

KOVOSVITAVY s.r.o.

CARBIDE END MILLS



Carbide End Mills Series

HP-MAX (General Purpose)

HM-MAX (Multi-Function Purpose)

HY-MAX (For Hardened Steel 48-65HRC)

HS-MAX (For Stainless Steel)

HR-MAX (High-Precision Deep Cavity Processing)

ALU-MAX (For Aluminum Alloy)

DIA-MAX (For Graphite)

We have a passion for quality

www.cznastroje.cz

HP-MAX End Mill Series
(General Purpose)

BALL END MILL	
HPB230	19
RADIUS END MILL	
HPR435	20
FLAT END MILL	
HPE435	21
HPFL435	22
HPE235	23
HPFL235	24

HM-MAX End Mill Series
(Multi-Function Purpose)

BALL END MILL	
HMB230	25
RADIUS END MILL	
HMR435	26
FLAT END MILL	
HME435	27
HMEL435	28
HME235	29
HMEL235	30
HME645	31
HMEL645	32
HMRE430	33
HMREL430	34

HY-MAX End Mill Series
(For Hardened Steels48-65HRC)

BALL END MILL	
HYB230	35
RADIUS END MILL	
HYR435	36
FLAT END MILL	
HYE435	37
HYEL435	38
HYE235	39
HYEL235	40

HS-MAX End Mill Series
(For Stainless Steel)

BALL END MILL	
HSB230	41
RADIUS END MILL	
HSR435	42
FLAT END MILL	
HSE435	43
HSEL435	44
HSE235	45
HSEL235	46

HR-MAX End Mill Series
High-Precision Deep Cavity Processing

BALL END MILL	
HRB230	47
RADIUS END MILL	
HRR230	49
HRR430	50
FLAT END MILL	
HRE230	52
HRE430	54

ALU-MAX End Mill Series
(For Aluminum Alloy)

BALL END MILL	
ALB230	55
FLAT END MILL	
ALE255	56
ALEL255	57
ALE345	58
ALEL345	59
ALR327	60

DIA-MAX End Mill Series
(For Graphite)

BALL END MILL	
DMRB230	61
DMRBL230	61
RADIUS END MILL	
DMRR230	62
DMRR430	63
DMRRL430	64
FLAT END MILL	
DMRE230	65
DMRE430	66
DMREL430	67



KOVOSVITAVY s.r.o.

let's dance to the future



- Top performance
- High quality
- Cost efficient process
- Unique process

Meaning of icons

Tool Materials



Micro Grain Carbide



Super Micro Grain Carbide



Nano Grain Carbide

Coating



ALTiCrN-HP Coating



ALTiN-HM Coating



ALTiSiN-HY Coating



ALTiSiN-HR Coating



ALTiCrN-HS Coating



DIAMOND CVD Coating

Number of Flutes



2 Flute



4 Flute



3 Flute



6 Flute

Helix Angle



25°



35°



27°



45°



30°



55°

Ball Radius Tolerance



Ball Radius Tolerance ± 0.005



Ball Radius Tolerance ± 0.01

Corner Radius Tolerance



Corner Radius Tolerance ± 0.01

Out Diameter Tolerance



Diameter Tolerance is $0 \sim -0.015$



Diameter Tolerance is $0 \sim -0.02$

Features of Coating

Features of Coating

Type	Color	Hardness	Heat Resistance	Coefficient of Friction	Coating Thickness	Recommended Parts
HY MAX	COPPER	3500~3600(HV)	Very Good	Normal	2~4	Steel
DIA CVD	Black	9000~10,000(HV)	Normal	Very Good	4~18	Graphite, Copper, Glass-fiberreinforced plastic

HY MAX

- A multi-layer coating with a nano-composite outer layer with Si₃N₄ nano-crystallites in a crystalline TiN matrix.
- This coating is designed to protect the cutting edge from heat transfer, oxidation and abrasion.
- The coating is designed to allow a cutting edge temperature of up to 1100°C.

DIAMOND

- A polycrystalline diamond coating that has the characteristics of pure diamond.
- The diamond coating's high heat conductivity makes for fast heat dissipation. When processing temperature-sensitive materials such as carbon and glass-fiberreinforced plastics, and allows higher processing speed during machining.
- Its very low coefficient of friction exhibits excellent performance in machining a wide range of sticky materials.
- It also has the highest tensile and compressive strength.



NO.1

High quality bar selection

The cutter adopts European quality 0.2 μm , 0.4 μm of ultra-fine particle tungsten steel bars, high rigidity and strong resistance to strong guarantee for the service life of the cutter.

NO.2

Advanced grinding equipment

The cutter adopts Germany WALTER and Australia's ACNA as the world's top universal tool grinding machine precision and grinding, ensure that every tool very good uniformity and stability.



NO.3

Full automation products manufacturing

The cutter adopts fully automatic manufacturing process strict and high standard, efficient an high quality production system, to further strengthen and improve the stability of cutting tool.



NO.4

Top coating technology

The cutter by Swiss PLATIT coating technology, excellent wear resistance and high efficient lubrication to ensure the service life of the cutter has extraordinary.



NO.5

Strict quality inspection

The cutter adopts Germany ZOLLER 3D measuring instrument, achieves the product 100% detection, to ensure that each one toll factory precision 100% pass rate.



CARBIDE END MILL

General Catalog



KOVOSVITAVY s.r.o.

Ball	HP-MAX
Radius	
Flat	
Ball	HM-MAX
Radius	
Flat	
Ball	HY-MAX
Radius	
Flat	
Ball	HS-MAX
Radius	
Flat	
Ball	HR-MAX
Radius	
Flat	
Flat Ball	ALU-MAX
Ball	DIA-MAX
Radius	
Flat	

Introduction

Carbide End Mill Series

PHOTO	SPECIFICATION			
	Model	Flutes/Helix	Effective Length	Page
				Size List

HP-MAX END MILL SERIES (General Purpose)

BALL END MILL



2F Ball End Mill

HPB230



adopted

p. 19

FLAT END MILL



4F Radius End Mill

HPR435



adopted

p. 20

FLAT END MILL



4F Flat End Mill

HPE435



adopted

p. 21



4F Long Flute Flat End Mill

HPFL435



adopted

p. 22



2F Flat End Mill

HPE235



adopted

p. 23



2F Long Flute Flat End Mill

HPFL235



adopted

p. 24

HM-MAX END MILL SERIES (Multi-Function Purpose)

BALL END MILL



2F Ball End Mill

HMB230



adopted

p. 25

RADIUS END MILL



4F Radius End Mill

HMR435



adopted

p. 26

FLAT END MILL



4F Flat End Mill

HME435



adopted

p. 27



4F Long Flute Flat End Mill

HMFL435



adopted

p. 28



2F Flat End Mill

HME235



adopted

p. 29



2F Long Flute Flat End Mill

HMFL235



adopted

p. 30

* Applicable Work Material (● Most Suitable ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels					Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				

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HP-MAX

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HM-MAX









Introduction

Carbide End Mill Series

PHOTO	SPECIFICATION			
	Model	Flutes/Helix	Effective Length	Page
				Size List

HM-MAX END MILL SERIES (Multi-Function Purpose)

FLAT END MILL

	6F Flat End Mill	HME645		adopted	p. 31
	6F Long Flute Flat End Mill	HMEL645		adopted	p. 32
	4F Roughing Flat End Mill	HMRE430		adopted	p. 33
	4F Long Flute Roughing Flat End Mill	HMREL430		adopted	p. 34

HY-MAX END MILL SERIES (For Hardened Steel 48-65HRC)









BALL END MILL

	2F Ball End Mill	HYB230		adopted	p. 35
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RADIUS END MILL

	4F Radius End Mill	HYR435		adopted	p. 36
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FLAT END MILL

	4F Flat End Mill	HYE435		adopted	p. 37
	4F Long Flute Flat End Mill	HYEL435		Not	p. 38
	2F Flat End Mill	HYE235		adopted	p. 39
	2F Long Flute Flat End Mill	HYEL235		Not	p. 40

* Applicable Work Material (● Most Suitable ○ Applicable)

WORK MATERIAL												
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels						Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC					

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Introduction











Carbide End Mill Series

PHOTO	SPECIFICATION		
	Model	Flutes/Helix	Effective Length
			Size List

HS-MAX END MILL SERIES (For Stainless Steel)

BALL END MILL			
	2F Ball End Mill	HSB230	 adopted P. 41
RADIUS END MILL			
	4F Radius End Mill	HSR435	 adopted P. 42
FLAT END MILL			
	4F Flat End Mill	HSE435	 Not P. 43
	4F Long Flute Flat End Mill	HSEL435	 adopted P. 44
	2F Flat End Mill	HSE235	 adopted P. 45
	2F Long Flute Flat End Mill	HSEL235	 adopted P. 46

HR-MAX END MILL SERIES (High-Precision Deep Cavity Processing)

BALL END MILL			
	2F Rib Ball End Mill	HRB230	 adopted P. 47
RADIUS END MILL			
	2F Rib Radius End Mill	HRR230	 adopted P. 49
	4F Rib Radius End Mill	HRR430	 adopted P. 50
FLAT END MILL			
	2F Rib Flat End Mill	HRE230	 adopted P. 52
	4F Rib Flat End Mill	HRE430	 adopted P. 54

* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL												
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels					Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC					

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HS-MAX

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HR-MAX

Introduction

Carbide End Mill Series

PHOTO	SPECIFICATION			
	Model	Flutes/Helix	Effective Length	Page
				Size List

ALU-MAX END MILL SERIES (For Aluminum Alloy)

BALL END MILL

	2F Ball End Mill	ALB230		adopted	p. 55
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FLAT END MILL

	2F Flat End Mill	ALE255		adopted	p. 56
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	2F Long Flute Flat End Mill	ALEL255		adopted	p. 57
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	3F Flat End Mill	ALE345		adopted	p. 58
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	3F Long Flute Flat End Mill	ALEL345		adopted	p. 59
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	3F Roughing Flat End Mill	ALR327		adopted	p. 60
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DIA-MAX END MILL SERIES (For Graphite)

BALL END MILL



	2F Rib Ball End Mill	DMRB230		adopted	p. 61
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	2F Long Shank Rib Ball End Mill	DMRBL230		adopted	p. 61
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RADIUS END MILL

	2F Rib Radius End Mill	DMRR230		Not	p. 62
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	4F Rib Radius End Mill	DMRR430		adopted	p. 63
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	4F Long Shank Rib Radius End Mill	DMRRL430		adopted	p. 64
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FLAT END MILL

	2F Rib Flat End Mill	DMRE230		Not	p. 65
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	4F Rib Flat End Mill	DMRE430		adopted	p. 66
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	4F Long Shank Rib Flute Flat End Mill	DMREL430		adopted	p. 67
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* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL												
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels						Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC					

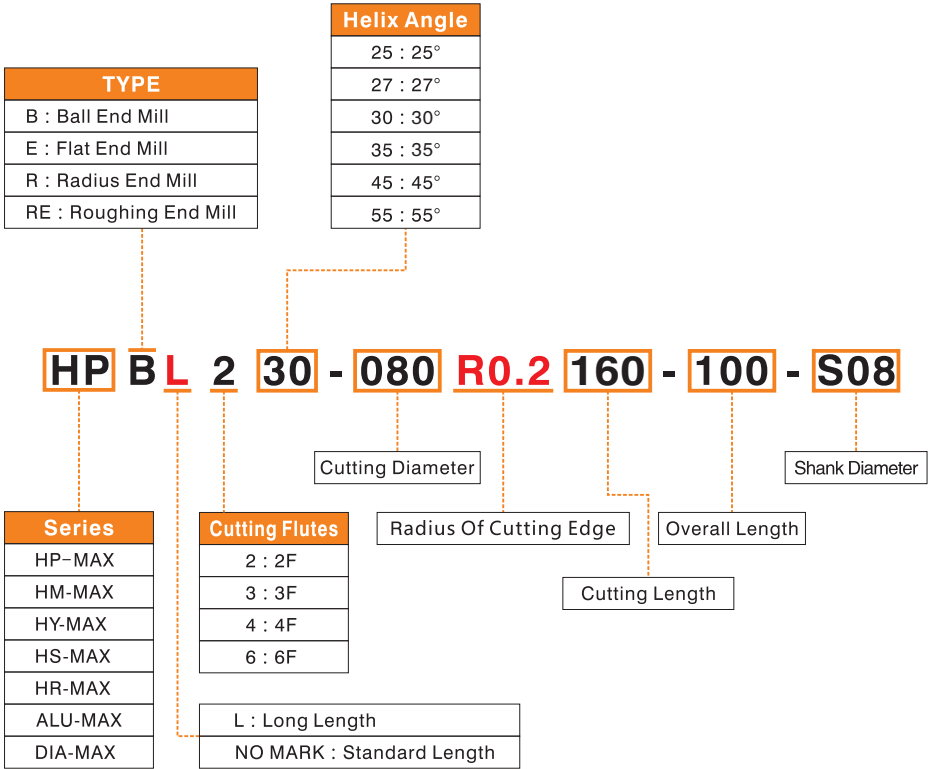
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ALL-MAX

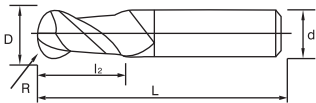
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DIA-MAX

Detailed explanation of the model



HPB230 | HP-MAX Ball End Mill 2-Flute 30°



CARBIDE MG
HP MAX
2
30° Helix
R ±0.005 Ds≤6
R ±0.01 Ds>6
D 0/±0.015 Ds≤5
D 0/-0.02 Ds>6

* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL									
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S30C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC		
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Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	R	L ₂	L	d
HPB230-010020-050-S04	0.5	2	50	4
HPB230-015030-050-S04	0.75	3	50	4
HPB230-020040-050-S04	1	4	50	4
HPB230-030060-050-S04	1.5	6	50	4
HPB230-030060-050-S04	1.5	6	50	4
HPB230-040080-050-S04	2	8	50	4
HPB230-040080-050-S06	2	8	50	6
HPB230-050100-050-S06	2.5	10	50	6
HPB230-060120-050-S06	3	12	50	6
HPB230-060120-075-S06	3	12	75	6
HPB230-060120-100-S06	3	12	100	6
HPB230-080160-060-S08	4	16	60	8
HPB230-080160-075-S08	4	16	75	8
HPB230-080160-100-S08	4	16	100	8
HPB230-100200-075-S10	5	20	75	10
HPB230-100200-100-S10	5	20	100	10
HPB230-120240-075-S12	6	24	75	12
HPB230-120240-100-S12	6	24	100	12

Unit (mm)

HP-MAX End Mill Series

- Ball
- Radius
- Flat

HP-MAX End Mill Series

- Ball
- Radius
- Flat

HY-MAX End Mill Series

- Ball
- Radius
- Flat

HS-MAX End Mill Series

- Ball
- Radius
- Flat

HR-MAX End Mill Series

- Ball
- Radius
- Flat

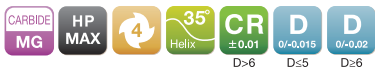
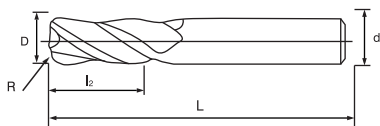
ALU-MAX

- Flat

DIA-MAX End Mill Series

- Ball
- Radius
- Flat

HPR435 | HP-MAX Radius End Mill 4-Flute 35°



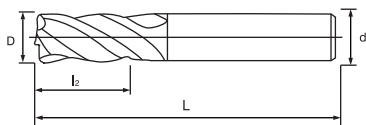
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	—
S45C/S50C	SCM	S304L/S16L	-50HRC	1.55HRC	1.60HRC	1.62HRC	1.65HRC			
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Model No.	Dia of Mill		Corner R		Length of Cut	Overall Length	Shank Dia
	D	R	R	l ₂	L	d	
HPR435-010R0.2-050-S04	1	0.2	0.2	3	50	4	
HPR435-020R0.2-050-S04	2	0.2	0.2	6	50	4	
HPR435-030R0.2-050-S04	3	0.2	0.2	8	50	4	
HPR435-030R0.5-050-S04	3	0.5	0.5	8	50	4	
HPR435-040R0.2-050-S04	4	0.2	0.2	11	50	4	
HPR435-040R0.5-050-S04	4	0.5	0.5	11	50	4	
HPR435-060R0.2-050-S06	6	0.2	0.2	16	50	6	
HPR435-060R0.5-050-S06	6	0.5	0.5	16	50	6	
HPR435-060R1.0-050-S06	6	1	1	16	50	6	
HPR435-060R0.5-075-S06	6	0.5	0.5	16	75	6	
HPR435-060R1.0-075-S06	6	1	1	16	75	6	
HPR435-060R0.5-100-S06	6	0.5	0.5	16	100	6	
HPR435-060R1.0-100-S06	6	1	1	16	100	6	
HPR435-080R0.5-060-S08	8	0.5	0.5	20	60	8	
HPR435-080R1.0-060-S08	8	1	1	20	60	8	
HPR435-080R0.5-075-S08	8	0.5	0.5	20	75	8	
HPR435-080R1.0-075-S08	8	1	1	20	75	8	
HPR435-080R0.5-100-S08	8	0.5	0.5	20	100	8	
HPR435-080R1.0-100-S08	8	1	1	20	100	8	
HPR435-100R0.5-075-S10	10	0.5	0.5	25	75	10	
HPR435-100R1.0-075-S10	10	1	1	25	75	10	
HPR435-100R0.5-100-S10	10	0.5	0.5	25	100	10	
HPR435-100R1.0-100-S10	10	1	1	25	100	10	
HPR435-120R0.5-075-S12	12	0.5	0.5	30	75	12	
HPR435-120R1.0-075-S12	12	1	1	30	75	12	
HPR435-120R0.5-100-S12	12	0.5	0.5	30	100	12	
HPR435-120R1.0-100-S12	12	1	1	30	100	12	

Unit (mm)

HPE435 | HP-MAX Flat End Mill 4-Flute 35°



D≤5

D≥6

* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL

Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC	-	-
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Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l ₂	L	d
HPE435-010030-050-S04	1.0	3	50	4
HPE435-015040-050-S04	1.5	4	50	4
HPE435-020060-050-S04	2	6	50	4
HPE435-025070-050-S04	2.5	7	50	4
HPE435-030090-050-S04	3	9	50	4
HPE435-030090-050-S03	3	9	50	3
HPE435-040110-050-S04	4	11	50	4
HPE435-050130-050-S06	5	13	50	6
HPE435-060160-050-S06	6	16	50	6
HPE435-080200-060-S08	8	20	60	8
HPE435-100250-075-S10	10	25	75	10
HPE435-120300-075-S12	12	30	75	12
HPE435-140350-100-S14	14	35	100	14
HPE435-160400-100-S16	16	40	100	16
HPE435-180450-100-S18	18	45	100	18
HPE435-200500-100-S20	20	50	100	20

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HP-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

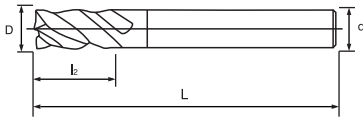
DIA-MAX End Mill Series

Ball

Radius

Flat

HPEL435 | HP-MAX Long Flute Flat End Mill 4-Flute 35°



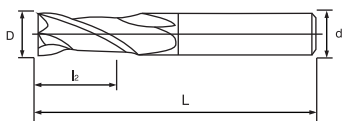
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	-	-	-	-	-	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l	L	d
HPEL435-030090-075-S04	3	9	75	4
HPEL435-040120-075-S04	4	12	75	4
HPEL435-030120-100-S04	3	12	100	4
HPEL435-040160-100-S04	4	16	100	4
HPEL435-050150-075-S06	5	15	75	6
HPEL435-060180-075-S06	6	18	75	6
HPEL435-050200-100-S06	5	20	100	6
HPEL435-060240-100-S06	6	24	100	6
HPEL435-080240-075-S08	8	24	75	8
HPEL435-080320-100-S08	8	32	100	8
HPEL435-100400-100-S10	10	40	100	10
HPEL435-120480-100-S12	12	48	100	12

Unit (mm)

HPE235 | HP-MAX Flat End Mill 2-Flute 35°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	
S45C/S30C	SCM	S304L/316L	-50HRC	-55HRC	-50HRC	-62HRC	-65HRC			
○	○	○	○	-	-	-	-	-	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia	
	D	l	L	d	
HPE235-010030-050-S04	1.0	3	50	4	
HPE235-015040-050-S04	1.5	4	50	4	
HPE235-020060-050-S04	2	6	50	4	
HPE235-025070-050-S04	2.5	7	50	4	
HPE235-030090-050-S03	3	9	50	3	
HPE235-030090-050-S04	3	9	50	4	
HPE235-040110-050-S04	4	11	50	4	
HPE235-050130-050-S06	5	13	50	6	
HPE235-060160-050-S06	6	16	50	6	
HPE235-080200-060-S08	8	20	60	8	
HPE235-100250-075-S10	10	25	75	10	
HPE235-120300-075-S12	12	30	75	12	
HPE235-140350-100-S14	14	35	100	14	
HPE235-160400-100-S16	16	40	100	16	
HPE235-180450-100-S18	18	45	100	18	
HPE235-200500-100-S20	20	50	100	20	

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HP-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

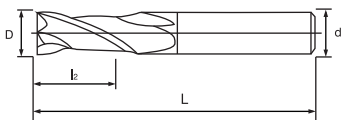
DIA-MAX End Mill Series

Ball

Radius

Flat

HPEL235 | HP-MAX Long Flute Flat End Mill 2-Flute 35°



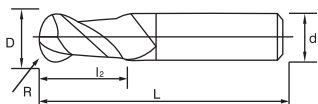
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels				Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	↑	55HRC	↑	60HRC	↑	62HRC	↑	65HRC
○	○	○	○	-	-	-	-	-	○	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l	L	d
HPEL235-030090-075-S04	3	9	75	4
HPEL235-040120-075-S04	4	12	75	4
HPEL235-030120-100-S04	3	12	100	4
HPEL235-040160-100-S04	4	16	100	4
HPEL235-050150-075-S06	5	15	75	6
HPEL235-060180-075-S06	6	18	75	6
HPEL235-050200-100-S06	5	20	100	6
HPEL235-060240-100-S06	6	24	100	6
HPEL235-080240-075-S08	8	24	75	8
HPEL235-080320-100-S08	8	32	100	8
HPEL235-100400-100-S10	10	40	100	10
HPEL235-120480-100-S12	12	48	100	12

Unit (mm)

HMB230 | HM-MAX Ball End Mill 2-Flute 30°



* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels		Hardened Steels		Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	-	-	-	-	○	-	-

Model No.	Dia of Mill		Length of Cut		Overall Length		Shank Dia	
	R		l ₂		L		d	
HMB230-010020-050-S04	0.5		2		50		4	
HMB230-015030-050-S04	0.75		3		50		4	
HMB230-020040-050-S04	1		4		50		4	
HMB230-030060-050-S04	1.5		6		50		4	
HMB230-030060-050-S04	1.5		6		50		4	
HMB230-040080-050-S04	2		8		50		4	
HMB230-040080-050-S06	2		8		50		6	
HMB230-050100-050-S06	2.5		10		50		6	
HMB230-060120-050-S06	3		12		50		6	
HMB230-060120-075-S06	3		12		75		6	
HMB230-060120-100-S06	3		12		100		6	
HMB230-080160-060-S08	4		16		60		8	
HMB230-080160-075-S08	4		16		75		8	
HMB230-080160-100-S08	4		16		100		8	
HMB230-100200-075-S10	5		20		75		10	
HMB230-100200-100-S10	5		20		100		10	
HMB230-120240-075-S12	6		24		75		12	
HMB230-120240-100-S12	6		24		100		12	

Unit (mm)

HP-MAX End Mill Series

HM-MAX End Mill Series

HY-MAX End Mill Series

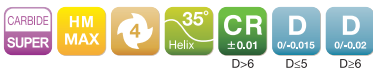
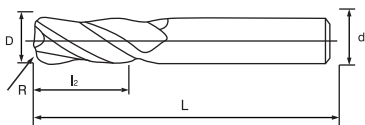
HS-MAX End Mill Series

HR-MAX End Mill Series

ALU-MAX

DIA-MAX End Mill Series

HMR435 | HM-MAX Radius End Mill 4-Flute 35°



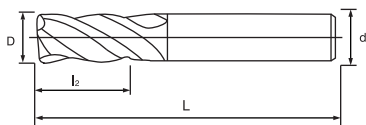
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	-	-	-	-	○	-	-

Model No.	Dia of Mill		Corner R		Length of Cut		Overall Length		Shank Dia	
	D	R	R	l	L	d	d	d	d	
HMR435-010R0.2-050-S04	1	0.2	0.2	3	50	4				
HMR435-020R0.2-050-S04	2	0.2	0.2	6	50	4				
HMR435-030R0.2-050-S04	3	0.2	0.2	8	50	4				
HMR435-030R0.5-050-S04	3	0.5	0.5	8	50	4				
HMR435-040R0.2-050-S04	4	0.2	0.2	11	50	4				
HMR435-040R0.5-050-S04	4	0.5	0.5	11	50	4				
HMR435-060R0.2-050-S06	6	0.2	0.2	16	50	6				
HMR435-060R0.5-050-S06	6	0.5	0.5	16	50	6				
HMR435-060R1.0-050-S06	6	1	1	16	50	6				
HMR435-060R0.5-075-S06	6	0.5	0.5	16	75	6				
HMR435-060R1.0-075-S06	6	1	1	16	75	6				
HMR435-060R0.5-100-S06	6	0.5	0.5	16	100	6				
HMR435-060R1.0-100-S06	6	1	1	16	100	6				
HMR435-080R0.5-060-S08	8	0.5	0.5	20	60	8				
HMR435-080R1.0-060-S08	8	1	1	20	60	8				
HMR435-080R0.5-075-S08	8	0.5	0.5	20	75	8				
HMR435-080R1.0-075-S08	8	1	1	20	75	8				
HMR435-080R0.5-100-S08	8	0.5	0.5	20	100	8				
HMR435-080R1.0-100-S08	8	1	1	20	100	8				
HMR435-100R0.5-075-S10	10	0.5	0.5	25	75	10				
HMR435-100R1.0-075-S10	10	1	1	25	75	10				
HMR435-100R0.5-100-S10	10	0.5	0.5	25	100	10				
HMR435-100R1.0-100-S10	10	1	1	25	100	10				
HMR435-120R0.5-075-S12	12	0.5	0.5	30	75	12				
HMR435-120R1.0-075-S12	12	1	1	30	75	12				
HMR435-120R0.5-100-S12	12	0.5	0.5	30	100	12				
HMR435-120R1.0-100-S12	12	1	1	30	100	12				

Unit (mm)

HME435 | HM-MAX Flat End Mill 4-Flute 35°



* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	50HRC	55HRC	60HRC	62HRC	65HRC			
○	○	○	○	○	-	-	-	-	-	-

Model No.	Dia of Mill	length of Cut	Overall Length	Shank Dia
	D	l ₂	L	d
HME435-010030-050-S04	1.0	3	50	4
HME435-015040-050-S04	1.5	4	50	4
HME435-020060-050-S04	2	6	50	4
HME435-025070-050-S04	2.5	7	50	4
HME435-030090-050-S03	3	9	50	3
HME435-030090-050-S04	3	9	50	4
HME435-040110-050-S04	4	11	50	4
HME435-050130-050-S06	5	13	50	6
HME435-060160-050-S06	6	16	50	6
HME435-080200-060-S08	8	20	60	8
HME435-100250-075-S10	10	25	75	10
HME435-120300-075-S12	12	30	75	12
HME435-140350-100-S14	14	35	100	14
HME435-160400-100-S16	16	40	100	16
HME435-180450-100-S18	18	45	100	18
HME435-200500-100-S20	20	50	100	20

Unit (mm)

HP-MAX End Mill Series

- Ball
- Radius
- Flat

HM-MAX End Mill Series

- Ball
- Radius
- Flat

HY-MAX End Mill Series

- Ball
- Radius
- Flat

HS-MAX End Mill Series

- Ball
- Radius
- Flat

HR-MAX End Mill Series

- Ball
- Radius
- Flat

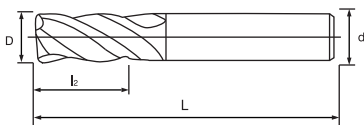
ALU-MAX

- Flat

DIA-MAX End Mill Series

- Ball
- Radius
- Flat

HMEL435 | HM-MAX Long Flute Flat End Mill 4-Flute 35°



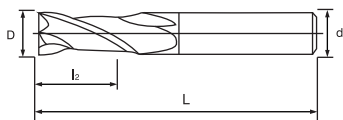
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels			Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	-	-	-	-	○	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l _c	L	d
HMEL435-030090-075-S04	3	9	75	4
HMEL435-040120-075-S04	4	12	75	4
HMEL435-030120-100-S04	3	12	100	4
HMEL435-040160-100-S04	4	16	100	4
HMEL435-050150-075-S06	5	15	75	6
HMEL435-060180-075-S06	6	18	75	6
HMEL435-050200-100-S06	5	20	100	6
HMEL435-060240-100-S06	6	24	100	6
HMEL435-080240-075-S08	8	24	75	8
HMEL435-080320-100-S08	8	32	100	8
HMEL435-100400-100-S10	10	40	100	10
HMEL435-120480-100-S12	12	48	100	12

Unit (mm)

HME235 | HM-MAX Flat End Mill 2-Flute 35°



* Applicable Work Material (○ Most Suitable, ◯ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	-	-	-	○	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l _c	L	d
HME235-010030-050-S04	1.0	3	50	4
HME235-015040-050-S04	1.5	4	50	4
HME235-020060-050-S04	2	6	50	4
HME235-025070-050-S04	2.5	7	50	4
HME235-030090-050-S03	3	9	50	3
HME235-030090-050-S04	3	9	50	4
HME235-040110-050-S04	4	11	50	4
HME235-050130-050-S06	5	13	50	6
HME235-060160-050-S06	6	16	50	6
HME235-080200-060-S08	8	20	60	8
HME235-100250-075-S10	10	25	75	10
HME235-120300-075-S12	12	30	75	12
HME235-140350-100-S14	14	35	100	14
HME235-160400-100-S16	16	40	100	16
HME235-180450-100-S18	18	45	100	18
HME235-200500-100-S20	20	50	100	20

Unit (mm)

HP-MAX End Mill Series

Ball
Radius
Flat

HM-MAX End Mill Series

Ball
Radius
Flat

HY-MAX End Mill Series

Ball
Radius
Flat

HS-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

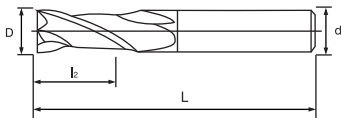
ALU-MAX

Flat

DIA-MAX End Mill Series

Ball
Radius
Flat

HMEL235 | HM-MAX Long Flute Flat End Mill 2-Flute 35°



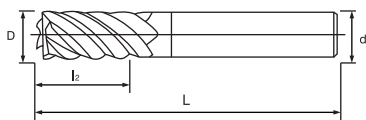
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels				Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	55HRC	60HRC	62HRC	65HRC				
○	○	○	○	○	-	-	-	-	○	-	

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l	L	d
HMEL235-030090-075-S04	3	9	75	4
HMEL235-040120-075-S04	4	12	75	4
HMEL235-030120-100-S04	3	12	100	4
HMEL235-040160-100-S04	4	16	100	4
HMEL235-050150-075-S06	5	15	75	6
HMEL235-060180-075-S06	6	18	75	6
HMEL235-050200-100-S06	5	20	100	6
HMEL235-060240-100-S06	6	24	100	6
HMEL235-080240-075-S08	8	24	75	8
HMEL235-080320-100-S08	8	32	100	8
HMEL235-100400-100-S10	10	40	100	10
HMEL235-120480-100-S12	12	48	100	12

Unit (mm)

HME645 | HM-MAX Flat End Mill 6-Flute 45°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	○	○	○	-	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia	
	D	l ₂	L	d	
HME645-060180-060-S06	6	18	50	6	
HME645-080200-060-S08	8	20	60	8	
HME645-100300-075-S10	10	30	75	10	
HME645-120320-075-S12	12	32	75	12	
HME645-160400-100-S16	16	40	100	16	
HME645-200450-100-S20	20	45	100	20	

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HM-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

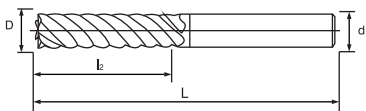
DIA-MAX End Mill Series

Ball

Radius

Flat

HMEL645 | HM-MAX Long Flute Flat End Mill 6-Flute 45°



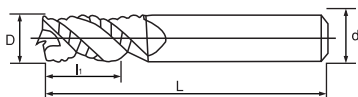
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels				Graphite	Copper	Aluminium Alloys	Glass fibre reinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	-	-	-	-	○	-	

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l _c	L	d
HMEL645-060240-075-S06	6	24	75	6
HMEL645-060240-100-S06	6	24	100	6
HMEL645-080320-075-S08	8	32	75	8
HMEL645-080320-100-S06	8	32	100	8
HMEL645-100400-100-S10	10	40	100	10
HMEL645-120450-100-S12	12	45	100	12
HMEL645-160640-150-S16	16	64	150	16
HMEL645-200750-150-S20	20	75	150	20

Unit (mm)

HMRE430 | HM-MAX Roughing Flat End Mill 4-Flute 30°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels				Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S16L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	-	-	-	-	○	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l _c	L	d
HMRE430-030080-050-S04	3	8	50	4
HMRE430-040100-050-S04	4	10	50	4
HMRE430-060150-060-S06	6	15	50	6
HMRE430-080200-060-S08	8	20	60	8
HMRE430-100250-075-S10	10	25	75	10
HMRE430-120300-075-S12	12	30	75	12
HMRE430-160400-100-S16	16	40	100	16
HMRE430-200500-100-S20	20	50	100	20

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HM-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

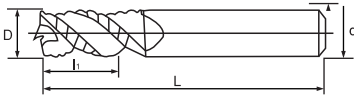
DIA-MAX End Mill Series

Ball

Radius

Flat

HMREL430 | HM-MAX Long Flute Roughing Flat End Mill 4-Flute 30°



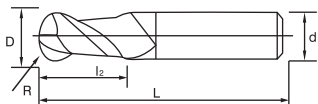
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	55HRC	60HRC	62HRC	65HRC				
○	○	○	○	○	-	-	-	-	○	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia		
	D	l	L	d		
HMREL430-060240-100-S06	6	24	100	6		
HMREL430-080320-100-S08	8	32	100	8		
HMREL430-100400-100-S10	10	40	100	10		
HMREL430-120480-100-S12	12	48	100	12		
HMREL430-160650-150-S16	16	65	150	16		
HMREL430-200800-150-S20	20	80	150	20		

Unit (mm)

HYB230 | HY-MAX Ball End Mill 2-Flute 30°



* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL

Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiber-reinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC		
○	○	○	○	○	-	-	○	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	R	Lz	L	d
HYB230-010020-050-S04	0.5	2	50	4
HYB230-015030-050-S04	0.75	3	50	4
HYB230-020040-050-S04	1	4	50	4
HYB230-030060-050-S04	1.5	6	50	4
HYB230-030060-050-S04	1.5	6	50	4
HYB230-040080-050-S04	2	8	50	4
HYB230-040080-050-S06	2	8	50	6
HYB230-050100-050-S06	2.5	10	50	6
HYB230-060120-050-S06	3	12	50	6
HYB230-060120-075-S06	3	12	75	6
HVB230-060120-100-S06	3	12	100	6
HYB230-080160-060-S08	4	16	60	8
HYB230-080160-075-S08	4	16	75	8
HYB230-080160-100-S08	4	16	100	8
HYB230-100200-075-S10	5	20	75	10
HYB230-100200-100-S10	5	20	100	10
HYB230-120240-075-S12	6	24	75	12
HYB230-120240-100-S12	6	24	100	12

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HM-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

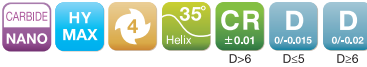
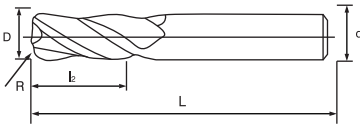
DIA-MAX End Mill Series

Ball

Radius

Flat

HYR435 | HY-MAX Radius End Mill 4-Flute 35°



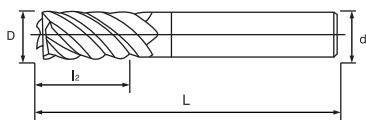
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	±0.01	-50HRC	-60HRC	-62HRC	-65HRC		
○	○	○	●	●	●	-	-	-	○	-

Model No.	Dia of Mill		Corner R		Length of Cut	Overall Length	Shank Dia
	D	R	R	b	L	d	
HYR435-010R0.2-050-S04	1	0.2	0.2	3	50	4	
HYR435-020R0.2-050-S04	2	0.2	0.2	6	50	4	
HYR435-030R0.2-050-S04	3	0.2	0.2	8	50	4	
HYR435-030R0.5-050-S04	3	0.5	0.5	8	50	4	
HYR435-040R0.2-050-S04	4	0.2	0.2	11	50	4	
HYR435-040R0.5-050-S04	4	0.5	0.5	11	50	4	
HYR435-060R0.2-050-S06	6	0.2	0.2	16	50	6	
HYR435-060R0.5-050-S06	6	0.5	0.5	16	50	6	
HYR435-060R1.0-050-S06	6	1	1	16	50	6	
HYR435-060R0.5-075-S06	6	0.5	0.5	16	75	6	
HYR435-060R1.0-075-S06	6	1	1	16	75	6	
HYR435-060R0.5-100-S06	6	0.5	0.5	16	100	6	
HYR435-060R1.0-100-S06	6	1	1	16	100	6	
HYR435-080R0.5-060-S08	8	0.5	0.5	20	60	8	
HYR435-080R1.0-060-S08	8	1	1	20	60	8	
HYR435-080R0.5-075-S08	8	0.5	0.5	20	75	8	
HYR435-080R1.0-075-S08	8	1	1	20	75	8	
HYR435-080R0.5-100-S08	8	0.5	0.5	20	100	8	
HYR435-080R1.0-100-S08	8	1	1	20	100	8	
HYR435-100R0.5-075-S10	10	0.5	0.5	25	75	10	
HYR435-100R1.0-075-S10	10	1	1	25	75	10	
HYR435-100R0.5-100-S10	10	0.5	0.5	25	100	10	
HYR435-100R1.0-100-S10	10	1	1	25	100	10	
HYR435-120R0.5-075-S12	12	0.5	0.5	30	75	12	
HYR435-120R1.0-075-S12	12	1	1	30	75	12	
HYR435-120R0.5-100-S12	12	0.5	0.5	30	100	12	
HYR435-120R1.0-100-S12	12	1	1	30	100	12	

Unit (mm)

HYE645 | HY-MAX Flat End Mill 6-Flute 35°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL									
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels		Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC					
○	○	○	○	○	○	○	-	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l ₂	L	d
HYE645-060150-060-S06	6	15	60	6
HYE645-080200-060-S06	8	20	60	6
HYE645-100250-075-S06	10	25	75	6
HYE645-120300-075-S06	12	30	75	6
HYE645-140350-100-S06	14	35	100	6
HYE645-160400-100-S06	16	40	100	6
HYE645-200500-100-S06	20	50	100	6

Unit (mm)

HP-MAX End Mill Series

Ball
Radius
Flat

HM-MAX End Mill Series

Ball
Radius
Flat

HY-MAX End Mill Series

Ball
Radius
Flat

HS-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

ALU-MAX

Flat

DIA-MAX End Mill Series

Ball
Radius
Flat

HYE645 | HY-MAX Flat End Mill 6-Flute 35°

CARBIDE
SUPER

HY
MAX

6

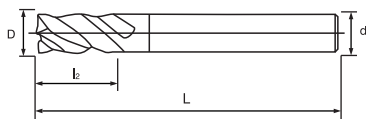
35°
Helix

D
0/-0.015
D≤5

D
0/-0.02
D=6



HYE435 | HY-MAX Flat End Mill 4-Flute 35°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels		Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	○	-	-	-	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l ₂	L	d
HYE435-010030-050-S04	1.0	3	50	4
HYE435-015040-050-S04	1.5	4	50	4
HYE435-020060-050-S04	2	6	50	4
HYE435-025070-050-S04	2.5	7	50	4
HYE435-030090-050-S04	3	9	50	4
HYE435-030090-050-S03	3	9	50	3
HYE435-040110-050-S04	4	11	50	4
HYE435-050130-050-S06	5	13	50	6
HYE435-060160-050-S06	6	16	50	6
HYE435-080200-060-S08	8	20	60	8
HYE435-100250-075-S10	10	25	75	10
HYE435-120300-075-S12	12	30	75	12

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HM-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

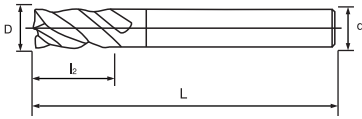
DIA-MAX End Mill Series

Ball

Radius

Flat

HYEL435 | HM-MAX Long Flute Flat End Mill 4-Flute 35°



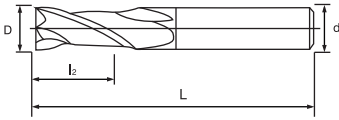
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels				Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	○	-	-	-	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l	L	d
HYEL435-030090-075-S04	3	9	75	4
HYEL435-040120-075-S04	4	12	75	4
HYEL435-030120-100-S04	3	12	100	4
HYEL435-040160-100-S04	4	16	100	4
HYEL435-050150-075-S06	5	15	75	6
HYEL435-060180-075-S06	6	18	75	6
HYEL435-050200-100-S06	5	20	100	6
HYEL435-060240-100-S06	6	24	100	6
HYEL435-080240-075-S08	8	24	75	8
HYEL435-080320-100-S08	8	32	100	8
HYEL435-100400-100-S10	10	40	100	10
HYEL435-120480-100-S12	12	48	100	12

Unit (mm)

HYE235 | HY-MAX Flat End Mill 2-Flute 35°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL

Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC		
○	○	○	○	○	○	○	○	○	○

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l ₂	L	d
HYE235-010030-050-S04	1.0	3	50	4
HYE235-015040-050-S04	1.5	4	50	4
HYE235-020060-050-S04	2	6	50	4
HYE235-025070-050-S04	2.5	7	50	4
HYE235-030090-050-S03	3	9	50	3
HYE235-030090-050-S04	3	9	50	4
HYE235-040110-050-S04	4	11	50	4
HYE235-050130-050-S06	5	13	50	6
HYE235-060160-050-S06	6	16	50	6
HYE235-080200-060-S08	8	20	60	8
HYE235-100250-075-S10	10	25	75	10
HYE235-120300-075-S12	12	30	75	12

Unit (mm)

HP-MAX End Mill Series

HM-MAX End Mill Series

HY-MAX End Mill Series

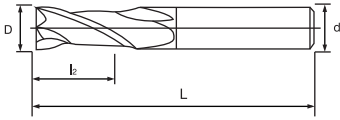
HS-MAX End Mill Series

HR-MAX End Mill Series

ALU-MAX

DIA-MAX End Mill Series

HYEL235 | HM-MAX Long Flute Flat End Mill 2-Flute 35°



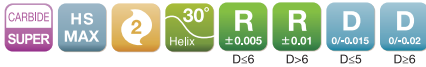
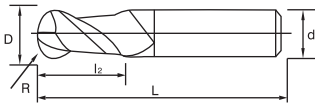
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL									
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	↑-55HRC	↑-60HRC	↑-62HRC	↑-65HRC		
○	○	○	○	○	○	○	○	○	○

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l	L	d
HYEL235-030090-075-S04	3	9	75	4
HYEL235-040120-075-S04	4	12	75	4
HYEL235-030120-100-S04	3	12	100	4
HYEL235-040160-100-S04	4	16	100	4
HYEL235-050150-075-S06	5	15	75	6
HYEL235-060180-075-S06	6	18	75	6
HYEL235-050200-100-S06	5	20	100	6
HYEL235-060240-100-S06	6	24	100	6
HYEL235-080240-075-S08	8	24	75	8
HYEL235-080320-100-S08	8	32	100	8
HYEL235-100400-100-S10	10	40	100	10
HYEL235-120480-100-S12	12	48	100	12

Unit (mm)

HSB230 | HS-MAX Ball End Mill 2-Flute 30°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels		Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	-	-	-	-	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia	
	R	lz	L	d	
HSB230-010020-050-S04	0.5	2	50	4	
HSB230-015030-050-S04	0.75	3	50	4	
HSB230-020040-050-S04	1	4	50	4	
HSB230-030060-050-S04	1.5	6	50	4	
HSB230-030060-050-S04	1.5	6	50	4	
HSB230-040080-050-S04	2	8	50	4	
HSB230-040080-050-S06	2	8	50	6	
HSB230-050100-050-S06	2.5	10	50	6	
HSB230-060120-050-S06	3	12	50	6	
HSB230-060120-075-S06	3	12	75	6	
HSB230-060120-100-S06	3	12	100	6	
HSB230-080160-060-S08	4	16	60	8	
HSB230-080160-075-S08	4	16	75	8	
HSB230-080160-100-S08	4	16	100	8	
HSB230-100200-075-S10	5	20	75	10	
HSB230-100200-100-S10	5	20	100	10	
HSB230-120240-075-S12	6	24	75	12	
HSB230-120240-100-S12	6	24	100	12	

Unit (mm)

HP-MAX End Mill Series

HM-MAX End Mill Series

HY-MAX End Mill Series

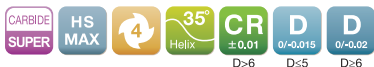
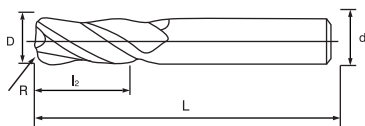
HS-MAX End Mill Series

HR-MAX End Mill Series

ALU-MAX

DIA-MAX End Mill Series

HSR435 | HS-MAX Radius End Mill 4-Flute 35°



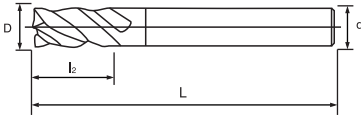
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels			Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	±55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	-	-	-	-	○	-	-

Model No.	Dia of Mill		Corner R		Length of Cut	Overall Length	Shank Dia
	D	R	l _c	L	d		
HSR435-010R0.2-050-S04	1	0.2	3	50	4		
HSR435-020R0.2-050-S04	2	0.2	6	50	4		
HSR435-030R0.2-050-S04	3	0.2	8	50	4		
HSR435-030R0.5-050-S04	3	0.5	8	50	4		
HSR435-040R0.2-050-S04	4	0.2	11	50	4		
HSR435-040R0.5-050-S04	4	0.5	11	50	4		
HSR435-060R0.2-050-S06	6	0.2	16	50	6		
HSR435-060R0.5-050-S06	6	0.5	16	50	6		
HSR435-060R1.0-050-S06	6	1	16	50	6		
HSR435-060R0.5-075-S06	6	0.5	16	75	6		
HSR435-060R1.0-075-S06	6	1	16	75	6		
HSR435-060R0.5-100-S06	6	0.5	16	100	6		
HSR435-060R1.0-100-S06	6	1	16	100	6		
HSR435-080R0.5-060-S08	8	0.5	20	60	8		
HSR435-080R1.0-060-S08	8	1	20	60	8		
HSR435-080R0.5-075-S08	8	0.5	20	75	8		
HSR435-080R1.0-075-S08	8	1	20	75	8		
HSR435-080R0.5-100-S08	8	0.5	20	100	8		
HSR435-080R1.0-100-S08	8	1	20	100	8		
HSR435-100R0.5-075-S10	10	0.5	25	75	10		
HSR435-100R1.0-075-S10	10	1	25	75	10		
HSR435-100R0.5-100-S10	10	0.5	25	100	10		
HSR435-100R1.0-100-S10	10	1	25	100	10		
HSR435-120R0.5-075-S12	12	0.5	30	75	12		
HSR435-120R1.0-075-S12	12	1	30	75	12		
HSR435-120R0.5-100-S12	12	0.5	30	100	12		
HSR435-120R1.0-100-S12	12	1	30	100	12		

Unit (mm)

HSE435 | HS-MAX Flat End Mill 4-Flute 35°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	50HRC	55HRC	60HRC	62HRC	63HRC			
○	○	○	○	○	-	-	-	-	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l ₂	L	d
HSE435-010030-050-S04	1.0	3	50	4
HSE435-015040-050-S04	1.5	4	50	4
HSE435-020060-050-S04	2	6	50	4
HSE435-025070-050-S04	2.5	7	50	4
HSE435-030090-050-S04	3	9	50	4
HSE435-030090-050-S03	3	9	50	3
HSE435-040110-050-S04	4	11	50	4
HSE435-050130-050-S06	5	13	50	6
HSE435-060160-050-S06	6	16	50	6
HSE435-080200-060-S08	8	20	60	8
HSE435-100250-075-S10	10	25	75	10
HSE435-120300-075-S12	12	30	75	12
HSE435-140350-100-S14	14	35	100	14
HSE435-160400-100-S16	16	40	100	16
HSE435-180450-100-S18	18	45	100	18
HSE435-200500-100-S20	20	50	100	20

Unit (mm)

HP-MAX End Mill Series

Ball
Radius
Flat

HM-MAX End Mill Series

Ball
Radius
Flat

HY-MAX End Mill Series

Ball
Radius
Flat

HS-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

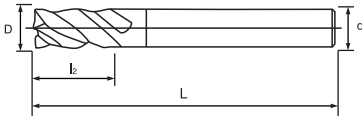
ALU-MAX

Flat

DIA-MAX End Mill Series

Ball
Radius
Flat

HSEL435 | HS-MAX Long Flute Flat End Mill 4-Flute 35°



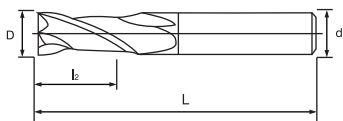
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels			Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	-	-	-	-	○	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Dia
	D	l _c	L	d
HSEL435-030090-075-S04	3	9	75	4
HSEL435-040120-075-S04	4	12	75	4
HSEL435-030120-100-S04	3	12	100	4
HSEL435-040160-100-S04	4	16	100	4
HSEL435-050150-075-S06	5	15	75	6
HSEL435-060180-075-S06	6	18	75	6
HSEL435-050200-100-S06	5	20	100	6
HSEL435-060240-100-S06	6	24	100	6
HSEL435-080240-075-S08	8	24	75	8
HSEL435-080320-100-S08	8	32	100	8
HSEL435-100400-100-S10	10	40	100	10
HSEL435-120480-100-S12	12	48	100	12

Unit (mm)

HSE235 | HS-MAX Flat End Mill 2-Flute 35°



CARBIDE
SUPER

HS
MAX

2

35°
Helix

D
0/-0.015
D<5

D
0/-0.02
D>6

* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	-	-	-	-	○	-

Model No.	Dia of Mill D	Length of Cut l	Overall Length L	Shank Dia d
HSE235-010030-050-S04	1.0	3	50	4
HSE235-015040-050-S04	1.5	4	50	4
HSE235-020060-050-S04	2	6	50	4
HSE235-025070-050-S04	2.5	7	50	4
HSE235-030090-050-S04	3	9	50	4
HSE235-030090-050-S03	3	9	50	3
HSE235-040110-050-S04	4	11	50	4
HSE235-050130-050-S06	5	13	50	6
HSE235-060160-050-S06	6	16	50	6
HSE235-080200-060-S08	8	20	60	8
HSE235-100250-075-S10	10	25	75	10
HSE235-120300-075-S12	12	30	75	12
HSE235-140350-100-S14	14	35	100	14
HSE235-160400-100-S16	16	40	100	16
HSE235-180450-100-S18	18	45	100	18
HSE435-200500-100-S20	20	50	100	20

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HM-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

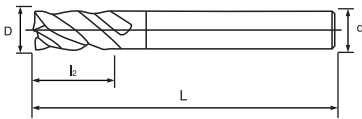
DIA-MAX End Mill Series

Ball

Radius

Flat

HSEL235 | HS-MAX Long Flute Flat End Mill 2-Flute 35°



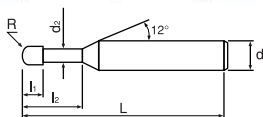
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels		Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	55HRC	60HRC	62HRC	65HRC			
○	○	○	○	○	-	-	-	-	○	-

Model No.	Dia of Mill		Length of Cut		Overall Length		Shank Dia	
	D	d	l	L	L	d	d	d
HSEL235-030090-075-S04	3		9	75	75	4		
HSEL235-040120-075-S04	4		12	75	75	4		
HSEL235-030120-100-S04	3		12	100	100	4		
HSEL235-040160-100-S04	4		16	100	100	4		
HSEL235-050150-075-S06	5		15	75	75	6		
HSEL235-060180-075-S06	6		18	75	75	6		
HSEL235-050200-100-S06	5		20	100	100	6		
HSEL235-060240-100-S06	6		24	100	100	6		
HSEL235-080240-075-S08	8		24	75	75	8		
HSEL235-080320-100-S08	8		32	100	100	8		
HSEL235-100400-100-S10	10		40	100	100	10		
HSEL235-120480-100-S12	12		48	100	100	12		

Unit (mm)

HRB230 | HR-MAX Rib Ball End Mill 2-Flute 30°



* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	50HRC	55HRC	60HRC	62HRC	65HRC			
○	○	○	○	○	○	-	-	-	-	-

Model No.	Radius of Ball Nose	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	R	l ₂	l ₁	d ₂	L	d
HRB230-020010-050-S04	R0.1	0.2	1	0.18	50	4
HRB230-020015-050-S04	R0.1	0.2	1.5	0.18	50	4
HRB230-020020-050-S04	R0.1	0.2	2	0.18	50	4
HRB230-030010-050-S04	R0.15	0.3	1	0.27	50	4
HRB230-030020-050-S04	R0.15	0.3	2	0.27	50	4
HRB230-030030-050-S04	R0.15	0.3	3	0.27	50	4
HRB230-040010-050-S04	R0.2	0.4	1	0.37	50	4
HRB230-040020-050-S04	R0.2	0.4	2	0.37	50	4
HRB230-040040-050-S04	R0.2	0.4	4	0.37	50	4
HRB230-040060-050-S04	R0.2	0.4	6	0.37	50	4
HRB230-050020-050-S04	R0.25	0.5	2	0.46	50	4
HRB230-050040-050-S04	R0.25	0.5	4	0.46	50	4
HRB230-050060-050-S04	R0.25	0.5	6	0.46	50	4
HRB230-050080-050-S04	R0.25	0.5	8	0.46	50	4
HRB230-060020-050-S04	R0.3	0.6	2	0.55	50	4
HRB230-060030-050-S04	R0.3	0.6	3	0.55	50	4
HRB230-060040-050-S04	R0.3	0.6	4	0.55	50	4
HRB230-060060-050-S04	R0.3	0.6	6	0.55	50	4
HRB230-060080-050-S04	R0.3	0.6	8	0.55	50	4
HRB230-080020-050-S04	R0.4	0.8	2	0.75	50	4
HRB230-080040-050-S04	R0.4	0.8	4	0.75	50	4
HRB230-080060-050-S04	R0.4	0.8	6	0.75	50	4
HRB230-080080-050-S04	R0.4	0.8	8	0.75	50	4
HRB230-080100-050-S04	R0.4	0.8	10	0.75	50	4
HRB230-100040-050-S04	R0.5	1.0	4	0.95	50	4
HRB230-100060-050-S04	R0.5	1.0	6	0.95	50	4
HRB230-100080-050-S04	R0.5	1.0	8	0.95	50	4
HRB230-100100-050-S04	R0.5	1.0	10	0.95	50	4
HRB230-100120-050-S04	R0.5	1.0	12	0.95	50	4
HRB230-100160-050-S04	R0.5	1.0	16	0.95	50	4

Unit (mm)

HP-MAX End Mill Series

HP-MAX End Mill Series

HY-MAX End Mill Series

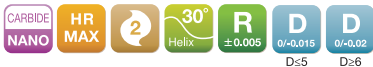
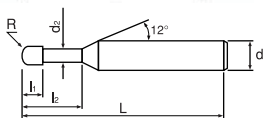
HS-MAX End Mill Series

HR-MAX End Mill Series

ALU-MAX

DIA-MAX End Mill Series

HRB230 | HR-MAX Rib Ball End Mill 2-Flute 30°



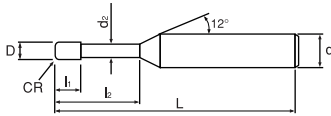
* Applicable Work Material (○Most Suitable, ○Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	○	-	-	-	○	-

Model No.	Radius of Ball Nose	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	R	l ₂	l ₁	d ₂	L	d
HRB230-120060-050-S04	R0.6	1.2	6	1.15	50	4
HRB230-120080-050-S04	R0.6	1.2	8	1.15	50	4
HRB230-120100-050-S04	R0.6	1.2	10	1.15	50	4
HRB230-120120-050-S04	R0.6	1.2	12	1.15	50	4
HRB230-150060-050-S04	R0.75	1.5	6	1.45	50	4
HRB230-150080-050-S04	R0.75	1.5	8	1.45	50	4
HRB230-150100-050-S04	R0.75	1.5	10	1.45	50	4
HRB230-150120-050-S04	R0.75	1.5	12	1.45	50	4
HRB230-150160-050-S04	R0.75	1.5	16	1.45	50	4
HRB230-150200-050-S04	R0.75	1.5	20	1.45	50	4
HRB230-200080-050-S04	R1.0	2.0	8	1.95	50	4
HRB230-200100-050-S04	R1.0	2.0	10	1.95	50	4
HRB230-200120-050-S04	R1.0	2.0	12	1.95	50	4
HRB230-200160-050-S04	R1.0	2.0	16	1.95	50	4
HRB230-200180-050-S04	R1.0	2.0	18	1.95	50	4
HRB230-200200-050-S04	R1.0	2.0	20	1.95	50	4
HRB230-200220-050-S04	R1.0	2.0	22	1.95	50	4
HRB230-300120-050-S06	R1.5	3.0	12	2.85	50	6
HRB230-300160-050-S06	R1.5	3.0	16	2.85	50	6
HRB230-300200-050-S06	R1.5	3.0	20	2.85	50	6
HRB230-300260-070-S06	R1.5	3.0	26	2.85	70	6
HRB230-300300-070-S06	R1.5	3.0	30	2.85	70	6
HRB230-400160-050-S06	R2.0	4.0	16	3.85	50	6
HRB230-400200-050-S06	R2.0	4.0	20	3.85	50	6
HRB230-400260-070-S06	R2.0	4.0	26	3.85	70	6
HRB230-400300-070-S06	R2.0	4.0	30	3.85	70	6

Unit (mm)

HRR230 | HR-MAX Rib Radius End Mill 2-Flute 30°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	○	-	-	-	-	-

Model No.	Dia of Mill	Coner Radius	Effective Length	Length of Cut	Overall Length	Shank Dia
	D	CR	l ₁	l ₂	L	d
HRR230-005R0.05020-050-S04	0.5	R0.05	2	0.7	50	4
HRR230-005R0.05040-050-S04	0.5	R0.05	4	0.7	50	4
HRR230-005R0.05060-050-S04	0.5	R0.05	6	0.7	50	4
HRR230-006R0.05020-050-S04	0.6	R0.05	2	0.9	50	4
HRR230-006R0.05040-050-S04	0.6	R0.05	4	0.9	50	4
HRR230-006R0.05060-050-S04	0.6	R0.05	6	0.9	50	4
HRR230-008R0.05040-050-S04	0.8	R0.05	4	1.2	50	4
HRR230-008R0.05060-050-S04	0.8	R0.05	6	1.2	50	4
HRR230-010R0.1040-050-S04	1.0	R0.1	4	1.5	50	4
HRR230-010R0.1060-050-S04	1.0	R0.1	6	1.5	50	4
HRR230-010R0.1080-050-S04	1.0	R0.1	8	1.5	50	4
HRR230-010R0.2040-050-S04	1.0	R0.2	4	1.5	50	4
HRR230-010R0.2060-050-S04	1.0	R0.2	6	1.5	50	4
HRR230-010R0.2080-050-S04	1.0	R0.2	8	1.5	50	4
HRR230-015R0.1060-050-S04	1.5	R0.1	6	2.3	50	4
HRR230-015R0.1080-050-S04	1.5	R0.1	8	2.3	50	4
HRR230-015R0.1100-050-S04	1.5	R0.1	10	2.3	50	4
HRR230-015R0.2060-050-S04	1.5	R0.2	6	2.3	50	4
HRR230-015R0.2080-050-S04	1.5	R0.2	8	2.3	50	4
HRR230-015R0.2100-050-S04	1.5	R0.2	10	2.3	50	4
HRR230-020R0.1080-050-S04	2.0	R0.1	8	3.0	50	4
HRR230-020R0.1100-050-S04	2.0	R0.1	10	3.0	50	4
HRR230-020R0.1120-050-S04	2.0	R0.1	12	3.0	50	4
HRR230-020R0.1160-050-S04	2.0	R0.1	16	3.0	50	4
HRR230-020R0.2080-050-S04	2.0	R0.2	8	3.0	50	4
HRR230-020R0.2100-050-S04	2.0	R0.2	10	3.0	50	4
HRR230-020R0.2120-050-S04	2.0	R0.2	12	3.0	50	4
HRR230-020R0.2160-050-S04	2.0	R0.2	16	3.0	50	4

Unit (mm)

HP-MAX End Mill Series

HP-MAX End Mill Series

HY-MAX End Mill Series

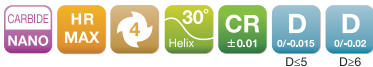
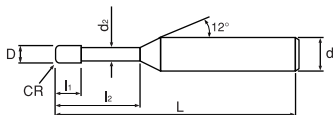
HS-MAX End Mill Series

HR-MAX End Mill Series

ALU-MAX

DIA-MAX End Mill Series

HRR430 | HR-MAX Rib Radius End Mill 4-Flute 30°



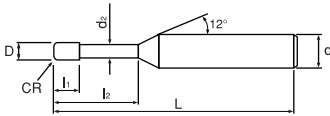
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	±50HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	○	-	-	-	○	-	-

Model No.	Dia of Mill	Corner Radius	Effective Length	Length of Cut	Overall Length	Shank Dia
	D	CR	l ₂	l ₁	L	d
HRR430-010R0.1040-050-S04	1.0	R0.1	4	1.5	50	4
HRR430-010R0.1060-050-S04	1.0	R0.1	6	1.5	50	4
HRR430-010R0.1080-050-S04	1.0	R0.1	8	1.5	50	4
HRR430-010R0.2040-050-S04	1.0	R0.2	4	1.5	50	4
HRR430-010R0.2060-050-S04	1.0	R0.2	6	1.5	50	4
HRR430-010R0.2080-050-S04	1.0	R0.2	8	1.5	50	4
HRR430-015R0.1060-050-S04	1.5	R0.1	6	2.3	50	4
HRR430-015R0.1080-050-S04	1.5	R0.1	8	2.3	50	4
HRR430-015R0.1100-050-S04	1.5	R0.1	10	2.3	50	4
HRR430-015R0.2060-050-S04	1.5	R0.2	6	2.3	50	4
HRR430-015R0.2080-050-S04	1.5	R0.2	8	2.3	50	4
HRR430-015R0.2100-050-S04	1.5	R0.2	10	2.3	50	4
HRR430-020R0.1080-050-S04	2.0	R0.1	8	3.0	50	4
HRR430-020R0.1100-050-S04	2.0	R0.1	10	3.0	50	4
HRR430-020R0.1120-050-S04	2.0	R0.1	12	3.0	50	4
HRR430-020R0.1160-050-S04	2.0	R0.1	16	3.0	50	4
HRR430-020R0.2080-050-S04	2.0	R0.2	8	3.0	50	4
HRR430-020R0.2100-050-S04	2.0	R0.2	10	3.0	50	4
HRR430-020R0.2120-050-S04	2.0	R0.2	12	3.0	50	4
HRR430-020R0.2160-050-S04	2.0	R0.2	16	3.0	50	4

Unit (mm)

HRR430 | HR-MAX Rib Radius End Mill 4-Flute 30°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	○	-	-	-	○	-

Model No.	Dia of Mill	Coner Radius	Effective Length	Length of Cut	Overall Length	Shank Dia
	D	CR	l ₂	l ₁	L	d
HRR430-030R0.2120-050-S06	3.0	R0.2	12	4.5	50	6
HRR430-030R0.2160-050-S06	3.0	R0.2	16	4.5	50	6
HRR430-030R0.2200-050-S06	3.0	R0.2	20	4.5	50	6
HRR430-030R0.2260-050-S06	3.0	R0.2	26	4.5	70	6
HRR430-030R0.2300-050-S06	3.0	R0.2	30	4.5	70	6
HRR430-030R0.3120-050-S06	3.0	R0.3	12	4.5	50	6
HRR430-030R0.3160-050-S06	3.0	R0.3	16	4.5	50	6
HRR430-030R0.3200-050-S06	3.0	R0.3	20	4.5	50	6
HRR430-030R0.3260-050-S06	3.0	R0.3	26	4.5	70	6
HRR430-030R0.3300-050-S06	3.0	R0.3	30	4.5	70	6
HRR430-030R0.5120-050-S06	3.0	R0.5	12	4.5	50	6
HRR430-030R0.5160-050-S06	3.0	R0.5	16	4.5	50	6
HRR430-030R0.5200-050-S06	3.0	R0.5	20	4.5	50	6
HRR430-030R0.5260-050-S06	3.0	R0.5	26	4.5	70	6
HRR430-030R0.5300-050-S06	3.0	R0.5	30	4.5	70	6
HRR430-040R0.2160-050-S06	4.0	R0.2	16	6	50	6
HRR430-040R0.2200-050-S06	4.0	R0.2	20	6	50	6
HRR430-040R0.2260-050-S06	4.0	R0.2	26	6	70	6
HRR430-040R0.2300-050-S06	4.0	R0.2	30	6	70	6
HRR430-040R0.3160-050-S06	4.0	R0.3	16	6	50	6
HRR430-040R0.3200-050-S06	4.0	R0.3	20	6	50	6
HRR430-040R0.3260-050-S06	4.0	R0.3	26	6	70	6
HRR430-040R0.3300-050-S06	4.0	R0.3	30	6	70	6
HRR430-040R0.5160-050-S06	4.0	R0.5	16	6	50	6
HRR430-040R0.5200-050-S06	4.0	R0.5	20	6	50	6
HRR430-040R0.5260-050-S06	4.0	R0.5	26	6	70	6
HRR430-040R0.5300-050-S06	4.0	R0.5	30	6	70	6

Unit (mm)

HP-MAX End Mill Series

HP-MAX End Mill Series

HY-MAX End Mill Series

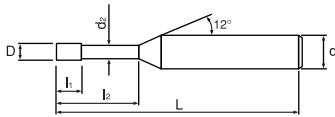
HS-MAX End Mill Series

HR-MAX End Mill Series

ALU-MAX

DIA-MAX End Mill Series

HRE230 | HR-MAX Rib Flat End Mill 2-Flute 30°



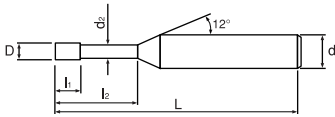
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
○	○	○	○	○	○	-	-	-	○	-	-

Model No.	Dia of Mill	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	D	l ₂	l ₁	d ₂	L	d
HRE230-010003-050-S04	0.1	-	0.3	-	50	4
HRE230-010003-050-S04	0.1	-	0.5	-	50	4
HRE230-020010-050-S04	0.2	1	0.3	0.18	50	4
HRE230-020015-050-S04	0.2	1.5	0.3	0.18	50	4
HRE230-020020-050-S04	0.2	2	0.3	0.18	50	4
HRE230-030010-050-S04	0.3	1	0.5	0.27	50	4
HRE230-030020-050-S04	0.3	2	0.5	0.27	50	4
HRE230-030030-050-S04	0.3	3	0.5	0.27	50	4
HRE230-040020-050-S04	0.4	2	0.6	0.37	50	4
HRE230-040040-050-S04	0.4	4	0.6	0.37	50	4
HRE230-040060-050-S04	0.4	6	0.6	0.37	50	4
HRE230-050020-050-S04	0.5	2	0.7	0.45	50	4
HRE230-050030-050-S04	0.5	3	0.7	0.45	50	4
HRE230-050040-050-S04	0.5	4	0.7	0.45	50	4
HRE230-050060-050-S04	0.5	6	0.7	0.45	50	4
HRE230-050080-050-S04	0.5	8	0.7	0.45	50	4
HRE230-060020-050-S04	0.6	2	0.9	0.55	50	4
HRE230-060030-050-S04	0.6	3	0.9	0.55	50	4
HRE230-060040-050-S04	0.6	4	0.9	0.55	50	4
HRE230-060060-050-S04	0.6	6	0.9	0.55	50	4
HRE230-060080-050-S04	0.6	8	0.9	0.55	50	4
HRE230-070040-050-S04	0.7	4	1.0	0.65	50	4
HRE230-070060-050-S04	0.7	6	1.0	0.65	50	4
HRE230-070080-050-S04	0.7	8	1.0	0.65	50	4
HRE230-070100-050-S04	0.7	10	1.0	0.65	50	4
HRE230-080040-050-S04	0.8	4	1.2	0.75	50	4
HRE230-080060-050-S04	0.8	6	1.2	0.75	50	4
HRE230-080080-050-S04	0.8	8	1.2	0.75	50	4
HRE230-080100-050-S04	0.8	10	1.2	0.75	50	4

Unit (mm)

HRE230 | HR-MAX Rib Flat End Mill 2-Flute 30°



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL									
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC		
○	○	○	○	○	○	-	○	-	-

Model No.	Dia of Mill	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	D	l ₁	l ₂	d ₂	L	d
HRE230-100050-050-S04	1.0	5	1.5	0.95	50	4
HRE230-100060-050-S04	1.0	6	1.5	0.95	50	4
HRE230-100080-050-S04	1.0	8	1.5	0.95	50	4
HRE230-100100-050-S04	1.0	10	1.5	0.95	50	4
HRE230-100120-050-S04	1.0	12	1.5	0.95	50	4
HRE230-100160-050-S04	1.0	16	1.5	0.95	50	4
HRE230-150060-050-S04	1.5	6	2.3	1.45	50	4
HRE230-150080-050-S04	1.5	8	2.3	1.45	50	4
HRE230-150100-050-S04	1.5	10	2.3	1.45	50	4
HRE230-150120-050-S04	1.5	12	2.3	1.45	50	4
HRE230-150160-050-S04	1.5	16	2.3	1.45	50	4
HRE230-150180-050-S04	1.5	18	2.3	1.45	50	4
HRE230-150200-050-S04	1.5	20	2.3	1.45	50	4
HRE230-200080-050-S04	2.0	8	3.0	1.95	50	4
HRE230-200100-050-S04	2.0	10	3.0	1.95	50	4
HRE230-200120-050-S04	2.0	12	3.0	1.95	50	4
HRE230-200160-050-S04	2.0	16	3.0	1.95	50	4
HRE230-200180-050-S04	2.0	18	3.0	1.95	50	4
HRE230-200200-050-S04	2.0	20	3.0	1.95	50	4
HRE230-200220-050-S04	2.0	22	3.0	1.95	50	4

Unit (mm)

HP-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

HY-MAX End Mill Series

Ball
Radius
Flat

HS-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

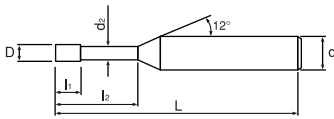
ALU-MAX

Flat

DIA-MAX End Mill Series

Ball
Radius
Flat

HRE430 | HR-MAX Rib Flat End Mill 4-Flute 30°



* Applicable Work Material (○ Most Suitable, ○ Applicable)

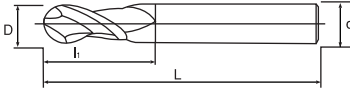
WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S16L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
○	○	○	○	○	○	-	-	-	-	-

Model No.	Dia of Mill	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia	
	D	l ₂	l ₁	d ₂	L	d	
HRE430-100050-050-S04	1.0	5	1.5	0.95	50	4	
HRE430-100060-050-S04	1.0	6	1.5	0.95	50	4	
HRE430-100080-050-S04	1.0	8	1.5	0.95	50	4	
HRE430-100100-050-S04	1.0	10	1.5	0.95	50	4	
HRE430-100120-050-S04	1.0	12	1.5	0.95	50	4	
HRE430-100160-050-S04	1.0	16	1.5	0.95	50	4	
HRE430-150060-050-S04	1.5	6	2.3	1.45	50	4	
HRE430-150080-050-S04	1.5	8	2.3	1.45	50	4	
HRE430-150100-050-S04	1.5	10	2.3	1.45	50	4	
HRE430-150120-050-S04	1.5	12	2.3	1.45	50	4	
HRE430-150160-050-S04	1.5	16	2.3	1.45	50	4	
HRE430-150180-050-S04	1.5	18	2.3	1.45	50	4	
HRE430-150200-050-S04	1.5	20	2.3	1.45	50	4	
HRE430-200080-050-S04	2.0	8	3.0	1.95	50	4	
HRE430-200100-050-S04	2.0	10	3.0	1.95	50	4	
HRE430-200120-050-S04	2.0	12	3.0	1.95	50	4	
HRE430-200160-050-S04	2.0	16	3.0	1.95	50	4	
HRE430-200180-050-S04	2.0	18	3.0	1.95	50	4	
HRE430-200200-050-S04	2.0	20	3.0	1.95	50	4	
HRE430-200220-050-S04	2.0	22	3.0	1.95	50	4	
HRE430-300120-050-S04	3.0	12	4.5	2.85	50	6	
HRE430-300160-050-S04	3.0	16	4.5	2.85	50	6	
HRE430-300200-050-S04	3.0	20	4.5	2.85	50	6	
HRE430-300260-050-S04	3.0	26	4.5	2.85	70	6	
HRE430-300300-050-S04	3.0	30	4.5	2.85	70	6	
HRE430-400160-050-S04	4.0	16	6	3.85	50	6	
HRE430-400200-050-S04	4.0	20	6	3.85	50	6	
HRE430-400260-050-S04	4.0	26	6	3.85	70	6	
HRE430-400300-050-S04	4.0	30	6	3.85	70	6	

Unit (mm)

ALB230

ALU-MAX Ball End Mill 2-Flute 30°



CARBIDE NANO
2
30° Helix
D 0/+0.015 D≤5
D 0/+0.02 D≤6
R ±0.005 D≤6
R ±0.01 D>6

* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels		Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
-	-	-	-	-	-	-	-	○	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Diameter
	R	l	L	d
ALB230-0100-S04	R1.0	4	50	4
ALB230-0150-S04	R1.5	6	50	4
ALB230-0200-S04	R2.0	8	50	4
ALB230-0250-S06	R2.5	10	50	6
ALB230-0300-S06	R3.0	12	50	6
ALB230-0400-S08	R4.0	16	60	8
ALB230-0400-S08	R4.0	16	75	8
ALB230-0500-S10	R5.0	20	75	10
ALB230-0500-S10	R5.0	20	100	10
ALB230-0600-S12	R6.0	24	100	12

Unit (mm)

HP-MAX End Mill Series

- Ball
- Radius
- Flat

HM-MAX End Mill Series

- Ball
- Radius
- Flat

HY-MAX End Mill Series

- Ball
- Radius
- Flat

HS-MAX End Mill Series

- Ball
- Radius
- Flat

HR-MAX End Mill Series

- Ball
- Radius
- Flat

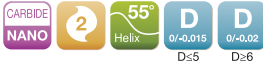
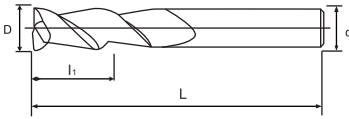
ALU-MAX

- Ball

DIA-MAX End Mill Series

- Ball
- Radius
- Flat

ALE255 | ALU-MAX Flat End Mill 2-Flute 55°



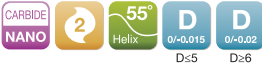
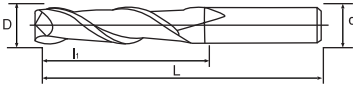
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
-	-	-	-	-	-	-	-	○	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Diameter
	D	Li	L	d
ALE255-0100-S04	1	3	50	4
ALE255-0150-S04	1.5	4	50	4
ALE255-0200-S04	2	6	50	4
ALE255-0250-S04	2.5	7	50	4
ALE255-0300-S04	3	9	50	4
ALE255-0400-S04	4	11	50	4
ALE255-0400-S06	4	11	50	6
ALE255-0500-S06	5	13	50	6
ALE255-0600-S06	6	16	50	6
ALE255-0800-S08	8	20	60	8
ALE255-1000-S10	10	25	75	10
ALE255-1200-S12	12	30	75	12
ALE255-1600-S16	16	40	100	16
ALE255-2000-S20	20	50	100	20

Unit (mm)

ALEL255 | ALU-MAX Long Flute Flat End Mill 2-Flute 55°



* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL

Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC	-	-
-	-	-	-	-	-	-	-	-	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Diameter
	D	I	L	d
ALEL255-0300L-075-S04	3	9	75	4
ALEL255-0400L-075-S04	4	12	75	4
ALEL255-0500L-075-S06	5	15	75	6
ALEL255-0600L-075-S06	6	18	75	6
ALEL255-0600L-100-S06	6	24	100	6
ALEL255-0800L-075-S08	8	24	75	8
ALEL255-0800L-100-S08	8	32	100	8
ALEL255-1000L-100-S10	10	30	100	10
ALEL255-1200L-100-S12	12	36	100	12
ALEL255-1600L-150-S16	16	65	150	16
ALEL255-2000L-150-S20	20	80	150	20

Unit (mm)

HP-MAX End Mill Series

Ball
Radius
Flat

HM-MAX End Mill Series

Ball
Radius
Flat

HY-MAX End Mill Series

Ball
Radius
Flat

HS-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

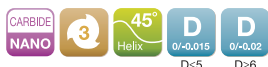
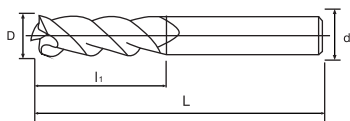
ALU-MAX

Flat

DIA-MAX End Mill Series

Ball
Radius
Flat

ALE345 | ALU-MAX Flat End Mill 3-Flute 45°



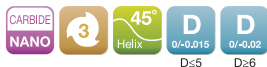
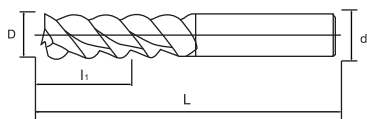
* Applicable Work Material (○ Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels			Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
-	-	-	-	-	-	-	-	-	○	○	-

Model No.	Dia of Mill		Length of Cut		Overall Length		Shank Diameter	
	D	d	Li	L	L	d	d	d
ALE345-0400-S04	4		10		50		4	
ALE345-0500-S05	5		13		50		5	
ALE345-0600-S06	6		15		50		6	
ALE345-0800-S08	8		20		60		8	
ALE345-1000-S10	10		25		75		10	
ALE345-1200-S12	12		30		75		12	
ALE345-1600-S16	16		40		100		16	
ALE345-2000-S20	20		50		100		20	

Unit (mm)

ALEL345 | ALU-MAX Long Flute Flat End Mill 3-Flute 45°



* Applicable Work Material (○Most Suitable, ○Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
-	-	-	-	-	-	-	-	○	○	-

Model No.	Dia of Mill	Length of Cut	Overall Length	Shank Diameter
	D	L ₁	L	d
ALEL345-0300L-075-S04	3	9	75	4
ALEL345-0400L-075-S04	4	12	75	4
ALEL345-0500L-075-S06	5	15	75	6
ALEL345-0600L-075-S06	6	18	75	6
ALEL345-0600L-100-S06	6	24	100	6
ALEL345-0800L-075-S08	8	24	75	8
ALEL345-0800L-100-S08	8	32	100	8
ALEL345-1000L-100-S10	10	30	100	10
ALEL345-1200L-100-S12	12	36	100	12
ALEL345-1600L-150-S16	16	65	150	16
ALEL345-2000L-150-S20	20	80	150	20

Unit (mm)

HP-MAX End Mill Series

Ball
Radius
Flat

HM-MAX End Mill Series

Ball
Radius
Flat

HY-MAX End Mill Series

Ball
Radius
Flat

HS-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

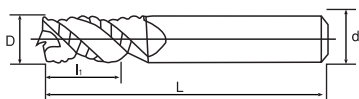
ALU-MAX

Flat

DIA-MAX End Mill Series

Ball
Radius
Flat

ALR327 | ALU-MAX Roughing Flat End Mill 3-Flute 27°



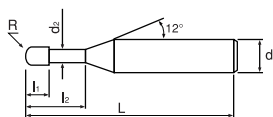
* Applicable Work Material (○Most Suitable, ○Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels			Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
-	-	-	-	-	-	-	-	○	○	-	-

Model No.	Dia of Mill		Length of Cut		Overall Length		Shank Diameter	
	D		L _i		L		d	
ALR327-0600-S06	6		15		50		6	
ALR327-0800-S08	8		20		60		8	
ALR327-1000-S10	10		25		75		10	
ALR327-1200-S12	12		30		75		12	
ALR327-1600-S16	16		40		100		16	
ALR327-2000-S20	20		50		100		20	

Unit (mm)

DMRB230 | DIA-MAX Rib Ball End Mill 2-Flute 30° / Diamond coated



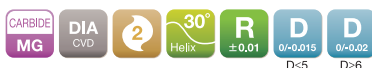
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL									
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	50HRC	55HRC	60HRC	62HRC	65HRC		
-	-	-	-	-	-	-	-	○	○

Model No.	Dia of Mill	Radius of Ball Nose	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	D	R	l ₂	l ₁	d ₂	L	d
DMRB230-010030-050-S04	1.0	R0.5	10	3	1.0	50	4
DMRB230-015030-050-S04	1.5	R0.75	10	3	1.5	50	4
DMRB230-020060-050-S04	2.0	R1	15	6	1.9	50	4
DMRB230-030060-050-S04	3.0	R1.5	15	6	2.8	50	4
DMRB230-040100-050-S04	4.0	R2	15	10	3.7	50	4
DMRB230-060150-075-S06	6.0	R3	30	15	5.6	75	6
DMRB230-080160-075-S08	8.0	R4	30	16	7.6	75	8
DMRB230-100260-100-S10	10.0	R5	40	26	9.4	100	10
DMRB230-120260-100-S12	12.0	R6	40	26	11.4	100	12

Unit (mm)

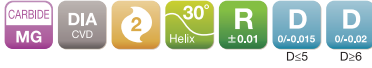
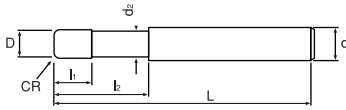
DMRBL230 | DIA-MAX Long shank Rib Ball End Mill 2-Flute 30° /Diamond coated



Model No.	Dia of Mill	Radius of Ball Nose	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	D	R	l ₂	l ₁	d ₂	L	d
DMRBL230-030060-075-S03	3.0	R1.5	25	6	2.8	75	3
DMRBL230-040100-075-S04	4.0	R2	25	10	3.7	75	4
DMRBL230-030060-100-S03	3.0	R1.5	30	6	2.8	100	3
DMRBL230-040100-100-S04	4.0	R2	30	10	3.7	100	4
DMRBL230-060200-100-S06	6.0	R3	40	20	5.6	100	6
DMRBL230-080260-100-S08	8.0	R4	40	26	7.5	100	8
DMRBL230-080260-150-S08	8.0	R4	40	26	7.5	150	8
DMRBL230-100260-150-S10	10.0	R5	40	26	9.4	150	10
DMRBL230-120260-150-S12	12.0	R6	40	26	11.6	150	12
DMRBL230-160400-180-S16	16.0	R8	60	40	15.6	180	16

Unit (mm)

DMRR230 | DIA-MAX Rib Ball End Mill 2-Flute 30° / Diamond coated



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	—
S45C/SSDC	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
-	-	-	-	-	-	-	-	○	○	○

Model No.	Dia of Mill		Radius of Ball Nose		Effective Length		Length of Cut		Overall Length		Shank Dia	
	D	R	R	R	L ₁	L ₂	L	L	L	d	d	d
DMRR230-005R005-015-050-S04	0.5	R0.05	7	1.5	50	4						
DMRR230-010R010-030-050-S04	1.0	R0.1	10	3	50	4						
DMRR230-015R010-030-050-S04	1.5	R0.1	15	3	50	4						
DMRR230-020R010-050-050-S04	2.0	R0.1	15	5	50	4						

Unit (mm)

Ball
Radius
Flat
HP-MAX End Mill Series

Ball
Radius
Flat
HP-MAX End Mill Series

Ball
Radius
Flat
HY-MAX End Mill Series

Ball
Radius
Flat
HS-MAX End Mill Series

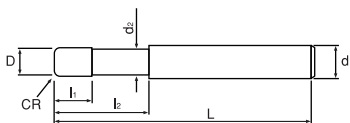
Ball
Radius
Flat
HR-MAX End Mill Series

Flat
ALU-MAX

Ball
Radius
Flat
DIA-MAX End Mill Series

DMRR 430

DIA-MAX Rib Ball End Mill 4-Flute 30°/Diamond coated



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels		Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-	
S45C/S50C	SCM	S304L/316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
-	-	-	-	-	-	-	-	○	○	○

Model No.	Dia of Mill		Radius of Ball Nose	Effective Length	Length of Cut	Overall Length	Shank Dia
	D	R	l ₂	l ₁	L	d	
DMRR430-030R010-010-050-S04	3.0	R0.1	15	10	50	4	
DMRR430-040R050-012-050-S04	4.0	R0.5	20	12	50	4	
DMRR430-060R050-020-075-S06	6.0	R0.5	30	20	75	6	
DMRR430-080R050-025-075-S08	8.0	R0.5	35	25	75	8	
DMRR430-100R050-030-100-S10	10.0	R0.5	45	30	100	10	
DMRR430-120R050-035-100-S12	12.0	R0.5	45	35	100	12	

Unit (mm)

HP-MAX End Mill Series

Ball
Radius
Flat

HM-MAX End Mill Series

Ball
Radius
Flat

HY-MAX End Mill Series

Ball
Radius
Flat

HS-MAX End Mill Series

Ball
Radius
Flat

HR-MAX End Mill Series

Ball
Radius
Flat

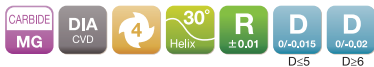
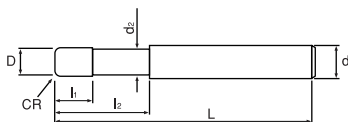
ALU-MAX

Flat

DIA-MAX End Mill Series

Ball
Radius
Flat

DMRRL430 | DIA-MAX Long shank Rib Ball End Mill 4-Flute 30° Diamond coated



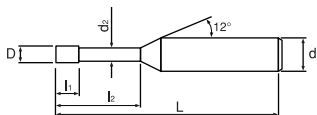
* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL										
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels			Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC			
-	-	-	-	-	-	-	-	○	○	○

Model No.	Dia of Mill	Radius of Ball Nose	Effective Length	Length of Cut	Overall Length	Shank Dia
	D	R	l ₁	l ₂	L	d
DMRRL430-030R010-012-075-S04	3.0	R0.1	25	12	75	4
DMRRL430-040R050-020-075-S04	4.0	R0.5	25	20	75	4
DMRRL430-030R010-012-100-S04	3.0	R0.1	30	12	100	4
DMRRL430-040R050-012-100-S04	4.0	R0.5	30	12	100	4
DMRRL430-060R050-025-100-S06	6.0	R0.5	40	25	100	6
DMRRL430-080R050-030-100-S08	8.0	R0.5	45	30	100	8
DMRRL430-080R050-040-150-S08	8.0	R0.5	60	40	150	8
DMRRL430-100R050-045-150-S10	10.0	R0.5	60	45	150	10
DMRRL430-120R050-050-150-S12	12.0	R0.5	70	50	150	12
DMRRL430-160R050-060-180-S16	16.0	R0.5	80	60	180	16

Unit (mm)

DMRE230 | DIA-MAX Rib Flat End Mill 2-Flute 30°/Diamond coated



CARBIDE
MG

DIA
CVD

2

30°
Helix

D
0/-0.015

D
0/-0.02

D<=5

D<=6

* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL

Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC		
-	-	-	-	-	-	-	-	-	-

Model No.	Dia of Mill	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	D	l ₂	l ₁	d ₂	L	d
DMRE230-005015-050-S04	0.5	7	1.5	0.5	50	4
DMRE230-010030-050-S04	1.0	10	3	1.0	50	4
DMRE230-015030-050-S04	1.5	15	3	1.5	50	4
DMRE230-020050-050-S04	2.0	15	5	2.0	50	4

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HM-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

DIA-MAX End Mill Series

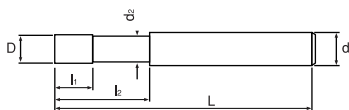
Ball

Radius

Flat

DMRE 430

DIA-MAX Rib Flat End Mill 4-Flute 30°/Diamond Coated



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL											
Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels Hardened Steels				Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC				
-	-	-	-	-	-	-	-	○	○	○	

Model No.	Dia of Mill	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	D	l ₂	l ₁	d _s	L	d
DMRE430-030010-050-S04	3.0	15	10	2.8	50	4
DMRE430-040012-050-S04	4.0	20	12	3.7	50	4
DMRE430-060020-075-S06	6.0	30	20	5.6	75	6
DMRE430-080025-075-S08	8.0	35	25	7.6	75	8
DMRE430-100030-100-S10	10.0	45	30	9.6	100	10
DMRE430-120035-100-S12	12.0	45	35	11.4	100	12

Unit (mm)

Ball
Radius
Flat
HP-MAX End Mill Series

Ball
Radius
Flat
HP-MAX End Mill Series

Ball
Radius
Flat
HY-MAX End Mill Series

Ball
Radius
Flat
HS-MAX End Mill Series

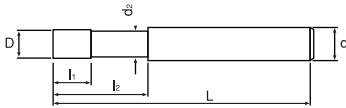
Ball
Radius
Flat
HR-MAX End Mill Series

Flat
ALU-MAX

Ball
Radius
Flat
DIA-MAX End Mill Series

DMREL430

DIA-MAX Long Shank Rib Flat End Mill 4-Flute 30°/ Diamond Coated



* Applicable Work Material (● Most Suitable, ○ Applicable)

WORK MATERIAL

Carbon Steels	Alloy Steels	Stainless Steels	Prehardened Steels	Hardened Steels	Graphite	Copper	Aluminium Alloys	Glass fiberreinforced plastic	-
S45C/S50C	SCM	S304L/S316L	-50HRC	-55HRC	-60HRC	-62HRC	-65HRC		
-	-	-	-	-	-	-	-	○	○

Model No.	Dia of Mill	Effective Length	Length of Cut	Neck Dia	Overall Length	Shank Dia
	D	l ₁	l ₂	d ₁	L	d
DMREL430-030012-075-S04	3.0	25	12	2.8	75	4
DMREL430-040020-075-S04	4.0	25	20	3.7	75	4
DMREL430-030012-100-S04	3.0	30	12	2.8	100	4
DMREL430-040012-100-S04	4.0	30	12	3.7	100	4
DMREL430-060025-100-S06	6.0	40	25	5.6	100	6
DMREL430-080030-100-S08	8.0	45	30	7.5	100	8
DMREL430-080040-150-S08	8.0	60	40	7.5	150	8
DMREL430-100045-150-S10	10.0	60	45	9.6	150	10
DMREL430-120050-150-S12	12.0	70	50	11.6	150	12
DMREL430-160060 180-S16	16.0	80	60	15.6	180	16

Unit (mm)

HP-MAX End Mill Series

Ball

Radius

Flat

HM-MAX End Mill Series

Ball

Radius

Flat

HY-MAX End Mill Series

Ball

Radius

Flat

HS-MAX End Mill Series

Ball

Radius

Flat

HR-MAX End Mill Series

Ball

Radius

Flat

ALU-MAX

Flat

DIA-MAX End Mill Series

Ball

Radius

Flat



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