



EST : 2019

CARBIFORCE

AFFORDABLE TOOLIN

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ABOUT US



Carbiforce Pvt. Ltd.

stands as a beacon of excellence in the manufacturing industry, producing top-tier carbide and CNC cutting equipment. Renowned for our unwavering commitment to quality, we deliver products that perfectly blend affordability with premium standards.

Every piece of equipment crafted by Carbiforce embodies precision, durability, and reliability, making us the go-to choice for professionals who demand the best. With a keen eye on innovation and customer satisfaction, we ensure that our cutting-edge solutions not only meet but exceed industry expectations. Our dedication to affordability ensures that premium quality is accessible to all, making us a trusted partner for businesses of all sizes.

By consistently pushing the boundaries of technology and craftsmanship, Carbiforce Pvt. Ltd. has established itself as a fabulous brand synonymous with excellence in the world of carbide and CNC cutting equipment.



QUALITY

We source our products from reputable suppliers to ensure you receive only the best quality items.



CUSTOMER SUPPORT

Our friendly and knowledgeable customer support team is available to assist you with any inquiries or concerns.



FAST & RELIABLE DELIVERY

We ensure your order reaches your doorstep promptly and in pristine condition.



INDUSTRIES
WE SERVE



Oil & Gas



Petro Chemical



Wind Turbine



Thermal Power



Automobile



Aviation



Pharmaceutical



Construction

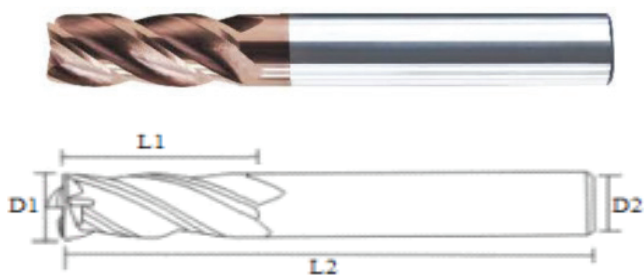


Research
& Development



Heavy
Engineering

CT 550 CARBIDE END MILL



MG

HRC 55

2

4

35°

Roughing

Side Milling

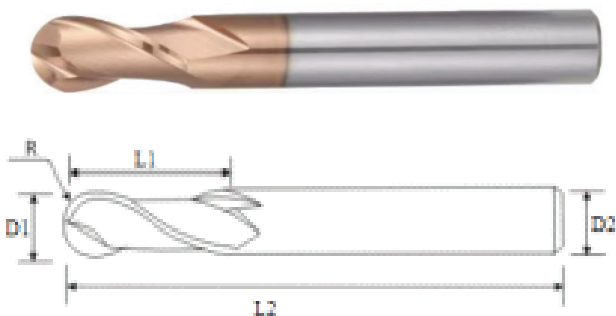
Slotting

Mill Dia. Tolerance (mm)	Shank Dia. Tolerance (mm)
D≤12 0~-0.02	h6
D>12 0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT102-4FS-D010	1	3	4	50	4F
CT102-4FS-D015	1.5	4.5	4	50	4F
CT102-4FS-D020	2	6	4	50	4F
CT102-4FS-D025	2.5	7	4	50	4F
CT102-4FS-D030	3	8	4	50	4F
CT102-4FS-D040	4	10	4	50	4F
CT102-4FE-D040	4	16	4	75	4F
CT102-4FL-D040	4	20	4	100	4F
CT102-4FS-D050	5	13	5	50	4F
CT102-4FS-D060	6	15	6	50	4F
CT102-4FE-D060	6	25	6	75	4F
CT102-4FL-D060	6	30	6	100	4F
CT102-4FXL-D060	6	40	6	150	4F
CT102-4FS-D080	8	20	8	60	4F
CT102-4FE-D080	8	25	8	75	4F
CT102-4FL-D080	8	35	8	100	4F
CT102-4FXL-D080	8	40	8	150	4F
CT102-4FS-D100	10	25	10	75	4F
CT102-4FE-D100	10	40	10	100	4F
CT102-4FL-D100	10	50	10	150	4F
CT102-4FS-D120	12	30	12	75	4F
CT102-4FE-D120	12	45	12	100	4F
CT102-4FL-D120	12	55	12	150	4F
CT102-4FS-D140	14	40	14	100	4F
CT102-4FE-D140	14	60	14	150	4F
CT102-4FS-D160	16	45	16	100	4F
CT102-4FE-D160	16	70	16	150	4F
CT102-4FS-D180	18	45	18	100	4F
CT102-4FE-D180	18	70	18	150	4F
CT102-4FS-D200	20	45	20	100	4F
CT102-4FE-D200	20	70	20	150	4F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎	◎			

CT 550 BALL NOSE CARBIDE END MILL



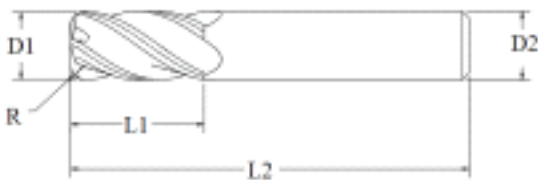
Mill Dia. Tolerance (mm)	Shank Dia. Tolerance (mm)
D≤12 0~-0.02	h6
D>12 0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	RADIUS OF BALL NOSE R/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT102-2BS-D010	1	R0.5	3	4	50
CT102-2BS-D015	1.5	R0.75	4.5	4	50
CT102-2BS-D020	2	R1	6	4	50
CT102-2BS-D025	2.5	R1.25	7	4	50
CT102-2BS-D030	3	R1.5	8	4	50
CT102-28S-D040	4	R2	10	4	50
CT102-2BE-D040	4	R2	16	4	75
CT102-2BL-D040	4	R2	20	4	100
CT102-2BS-D050	5	R2.5	13	5	50
CT102-2BS-D060	6	R3	15	6	50
CT102-28E-D060	6	R3	25	6	75
CT102-2BL-D060	6	R3	30	6	100
CT102-28XL-D060	6	R3	40	6	150
CT102-285-O080	8	R4	20	8	60
CT102-28E-O080	8	R4	25	8	75
CT102-2BL-D080	8	R4	35	8	100
CT102-2BXL-D080	8	R4	40	8	150
CT102-2BS-D100	10	R5	25	10	75
CT102-28E-O100	10	R5	40	10	100
CT102-2BL-D100	10	R5	50	10	150
CT102-28S-D120	12	R6	30	12	75
CT102-28E-D120	12	R6	45	12	100
CT102-2BL-O120	12	R6	55	12	150
CT102-2BS-D140	14	R7	40	14	100
CT102-28E-O140	14	R7	60	14	150
CT102-2BS-D160	16	R8	45	16	100
CT102-2BE-D160	16	R8	70	16	150
CT102-2BS-D180	18	R9	45	18	100
CT102-28E-D180	18	R9	70	18	150
CT102-2BS-D200	20	R10	45	20	100
CT102-28E-D200	20	R10	70	20	150

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎	◎			

◎ Very Suitable ○ Suitable

CT 550 CORNER RADIUS



MG

HRC 55

4

35°

Roughing

Side Milling

Slotting

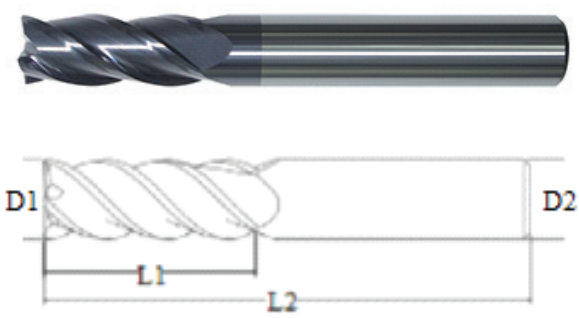
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	RADIUS OF BALL NOSE R/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT102-4CS-D010	1	RO.2	3	4	50
CT102-4CS-D015	1.5	RO.2/RO.5	4.5	4	50
CT102-4CS-D020	2	RO.2/RO.5	6	4	50
CT102-4CS-D025	2.5	RO.5	7	4	50
CT102-4CS-D030	3	RO.2	8	4	50
CT102-4CS-D040	4	RO.5	10	4	50
CT102-4CE-D040	4	RO.2	16	4	75
CT102-4CL-D040	4	RO.5	20	4	100
CT102-4CS-D050	5	R1	13	5	50
CT102-4CS-D060	6	RO.2	15	6	50
CT102-4CE-D060	6	RO.5	25	6	75
CT102-4CL-D060	6	R1	30	6	100
CT102-4CXL-D060	6	RO.5	40	6	150
CT102-4CS-D080	8	R1	20	8	60
CT102-4CE-D080	8	RO.5	25	8	75
CT102-4CL-D080	8	R1	35	8	100
CT102-4CXL-D080	8	RO.5	40	8	150
CT102-4CS-D100	10	RO.5/R1/R2	25	10	75
CT102-4CE-D100	10	RO.5/R1/R2	40	10	100
CT102-4CL-D100	10	RO.5/R1	50	10	150
CT102-4CS-D120	12	RO.5/R1/R2	30	12	75
CT102-4CE-D120	12	RO.5/R1/R2	45	12	100
CT102-4CL-D120	12	RO.5/R1/R2	55	12	150
CT102-4CS-D140	14	RO.5/R1/R2	40	14	100
CT102-4CE-D140	14	RO.5/R1	60	14	150
CT102-4CS-D160	16	RO.5/R1/R2/R3	45	16	100
CT102-4CE-D160	16	RO.5/R1/R2/R3	70	16	150
CT102-4CS-D180	18	RO.5/R1/R2	45	18	100
CT102-4CE-D180	18	RO.5/R1	70	18	150
CT102-4CS-D200	20	RO.5/R1/R2/R3	45	20	100
CT102-4CE-D200	20	RO.5/R1/R2/R3	70	20	150

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎	◎			

◎ Very Suitable ○ Suitable

CT 600 CARBIDE END MILL



MG

HRC
60

4

45°

Roughing

Side
Milling

Slotting

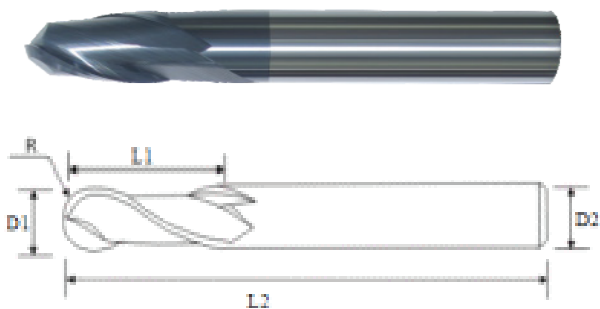
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT103-4FS-D010	1	3	4	50	4F
CT103-4FS-D015	1.5	4.5	4	50	4F
CT103-4FS-D020	2	6	4	50	4F
CT103-4FS-D025	2.5	7	4	50	4F
CT103-4FS-D030	3	8	4	50	4F
CT103-4FS-D040	4	10	4	50	4F
CT103-4FE-D040	4	16	4	75	4F
CT103-4FL-D040	4	20	4	100	4F
CT103-4FS-D050	5	13	5	50	4F
CT103-4FS-D060	6	15	6	50	4F
CT103-4FE-D060	6	25	6	75	4F
CT103-4FL-D060	6	30	6	100	4F
CT103-4FS-D080	8	20	8	60	4F
CT103-4FE-D080	8	25	8	75	4F
CT103-4FL-D080	8	35	8	100	4F
CT103-4FS-D100	10	25	10	75	4F
CT103-4FE-D100	10	40	10	100	4F
CT103-4FS-D120	12	30	12	75	4F
CT103-4FE-D120	12	45	12	100	4F
CT103-4FS-D140	14	40	14	100	4F
CT103-4FS-D160	16	45	16	100	4F
CT103-4FS-D180	18	45	18	100	4F
CT103-4FS-D200	20	45	20	100	4F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎	◎		◎	◎	◎			

◎ Very Suitable ○ Suitable

CT 600 BALL NOSE CARBIDE END MILL



MG

HRC 60

2

30°

Roughing

Side Milling

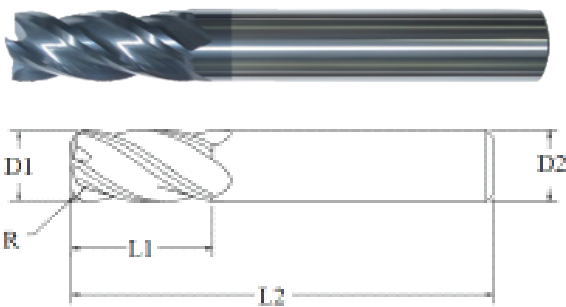
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	RADIUS OF BALL NOSE R/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT103-2BS-D010	1	R0.5	2	4	50
CT103-2BS-D015	1.5	R0.75	3	4	50
CT103-2BS-D020	2	R1	4	4	50
CT103-2BS-D025	2.5	R1.25	5	4	50
CT103-2BS-D030	3	R1.5	6	4	50
CT103-2BS-D040	4	R2	8	4	50
CT103-2BE-D040	4	R2	8	4	75
CT103-2BL-D040	4	R2	8	4	100
CT103-2BS-D050	5	R2.5	10	5	50
CT103-2BS-D060	6	R3	12	6	50
CT103-2BE-D060	6	R3	12	6	75
CT103-2BL-D060	6	R3	12	6	100
CT103-2BS-D080	8	R4	16	8	60
CT103-2BE-D080	8	R4	16	8	75
CT103-2BL-D080	8	R4	16	8	100
CT103-2BS-D100	10	R5	20	10	75
CT103-2BE-D100	10	R5	20	10	100
CT103-2BS-D120	12	R6	24	12	75
CT103-2BE-D120	12	R6	24	12	100
CT103-2BS-D140	14	R7	28	14	100
CT103-2BS-D160	16	R8	32	16	100
CT103-2BS-D180	18	R9	36	18	100
CT103-2BS-D200	20	R10	40	20	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎	◎		◎	◎	◎			

◎ Very Suitable ○ Suitable

CT 600 CORNER RADIUS



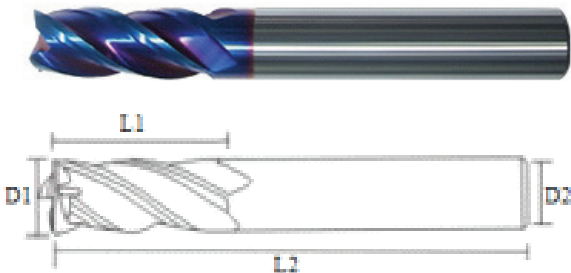
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CORNER RADIUS R/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT103-4CS-D010	1	RO.2	3	4	50
CT103-4CS-D015	1.5	RO.2	4.5	4	50
CT103-4CS-D020	2	RO.2	6	4	50
CT103-4CS-D025	2.5	RO.2	7	4	50
CT103-4CS-D030	3	RO.2	8	4	50
CT103-4CS-D040	4	RO.2/RO.3/RO.5	10	4	50
CT103-4CE-D040	4	RO.5	16	4	75
CT103-4CL-D040	4	RO.5	20	4	100
CT103-4CS-D050	5	RO.5/R1	13	5	50
CT103-4CS-D060	6	RO.2/RO.5	15	6	50
CT103-4CE-D060	6	RO.5	25	6	75
CT103-4CL-D060	6	R1	30	6	100
CT103-4CS-D080	8	RO.5/R1	20	8	60
CT103-4CL-D080	8	R1	25	8	75
CT103-4CS-D100	8	RO.5	35	8	100
CT103-4CE-D100	10	RO.5/R1	25	10	75
CT103-4CS-D120	10	RO.5/R1	40	10	100
CT103-4CE-D120	12	RO.5/R1	30	12	75
CT103-4CS-D140	12	RO.5/R1	45	12	100
CT103-4CS-D160	14	RO.5/R1	40	14	100
CT103-4CS-D180	16	RO.5/R1	45	16	100
CT103-4CS-D200	18	RO.5/R1	45	18	100
	20	RO.5/R1	45	20	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎	◎		◎	◎	◎			

◎ Very Suitable ○ Suitable

CT 650 CARBIDE END MILL



MG

HRC 65

2

4

35°

Roughing

Side Milling

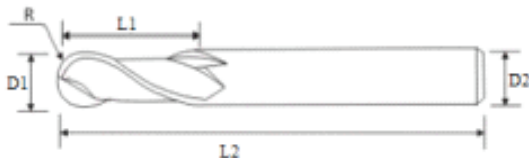
Slotting

Mill Dia. Tolerance (mm)	Shank Dia. Tolerance (mm)
D≤12 0~-0.02	h6
D>12 0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT104-4FS-D010	1	3	4	50	4F
CT104-4FS-D015	1.5	4.5	4	50	4F
CT104-4FS-D020	2	6	4	50	4F
CT104-4FS-D025	2.5	7	4	50	4F
CT104-4FS-D030	3	8	4	50	4F
CT104-4FS-D040	4	10	4	50	4F
CT104-4FE-D040	4	16	4	75	4F
CT104-4FL-D040	4	20	4	100	4F
CT104-4FS-D050	5	13	5	50	4F
CT104-4FS-D060	6	15	6	50	4F
CT104-4FE-D060	6	25	6	75	4F
CT104-4FL-D060	6	30	6	100	4F
CT104-4FXL-D060	6	40	6	150	4F
CT104-4FS-D080	8	20	8	60	4F
CT104-4FE-D080	8	25	8	75	4F
CT104-4FL-D080	8	35	8	100	4F
CT104-4FXL-D080	8	40	8	150	4F
CT104-4FS-D100	10	25	10	75	4F
CT104-4FE-D100	10	40	10	100	4F
CT104-4FL-D100	10	50	10	150	4F
CT104-4FS-D120	12	30	12	75	4F
CT104-4FE-D120	12	45	12	100	4F
CT104-4FL-D120	12	55	12	150	4F
CT104-4FS-D140	14	40	14	100	4F
CT104-4FE-D140	14	60	14	150	4F
CT104-4FS-D160	16	45	16	100	4F
CT104-4FE-D160	16	70	16	150	4F
CT104-4FS-D180	18	45	18	100	4F
CT104-4FE-D180	18	70	18	150	4F
CT104-4FS-D200	20	45	20	100	4F
CT104-4FE-D200	20	70	20	150	4F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎	◎		◎	◎	◎			

CT 650 BALL NOSE CARBIDE END MILL



MG

HRC 65

2

30°

Roughing

Side Milling

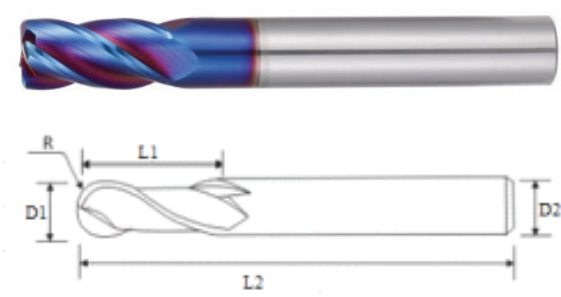
Mill Dia. Tolerance (mm)	Shank Dia. Tolerance (mm)
D≤12 0~-0.02	h6
D>12 0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	RADIUS OF BALL NOSE R/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT104 2BS D010	1	R0.5	2	4	50
CT104-2BS-D015	1.5	R0.75	3	4	50
CT104-2BS-D020	2	R1	4	4	50
CT104-2BS-D025	2.5	R1.25	5	4	50
CT104-2BS-D030	3	R1.5	6	4	50
CT104-2BS-D040	4	R2	8	4	50
CT104-2BE-D040	4	R2	8	4	75
CT104-2BL-D040	4	R2	8	4	100
CT104-2BS-D050	5	R2.5	10	5	50
CT104-2BS-D060	6	R3	12	6	50
CT104-2BE-D060	6	R3	12	6	75
CT104-2BL-D060	6	R3	12	6	100
CT104-2BXL-D060	6	R3	12	6	150
CT104-2BS-D080	8	R4	16	8	60
CT104-2BE-D080	8	R4	16	8	75
CT104-2BL-D080	8	R4	16	8	100
CT104-2BXL-D080	8	R4	16	8	150
CT104-2BS-D100	10	R5	20	10	75
CT104-2BE-D100	10	R5	20	10	100
CT104-2BL-D100	10	R5	20	10	150
CT104-2BS-D120	12	R6	24	12	75
CT104-2BE-D120	12	R6	24	12	100
CT104-2BL-D120	12	R6	24	12	150
CT104-2BS-D140	14	R7	28	14	100
CT104-2BE-D140	14	R7	28	14	150
CT104-2BS-D160	16	R8	32	16	100
CT104-2BE-D160	16	R8	32	16	150
CT104-2BS-D180	18	R9	36	18	100
CT104-2BE-D180	18	R9	36	18	150
CT104-2BS-D200	20	R10	40	20	100
CT104-2BE-D200	20	R10	40	20	150

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎	◎		◎	◎	◎			

◎ Very Suitable ○ Suitable

CT 650 CORNER RADIUS



MG

HRC
65

4

35°

Roughing

Side
Milling

Slotting

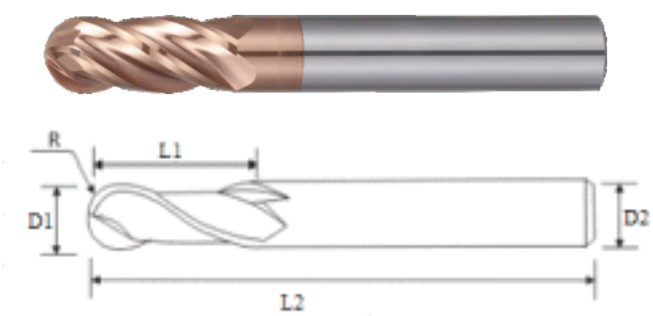
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CORNER RADIUS R/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT104-4CS-D010	1	RO.2	3	4	50
CT104-4CS-D015	1.5	RO.2	4.5	4	50
CT104-4CS-D020	2	RO.2	6	4	50
CT104-4CS-D025	2.5	RO.2	7	4	50
CT104-4CS-D030	3	RO.2	8	4	50
CT104-4CS-D040	4	RO.2/RO.5	10	4	50
CT104-4CE-D040	4	RO.2/RO.5	16	4	75
CT104-4CL-D040	4	RO.5/R1	20	4	100
CT104-4CS-D050	5	RO.5/R1	13	5	50
CT104-4CS-D060	6	RO.5/R1	15	6	50
CT104-4CE-D060	6	RO.5/R1	25	6	75
CT104-4CL-D060	6	RO.2/RO.5/R1	30	6	100
CT104-4CXL-D060	6	RO.5	40	6	150
CT104-4CS-D080	8	RO.2/RO.5/R1	20	8	60
CT104-4CE-D080	8	RO.5/R1	25	8	75
CT104-4CL-D080	8	RO.5/R1	35	8	100
CT104-4CXL-D080	8	RO.5	40	8	150
CT104-4CS-D100	10	RO.5	25	10	75
CT104-4CE-D100	10	RO.5/R1	40	10	100
CT104-4CL-D100	10	RO.5/R1	50	10	150
CT104-4CS-D120	12	RO.5/R1	30	12	75
CT104-4CE-D120	12	RO.5/R1	45	12	100
CT104-4CL-D120	12	RO.5/R1	55	12	150
CT104-4CS-D140	14	RO.5/R1	40	14	100
CT104-4CE-D140	14	RO.5/R1	60	14	150
CT104-4CS-D160	16	RO.5/R1	45	16	100
CT104-4CE-D160	16	RO.5/R1	70	16	150
CT104-4CS-D180	18	RO.5/R1	45	18	100
CT104-4CE-D180	18	RO.5/R1	70	18	150
CT104-4CS-D200	20	RO.5/R1	45	20	100
CT104-4CE-D200	20	RO.5/R1	70	20	150

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎	◎		◎	◎	◎			

◎ Very Suitable ○ Suitable

CT 550 BALL NOSE CARBIDE END MILL



MG

HRC 55

4

30°

Roughing

Side Milling

Mill Dia. Tolerance (mm)	Shank Dia. Tolerance (mm)
D≤12 0~-0.02	h6
D>12 0~-0.03	

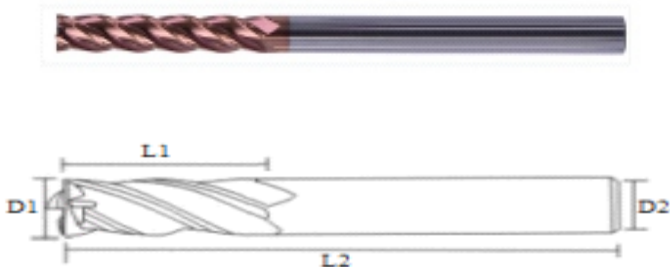
ITEM NO	MILL DIAMETER D1/(mm)	CORNER RADIUS R/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT105-4BS-D040	4	R2	10	4	50
CT105-4BS-D060	6	R3	15	6	50
CT105-4BS-D080	8	R4	20	8	60
CT105-4BS-D100	10	R5	25	10	75
CT105-4BS-D120	12	R6	30	12	75

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎	◎			

◎ Very Suitable ○ Suitable



EXTEND CARBIDE END MILLS



MG

HRC 55

3

4

35°

Roughing

Side Milling

Slotting

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

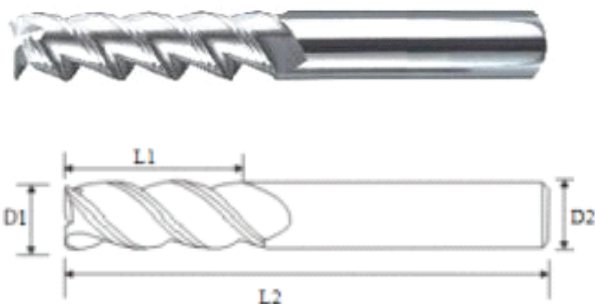
ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT106-4FS-D060	6	45	6	120	4F
CT106-4FS-D080	8	50	8	120	4F
CT106-4FS-D100	10	60	10	120	4F
CT106-4FS-D120	12	60	12	120	4F
CT106-4FS-D080	8	70	8	200	4F
CT106-4FS-D100	10	70	10	200	4F
CT106-4FS-D120	12	70	12	200	4F
CT106-4FS-D140	14	80	14	200	4F
CT106-4FS-D160	16	80	16	200	4F
CT106-4FS-D180	18	80	18	200	4F
CT106-4FS-D200	20	80	20	200	4F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎	◎			

◎ Very Suitable ○ Suitable



CT 450 CARBIDE END MILL FOR ALUMINUM



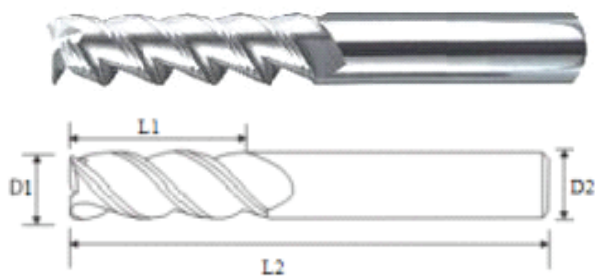
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT201-3FS-D010	1	3	4	50	3F
CT201-3FS-D015	1.5	4.5	4	50	3F
CT201-3FS-D020	2	6	4	50	3F
CT201-3FS-D025	2.5	7	4	50	3F
CT201-3FS-D030	3	9	4	50	3F
CT201-3FS-D040	4	12	4	50	3F
CT201-3FE-D040	4	16	4	75	3F
CT201-3FL-D040	4	20	4	100	3F
CT201-3FS-D050	5	15	5	50	3F
CT201-3FS-D060	6	18	6	50	3F
CT201-3FE-D060	6	25	6	75	3F
CT201-3FL-D060	6	30	6	100	3F
CT201-3FXL-D060	6	40	6	150	3F
CT201-3FS-D080	8	24	8	60	3F
CT201-3FE-D080	8	30	8	75	3F
CT201-3FL-D080	8	35	8	100	3F
CT201-3FXL-D080	8	40	8	150	3F
CT201-3FS-D100	10	30	10	75	3F
CT201-3FE-D100	10	40	10	100	3F
CT201-3FL-D100	10	50	10	150	3F
CT201-3FS-D120	12	35	12	75	3F
CT201-3FE-D120	12	45	12	100	3F
CT201-3FL-D120	12	55	12	150	3F
CT201-3FS-D140	14	40	14	100	3F
CT201-3FE-D140	14	60	14	150	3F
CT201-3FS-D160	16	45	16	100	3F
CT201-3FE-D160	16	70	16	150	3F
CT201-3FS-D180	18	45	18	100	3F
CT201-3FE-D180	18	70	18	150	3F
CT201-3FS-D200	20	45	20	100	3F
CT201-3FE-D200	20	70	20	150	3F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
								◎	◎		

◎ Very Suitable ○ Suitable

CT 550 CARBIDE END MILL FOR ALUMINUM



MG

HRC 55

3

45°

Roughing

Side Milling

Slotting

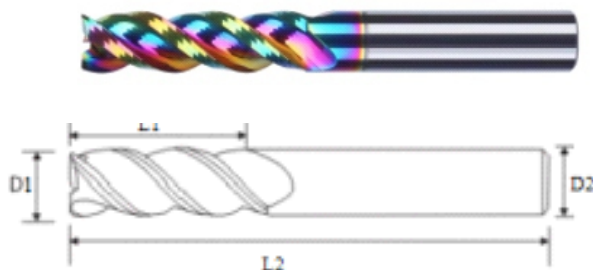
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT202-3FS-D010	1	3	4	50	3F
CT202-3FS-D015	1.5	4.5	4	50	3F
CT202-3FS-D020	2	6	4	50	3F
CT202-3FS-D025	2.5	7	4	50	3F
CT202-3FS-D030	3	9	4	50	3F
CT202-3FS-D040	4	12	4	50	3F
CT202-3FE-D040	4	16	4	75	3F
CT202-3FL-D040	4	20	4	100	3F
CT202-3FS-D050	5	15	5	50	3F
CT202-3FS-D060	6	18	6	50	3F
CT202-3FE-D060	6	25	6	75	3F
CT202-3FL-D060	6	30	6	100	3F
CT202-3FXL-D060	6	40	6	150	3F
CT202-3FS-D080	8	24	8	60	3F
CT202-3FE-D080	8	30	8	75	3F
CT202-3FL-D080	8	35	8	100	3F
CT202-3FXL-D080	8	40	8	150	3F
CT202-3FS-D100	10	30	10	75	3F
CT202-3FE-D100	10	40	10	100	3F
CT202-3FL-D100	10	50	10	150	3F
CT202-3FS-D120	12	35	12	75	3F
CT202-3FE-D120	12	45	12	100	3F
CT202-3FL-D120	12	55	12	150	3F
CT202-3FS-D140	14	40	14	100	3F
CT202-3FE-D140	14	60	14	150	3F
CT202-3FS-D160	16	45	16	100	3F
CT202-3FE-D160	16	70	16	150	3F
CT202-3FS-D180	18	45	18	100	3F
CT202-3FE-D180	18	70	18	150	3F
CT202-3FS-D200	20	45	20	100	3F
CT202-3FE-D200	20	70	20	150	3F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
								◎	◎		

◎ Very Suitable ○ Suitable

ENDMILLS FOR ALUMINUM WITH DLC COATING



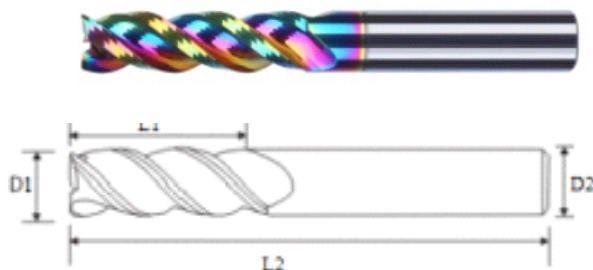
Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT203-3FS-D010	1	3	4	50	3F
CT203-3FS-D015	1.5	4.5	4	50	3F
CT203-3FS-D020	2	6	4	50	3F
CT203-3FS-D025	2.5	7	4	50	3F
CT203-3FS-D030	3	9	4	50	3F
CT203-3FS-D040	4	12	4	50	3F
CT203-3FE-D040	4	16	4	75	3F
CT203-3FL-D040	4	20	4	100	3F
CT203-3FS-D050	5	15	5	50	3F
CT203-3FS-D060	6	18	6	50	3F
CT203-3FE-D060	6	25	6	75	3F
CT203-3FL-D060	6	30	6	100	3F
CT203-3FXL-D060	6	40	6	150	3F
CT203-3FS-D080	8	24	8	60	3F
CT203-3FE-D080	8	30	8	75	3F
CT203-3FL-D080	8	35	8	100	3F
CT203-3FXL-D080	8	40	8	150	3F
CT203-3FS-D100	10	30	10	75	3F
CT203-3FE-D100	10	40	10	100	3F
CT203-3FL-D100	10	50	10	150	3F
CT203-3F9-D120	12	35	12	75	3F
CT203-3FE-D120	12	45	12	100	3F
CT203-3FL-D120	12	55	12	150	3F
CT203-3FS-D140	14	40	14	100	3F
CT203-3FE-D140	14	60	14	150	3F
CT203-3FS-D160	16	45	16	100	3F
CT203-3FE-D160	16	70	16	150	3F
CT203-3FS-D180	18	45	18	100	3F
CT203-3FE-D180	18	70	18	150	3F
CT203-3FS-D200	20	45	20	100	3F
CT203-3FE-D200	20	70	20	150	3F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
								◎	◎		

◎ Very Suitable ○ Suitable

U-GROOVE ENDMILLS
FOR ALUMINUM WITH DLC COATING



MG

HRC
55

3

45°

Roughing

Side
Milling

Slotting

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)	FLUTE
CT204-3FS-D010	1	3	4	50	3F
CT204-3FS-D015	1.5	4.5	4	50	3F
CT204-3FS-D020	2	6	4	50	3F
CT204-3FS-D025	2.5	7	4	50	3F
CT204-3FS-D030	3	9	4	50	3F
CT204-3FS-D040	4	12	4	50	3F
CT204-3FE-D040	4	16	4	75	3F
CT204-3FL-D040	4	20	4	100	3F
CT204-3FS-D050	5	15	5	50	3F
CT204-3FS-D060	6	18	6	50	3F
CT204-3FE-D060	6	25	6	75	3F
CT204-3FL-D060	6	30	6	100	3F
CT204-3FXL-D060	6	40	6	150	3F
CT204-3FS-D080	8	24	8	60	3F
CT204-3FE-D080	8	30	8	75	3F
CT204-3FL-D080	8	35	8	100	3F
CT204-3FXL-D080	8	40	8	150	3F
CT204-3FS-D100	10	30	10	75	3F
CT204-3FE-D100	10	40	10	100	3F
CT204-3FL-D100	10	50	10	150	3F
CT204-3FS-D120	12	35	12	75	3F
CT204-3FE-D120	12	45	12	100	3F
CT204-3FL-D120	12	55	12	150	3F
CT204-3FS-D140	14	40	14	100	3F
CT204-3FE-D140	14	60	14	150	3F
CT204-3FS-D160	16	45	16	100	3F
CT204-3FE-D160	16	70	16	150	3F
CT204-3FS-D180	18	45	18	100	3F
CT204-3FE-D180	18	70	18	150	3F
CT204-3FS-D200	20	45	20	100	3F
CT204-3FE-D200	20	70	20	150	3F

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
								◎	◎		

◎ Very Suitable ○ Suitable

END MILLS FOR TITANIUM ALLOY



Unequal index and multiple helix design ◀

Sharp & high wear resistance ◀

TAC Coating ◀

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT702-4FS-D030	3	8	4	50
CT702-4FS-D040	4	10	4	50
CT702-4FS-D050	5	13	6	50
CT702-4FS-D060	6	15	6	50
CT702-4FS-D080	8	20	8	50
CT702-4FS-D100	10	25	10	75
CT702-4FS-D120	12	30	12	75
CT702-4FS-D140	14	45	14	100
CT702-4FS-D160	16	45	16	100
CT702-4FS-D200	20	45	20	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
										◎	

◎ Very Suitable ○ Suitable



END MILLS FOR STAINLESS STEEL

Unequal helix provide high rigidity <<

Better surface finish <<

Excellent chip evacuation <<

Higher productivity <<



Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT703-4FS-D010	1	3	4	50
CT703-4FS-D020	2	6	4	50
CT703-4FS-D030	3	8	4	50
CT703-4FS-D040	4	10	4	50
CT703-4FE-D040	4	16	4	50
CT703-4FS-D050	5	13	5	50
CT703-4FL-D050	5	25	5	100
CT703-4FS-D060	6	15	6	50
CT703-4FE-D060	6	25	6	75
CT703-4FL-D060	6	30	6	100
CT703-4FS-D080	8	20	8	60
CT703-4FE-D080	8	25	8	75
CT703-4FL-D080	8	35	8	100
CT703-4FE-D100	10	25	10	75
CT703-4FL-D100	10	40	10	100
CT703-4FE-D120	12	30	12	75
CT703-4FL-D120	12	45	12	100
CT703-4FL-D140	14	45	14	100
CT703-4FL-D160	16	45	16	100
CT703-4FL-D200	20	45	20	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
						◎					

FINISHING CARBIDE END MILL



Sharp cutting edge <<

Excellent chip evacuation <<

Higher rigidity <<

Good surface finish <<

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

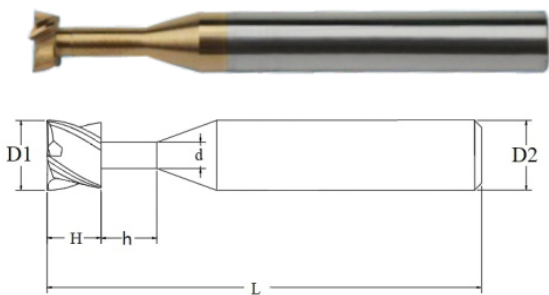
ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT701-6FS-D060	6	18	6	50
CT701-6FS-D080	8	24	8	60
CT701-6FS-D100	10	30	10	75
CT701-6FS-D120	12	32	12	75
CT701-6FS-D160	16	45	16	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎	◎		◎	◎				

◎ Very Suitable ○ Suitable



T-SLOT CARBIDE END MILL



MG

HRC 55

4

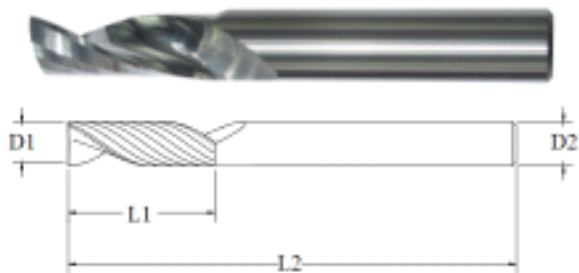
Slotting

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	MILL HEIGHT H(mm)	NECK DIA d(mm)	NECK LENGTH h(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L(mm)
CT801-4FS-4005	4	0.5	1.5	6	4	50
CT801-4FS-4010	4	1	1.5	6	4	50
CT801-4FS-4015	4	1.5	1.5	6	4	50
CT801-4FS-4020	4	2	1.5	6	4	50
CT801-4FS-4025	4	2.5	1.5	6	4	50
CT801-4FS-4030	4	3	1.5	6	4	50
CT801-4FS-6005	6	0.5	2.5	8	6	50
CT801-4FS-6010	6	1	2.5	8	6	50
CT801-4FS-6015	6	1.5	2.5	8	6	50
CT801-4FS-6020	6	2	2.5	8	6	50
CT801-4FS-6025	6	2.5	2.5	8	6	50
CT801-4FS-6030	6	3	2.5	8	6	50
CT801-4FS-6040	6	4	2.5	8	6	50
CT801-4FS-8005	8	0.5	3.5	8	8	60
CT801-4FS-8010	8	1	3.5	8	8	60
CT801-4FS-8015	8	1.5	3.5	8	8	60
CT801-4FS-8020	8	2	3.5	8	8	60
CT801-4FS-8025	8	2.5	3.5	8	8	60
CT801-4FS-8030	8	3	3.5	8	8	60
CT801-4FS-8040	8	4	3.5	8	8	60
CT801-4FS-1005	10	0.5	4	10	10	75
CT801-4FS-1010	10	1	4	10	10	75
CT801-4FS-1015	10	1.5	4	10	10	75
CT801-4FS-1020	10	2	4	10	10	75
CT801-4FS-1025	10	2.5	4	10	10	75
CT801-4FS-1030	10	3	4	10	10	75
CT801-4FS-1040	10	4	4	10	10	75
CT801-4FS-1205	12	0.5	5	12	12	75
CT801-4FS-1210	12	1	5	12	12	75
CT801-4FS-1215	12	1.5	5	12	12	75
CT801-4FS-1220	12	2	5	12	12	75
CT801-4FS-1225	12	2.5	5	12	12	75
CT801-4FS-1230	12	3	5	12	12	75
CT801-4FS-1240	12	4	5	12	12	75

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎				

SINGLE FLUTE CARBIDE END MILL



High toughness <<

Excellent surface finish <<

Designed for high speed processing <<

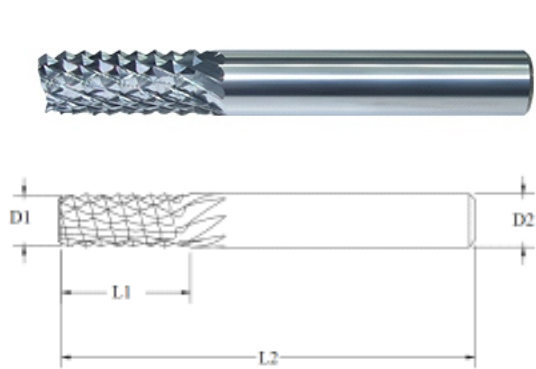
wood, acrylic, PVC, MDF, plastic, etc..

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT804-1FS-O130	1	3	3.175	38
CT804-1FS-1560	1.5	6	3.175	38
CT804-1FS-O280	2	8	3.175	38
CT804-1FS-2512	2.5	12	3.175	38
CT804-1FS-O312	3	12	3.175	38
CT804-1FS-3112	3.175	12	3.175	38
CT804-1FS-3115	3.175	15	3.175	38
CT804-1FS-3117	3.175	17	3.175	38
CT804-1FE-3122	3.175	22	3.175	45
CT804-1FE-3125	3.175	25	3.175	45
CT804-1FE-3132	3.175	32	3.175	55
CT804-1FS-O412	4	12	4	45
CT804-1FS-O415	4	15	4	45
CT804-1FS-O417	4	17	4	45
CT804-1FS-O422	4	22	4	45
CT804-1FS-O425	4	25	4	45
CT804-1FE-O432	4	32	4	55
CT804-1FL-O442	4	42	4	70
CT804-1FS-O512	5	12	5	50
CT804-1FS-O515	5	15	5	50
CT804-1FS-O517	5	17	5	50
CT804-1FS-O522	5	22	5	50
CT804-1FS-O525	5	25	5	50
CT804-1FE-O532	5	32	5	60
CT804-1FS-O612	6	12	6	50
CT804-1FS-O615	6	15	6	50
CT804-1FS-O617	6	17	6	50
CT804-1FS-O622	6	22	6	50
CT804-1FS-O625	6	25	6	50
CT804-1FE-O632	6	32	6	60
CT804-1FL-O642	6	42	6	70
CT804-1FXL-O652	6	52	6	80
CT804-1FS-O822	8	22	8	60
CT804-1FS-O825	8	25	8	60
CT804-1FS-O832	8	32	8	60
CT804-1FE-O842	8	42	8	75
CT804-1FL-O852	8	52	8	90
CT804-1FS-1032	10	32	10	75
CT804-1FE-1042	10	42	10	85
CT804-1FL-1052	10	52	10	100
CT804-1FS-1235	12	35	12	75
CT804-1FE-1245	12	45	12	90
CT804-1FL-1255	12	55	12	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎	◎			

CARBIDE CORN MILLING CUTTER



High wear resistance and bending strength ◀◀

High productivity ◀◀

Designed for PCB, normal FR-4, CEM-3 boards, ◀◀
circuit board, carbon fiberglass, plastic,
epoxy board, wood, stainless steel

Mill Dia. Tolerance (mm)	Shank Dia. Tolerance (mm)
D≤12 0~-0.02	h6
D>12 0~-0.03	

ITEM NO	MILL DIAMETER D1/(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIAMETER D2/(mm)	OVERALL LENGTH L2 (mm)
CT803-IFS-0107	1	7	3.175	38
CT803-IFS-1585	1.5	8.5	3.175	38
CT803-IFS-2105	2	10.5	3.175	38
CT803-IFS-2510	2.5	10.5	3.175	38
CT803-IFS-0312	3	12	3.175	38
CT803-IFS-3112	3.175	12	3.175	38
CT803-IFS-3115	3.175	15	3.175	38
CT803-IFS-3117	3.175	17	3.175	38
CT803-IFE-3122	3.175	22	3.175	45
CT803-IFE-3125	3.175	25	3.175	45
CT803-IFS-0412	4	12	4	55
CT803-IFS-0415	4	15	4	45
CT803-IFS-0417	4	17	4	45
CT803-IFS-0422	4	22	4	45
CT803-IFE-0425	4	25	4	50
CT803-IFL-0428	4	28	4	60
CT803-IFL-0432	4	32	4	60
CT803-IFS-0522	5	22	5	50
CT803-IFS-0525	5	25	5	50
CT803-IFS-0617	6	17	6	50
CT803-IFS-0622	6	22	6	50
CT803-IFS-0625	6	25	6	50
CT803-IFE-0632	6	32	6	60
CT803-IFL-0642	6	42	6	70
CT803-IFXL-0652	6	52	6	85
CT803-IFS-0822	8	22	8	50
CT803-IFE-0822	8	22	8	60
CT803-IFS-0825	8	25	8	50
CT803-IFE-0832	8	32	8	60
CT803-IFL-0842	8	42	8	70
CT803-IFXL-0852	8	52	8	80
CT803-IFXXL-0862	8	62	8	100
CT803-IFS-1025	10	25	10	60
CT803-IFE-1032	10	32	10	75
CT803-IFL-1050	10	50	10	100
CT803-IFS-1232	12	32	12	75
CT803-IFE-1250	12	50	12	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎				◎				

CHAMFERING CARBIDE END MILLS



High efficiency <<

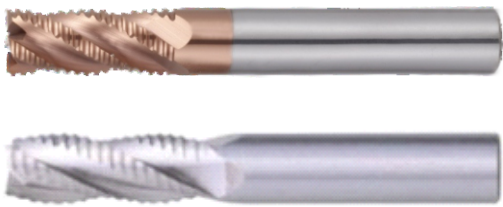
Good surface finish <<

Suitable for different material like <<
steel, aluminum, copper alloy

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT604-3FS-D400-60°	4	6	4	50
CT604-3FS-D500-60°	5	7.5	5	50
CT604-3FS-D600-60°	6	9	6	50
CT604-3FS-D800-60°	8	12	8	50
CT604-3FS-D100-60°	10	15	10	60
CT604-3FS-D120-60°	12	18	12	60
CT604-3FS-D160-60°	16	24	16	85
CT604-3FS-D400-90°	4	6	4	50
CT604-3FS-D500-90°	5	7.5	5	50
CT604-3FS-D600-90°	6	9	6	50
CT604-3FS-D800-90°	8	12	8	50
CT604-3FS-D100-90°	10	15	10	60
CT604-3FS-D120-90°	12	18	12	60
CT604-3FS-D160-90°	16	24	16	85
CT604-3FS-D400-120°	4	6	4	50
CT604-3FS-D500-120°	5	7.5	5	50
CT604-3FS-D600-120°	6	9	6	50
CT604-3FS-D800-120°	8	12	8	50
CT604-3FS-D100-120°	10	15	10	60
CT604-3FS-D120-120°	12	18	12	60
CT604-3FS-D160-120°	16	24	16	85



ROUGHING CARBIDE END MILLS



Large amount of cutting <<

Work under high speed cutting <<

Excellent performance of chip removal <<

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT805-3FS-D040	4	10	4	50
CT805-3FS-D050	5	13	5	50
CT805-3FS-D060	6	15	6	50
CT805-3FS-D080	8	20	8	60
CT805-3FS-D100	10	25	10	75
CT805-3FS-D120	12	30	12	75
CT805-3FL-D060	16	30	6	100
CT805-3FL-D080	8	35	8	100
CT805-3FE-D100	10	40	10	100
CT805-3FE-D120	12	45	12	100
CT805-3FS-D140	14	45	14	100
CT805-3FS-D160	16	45	16	100
CT805-3FS-D180	18	45	18	100
CT805-3FS-D200	20	45	20	100
CT805-4FS-D040	4	10	4	50
CT805-4FS-D050	5	13	5	50
CT805-4FS-D060	6	15	6	50
CT805-4FS-D080	8	20	8	60
CT805-4FS-D100	10	25	10	75
CT805-4FS-D120	12	30	12	75
CT805-4FL-D060	6	30	6	100
CT805-4FL-D080	8	35	8	100
CT805-4FE-D100	10	40	10	100
CT805-4FE-D120	12	45	12	100
CT805-4FS-D140	14	45	14	100
CT805-4FS-D160	16	45	16	100
CT805-4FS-D180	18	45	18	100
CT805-4FS-D200	20	45	20	100



LOLLIPOP BALL SOLID CARBIDE END MILLS



MG

HRC
55

2

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT605-2FB-R100	R1	4	50	2F
CT605-2FB-R150	R1.5	4	50	2F
CT605-2FB-R200	R2	4	50	2F
CT605-2FB-R250	R2.5	6	50	2F
CT605-2FB-R300	R3	6	50	2F
CT605-2FB-R400	R4	8	60	2F
CT605-2FB-R500	R5	10	60	2F
CT605-2FB-R600	R6	12	60	2F

INNER R SOLID CARBIDE END MILLS



MG

HRC
55

4

ITEM NO	MILL DIA (mm)	INNER R ANGLE (mm)	SHANK DIA (mm)	OAL (mm)
CT603-4FS-R050	4	R0.5	4	50
CT603-4FS-R100	4	R1	4	50
CT603-4FS-R150	6	R1.5	6	50
CT603-4FS-R200	6	R2	6	50
CT603-4FS-R250	8	R2.5	8	60
CT603-4FS-R300	8	R3	8	60
CT603-4FS-R400	10	R4	10	75
CT603-4FS-R500	12	R5	12	75

UP & DOWN CHAMFERING END MILLS



MG

HRC
55

4

ITEM NO	MILL DIA D1/(mm)	LOC H(mm)	DIAMETER OF CLEARANCE d/(mm)	LENGTH OF CLEARANCE h/(mm)	SHANK DIA D2/(mm)	OAL (mm)
CT606-4FS-D020-60°	2	0.64	0.9	3	4	50
CT606-4FS-D030-60°	3	0.92	1.4	4	4	50
CT606-4FS-D040-60°	4	1.24	1.9	8	4	50
CT606-4FS-D050-60°	5	1.56	2.3	10	6	50
CT606-4FS-D060-60°	6	1.9	2.8	10	6	50
CT606-4FS-D080-60°	8	2.54	3.6	12	8	60
CT606-4FS-D100-60°	10	3.18	4.5	15	10	60
CT606-4FS-D120-60°	12	3.81	5.4	18	12	60
CT606-4FS-D020-90°	2	1.1	0.9	3	4	50
CT606-4FS-D030-90°	3	1.6	1.4	4	4	50
CT606-4FS-D040-90°	4	2.15	1.9	8	4	50
CT606-4FS-D050-90°	5	2.7	2.3	10	6	50
CT606-4FS-D060-90°	6	3.3	2.8	10	6	50
CT606-4FS-D080-90°	8	4.4	3.6	12	8	60
CT606-4FS-D100-90°	10	5.5	4.5	15	10	60
CT606-4FS-D120-90°	12	6.6	5.4	18	12	60
CT606-4FS-D020-120°	2	1.9	0.9	3	4	50
CT606-4FS-D030-120°	3	2.77	1.4	4	4	50
CT606-4FS-D040-120°	4	3.72	1.9	8	4	50
CT606-4FS-D050-120°	5	4.67	2.3	10	6	50
CT606-4FS-D060-120°	6	5.71	2.8	10	6	50
CT606-4FS-D080-120°	8	7.62	3.6	12	8	60
CT606-4FS-D100-120°	10	9.53	4.5	15	10	60
CT606-4FS-D120-120°	12	11.43	5.4	18	12	60



MICRO SQUARE CARBIDE END MILLS



MG

3

HRC 60

Roughing

Side Milling

Slotting

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT605-2FB-R100	0.2	0.4	4	50
CT605-2FB-R150	0.3	0.6	4	50
CT605-2FB-R200	0.4	0.8	4	50
CT605-2FB-R250	0.5	4	4	50
CT605-2FB-R300	0.6	1.2	4	50
CT605-2FB-R400	0.7	1.4	4	50
CT605-2FB-R500	0.8	1.6	4	50
CT605-2FB-R600	0.9	1.8	4	50

MICRO BALL NOSE CARBIDE END MILL



MG

2

HRC 60

Roughing

Side Milling

ITEM NO	MILL DIA (mm)	INNER R ANGLE (mm)	SHANK DIA (mm)	OAL (mm)
CT502-2BS-R010	RO.1	0.4	4	50
CT502-2BS-R015	RO.15	0.6	4	50
CT502-2BS-R020	RO.2	0.8	4	50
CT502-2BS-R025	RO.25	4	4	50
CT502-2BS-R030	RO.3	1.2	4	60
CT502-2BS-R035	RO.35	1.4	4	60
CT502-2BS-R040	RO.4	1.6	4	75
CT502-2BS-R045	RO.45	1.8	4	75

MICRO EXTENDED NECK FLAT END MILLS



MG

2

HRC 60

Roughing

Side Milling

Slotting

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT503-2FS-D030	0.3	2/3/4/5	4	50
CT503-2FS-D040	0.4	2/3/4/5/6	4	50
CT503-2FS-D050	0.5	2/3/4/6	4	50
CT503-2FS-D060	0.6	2/3/4/6/8	4	50
CT503-2FS-D070	0.7	3/4/6/8/10	4	50
CT503-2FS-D080	0.8	3/4/6/8/10	4	50
CT503-2FS-D090	0.9	3/4/6/8/10	4	50

MICRO EXTENDED NECK BALL NOSE



MG

2

HRC 60

Roughing

Side Milling

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT504-2BS-R015	R0.15	2/3/4/5	4	50
CT504-2BS-R020	R0.2	2/3/4/5/6	4	50
CT504-2BS-R025	R0.25	2/3/4/6	4	50
CT504-2BS-R030	R0.3	2/3/4/6/8	4	50
CT504-2BS-R035	R0.35	3/4/6/8/10	4	50
CT504-2BS-R040	R0.4	3/4/6/8/10	4	50
CT504-2BS-R045	R0.45	3/4/6/8/10	4	50

EXTENDED FLAT END MILLS



MG

4

HRC 55

Roughing

Side Milling

Slotting

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT505-4FS-D100	1	6/8/10/12/16/20	4	50
CT505-4FS-D150	1.5	6/8/10/12/16/20/25	4	50
CT505-4FS-D200	2	8/10/12/16/20/25	4	50
CT505-4FS-D250	2.5	10/12/16/20/25	4	50

EXTENDED BALL NOSE



MG

2

HRC 55

Roughing

Side Milling

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT506-2BS-R050	R0.5	4/6/8/10/12/16/20	4	50
CT506-2BS-R075	R0.75	6/8/10/12/16/20/25	4	50
CT506-2BS-R100	R1	8/10/12/16/20/25	4	50
CT506-2BS-R125	R1.25	10/12/16/20/25	4	50

T-SLOT DOVETAIL END MILL



MG

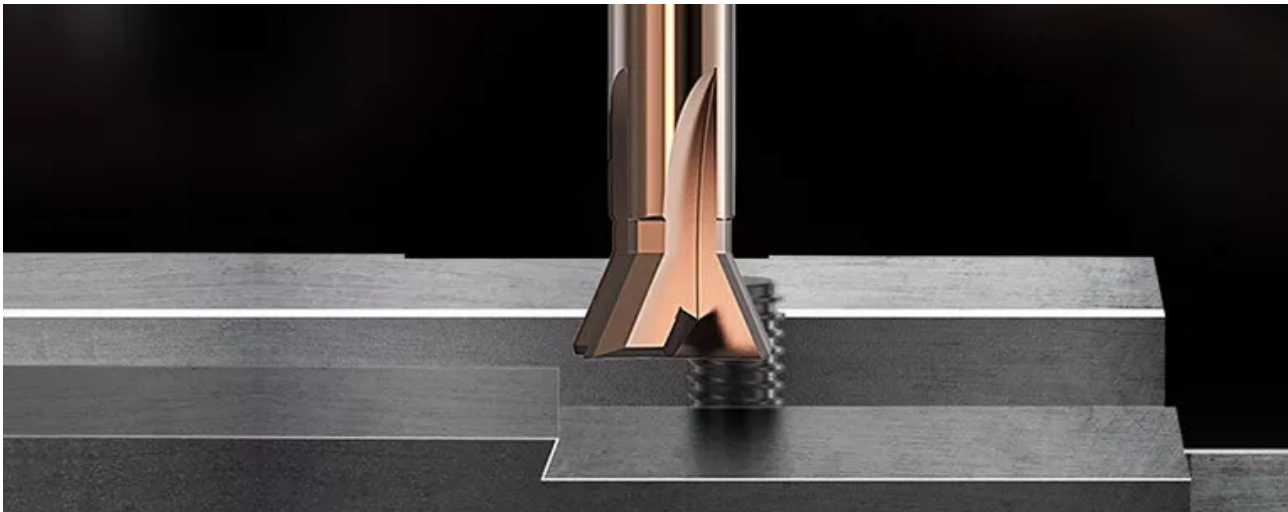
HRC
55

4

Slotting

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIA D1/(mm)	ANGLE	MILL HEIGHT H(mm)	NECK DIA d/(mm)	NECK LENGTH h/(mm)	SHANK DIA D2/(mm)	OAL (mm)
CT802-4FS-H032	2	60°	0.32	0.9	4	4	50
CT802-4FS-H047	3	60°	0.47	1.4	6	4	50
CT802-4FS-H062	4	60°	0.62	1.9	8	4	50
CT802-4FS-H079	5	60°	0.79	2.3	10	6	50
CT802-4FS-H094	6	60°	0.94	2.8	10	6	50
CT802-4FS-H129	8	60°	1.29	3.6	12	8	60
CT802-4FS-H161	10	60°	1.61	4.5	15	10	60
CT802-4FS-H194	12	60°	1.94	5.4	18	12	60
CT802-4FS-H055	2	45°	0.55	0.9	4	4	50
CT802-4FS-H080	3	45°	0.8	1.4	6	4	50
CT802-4FS-H105	4	45°	1.05	1.9	8	4	50
CT802-4FS-H135	5	45°	1.35	2.3	10	6	50
CT802-4FS-H160	6	45°	1.6	2.8	10	6	50
CT802-4FS-H220	8	45°	2.2	3.6	12	8	60
CT802-4FS-H275	10	45°	2.75	4.5	15	10	60
CT802-4FS-H330	12	45°	3.3	5.4	18	12	60
CT802-4FS-H096	2	30°	0.96	0.9	4	4	50
CT802-4FS-H140	3	30°	1.4	1.4	6	4	50
CT802-4FS-H184	4	30°	1.84	1.9	8	4	50
CT802-4FS-H237	5	30°	2.37	2.3	10	6	50
CT802-4FS-H281	6	30°	2.81	2.8	10	6	50
CT802-4FS-H386	8	30°	3.86	3.6	12	8	60
CT802-4FS-H482	10	30°	4.82	4.5	15	10	60
CT802-4FS-H579	12	30°	5.79	5.4	18	12	60



DOUBLE END CENTER DRILL



Large diameter shank guarantee <<
perfect drill point

High efficiency <<

High precision <<

ITEM NO	MILL DIA (mm)	LOC(mm)	α ANGLE	SHANK DIA (mm)	OAL (mm)
CT601-2AS-D040	0.4	0.8	60°	4	50
CT601-2AS-D050	0.5	1	60°	4	50
CT601-2AS-L060	0.6	1.2	60°	4	50
CT601-2AS-D070	0.7	1.4	60°	4	50
CT601-2AS-D080	0.8	1.5	60°	4	50
CT601-2AS-D090	0.9	1.5	60°	4	50
CT601-2AS-D100	1.0	1.5	60°	4	50
CT601-2AS-D110	1.1	1.8	60°	4	50
CT601-2AS-D120	1.2	1.8	60°	4	50
CT601-2AS-D130	1.3	1.8	60°	4	50
CT601-2AS-D140	1.4	2	60°	4	50
CT601-2AS-D150	1.5	2	60°	4	50
CT601-2AS-D160	1.6	2	60°	4	50
CT601-2AS-D170	1.7	2.2	60°	4	50
CT601-2AS-D180	1.8	2.2	60°	4	50
CT601-2AS-D190	1.9	2.2	60°	4	50
CT601-2AS-D200	2.0	2.5	60°	4	50
CT601-28S-D200	2.0	2.5	60°	6	50
CT601-2BS-D250	2.5	3	60°	6	50
CT601-2BS-D300	3.0	3.5	60°	6	50
CT601-2CS-D300	3.0	3.5	60°	8	60
CT601-2CS-D400	4.0	5	60°	8	60
CT601-2DS-D400	4.0	5	60°	10	60
CT601-2DS-D500	5.0	6.5	60°	10	60
CT601-2DS-D600	6.0	7.5	60°	10	60
CT601-2AL-D100	1.0	1.5	60°	4	100
CT601-2AL-D150	1.5	2	60°	4	100
CT601-2AL-D200	2.0	2.5	60°	4	100
CT601-2BL-D200	2.0	2.5	60°	6	100
CT601-2BL-D300	3.0	3.5	60°	6	100
CT601-2CL-D300	3.0	3.5	60°	8	100
CT601-2CL-D400	4.0	5	60°	8	100
CT601-2DE-D400	4.0	5	60°	10	100
CT601-2DE-D500	5.0	6.5	60°	10	100

SPOTTING DRILL



High rigidity ◀

Long tool life ◀

Cab run at high speed cutting ◀
and high teperature

Mill Dia. Tolerance (mm)		Shank Dia. Tolerance (mm)
D≤12	0~-0.02	h6
D>12	0~-0.03	

ITEM NO	MILL DIAMETER (mm)	α ANGLE	LOC (mm)	SHANK DIAMETER (mm)	OVERALL LENGTH (mm)
CT602-2CS-D010	1	90°	2	4	50
CT602-2CS-D015	1.5	90°	3	4	50
CT602-2CS-D020	2	90°	4	4	50
CT602-2CS-D025	2.5	90°	5	4	50
CT602-2CS-D030	3	90°	6	4	50
CT602-2CS-D040	4	90°	8	4	50
CT602-2CS-D050	5	90°	10	5	50
CT602-2CS-D060	6	90°	12	6	50
CT602-2CS-D080	8	90°	16	8	60
CT602-2CS-D100	10	90°	20	10	75
CT602-2CS-D120	12	90°	24	12	75
CT602-2CL-D030	3	90°	6	4	100
CT602-2CL-D040	4	90°	8	4	100
CT602-2CL-D050	5	90°	10	5	100
CT602-2CL-D060	6	90°	12	6	100
CT602-2CL-D080	8	90°	16	8	100
CT602-2CE-D100	10	90°	20	10	100
CT602-2CE-D120	12	90°	24	12	100
CT602-2CS-D140	14	90°	28	14	100
CT602-2CS-D160	16	90°	32	16	100
CT602-2CS-D180	18	90°	36	18	100
CT602-2CS-D200	20	90°	40	20	100

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎			◎					

◎ Very Suitable ○ Suitable

SOLID CARBIDE REAMER

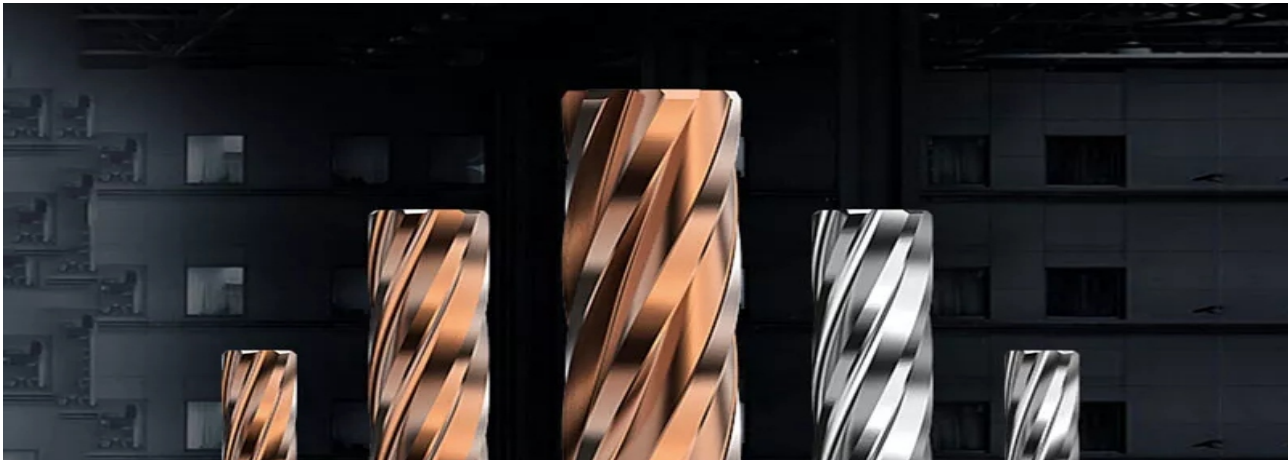


Straight & spiral reamer are available <<

Suitable for mould steel, alloy steel, <<
cast iron, aluminum, copper alloy

Mainly used for precision process <<
of holes of engines and precision parts

ITEM NO	MILL DIA (mm)	LOC(mm)	SHANK DIA (mm)	OAL (mm)
CT404-4FS-D020	2	20	4	50
CT404-4FS-D030	3	25	4	50
CT404-4FS-D040	4	25	4	50
CT404-4FL-D040	4	50	4	100
CT404-6FS-D050	5	30	6	60
CT404-6FL-D050	5	50	6	100
CT404-6FS-D060	6	30	6	60
CT404-6FL-D060	6	50	6	100
CT404-6FS-D080	8	30	8	60
CT404-6FE-D080	8	50	8	100
CT404-6FS-D100	10	37.5	10	75
CT404-6FE-D100	10	50	10	100
CT404-6FS-D120	12	37.5	12	75
CT404-6FE-D120	12	50	12	100



MICRO FACE GROOVING



High precision <<

High efficiency <<

Long tool life <<

ITEM NO	MILL DIA (mm)	GROOVE WIDTH (mm)	EFFECTIVE LENGTH (mm)
CT405-MFR-4-B0.75	4	0.75	15
CT405-MFR-4-B1.0	4	1	15
CT405-MFR-4-B1.5	4	1.5	22
CT405-MFR-5-B1.0	5	1	22
CT405-MFR-5-B1.5	5	1.5	22
CT405-MFR-5-B2.0	5	2	22
CT405-MFR-6-B1.0	6	1	22
CT405-MFR-6-B1.5	6	1.5	22
CT405-MFR-6-B2.0	6	2	22
CT405-MFR-6-B3.0	6	3	22

INTERNAL HOLE MICRO THREAD MILLING



High precision <<

High efficiency <<

Long tool life <<

ITEM NO	MILL DIA (mm)	THREAD TYPE	EFFECTIVE LENGTH (mm)
CT406-MIR-3-A60	3	A60	15
CT406-MIR-4-A60	4	A60	15
CT406-MIR-5-A60	5	A60	22
CT406-MIR-6-A60	6	A60	22
CT406-MIR-8-A60	8	A60	30

INNER HOLE BORING END MILLS



High Precision <<

High Efficiency <<

Long Tool Life <<

ITEM NO	MILL DIA (mm)	RADIUS	EFFECTIVE LENGTH (mm)
CT401-MTR-1-L4	1	RO.05	4
CT401-MTR-1.5-L6	1.5	RO.1	6
CT401-MTR-2-L10	2	RO.1	10
CT401-MTR-3-L15	3	RO.1	15
CT401-MTR-4-L15	4	RO.1	15
CT401-MTR-4-L22	4	RO.1	22
CT401-MTR-5-L22	5	RO.2	22
CT401-MTR-6-L22	6	RO.2	22
CT401-MTR-6-L30	6	RO.2	30
CT401-MTR-8-L22	8	RO.2	22
CT401-MTR-8-L32	8	RO.2	32
CT401-MPR-2-L10	2	RO.1	10
CT401-MPR-3-L15	3	RO.1	15
CT401-MPR-4-L15	4	RO.1	15
CT401-MPR-5-L22	5	RO.2	22
CT401-MPR-6-L22	6	RO.2	22
CT401-MPR-8-L27	8	RO.2	27
CT401-MUR-3-L10	3	RO.05	10
CT401-MUR-4-L15	4	RO.1	15
CT401-MUR-5-L22	5	RO.15	22
CT401-MUR-6-L22	6	RO.15	22
CT401-MQR-3-L15	3	RO.15	15
CT401-MQR-4-L15	4	RO.15	15
CT401-MQR-5-L22	5	RO.2	22
CT401-MQR-6-L22	6	RO.2	22

REVERSE BORING END MILLS



High precision <<

High efficiency <<

Long tool life <<

ITEM NO	MILL DIA (mm)	GROOVE WIDTH (mm)	EFFECTIVE LENGTH (mm)
CT402-MXR-3-BO.8	3	0.8	15
CT402-MXR-4-BO.8	4	0.8	15
CT402-MXR-5-B1	5	1	22
CT402-MXR-6-B1	6	1	22

INNER BORING END MILLS



High precision <<

High efficiency <<

Long tool life <<

ITEM NO	MILL DIA (mm)	RADIUS	EFFECTIVE LENGTH (mm)
CT403-MKR-4-RO.5	4	RO.5	10
CT403-MKR-4-RO.75	4	RO.75	10
CT403-MKR-5-RO.5	5	RO.5	15
CT403-MKR-5-RO.75	5	RO.75	15
CT403-MKR-5-R1	5	R1	15
CT403-MKR-6-RO.5	6	RO.5	15
CT403-MKR-6-RO.75	6	RO.75	15
CT403-MKR-6-R1	6	R1	15
CT403-MGR-3-RO.7	3	RO.7	10
CT403-MGR-4-R1	4	R1	10
CT403-MGR-5-R1	5	R1	22
CT403-MGR-5-R2	5	R2	22
CT403-MGR-6-R1	6	R1	22
CT403-MGR-6-R2	6	R2	22

SINGLE TOOTH THREADING END MILL



Fine grained tungsten carbide <<

Unique sharp cutting edge design <<

Excellent performance of processing
harden material <<

ITEM NO	TYPE	MILL DIAMETER D1(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIA D2/(mm)	OVERALL LENGTH L2(mm)	FLUTE
CT301-3FS-M1	M1*0.25	0.7	3.1	4	50	3
CT301-3FS-M1.2	M1.2*0.25	0.9	3.8	4	50	3
CT301-3FS-M1.4	M1.4*0.3	1.05	4.4	4	50	3
CT301-3FS-M1.6	M1.6*0.35	1.2	5	4	50	3
CT301-3FS-M1.8	M1.8*0.35	1.4	5.6	4	50	3
CT301-3FS-M2	M2*0.4	1.5	6.2	4	50	3
CT301-3FS-M2.5	M2.5*0.45	1.95	7.7	4	50	3
CT301-3FS-M3	M3*0.5	2.4	9	4	50	3
CT301-3FS-M3.5	M3.5*0.6	2.75	10	4	50	3
CT301-3FS-M4	M4*0.7	3.15	12	4	50	3
CT301-3FS-M5	M5*0.8	4	15	4	50	3
CT301-3FS-M6	M6*1.0	4.8	19	6	50	3
CT301-3FS-M8	M8*1.25	6	22	6	50	3
CT301-3FS-M10	M10*1.5	8	30	8	60	3
CT301-4FS--M12	M12*1.75	9.4	38	10	75	4
CT301-4FS-M14	M14*2.0	10.2	38	12	75	4
CT301-4FS-M16	M16*2.0	13	39	14	80	4
CT301-4FS-M18	M18*2.0	14.5	60	16	90	4
CT301-5FS-M20	M20 2.5	16	54	16	90	5
CT301-4FS-M12-M14	M12-M14 1.5	9.4	38	10	75	4



THREE TEETH THREADING MILLING CUTTER



Fine grained tungsten carbide <<

Unique sharp cutting edge design <<

Excellent performance of processing
harden material <<

ITEM NO	TYPE	MILL DIAMETER D1(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIA D2/(mm)	OVERALL LENGTH L2(mm)	FLUTE
CT302-3FS-M1	M1*0.25	0.7	2.3	4	50	3
CT302-3FS-M1.2	M1.2*0.25	0.92	2.8	4	50	3
CT302-3FS-M1.4	M1.4*0.3	1.05	3.2	4	50	3
CT302-3FS-M1.6	M1.6*0.35	1.2	3.3	4	50	3
CT302-3FS-M1.8	M1.8*0.35	1.41	4.1	4	50	3
CT302-3FS-M2	M2*0.4	1.54	4.4	4	50	3
CT302-3FS-M2.2	M2.2*0.45	1.63	4.8	4	50	3
CT302-3FS-M2.5	M2.5*0.45	1.96	5.3	4	50	3
CT302-3FS-M3	M3*0.5	2.4	6.4	4	50	3
CT302-3FS-M4	M4*0.7	3.15	8.6	4	50	3
CT302-3FS-M5	M5*0.8	4	12	4	50	3
CT302-3FS-M6	M6*1.0	4.75	13	6	50	3
CT302-3FE-M8	M8*1.25	6	17.3	6	50	3
CT302-3FS-M10	M10*1.5	8	21.8	8	60	3
CT302-4FS-M12	M12*1.75	10	24	10	75	4
CT302-4FS-M14	M14* 2.0	10	25	12	75	4
CT302-4FS-M16	M16*2.0	11.5	27	12	75	4
CT302-4FS-M20	M20*2.5	15	36	16	90	4
CT302-3FS-M8	M8* 1	6	17.3	6	50	3



FULL TEETH THREADING END MILL

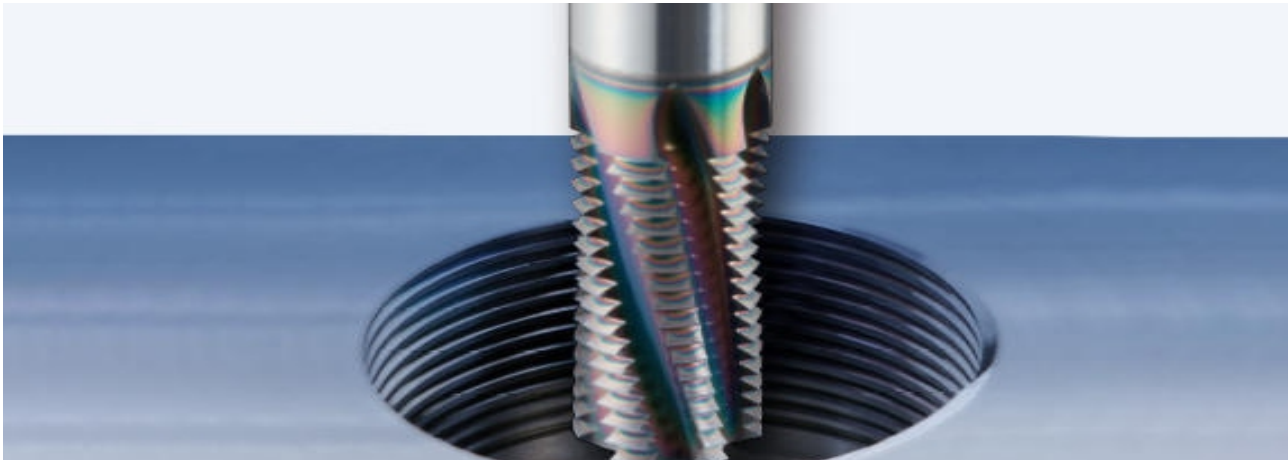


Fine grained tungsten carbide

Unique sharp cutting edge design

Excellent performance of processing
harden material

ITEM NO	TYPE	MILL DIAMETER D1(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIA D2/(mm)	OVERALL LENGTH L2(mm)	FLUTE
CT303-3FS-M3	M3*0.5	2.3	6	4	50	3
CT303-3FS-M4	M4*0.7	3	8	4	50	3
CT303-3FS-M5	M5*0.8	4	10	4	50	3
CT303-3FS-M5	M6*1.0	4.8	12	6	60	3
CT303-3FS-M8	M8*1.25	6	16	6	60	3
CT303-3FS-M10	M10*1.5	8	20	8	60	3
CT303-4FS-M12	M12*1.75	9.8	30	10	75	4
CT303-4FS-M14	M14*2.0	10	30	10	75	4
CT303-4FS-M8*0.75	M8*0.75	6	16	6	60	4
CT303-4FS-M8*1	M8*1	6	16	6	60	4
CT303-4FS-M10	M10*1.0	8	20	6	60	4
CT303-4FS-M12	M12-M20*15	10	28	10	75	4
CT303-4FS-M14	M14-M24*15	12	28	12	75	4
CT303-4FS-M20	M20-M48*15	16	30	16	90	4
CT303-4FS-M16	M16*2.0	12	30	12	75	4
CT303-4FS-M20	M20-M80*2.0	16	40	16	90	4
CT303-4FS-M18	M18-M20*2.5	14	36	14	83	4
CT303-4FS-M20	M20-M80*2.5	16	40	16	90	4
CT303-4FS-M24	M24*3.0	16	42	16	90	4



NPT-THREE TEETH MILLING CUTTER



Fine grained tungsten carbide <<

Unique sharp cutting edge design <<

Excellent performance of processing
harden material <<

ITEM NO	TYPE	MILL DIAMETER D1(mm)	CUTTING OF LENGTH L1/(mm)	SHANK DIA D2/(mm)	OVERALL LENGTH L2(mm)	FLUTE
CT304-3FS-NO.1-72	NO.1-72	1.45	3.9	4	50	3
CT304-3FS-NO.1-64	NO.1-64	1.4	4.2	4	50	3
CT304-3FS-NO.2-56	NO.2-56	1.65	5	4	50	3
CT304-3FS-NO.3-48	NO.3-48	1.9	6	4	50	3
BD304-3FS-NO.4,NO.5-40	NO.4,NO.5-40	2.1	6	4	50	3
CT304-3FS-NO.5-40	NO.5-40	2.45	7.2	4	50	3
CT304-3FS-NO.8-36	NO.8-36	3.3	8.7	4	50	3
CT304-3FS-NO.6,NO.8-32	NO.6,NO.8-32	2.55	7.4	4	50	3
CT304-3FS-NO.8-32	NO.8-32	3.2	10	4	50	3
CT304-3FS-NO.10-32	NO.10-32	3.8	10.3	4	50	3
CT304-3FS-1/4-28	1/4-28	5.25	13.2	6	50	3
CT304-3FS-NO.10-24	NO.10-24	3.58	10.2	4	50	3
CT304-3FS-5/16-24	5/16-24	6.68	16.5	8	60	3
CT304-3FS-1/4-20	1/4-20	4.88	13.4	6	50	3
CT304-4FS--7/16-20	7/16-20	9.55	23	10	75	4
CT304-3FS-5/16-18	5/16-18	6.15	16.9	8	60	3
CT304-3FS-3/8-16	3/8-16	6.7	19.1	8	60	3
CT304-4FS-7/16-14	7/16-14	9	23.3	10	75	4



NPT MILLING CUTTER



Fine grained tungsten carbide <<

Unique sharp cutting edge design <<

Excellent performance of processing
harden material <<

ITEM NO	TYPE	CUTTING OF LENGTH L1/(mm)	SHANK DIA D2/(mm)	OVERALL LENGTH L2(mm)	FLUTE
CT305-3FS-NPT 1/6-27	NPT 1/6-27	6	60	3	3
CT305-3FS-NPT 1/8-27	NPT 1/8-27	8	60	3	3
CT305-3FS-NPT 1/4-18	NPT 1/4-18	10	75	4	3
CT305-3FS-NPT 3/8-18	NPT 3/8-18	12	75	4	3
CT305-3FS-NPT 1/2-14	NPT 1/2-14	16	90	4	3
CT305-3FS-NPT 3/4-14	NPT 3/4-14	16	90	4	3
CT305-3FS-NPT 7/8-14	NPT 7/8-14	16	90	4	3

BSPT THREADING MILLING CUTTER



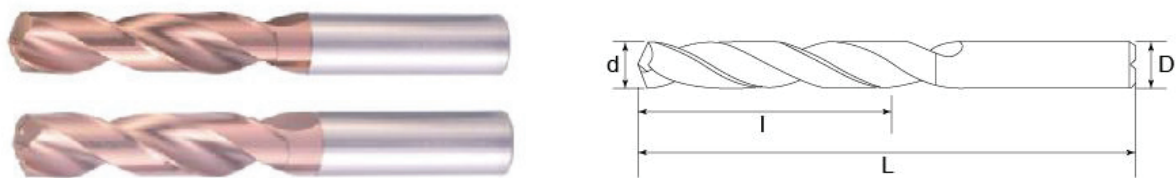
Fine grained tungsten carbide <<

Unique sharp cutting edge design <<

Excellent performance of processing
harden material <<

ITEM NO	TYPE	SHANK DIA D2/(mm)	OVERALL LENGTH L2(mm)	FLUTE
CT306-3FS-G/RC 1/16-28	G/RC 1/16-28	6	50	3
CT306-3FS-G/RC 1/8-28	G/RC 1/8-28	8	60	3
CT306-4FS-G/RC 1/4-19	G/RC 1/4-19	10	75	4
CT306-4FS-G/RC 3/8-19	G/RC 3/8-19	12	75	4
CT306-4FS-G/RC 1/2-14	G/RC 1/2-14	16	90	4
CT306-4FS-G/RC 3/4-14	G/RC 3/4-14	16	90	4
CT306-4FS-G/RC 7/8-14	G/RC 7/8-14	16	90	4

CT-3D-ED/ID CARBIDE DRILL



3D EXTERNAL COOLING CARBIDE DRILLS

ITEM NO	SPECIFICATION	DIAMETER	CHANNEL LENGTH	FULL LENGTH	SHANK DIAMETER
CT901-ED	3.0-3.7	30-37	20	62	4
	3.8-4.0	38-40	24	66	4
	4.1-6.0	41-60	24	66	6
	6.1-8.0	61-80	34	79	8
	8.1-10.0	81-100	47	89	10
	10.1-12.0	101-120	55	102	12
	12.1-14.0	121-140	60	107	14
	14.1-16.0	141-160	65	115	16
	16.1-18.0	161-180	73	123	18
	18.1-20.0	181-200	79	131	20
	20.1-22.0	201-220	79	131	22
	22.1-24.0	221-240	96	153	24
	24.1-25.0	241-250	96	153	25

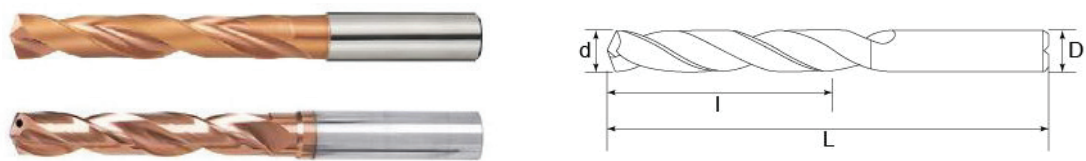
3D INTERNAL COOLING CARBIDE DRILLS

ITEM NO	SPECIFICATION	DIAMETER	CHANNEL LENGTH	FULL LENGTH	SHANK DIAMETER
CT902-ID	30-37	3.0-3.7	20	62	4
	38-40	3.8-4.0	24	66	4
	41-60	4.1-6.0	24	66	6
	61-80	6.1-8.0	34	79	8
	81-100	8.1-10.0	47	89	10
	101-120	10.1-12.0	55	102	12
	121-140	12.1-14.0	60	107	14
	141-160	14.1-16.0	65	115	16
	161-180	16.1-18.0	73	123	18
	181-200	18.1-20.0	79	131	20
	201-220	20.1-22.0	79	131	22
	221-240	22.1-24.0	96	153	24
	241-250	24.1-25.0	96	153	25

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎			◎	◎				

◎ Very Suitable ○ Suitable

CT-5D-ED/ID CARBIDE DRILL



5D EXTERNAL COOLING CARBIDE DRILLS

ITEM NO	SPECIFICATION	DIAMETER	CHANNEL LENGTH	FULL LENGTH	SHANK DIAMETER
CT903-ED	30-37	3.0-3.7	28	66	4
	38-40	3.8-4.0	36	74	4
	41-47	4.1-4.7	36	74	6
	48-60	4.8-6.0	44	82	6
	61-80	6.1-8.0	53	91	8
	81-100	8.1-10.0	61	103	10
	101-120	10.1-12.0	71	118	12
	121-140	12.1-14.0	77	124	14
	141-160	14.1-16.0	83	133	16
	161-180	16.1-18.0	101	153	18
	181-200	18.1-20.0	101	153	20
	201-220	20.1-22.0	135	200	22
	221-240	22.1-24.0	140	200	24
	241-250	24.1-25.0	140	200	25

5D INTERNAL COOLING CARBIDE DRILLS

ITEM NO	SPECIFICATION	DIAMETER	CHANNEL LENGTH	FULL LENGTH	SHANK DIAMETER
CT902-ID	30-37	3.0-3.7	28	66	4
	38-40	3.8-4.0	36	74	4
	41-47	4.1-4.7	36	74	6
	48-60	4.8-6.0	44	82	6
	61-80	6.1-8.0	53	91	8
	81-100	8.1-10.0	61	103	10
	101-120	10.1-12.0	71	118	12
	121-140	12.1-14.0	77	124	14
	141-160	14.1-16.0	83	133	16
	161-180	16.1-18.0	101	153	18
	181-200	18.1-20.0	101	153	20
	201-220	20.1-22.0	135	200	22
	221-240	22.1-24.0	140	200	24
	241-250	24.1-25.0	140	200	25

WORKPIECE MATERIAL											
Carbon Steel	Alloy Steel	Prehardening Steel / Hardened Steel				Stainless Steel	Cast Iron	Cooper Alloy	Aluminum Alloy	Titanium Alloy	Heat Resistant Alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
◎	◎	◎	◎			◎	◎				

◎ Very Suitable ○ Suitable

CUTTING PARAMETERS – HRC45 4F SQUARE END MILLS

WORKPIECE MATERIAL	STEEL / ALLOY STEEL / CAST IRON		PRE-HARDEN STEEL		STAINLESS STEEL	
HARDNESS	<30HRC		<35–48HRC		<25–35HRC	
CUTTING DEPTH	Side Milling: $ap \leq 1.5D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.3D$ $ae \leq 1.0D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.3D$ $ae \leq 1.0D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.3D$ $ae \leq 1.0D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	14000	680	10600	470	7500	110
4MM	10800	700	8000	480	5500	115
6MM	7000	750	5300	515	3700	120
8MM	5200	750	4000	510	2800	120
10MM	4200	730	3200	505	2200	120
12MM	3500	730	2650	505	1850	120
16MM	2600	680	2300	470	1400	115
20MM	2100	670	1600	460	1100	95

CUTTING PARAMETERS – HRC55 4F SQUARE END MILLS

WORKPIECE MATERIAL	STEEL / ALLOY STEEL / CAST IRON		PRE-HARDEN STEEL		STAINLESS STEEL	
HARDNESS	<30HRC		<35–48HRC		<25–35HRC	
CUTTING DEPTH	Side Milling: $ap \leq 1.5D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.3D$ $ae \leq 1.0D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.3D$ $ae \leq 1.0D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.3D$ $ae \leq 1.0D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	14000	680	13000	630	7500	120
4MM	10800	700	10000	640	5500	125
6MM	7000	750	6400	690	3700	135
8MM	5200	750	4800	680	2800	135
10MM	4200	730	3800	670	2200	135
12MM	3500	730	3200	670	1850	135
16MM	2600	680	2400	630	1400	120
20MM	2100	670	1900	620	1100	105

CUTTING PARAMETERS – HRC65 4F SQUARE END MILLS

WORKPIECE MATERIAL	PRE-HARDEN STEEL		HARDENED STEEL		HARDENED STEEL	
HARDNESS	35-48HRC		48-52HRC		48-60HRC	
CUTTING DEPTH	Side Milling: $ap \leq 1.5D$ $ae \leq 0.1D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.05D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.03D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	10600	565	8500	370	7430	325
4MM	8000	575	6500	380	5570	335
6MM	5300	620	4200	405	3710	350
8MM	4000	615	3200	415	2785	365
10MM	3200	605	2500	390	2230	340
12MM	2650	605	2100	390	1855	340
16MM	2300	565	1800	370	1590	325
20MM	1600	555	1250	365	1115	315

CUTTING PARAMETERS – END MILLS FOR ALUMINUM

WORKPIECE MATERIAL	FORGED ALUMINUM / CAST ALUMINUM		COPPER ALLOY	
	Si < 12%		HB<200	
CUTTING DEPTH	Side Milling: $ap \leq 1D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.5D$ $ae \leq 1.0D$		Side Milling: $ap \leq 1D$ $ae \leq 0.1D$ Slot Milling: $ap \leq 0.5D$ $ae \leq 1.0D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	8890	630	8890	630
4MM	8400	1001	8400	1001
6MM	7420	1071	7420	1071
8MM	7000	1169	7000	1169
10MM	6650	1435	6650	1435
12MM	6496	1960	6496	1960
16MM	3220	1120	3220	1120
20MM	2240	1120	2240	1120

CUTTING PARAMETERS – HRC45 BALL NOSE 2F END MILLS

WORKPIECE MATERIAL	STEEL / ALLOY STEEL / CAST IRON		ALUMINUM ALLOY / COPPER ALLOY	
HARDNESS	<30HRC			
CUTTING DEPTH	$a_p \leq 0.1D$ $a_e \leq 0.04D$		$a_p \leq 0.2D$ $a_e \leq 0.4D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	15500	950	15500	950
4MM	11500	950	11500	950
6MM	8000	1050	8000	1050
8MM	6000	1300	6000	1300
10MM	4800	1200	4800	1200
12MM	4000	1100	4000	1100
16MM	3000	1050	3000	1050
20MM	2400	950	2400	950

CUTTING PARAMETERS – HRC55 BALL NOSE 2F END MILLS

WORKPIECE MATERIAL	STEEL / ALLOY STEEL / CAST IRON		PRE-HARDEN STEEL		STAINLESS STEEL		ALUMINUM ALLOY / COPPER ALLOY	
HARDNESS	<30HRC		35–48HRC		25–35HRC			
CUTTING DEPTH	$a_p \leq 0.1D$ $a_e \leq 0.04D$		$a_p \leq 0.1D$ $a_e \leq 0.04D$		$a_p \leq 0.1D$ $a_e \leq 0.04D$		$a_p \leq 0.2D$ $a_e \leq 0.04D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	15500	950	10600	450	7400	290	15500	950
4MM	11500	950	8000	550	5500	370	11500	950
6MM	8000	1050	5300	580	3700	390	8000	1050
8MM	6000	1300	4000	700	2750	455	6000	1300
10MM	4800	1200	3200	650	2200	430	4800	1200
12MM	4000	1100	2650	610	1850	430	4000	1100
16MM	3000	1050	2300	600	1350	380	3000	1050
20MM	2400	950	1600	560	1100	370	2400	950

CUTTING PARAMETERS – HRC65 BALL NOSE 2F END MILLS

WORKPIECE MATERIAL	PRE-HARDEN STEEL		HARDENED STEEL		HARDENED STEEL	
HARDNESS	35-48HRC		45-52HRC		52-62HRC	
CUTTING DEPTH	$ap \leq 0.1D$ $ae \leq 0.04D$		$ap \leq 0.1D$ $ae \leq 0.04D$		$ap \leq 0.05D$ $ae \leq 0.02D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	10600	450	7430	295	12600	950
4MM	8000	550	5570	385	6300	1010
6MM	5300	580	3710	420	4200	1010
8MM	4000	700	2785	465	3050	970
10MM	3200	650	2230	465	2520	970
12MM	2650	610	1855	450	2210	950
16MM	2300	600	1590	395	1850	430
20MM	1600	560	1115	360	1100	370

CUTTING PARAMETERS – U-GROOVE END MILLS FOR ALUMINUM

WORKPIECE MATERIAL	FORGED ALUMINUM / CAST ALUMINUM		COPPER ALLOY	
	Si < 12%		HB<200	
CUTTING DEPTH	Side Milling: $ap \leq 1D$ $ae \leq 0.15D$ Slot Milling: $ap \leq 0.5D$ $ae \leq 1.0D$		Side Milling: $ap \leq 1D$ $ae \leq 0.15D$ Slot Milling: $ap \leq 0.5D$ $ae \leq 1.0D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	12700	900	12700	900
4MM	12000	1430	12000	1430
6MM	10600	1530	10600	1530
8MM	10000	1670	10000	1670
10MM	9500	2050	9500	2050
12MM	9280	2800	9280	2800
16MM	4600	1600	4600	1600
20MM	3200	1600	3200	1600

CUTTING PARAMETERS – U-GROOVE UNEQUAL HELIX END MILLS FOR STEEL

WORKPIECE MATERIAL	STEEL / ALLOY STEEL / CAST IRON		PRE-HARDEN STEEL		STAINLESS STEEL	
HARDNESS	<20–30HRC		<35–48HRC		<25–35HRC	
CUTTING DEPTH	Side Milling: $ap \leq 1.5D$ $ae \leq 0.15D$ Slot Milling: $ap \leq 1D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.15D$ Slot Milling: $ap \leq 0.5D$		Side Milling: $ap \leq 1.5D$ $ae \leq 0.15D$ Slot Milling: $ap \leq 0.3D$	
DIAMETER	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)	R.P.M	FEED(MM/MIN)
3MM	22290	2850	16710	1800	16710	2200
4MM	16700	2740	12530	1650	12530	1850
6MM	11150	2360	8350	1500	8350	1600
8MM	8350	2340	6260	1620	6260	1700
10MM	6680	2270	5010	1470	5010	1580
12MM	5570	2220	4170	1300	4170	1500
16MM	4170	2080	3130	1070	3130	1240
20MM	3340	2070	2500	950	2500	1150

CUTTING PARAMETERS – 3D CARBIDE DRILLS

WORKPIECE MATERIAL	Vc(m/min)	Fn(mm/rev)					
		3MM	4MM	6MM	8MM	10MM	12MM
LOW CARBON STEELS125HB	50–120	0.10–0.20	0.10–0.20	0.15–0.25	0.16–0.32	0.16–0.32	0.18–0.40
MEDIUM CARBON STEEL $\leq 25HRC$	45–120	0.10–0.20	0.10–0.20	0.15–0.25	0.16–0.32	0.16–0.32	0.18–0.40
ALLOY STEEL $\leq 35HRC$	45–120	0.09–0.16	0.09–0.16	0.12–0.23	0.14–0.28	0.14–0.30	0.15–0.34
ALLOY STEEL 35–45HRC	35–80	0.08–0.14	0.08–0.14	0.08–0.20	0.09–0.25	0.09–0.28	0.11–0.30
MARTENSITIC STEEL $\leq 35HRC$	30–70	0.05–0.11	0.05–0.11	0.07–0.17	0.08–0.20	0.08–0.23	0.10–0.28
MARTENSITIC STEEL 35–48HRC	25–70	0.04–0.08	0.04–0.08	0.06–0.14	0.08–0.18	0.08–0.20	0.10–0.28
AUSTENITIC STAINLESS STEEL 130–200HB	40–60	0.04–0.08	0.04–0.08	0.06–0.12	0.06–0.12	0.08–0.16	0.10–0.24
DUPLEX STAINLESS STEEL $\leq 30HRC$	30–50	0.04–0.08	0.04–0.08	0.06–0.10	0.06–0.10	0.08–0.12	Q 0.10–0.20
GRAY CAST IRON $\leq 32HRC$	60–140	0.13–0.20	0.13–0.20	0.17–0.30	0.20–0.35	0.23–0.40	0.25–0.45
NODULAR CAST IRON $\leq 28HRC$	60–120	0.11–0.18	0.11–0.18	0.15–0.25	0.17–0.32	0.20–0.36	0.22–0.42
NODULAR CAST IRON 28–45HRC	50–100	0.06–0.11	0.06–0.11	0.10–0.16	0.12–0.20	0.16–0.28	0.16–0.28

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