10
12	30	75	12
14	45	100	14
16	45	100	16
18	45	100	18
20	45	100	20

Long

6	25	75	6
8	30	75	8
10	40	100	10
12	45	100	12
14	75	150	14
16	75	150	16
18	75	150	18
20	75	150	20

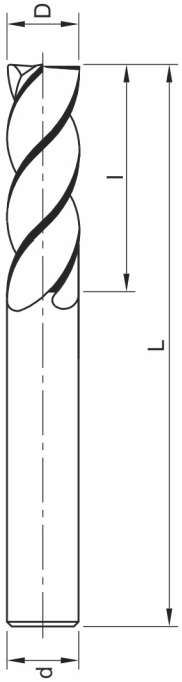
Extra Long

6	30	100	6
6	40	150	6
8	35	100	8
8	50	150	8
10	60	150	10
12	60	150	12

Recommended For

Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
Stainless Steel <55 HRC
D2
Aluminium

Flat Carbide Uncoated Endmill
3 Flute - 50 HRC



Recommended For

Aluminium
Wood
Aluminium Alloys

Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
1	3	50	4
1.5	5	50	4
2	6	50	4
2.5	8	50	4
3	12	50	3
3	12	50	4
3.5	12	50	4
4	12	50	4
5	15	50	5
6	18	50	6
7	21	60	8
8	24	60	8
9	27	75	10
10	30	75	10
11	33	75	12
12	36	75	12
14	45	100	14
16	45	100	16
18	45	100	18
20	45	100	18

Long

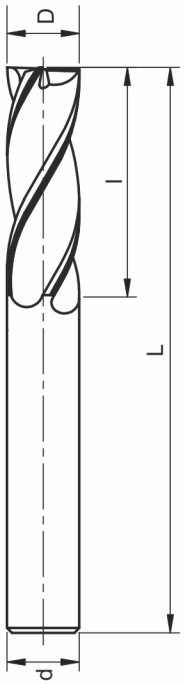
1	3	75	4
1.5	5	75	4
2	6	75	4
3	15	75	4
4	16	75	4
5	20	75	5
6	25	75	6
8	25	75	8
10	40	100	10
12	45	100	12
14	65	150	14
16	65	150	16
18	60	150	18
20	60	150	20

Extra Long

3	12	100	3
4	24	100	4
5	25	100	5
6	30	100	6
6	40	150	6
8	40	100	8
8	50	150	8
10	50	150	10
12	60	150	12

Flat Carbide Endmill

4 Flute - 65 HRC



Recommended For

Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
Stainless Steel <55 HRC
Hardened Steel
Carbon Steel

Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
1	2.5	50	4
1.5	4	50	4
2	5	50	4
2.5	6.5	50	4
3	7.5	50	3
3	7.5	50	4
3.5	9	50	4
4	10	50	4
5	13	50	5
6	15	50	6
7	20	60	8
8	20	60	8
9	25	75	10
10	25	75	10
11	30	75	12
12	30	75	12
14	45	100	14
16	45	100	16
18	45	100	18
20	45	100	20

Long

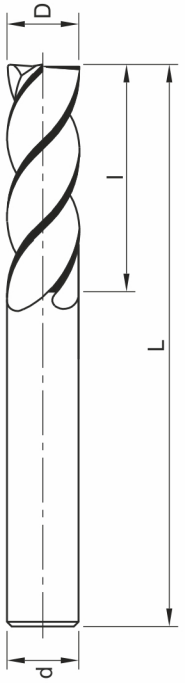
1	3	75	4
1.5	5	75	4
2	6	75	4
3	9	75	4
4	13	75	4
5	20	75	5
6	24	75	6
8	45	75	8
10	45	100	10
12	45	100	12
14	60	150	14
16	60	150	16
18	60	150	18
20	60	150	20

Extra Long

3	12	100	3
4	25	100	4
5	25	100	5
6	25	100	6
6	40	150	6
8	35	100	8
8	50	150	8
10	60	150	10
12	60	150	12

Flat Carbide DLC Coated U-Groove Endmill

3 Flute - 55 HRC



Recommended For

Aluminium
Wood
Aluminium Alloys
Anodized Aluminium
Graphite

Standard

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
1	3	50	4
1.5	5	50	4
2	6	50	4
2.5	8	50	4
3	10	50	3
3	10	50	4
3.5	12	50	4
4	12	50	4
5	15	50	5
6	18	50	6
7	21	60	8
8	24	60	8
9	27	75	10
10	30	75	10
11	33	75	12
12	36	75	12
14	45	100	14
16	45	100	16
18	46	100	18
20	45	100	18

Long

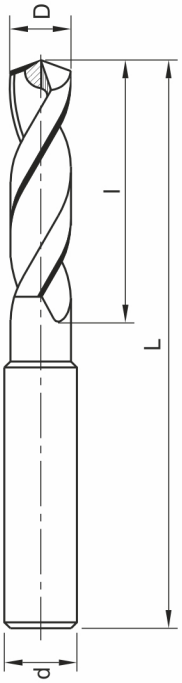
1	3	75	4
1.5	5	75	4
2	6	75	4
3	15	75	4
4	15	75	4
5	20	75	5
6	25	75	6
8	30	75	8
10	45	100	10
12	45	100	12
14	60	150	14
16	60	150	16
18	60	150	18
20	60	150	20

Extra Long

3	12	100	3
4	20	100	4
5	25	100	5
6	30	100	6
6	35	150	6
8	40	100	8
8	50	150	8
10	50	150	10
12	60	150	12

Carbide Drill

2 Flute - 55 HRC



Recommended For

Steel 30-55 HRC
P20
Hot Die Steel (H13,H11,H21)
D2
Aluminium

3D Drill

Dia (D)	Flute Length (D)	Total Length (L)	Shank Dia (d)
0.5 - 1.5	5	50	3
1.0 - 1.5	8	50	3
1.6 - 2.0	11	50	3
2.1 - 2.5	13	50	3
2.6 - 3.0	16	50	3
3.1 - 3.5	18	50	4
3.6 - 4.0	20	50	4
4.1 - 4.5	20	50	6
4.6 - 5.0	24	60	6
5.1 - 6.0	26	60	6
6.1 - 7.0	28	60	8
7.1 - 8.0	30	60	8
8.1 - 9.0	34	75	10
9.1 - 9.5	38	75	10
9.6 - 10.0	40	75	10
10.1 - 11.0	42	75	12
11.1 - 12.0	45	75	12
12.5	52	100	14
13	52	100	14

5D Drill

1.5	13	50	3
1.6 - 2.0	20	50	3
2.1 - 2.5	22	75	3
2.6 - 3.0	26	75	3
3.1 - 3.5	28	75	4
3.6 - 4.0	32	75	4
4.1 - 5.0	36	75	6
5.1 - 6.0	40	75	6
6.1 - 7.0	48	100	8
7.1 - 8.0	50	100	8
8.1 - 9.0	56	100	10
9.1 - 10.0	58	100	10
10.1 - 11.0	60	100	12
11.1 - 12.0	65	100	12
12.5	70	120	14

Customized tools for machining typically refer to tools that are specifically designed and manufactured to meet the unique requirements of a particular machining process or application. These tools are tailored to optimise efficiency, precision, and performance. Customized tools are commonly used in industries like aerospace, automotive, and precision engineering where tight tolerances and specialized materials are involved. Customized solutions for tools in machining involve tailoring tools and tooling systems to address specific challenges, materials, or applications. Start by thoroughly understanding our client's machining needs, materials, and desired outcomes. This analysis forms the foundation for creating a customized solution. Develop tool designs that are optimised for the specific machining task. This may include unique geometries, coatings, or cutting strategies. Choose the appropriate materials for the tool, considering factors such as hardness, wear resistance, and thermal stability. Implement strict quality control measures to guarantee that the custom tools meet specifications and industry standards. Provide on-site support to help clients set up and optimize the custom tool within their machining environment. Strive to provide cost-effective solutions that offer a good return on investment for our clients. Offer reliable after-sales service and support to address any issues or concerns that may arise.

Customized solutions for tools in machining require a deep understanding of both the machining process and the client's needs. By delivering tailored solutions that enhance efficiency, reduce costs, and improve machining outcomes, we can establish a reputation for providing high-value services in the machining industry.

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