

PRONIXT

PRECISION TOOLING SOLUTIONS

Exchangeable Tip Drills

ABOUT

PRONIXT

PRONIXT was built upon practical machining experience and a long-term collaboration with **D-Well Precision Co., Ltd.** in Taiwan.

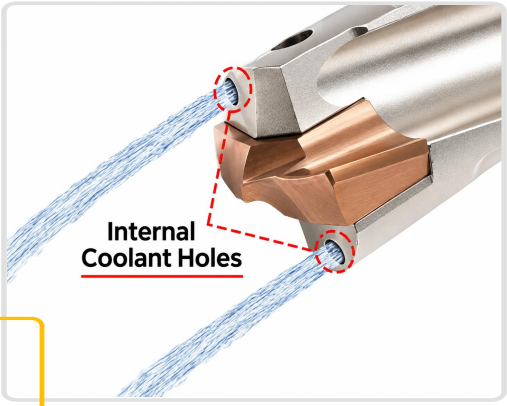
Established in 2021, **D-Well** specializes in precision prototype machining and low-volume production. It also serves as a technical platform for tool trials, application testing, and machining feedback.

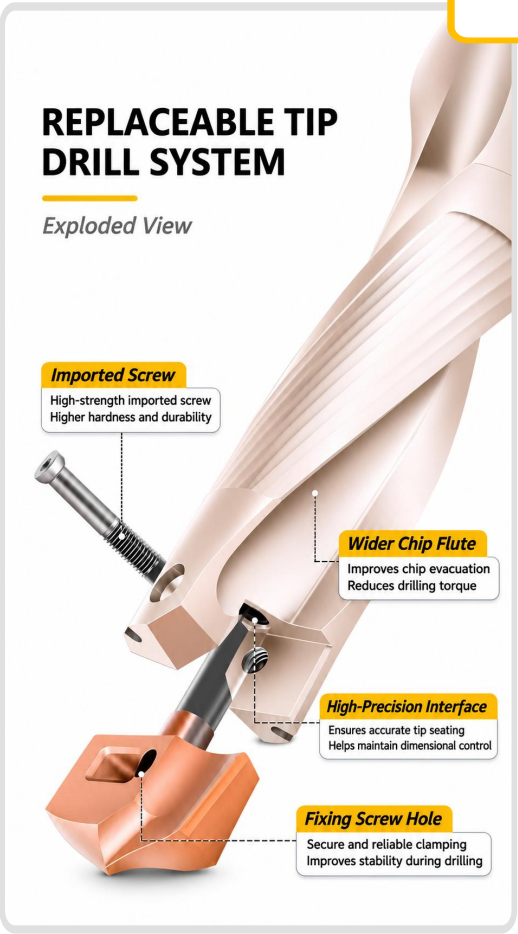
In 2026, **PRONIXT** was established in Shenzhen based on technical discussions and practical machining experience gained through this collaboration.

Today, **PRONIXT** focuses on collets, guide bushes, rotary broaching tools, and customized tooling solutions for global customers.









PRECISION

High accuracy manufacturing with tight tolerance control.

QUALITY

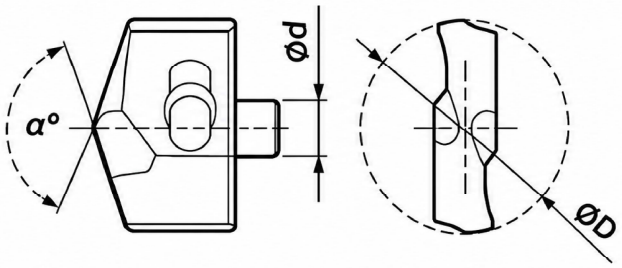
Stable quality ensures consistent performance.

TESTING

Practical machining tests for reliable tooling verification.

CUSTOMIZATION

Custom solutions to meet specific machining needs.



Model	Drill Tip Diameter	Workpiece Material
HCD	10.5	P01 / M06 / P05
Model Code	Drill Tip Dia. (ØD)	Material Selection

P01	P01 – General-purpose
M06	M06 – For stainless steel
P05	P05 – Chip-breaker for low-carbon steel

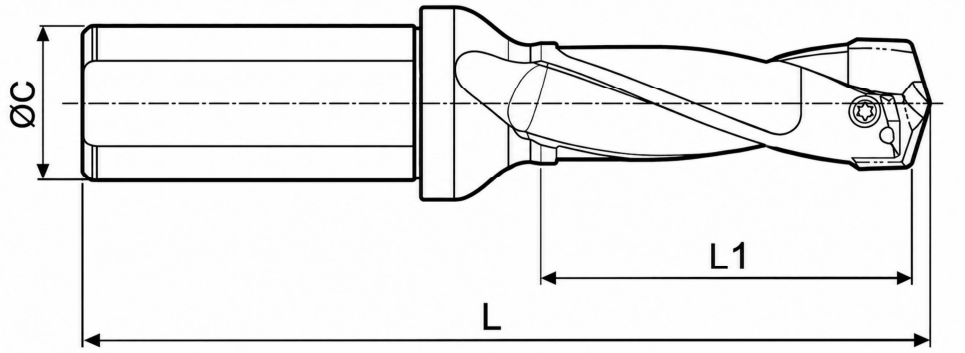
Replaceable Drill Tips – HCD Series

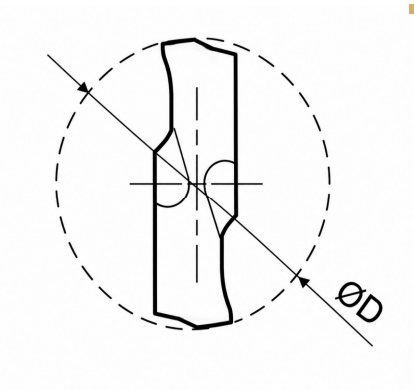
Unit: mm

Order No.	ØD	Ød	α (°)	Workpiece Materials
HCD-10.0~10.9	10.0~10.9	3.0	138	P01 / M06 / P05
HCD-11.0~11.9	11.0~11.9	3.0	138	P01 / M06 / P05
HCD-12.0~12.9	12.0~12.9	3.0	140	P01 / M06 / P05
HCD-13.0~13.9	13.0~13.9	3.5	140	P01 / M06 / P05
HCD-14.0~14.9	14.0~14.9	3.5	140	P01 / M06 / P05
HCD-15.0~15.9	15.0~15.9	3.5	140	P01 / M06 / P05
HCD-16.0~16.9	16.0~16.9	4.2	140	P01 / M06 / P05
HCD-17.0~17.9	17.0~17.9	4.2	140	P01 / M06 / P05
HCD-18.0~18.9	18.0~18.9	4.5	140	P01 / M06 / P05
HCD-19.0~19.9	19.0~19.9	4.5	140	P01 / M06 / P05
HCD-20.0~20.9	20.0~20.9	5.0	140	P01 / M06 / P05
HCD-21.0~21.9	21.0~21.9	5.0	140	P01 / M06 / P05
HCD-22.0~22.9	22.0~22.9	5.0	140	P01 / M06 / P05
HCD-23.0~23.9	23.0~23.9	5.0	140	P01 / M06 / P05
HCD-24.0~24.9	24.0~24.9	5.5	140	P01 / M06 / P05
HCD-25.0~25.9	25.0~25.9	5.5	140	P01 / M06 / P05
HCD-26.0	26.0	5.5	140	P01 / M06 / P05
HCD-26.5	26.5	5.5	140	P01 / M06 / P05
HCD-27.0	27.0	5.5	140	P01 / M06 / P05
HCD-27.5	27.5	5.5	140	P01 / M06 / P05
HCD-28.0	28.0	6.0	140	P01 / M06 / P05

Tip Type	Recommended Materials	Typical Material Grades
P01	General-purpose carbon and alloy steels	AISI 1045, AISI 4140 (Annealed)
M06	Stainless steels	AISI 304, AISI 316
P05	Low-carbon steels, chip-breaker design	AISI 1018, AISI 1020

Note: Material grades are for reference. Actual suitability depends on material condition and cutting conditions.

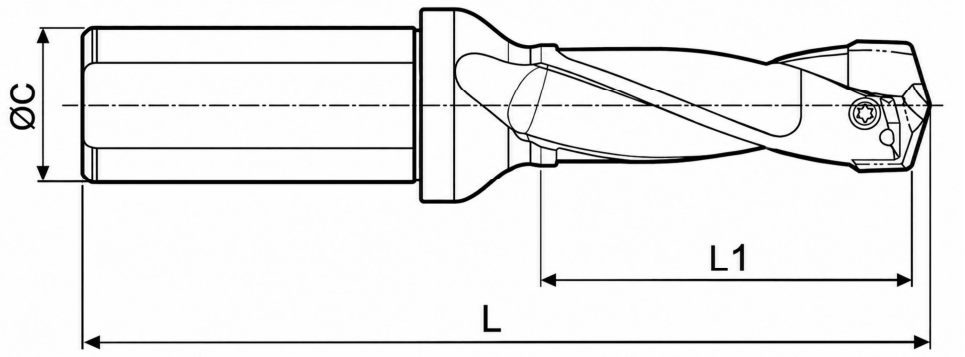


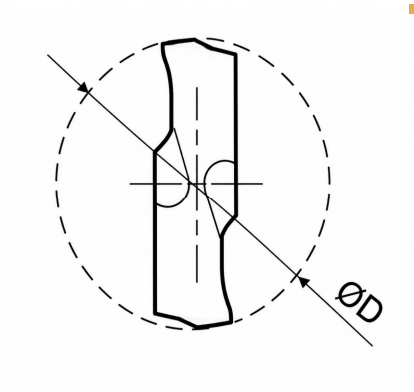


Replaceable Tip Drill Body – 3×D

Unit: mm

Order No.	ØD	L1	ØC	L	Screw
C20-100-3xD	10.0~10.9	30	20	80	CM2.2*9
C20-110-3xD	11.0~11.9	33	20	83	CM2.2*9
C20-120-3xD	12.0~12.9	36	20	86	CM2.2*9
C20-130-3xD	13.0~13.9	39	20	89	CM2.5*12
C20-140-3xD	14.0~14.9	42	20	92	CM2.5*12
C20-150-3xD	15.0~15.9	45	20	95	CM2.5*12
C20-160-3xD	16.0~16.9	48	20	98	CM2.5*14.2
C20-170-3xD	17.0~17.9	51	20	101	CM2.5*14.2
C20-180-3xD	18.0~18.9	54	20	104	CM3*16.5
C25-190-3xD	19.0~19.9	57	25	113	CM3*16.5
C25-200-3xD	20.0~20.9	60	25	116	CM3*16.5
C25-210-3xD	21.0~21.9	63	25	119	CM3*19.7
C25-220-3xD	22.0~22.9	66	25	122	CM3*19.7
C25-230-3xD	23.0~23.9	69	25	125	CM3*19.7
C32-240-3xD	24.0~24.9	72	32	132	CM3.5*22.5
C32-250-3xD	25.0~25.9	75	32	135	CM3.5*22.5
C32-260-3xD	26.0~26.9	78	32	138	CM3.5*24
C32-270-3xD	27.0~27.9	81	32	141	CM3.5*24
C32-280-3xD	28.0~28.9	84	32	144	CM4*25.5

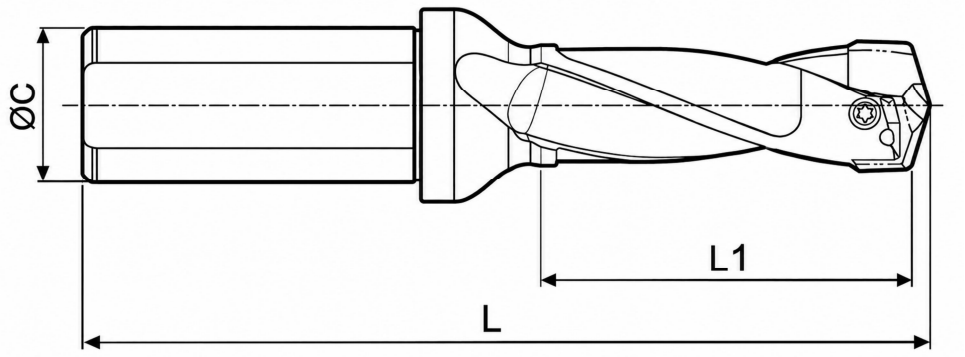


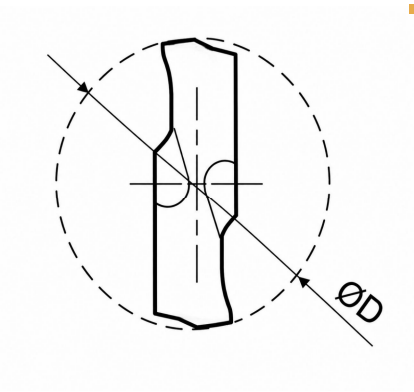


Replaceable Tip Drill Body – 5×D

Unit: mm

Order No.	ØD	L1	ØC	L	Screw
C20-100-5xD	10.0~10.9	50	20	100	CM2.2*9
C20-110-5xD	11.0~11.9	55	20	105	CM2.2*9
C20-120-5xD	12.0~12.9	60	20	110	CM2.2*9
C20-130-5xD	13.0~13.9	65	20	115	CM2.5*12
C20-140-5xD	14.0~14.9	70	20	120	CM2.5*12
C20-150-5xD	15.0~15.9	75	20	125	CM2.5*12
C20-160-5xD	16.0~16.9	80	20	130	CM2.5*14.2
C20-170-5xD	17.0~17.9	85	20	135	CM2.5*14.2
C20-180-5xD	18.0~18.9	90	20	140	CM3*16.5
C25-190-5xD	19.0~19.9	95	25	151	CM3*16.5
C25-200-5xD	20.0~20.9	100	25	156	CM3*16.5
C25-210-5xD	21.0~21.9	105	25	161	CM3*19.7
C25-220-5xD	22.0~22.9	110	25	166	CM3*19.7
C25-230-5xD	23.0~23.9	115	25	171	CM3*19.7
C32-240-5xD	24.0~24.9	120	32	180	CM3.5*22.5
C32-250-5xD	25.0~25.9	125	32	185	CM3.5*22.5
C32-260-5xD	26.0~26.9	130	32	190	CM3.5*24
C32-270-5xD	27.0~27.9	135	32	195	CM3.5*24
C32-280-5xD	28.0~28.9	140	32	200	CM4*25.5





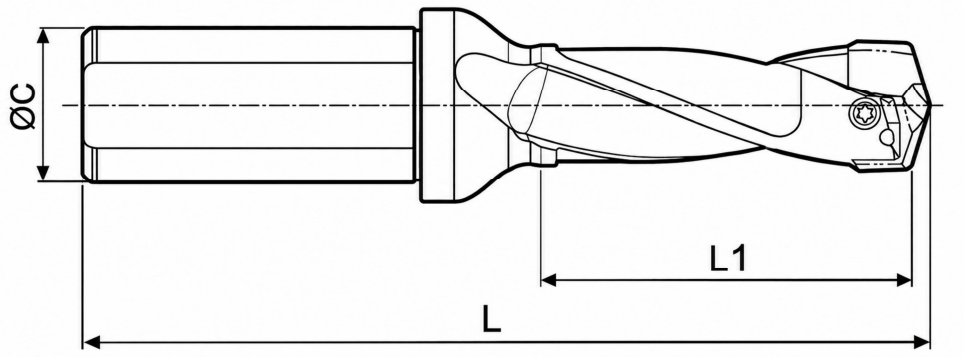
Replaceable Tip Drill Body – 8×D

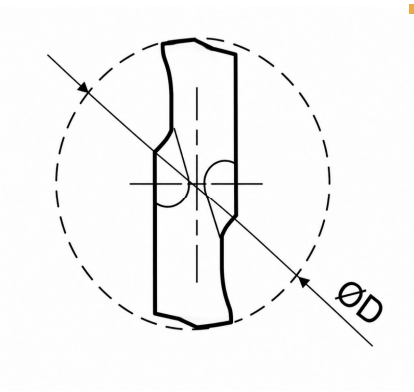
Unit: mm

Order No.	ØD	L1	ØC	L	Screw
C20-100-8xD	10.0~10.9	80	20	130	CM2.2*9
C20-110-8xD	11.0~11.9	88	20	138	CM2.2*9
C20-120-8xD	12.0~12.9	96	20	146	CM2.2*9
C20-130-8xD	13.0~13.9	104	20	154	CM2.5*12
C20-140-8xD	14.0~14.9	112	20	162	CM2.5*12
C20-150-8xD	15.0~15.9	120	20	170	CM2.5*12
C20-160-8xD	16.0~16.9	128	20	178	CM2.5*14.2
C20-170-8xD	17.0~17.9	136	20	186	CM2.5*14.2
C20-180-8xD	18.0~18.9	144	20	194	CM3*16.5
C25-190-8xD	19.0~19.9	152	25	208	CM3*16.5
C25-200-8xD	20.0~20.9	160	25	216	CM3*16.5
C25-210-8xD	21.0~21.9	168	25	224	CM3*19.7
C25-220-8xD	22.0~22.9	176	25	232	CM3*19.7
C25-230-8xD	23.0~23.9	184	25	240	CM3*19.7
C32-240-8xD	24.0~24.9	192	32	248	CM3.5*22.5
C32-250-8xD	25.0~25.9	200	32	256	CM3.5*22.5
C32-260-8xD	26.0~26.9	208	32	304	CM3.5*24
C32-270-8xD	27.0~27.9	216	32	312	CM3.5*24
C32-280-8xD	28.0~28.9	224	32	320	CM4*25.5

Note:

For drilling diameters below Ø15 mm, pilot drilling is required.
Reduce the feed per revolution (fn) by approximately 10%.





Replaceable Tip Drill Body – 10×D

Unit: mm

Order No.	ØD	L1	ØC	L	Screw
C20-100-10xD	10.0~10.9	100	20	170	CM2.2*9
C20-110-10xD	11.0~11.9	110	20	180	CM2.2*9
C20-120-10xD	12.0~12.9	120	20	193	CM2.2*9
C20-130-10xD	13.0~13.9	130	20	203	CM2.5*12
C20-140-10xD	14.0~14.9	140	20	214	CM2.5*12
C20-150-10xD	15.0~15.9	150	20	224	CM2.5*12
C20-160-10xD	16.0~16.9	160	20	234	CM2.5*14.2
C20-170-10xD	17.0~17.9	170	20	244	CM2.5*14.2
C20-180-10xD	18.0~18.9	180	20	254	CM3*16.5
C25-190-10xD	19.0~19.9	190	25	275	CM3*16.5
C25-200-10xD	20.0~20.9	200	25	285	CM3*16.5
C25-210-10xD	21.0~21.9	210	25	295	CM3*19.7
C25-220-10xD	22.0~22.9	220	25	305	CM3*19.7
C25-230-10xD	23.0~23.9	230	25	315	CM3*19.7
C32-240-10xD	24.0~24.9	240	32	336	CM3.5*22.5
C32-250-10xD	25.0~25.9	250	32	346	CM3.5*22.5
C32-260-10xD	26.0~26.9	260	32	356	CM3.5*24
C32-270-10xD	27.0~27.9	270	32	366	CM3.5*24
C32-280-10xD	28.0~28.9	280	32	376	CM4*25.5

Note:

Pilot drilling is required for all drilling diameters.

Reduce the feed per revolution (fn) by approximately 10%.

Crown Drill – Cutting Parameters & Performance



Recommended Cutting Parameters

Model No.	Low-Carbon Steel		Medium-Carbon / Alloy Steel	
	Vc (m/min)	f (mm/rev)	Vc (m/min)	f (mm/rev)
CD 100–129	80–100	0.10–0.15	90–110	0.15–0.20
CD 130–149	80–100	0.10–0.18	90–110	0.15–0.20
CD 150–189	90–110	0.10–0.20	90–120	0.15–0.25
CD 190–239	90–110	0.10–0.20	90–120	0.15–0.25
CD 240–279	90–110	0.12–0.20	90–120	0.15–0.30
CD 280–320	80–100	0.12–0.20	90–110	0.15–0.30

Model No.	Prehardened Steel (≤ HRC 35)		Stainless Steel	
	Vc (m/min)	f (mm/rev)	Vc (m/min)	f (mm/rev)
CD 100–129	70–90	0.12–0.20	80–100	0.10–0.15
CD 130–149	70–90	0.12–0.20	80–100	0.10–0.18
CD 150–189	75–100	0.15–0.25	90–110	0.10–0.20
CD 190–239	75–100	0.15–0.25	90–110	0.10–0.20
CD 240–279	75–100	0.15–0.25	90–110	0.12–0.20
CD 280–320	70–90	0.15–0.25	80–100	0.12–0.20

Note: Cutting parameters are recommended starting values and should be adjusted according to workpiece material, machine rigidity, and machining conditions.

PRONIXT

PRECISION TOOLING SOLUTIONS

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