

CUTTING TOOLS

COUNTERSINK

COUNTERSINK

(Straight Shank)

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(Taper Shank)

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COUNTERSINKS

เคาน์เตอร์ซิงค์

STRAIGHT SHANK
เคาน์เตอร์ซิงค์ตามตรง

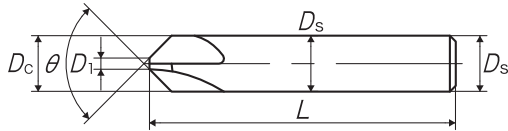


ดอกขยายปากรู 90° และ 60° ใช้กับเครื่องเจาะ

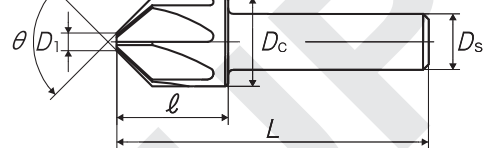
CS-QM - Countersink 60° and 90°, Drilling Machine Use



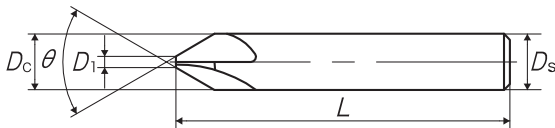
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ประเภท : 1



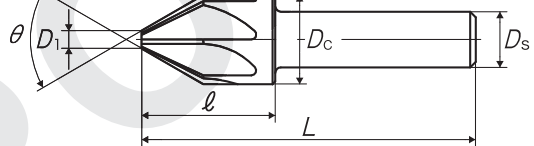
TYPE : 2
ประเภท : 2



TYPE : 3
ประเภท : 3



TYPE : 4
ประเภท : 4



HSS

■ CS-QM is suitable for the machining of high accuracy on the beveling of round hole and on the beveling of attaching face of screw bolts. Having plural cutting edges, this tool is suitable for drilling machine use.

■ CS-QM เหมาะสำหรับเครื่องจักรที่มีความแม่นยำสูงในการทำแชนเฟอร์ของรู เพื่อให้ฝังงูได้อย่างเหมาะสม, มีคมตัด 1 ฟัน เหมาะสำหรับเครื่องจักรเจาะ มีคมตัดหลายฟัน

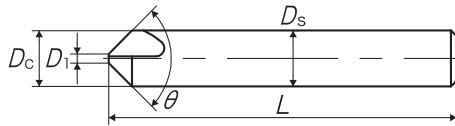
Size / ขนาด Dc × θ × Ds	Code รหัส	Ds (mm)	D1 (mm)	L (mm)	l (mm)	No. of flutes จำนวนฟัน	Type ประเภท	Stock สต็อก
6 x 90° x 6	CS6.0QM9	6	1.2	42	-	3	1	○
8 x 90° x 8	CS8.0QM9	8	1.6	44	-	3	1	○
10 x 90° x 8	CS010QM9	8	2	46	14	3	2	○
12 x 90° x 8	CS012QM9	8	2.5	48	16	5	2	○
16 x 90° x 10	CS016QM9	10	3.2	56	20	5	2	○
20 x 90° x 10	CS020QM9	10	4	60	24	5	2	○
25 x 90° x 10	CS025QM9	10	7	65	29	7	2	○
30 x 90° x 12	CS030QM9	12	9	68	32	7	2	○
35 x 90° x 12	CS035QM9	12	11	70	34	7	2	○
40 x 90° x 12	CS040QM9	12	12.5	71	35	7	2	○
6 x 60° x 6	CS6.0QM6	6	1.2	46	-	3	3	△
8 x 60° x 8	CS8.0QM6	8	1.6	48	-	3	3	○
10 x 60° x 8	CS010QM6	8	2	50	18	3	4	△
12 x 60° x 8	CS012QM6	8	2.5	52	20	5	4	△
16 x 60° x 10	CS016QM6	10	3.2	60	24	5	4	○
20 x 60° x 10	CS020QM6	10	4	64	28	5	4	○
25 x 60° x 10	CS025QM6	10	7	69	33	7	4	○
30 x 60° x 12	CS030QM6	12	9	76	40	7	4	△
35 x 60° x 12	CS035QM6	12	11	79	43	7	4	△
40 x 60° x 12	CS040QM6	12	12.5	81	45	7	4	△

ดอกขยายปากกรู 90°, ใช้กับเครื่องจักร

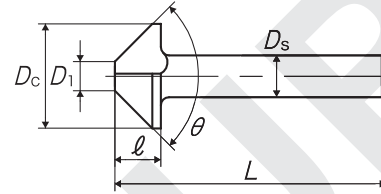
CS-Q - Countersink 90°, Machining Center Use



TYPE : 1
ประเภท : 1



TYPE : 2
ประเภท : 2



■ CS-Q is suitable for the machining of high accuracy on the beveling of round hole and on the beveling of attaching face of screw bolts. Having one cutting edge, this tool is suitable for machining center use.

■ CS-Q เหมาะสำหรับเครื่องจักรที่มีความแม่นยำสูงในการทำคมเฟอร์ของรู เพื่อให้ฝังสกรูได้อย่างเหมาะสม, มีคมตัด 1 ฟัน เหมาะสำหรับเครื่องจักร machining center

Size / ขนาด Dc x θ x Ds	Code รหัส	Ds (mm)	D1 (mm)	L (mm)	l (mm)	No. of flutes จำนวนฟัน	Type ประเภท	Stock สต็อก
4 x 90° x 4	CS4.0Q	4	0.6	50	-	1	1	△
6 x 90° x 6	CS6.0Q	6	1	50	-	1	1	○
8 x 90° x 8	CS8.0Q	8	1.3	50	-	1	1	○
10 x 90° x 8	CS010Q	8	1.6	46	5.5	1	2	○
15 x 90° x 10	CS015Q	10	3.2	56	7.5	1	2	○
20 x 90° x 10	CS020Q	10	4	60	10	1	2	○
25 x 90° x 10	CS025Q	10	7	65	11	1	2	○
30 x 90° x 12	CS030Q	12	9	70	12.5	1	2	○
35 x 90° x 12	CS035Q	12	11	75	15	1	2	○
40 x 90° x 12	CS040Q	12	12.5	80	17	1	2	○
45 x 90° x 12	CS045Q	12	14	85	18.5	1	2	○
50 x 90° x 12	CS050Q	12	16	90	20	1	2	○
60 x 90° x 16	CS060Q	16	20	100	24	1	2	○

COUNTERSINKS

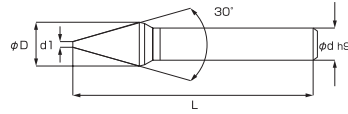
เคาน์เตอร์ซิงค์

STRAIGHT SHANK
เคาน์เตอร์ซิงค์ตามตรง

PROCHI

ดอกขยายปากกรู 30° - 3 ฟัน

COUNTERSINK 30° - 3 Flutes



HSS

ไฮสปีด

Non Coated

30 degrees, 3 flutes (HSS)
Applications: countersinking works

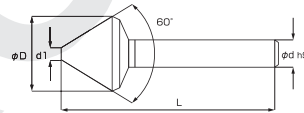
TiN Coated

TiAlN Coated

Order No.	Ø D (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-3063	6.3	2.0	50	5
PRC-30124	12.4	3.0	65	8
PRC-30165	16.5	4.0	76	10
PRC-30205	20.5	5.0	83	10
PRC-30250	25.5	6.0	90	10
PRC-30310	31.0	9.0	98	12

ดอกขยายปากกรู 60° 3 ฟัน

COUNTERSINK 60° - 3FLUTES

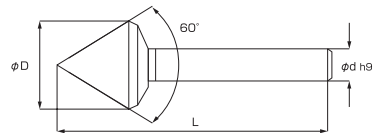


60 degrees, 3 flutes (HSS)
Applications: for chamfering works

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-6063	6.3	1.6	45	5
PRC-6080	8.0	2.0	50	6
PRC-60100	10.0	2.5	50	6
PRC-60125	12.5	3.2	56	8
PRC-60160	16.0	4.0	63	10
PRC-60200	20.0	5.0	67	10
PRC-60250	25.0	6.3	71	10

ดอกขยายปากกรู 60°

COUNTERSINK 60° (SINGLE-FLUTE)

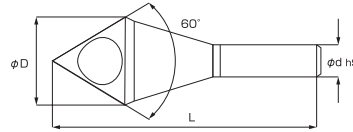


60 degrees, single-flute (HSS) for bench drills
Applications: for chamfering works

Order No.	Ø D (mm)	Ø Size	L (mm)	Ødh9 (mm)
PRC-60500	5	1 ~ 5	50	5
PRC-601000	10	1 ~ 10	60	10
PRC-601500	15	2 ~ 15	65	10
PRC-602000	20	2 ~ 20	73	10
PRC-603000	30	3 ~ 30	82	12
PRC-604000	40	3 ~ 40	92	15
PRC-605000	50	3 ~ 50	100	15

ดอกขยายปากกรู 60°

COUNTERSINK 60° With Hole



60 degrees, with Hole (HSS) for bench drills
Applications: for chamfering works

Order No.	Ø D (mm)	Ø Size	L (mm)	Ødh9 (mm)
PRC-60100H	10	2 ~ 5	50	6
PRC-60140H	14	5 ~ 10	63	6
PRC-60210H	21	10 ~ 5	80	10
PRC-60280H	28	15 ~ 20	100	12
PRC-60350H	35	20 ~ 25	125	15

HSS

ไฮสปีด

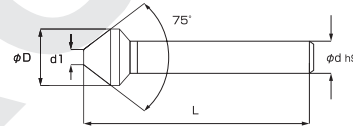
Non Coated

TIN Coated

TiAIN Coated

ดอกขยายปากกรู 75° 3ฟัน

COUNTERSINK 75°, 3Flutes

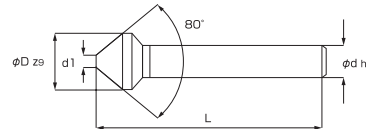


75 degrees, 3 flutes (HSS)
Applications: for chamfering works

Order No.	Ø D (mm)	Ø Size	L (mm)	Ødh9 (mm)
PRC-7580	8.0	2.0	50	6
PRC-75100	10.0	2.5	54	6
PRC-75125	12.5	2.8	54	8
PRC-75150	15.0	3.2	56	8
PRC-75200	20.0	3.5	63	10
PRC-75250	25.0	3.8	71	10

ดอกขยายปากกรู 80° 3ฟัน

COUNTERSINK 80°, 3Flutes



80 degrees, 3 flutes (HSS)
Applications: for chamfering works, countersinking works and expanding holes

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-8060	6.0	1.5	45	5
PRC-8080	8.0	2.0	50	6
PRC-80100	10.0	2.5	50	6
PRC-80134	13.4	2.9	56	8
PRC-80165	16.5	3.2	60	10
PRC-80205	20.5	3.5	63	10

COUNTERSINKS

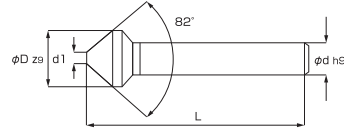
เคาน์เตอร์ซิงค์

STRAIGHT SHANK
เคาน์เตอร์ซิงค์ตามตรง

PROCHI

ดอกขยายปากกรู 82° 3ฟัน

COUNTERSINK 82°, 3Flutes



HSS

ไฮสปีด

Non Coated

TIN Coated

TiAlN Coated

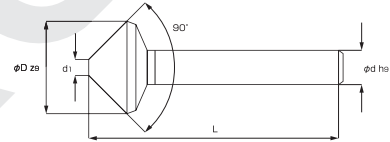
82 degrees, 3 flutes (HSS)

Applications: for chamfering works, countersinking works and expanding hol

Order No.	ϕD_{z9} (mm)	d_1 (mm)	L (mm)	ϕd_{h9} (mm)
PRC-8263	6.3	1.5	45	5
PRC-8283	8.3	2.0	50	6
PRC-82104	10.4	2.5	50	6
PRC-82124	12.4	2.9	56	8
PRC-82165	16.5	3.2	60	10
PRC-82205	20.5	3.5	63	10
PRC-82250	25.0	3.8	67	10

ดอกขยายปากกรู 90° 3ฟัน

COUNTERSINK 90°, 3 FLUTES



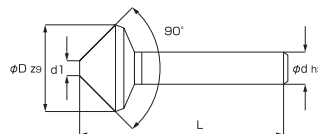
90 degrees, 3 flutes (HSS)

Applications : for chamfering works, countersinking works and expanding holes

Order No.	ϕD_{z9} (mm)	d_1 (mm)	L (mm)	ϕd_{h9} (mm)
PRC-9040	4.0	1.2	40	4
PRC-9043	4.3	1.5	40	4
PRC-9050	5.0	1.5	40	4
PRC-9053	5.3	1.5	40	4
PRC-9058	5.8	1.5	45	5
PRC-9060	6.0	1.5	45	5
PRC-9063	6.3	1.5	45	5
PRC-9070	7.0	1.8	50	6
PRC-9073	7.3	1.8	50	6
PRC-9080	8.0	2.0	50	6
PRC-9083	8.3	2.0	50	6
PRC-9094	9.4	2.2	50	6
PRC-90100	10.0	2.5	50	6
PRC-90104	10.4	2.5	50	6
PRC-90115	11.5	2.8	56	8
PRC-90124	12.4	2.8	56	8
PRC-90134	13.4	2.9	56	8
PRC-90144	14.4	2.0	60	8
PRC-90150	15.0	3.2	60	10
PRC-90165	16.5	3.2	60	8
PRC-90190	19.0	3.5	63	10
PRC-90205	20.5	3.5	63	10
PRC-90230	23.0	3.8	67	10
PRC-90250	25.0	3.8	67	10
PRC-90260	26.0	3.8	67	10
PRC-90280	28.0	4.0	71	12
PRC-90300	30.0	4.2	71	12
PRC-90310	31.0	4.2	71	12
PRC-90340	34.0	4.5	71	12
PRC-90370	37.0	4.5	71	12
PRC-90400	40.0	10.0	75	12
PRC-90450	45.0	4.5	98	12

ดอกขยายปากกรู 90° 3 ฟัน

COUNTERSINK 90°, 3 FLUTES



90 degrees., 3 flutes (HSS) for countersinking works / non-ferrous metal (brass, copper, aluminum etc.)
Application : countersinking works

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-S9060	6.0	1.5	45	5
PRC-S9063	6.3	1.5	45	5
PRC-S9073	7.3	1.8	50	6
PRC-S9080	8.0	2.0	50	6
PRC-S9083	8.3	2.0	50	6
PRC-S90100	10.0	2.5	50	6
PRC-S90104	10.4	2.5	50	6
PRC-S90115	11.5	2.8	56	8
PRC-S90124	12.4	2.8	56	8
PRC-S90150	15.0	3.2	60	10
PRC-S90165	16.5	3.2	60	10
PRC-S90190	19.0	3.5	63	10
PRC-S90205	20.5	3.5	63	10
PRC-S90230	23.0	3.8	67	10
PRC-S90250	25.0	3.8	67	10
PRC-S90310	31.0	4.2	71	12

HSS

ไฮสปีด

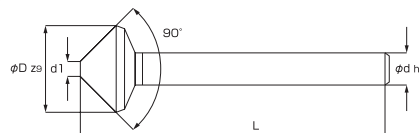
Non Coated

TIN Coated

TiAIN Coated

ดอกขยายปากกรู 90° 3 ฟัน ก้านยาว

COUNTERSINK 90°, 3 FLUTES - LONG SHANK



90 degrees, 3 flutes (HSS), Long Shank
Applications : for chamfering works, countersinking works and expanding holes

Order No.	Ø Dz9 (mm)	Size	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-9063L	6.3	M3	1.5	104	5
PRC-9083L	8.3	M4	2.0	105	6
PRC-90104L	10.4	M5	2.5	107	6
PRC-90124L	12.4	M6	2.8	108	8
PRC-90165L	16.5	M8	3.2	111	10
PRC-90205L	20.5	M10	3.5	114	10
PRC-90250L	25.5	M12	3.8	118	10

COUNTERSINKS

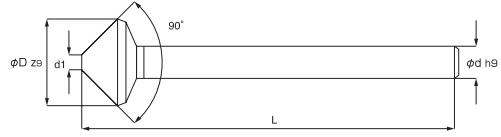
เคาน์เตอร์ซิงค์

STRAIGHT SHANK
เคาน์เตอร์ซิงค์ตามตรง

PROCHI

ดอกขยายปากกรู 90° 3 ฟัน ก้านยาวพิเศษ

COUNTERSINK 90°, 3FLUTES - EXTRA LONG SHANK



HSS

ไฮสปีด

Non Coated

90 degree, 3 flutes (HSS)

Applications : for chamfering works, countersinking works and expanding holes

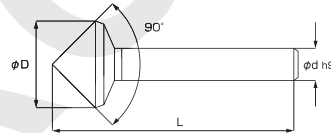
TiN Coated

TiAlN Coated

Order No.	ϕD_{z9} (mm)	Size	d1 (mm)	L (mm)	ϕdh_9 (mm)
PRC-9063EL	6.3	M3	1.5	154	5
PRC-9083EL	8.3	M4	2.0	155	6
PRC-90104EL	10.4	M5	2.5	157	6
PRC-90124EL	12.4	M6	2.8	158	8
PRC-90165EL	16.5	M8	3.2	161	10
PRC-90205EL	20.5	M10	3.5	164	10
PRC-90250EL	25.5	M12	3.8	168	10

ดอกขยายปากกรู 90°

COUNTERSINK 90° (SINGLE-FLUTE)



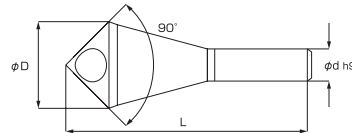
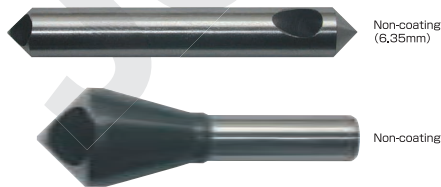
90 degrees, single-flute (HSS) for bench drills

Applications: for chamfering works

Order No.	ϕD (mm)	ϕ Size	L (mm)	ϕdh_9 (mm)
PRC-90500	5	1 ~ 5	50	5
PRC-901000	10	1 ~ 10	60	10
PRC-901500	15	2 ~ 15	65	10
PRC-902000	20	2 ~ 20	73	10
PRC-902500	25	2 ~ 25	73	10
PRC-903000	30	3 ~ 30	82	12
PRC-904000	40	3 ~ 40	92	12
PRC-905000	50	3 ~ 50	100	15

ดอกขยายปากกรู 90°

COUNTERSINK 90° - With Hole



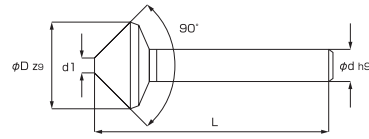
90 degrees, , with Hole (HSS) for bench drills

Applications: for chamfering works

Order No.	ϕD (mm)	ϕ Size	L (mm)	ϕdh_9 (mm)
PRC-90635H	6.35	1 ~ 4	45	6.35
PRC-90100H	10	2 ~ 5	45	6
PRC-90140H	14	5 ~ 10	56	6
PRC-90210H	21	10 ~ 15	67	10
PRC-90280H	28	15 ~ 20	90	12
PRC-90350H	35	20 ~ 25	106	15

ดอกขยายปากกรู 90°

COUNTERSINK 90°, (MULTI-FLUTE)



90 degrees, multi-flutes (HSS-Co), super heat-resistant alloy manganese steel, Nimonic, inconel, hastelloy, monel, titanium alloy etc.
Applications: for chamfering works, countersinking works and expanding holes

Order No.	ϕD_{z9} (mm)	$d1$ (mm)	L (mm)	Flute	$\phi dh9$ (mm)
PRC-C90104	10.4	4.0	50	4	6
PRC-C90124	12.4	4.0	56	5	8
PRC-C90165	16.5	4.5	60	5	10
PRC-C90205	20.5	5.0	63	5	10
PRC-C90250	25.0	5.5	67	5	10
PRC-C90310	31.0	6.0	71	5	12

HSS

ไฮสปีด

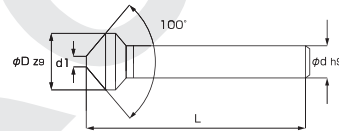
Non Coated

TIN Coated

TiAIN Coated

ดอกขยายปากกรู 100° 3ฟัน

COUNTERSINK 100°, 3Flutes

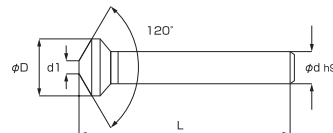


100 degrees, 3 flutes (HSS)
Applications: for chamfering works, countersinking works and expanding holes

Order No.	ϕD (mm)	$d1$ (mm)	L (mm)	$\phi dh9$ (mm)
PRC-10063	6.3	1.5	44	5
PRC-10080	8.0	2.0	49	6
PRC-100104	10.4	2.5	49	6
PRC-100124	12.4	2.8	55	8
PRC-100165	16.5	3.2	59	10
PRC-100205	20.5	3.5	62	10
PRC-100250	25.0	3.8	65	10

ดอกขยายปากกรู 120° 3ฟัน

COUNTERSINK 120°, 3Flutes



120 degrees, 3 flutes (HSS)
Applications: for chamfering works

Order No.	ϕD (mm)	$d1$ (mm)	L (mm)	$\phi dh9$ (mm)
PRC-12080	8.0	2.0	49	6
PRC-120125	12.5	2.8	54	8
PRC-120144	14.4	3.0	54	8
PRC-120160	16.0	3.2	57	10
PRC-120200	20.0	3.5	59	10
PRC-120250	25.0	3.8	63	10

COUNTERSINKS

เคาน์เตอร์ซิงค์

STRAIGHT SHANK
เคาน์เตอร์ซิงค์ตามตรง



ตัวทำแฉมเฟอร์ CHAMFERING MILLS CM



Center Chamfering Mill



0 ~ -0.03



Ds ≤ 10 : 0 ~ -0.015
10 < Ds ≤ 18 : 0 ~ -0.018
18 < Ds ≤ 30 : 0 ~ -0.021
30 < Ds : 0 ~ -0.025

(mm)

Order No.	Stock	Size (mm)				
		Tool Dia.	Flat Width	Flute Length	Overall Length	Shank Dia.
CM4	●	4	0.44	11	75	8
CM6	●	6	0.55	13	85	10
CM8	●	8	0.66	19	105	12
CM10	●	10	0.77	22	120	16
CM12	●	12	0.88	26	125	16
CM16	●	16	1.1	32	145	20
CM20	●	20	1.32	38	165	25
CM25	●	25	1.43	45	170	32
CM30	□	30	1.65	50	180	32
CM35	□	35	1.98	55	180	32
CM40	□	40	1.98	60	200	42
CM45	□	45	2.2	65	200	42
CM50	□	50	2.2	65	200	42

● : Stocked Items. □ : Stocked by specified distributor. Contact with our sales department.

ตัวทำแฉมเฟอร์ CHAMFERING MILLS CE



Chamfering Cutter



Under Ø30

Ds ≤ 6 : 0 ~ -0.012
6 < Ds ≤ 10 : 0 ~ -0.015
10 < Ds ≤ 18 : 0 ~ -0.018

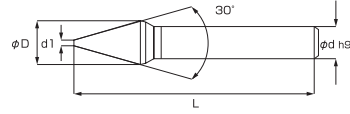
(mm)

Order No.	Stock	Size (mm)			
		Tool Dia.	Processing Dia.	Overall Length	Shank Dia.
CE4	●	4	2.5 ~ 3	50	4
CE6	●	6	3 ~ 5	50	6
CE10	●	10	5 ~ 9	55	8
CE15	●	15	7 ~ 14	70	10
CE20	●	20	10 ~ 19	100	12
CE30	●	30	15 ~ 28	120	12
CE40	●	40	20 ~ 38	170	MT3
CE50	●	50	25 ~ 48	180	MT3
CE60	●	60	30 ~ 58	195	MT3

● : Stocked Items. □ : Stocked by specified distributor. Contact with our sales department.

ดอกขยายปากกรู 30° เคลือบ TiN - 3 ฟัน

COUNTERSINK 30° -TiN, 3 FLUTES



30 degrees, TiN, 3 flutes (HSS)
Applications: countersinking works

Order No.	Ø D (mm)	d1 (mm)	L (mm)	MT No.
PRC-G3063	6.3	2.0	50	5
PRC-G30124	12.4	3.0	65	8
PRC-G30165	16.5	4.0	76	10
PRC-G30205	20.5	5.0	83	10
PRC-G30250	25.0	6.0	90	10
PRC-G30310	31.0	9.0	98	12

HSS

ไฮสปีด

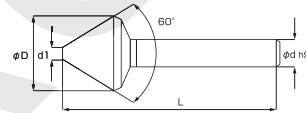
Non Coated

TiN Coated

TiAlN Coated

ดอกขยายปากกรู 60° เคลือบ TiN - 3 ฟัน

COUNTERSINK 60° -TiN, 3 FLUTES

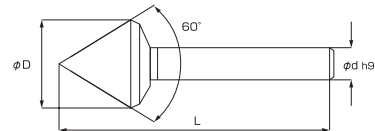


60 degrees, TiN, 3 flutes (HSS)
Applications: for chamfering works

Order No.	Ø D (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-G6063	6.3	1.6	45	5
PRC-G6080	8.0	2.0	50	6
PRC-G60100	10.0	2.5	50	6
PRC-G60125	12.5	3.2	56	8
PRC-G60160	16.0	4.0	63	10
PRC-G60200	20.0	5.0	67	10
PRC-G60250	25.0	6.3	71	10

ดอกขยายปากกรู 60° เคลือบ TiN - 1 ฟัน

COUNTERSINK 60°, TiN, (SINGLE-FLUTE)



60 degrees, TiN, single-flute (HSS) for bench drills
Applications: for chamfering works

Order No.	Ø D (mm)	Ø Size	L (mm)	Ødh9 (mm)
PRC-G60500	5	1 ~ 5	50	5
PRC-G601000	10	1 ~ 10	60	10
PRC-G601500	15	2 ~ 15	65	10
PRC-G602000	20	2 ~ 20	73	10
PRC-G603000	30	3 ~ 30	82	12
PRC-G604000	40	3 ~ 40	92	15
PRC-G605000	50	3 ~ 50	100	15

COUNTERSINKS

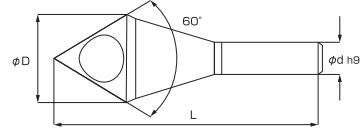
เคาน์เตอร์ซิงค์

STRAIGHT SHANK
เคาน์เตอร์ซิงค์ตามตรง

PROCH

ดอกขยายปากกรู 60° เคลือบ TiN

COUNTERSINK 60°, TiN (With Hole)



HSS

ไฮสปีด

Non Coated

TiN Coated

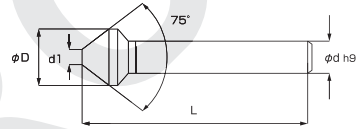
TiAlN Coated

60 degrees, TiN, with Hole (HSS) for bench drills
Applications: for chamfering works

Order No.	Ø D (mm)	Ø Size	L (mm)	Ødh9 (mm)
PRC-G60100H	10	2 ~ 5	50	6
PRC-G60140H	14	5 ~ 10	63	6
PRC-G60210H	21	10 ~ 15	80	10
PRC-G60280H	28	15 ~ 20	100	12
PRC-G60350H	35	20 ~ 25	125	15

ดอกขยายปากกรู 75° เคลือบ TiN - 3ฟัน

COUNTERSINK 75°, TiN, 3Flutes

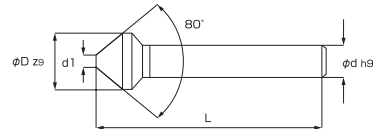


75 degrees, TiN, 3 flutes (HSS)
Applications: for chamfering works

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	MT No.
PRC-G7580	8.0	2.0	50	6
PRC-G75100	10.0	2.5	54	6
PRC-G75125	12.5	2.8	54	8
PRC-G75150	15.0	3.2	56	8
PRC-G75200	20.0	3.5	63	10
PRC-G75250	25.0	3.8	71	10

ดอกขยายปากกรู 80° เคลือบ TiN - 3ฟัน

COUNTERSINK 80°, TiN, 3Flutes

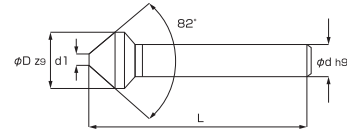


80 degrees, TiN, 3 flutes (HSS)
Applications: for chamfering works, countersinking works and expanding holes

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-G8060	6.0	1.5	45	5
PRC-G8080	8.0	2.0	50	6
PRC-G80100	10.0	2.5	50	6
PRC-G80134	13.4	2.9	56	8
PRC-G80165	16.5	3.2	60	10
PRC-G80205	20.5	3.5	63	10

ดอกขยายปากกรู 82° เคลือบ TiN - 3ฟัน

COUNTERSINK 82°, TiN- 3Flutes



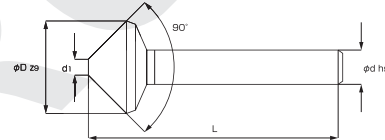
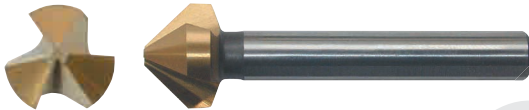
82 degrees, TiN, 3 flutes (HSS)

Applications: for chamfering works, countersinking works and expanding holes

Order No.	Ø D (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-G8263	6.3	1.5	45	5
PRC-G8283	8.3	2.0	50	6
PRC-G82104	10.4	2.5	50	6
PRC-G82124	12.4	2.9	56	8
PRC-G82165	16.5	3.2	60	10
PRC-G82205	20.5	3.5	63	10
PRC-G82250	25.5	3.8	67	10

ดอกขยายปากกรู 90° เคลือบ TiN - 3ฟัน

COUNTERSINK 90°, 3FLUTES - TiN



90 degree, TiN, 3 flutes (HSS)

Applications : for chamfering works, countersinking works and expanding holes

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-G9040	4.0	1.2	40	4
PRC-G9043	4.3	1.5	40	4
PRC-G9050	5.0	1.5	40	4
PRC-G9053	5.3	1.5	40	4
PRC-G9058	5.8	1.5	45	5
PRC-G9060	6.0	1.5	45	5
PRC-G9063	6.3	1.5	45	5
PRC-G9070	7.0	1.8	50	6
PRC-G9073	7.3	1.8	50	6
PRC-G9080	8.0	2.0	50	6
PRC-G9083	8.3	2.0	50	6
PRC-G9094	9.4	2.2	50	6
PRC-G90100	10.0	2.5	50	6
PRC-G90104	10.4	2.5	50	6
PRC-G90115	11.5	2.8	56	8
PRC-G90124	12.4	2.8	56	8
PRC-G90134	13.4	2.9	56	8
PRC-G90144	14.4	2.0	60	8
PRC-G90150	15.0	3.2	60	10
PRC-G90165	16.5	3.2	60	8
PRC-G90190	19.0	3.5	63	10
PRC-G90205	20.5	3.5	63	10
PRC-G90230	23.0	3.8	67	10
PRC-G90250	25.0	3.8	67	10
PRC-G90260	26.0	3.8	67	10
PRC-G90280	28.0	4.0	71	12
PRC-G90300	30.0	4.2	71	12
PRC-G90310	31.0	4.2	71	12
PRC-G90340	34.0	4.5	71	12
PRC-G90370	37.0	4.5	71	12
PRC-G90400	40.0	10.0	75	12
PRC-G90450	45.0	4.5	98	12

COUNTERSINKS

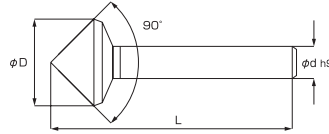
เคาน์เตอร์ซิงค์

STRAIGHT SHANK
เคาน์เตอร์ซิงค์ตามตรง

PROCH

ดอกขยายปากกรู 90° เคลือบ TiN - 1 ฟัน

COUNTERSINK 90° (SINGLE-FLUTE) TiN Coating



HSS
ไฮสปีด

Non Coated

TiN Coated

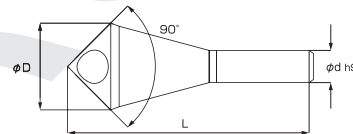
TiAlN Coated

90 degrees, single-flute (HSS), TiN coating for bench drills
Applications: for chamfering works

Order No.	Ø D (mm)	Ø Size	L (mm)	Ødh9 (mm)
PRC-G90500	5	1 ~ 5	50	5
PRC-G901000	10	1 ~ 10	60	10
PRC-G901500	15	2 ~ 15	65	10
PRC-G902000	20	2 ~ 20	73	10
PRC-G902500	25	2 ~ 25	73	10
PRC-G903000	30	3 ~ 30	82	12
PRC-G904000	40	3 ~ 40	92	12
PRC-G905000	50	3 ~ 50	100	15

ดอกขยายปากกรู 90° เคลือบ TiN

COUNTERSINK 90° - With Hole

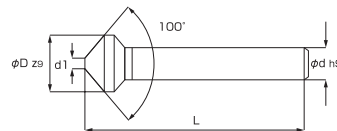


90 degrees, with Hole (HSS) for bench drills
Applications: for chamfering works

Order No.	Ø Dz9 (mm)	Ø Size	L (mm)	Ødh9 (mm)
PRC-G90635H	6.35	1 ~ 4	45	6.35
PRC-G90100H	10	2 ~ 5	45	6
PRC-G90140H	14	5 ~ 10	56	6
PRC-G90210H	21	10 ~ 15	67	10
PRC-G90280H	28	15 ~ 20	90	12
PRC-G90350H	35	20 ~ 25	106	15

ดอกขยายปากกรู 100° เคลือบ TiN - 3 ฟัน

COUNTERSINK 100°, TiN, 3Flutes

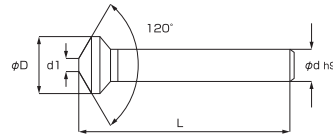


100 degrees, TiN, 3 flutes (HSS)
Applications: for chamfering works, countersinking works and expanding holes

Order No.	Ø D (mm)	d1 (mm)	L (mm)	Ødh9 (mm)
PRC-G10063	6.3	1.5	44	5
PRC-G10080	8.0	2.0	49	6
PRC-G100104	10.4	2.5	49	6
PRC-G100124	12.4	2.8	55	8
PRC-G100165	16.5	3.2	59	10
PRC-G100205	20.5	3.5	62	10
PRC-G100250	25.0	3.8	65	10

ดอกขยายปากกรู 120° เคลือบ TiN - 3 ฟัน

COUNTERSINK 120°, TiN- 3Flutes



120 degrees, TiN, 3 flutes (HSS)
Applications: for chamfering works

Order No.	∅ D (mm)	d1 (mm)	L (mm)	∅dh9 (mm)
PRC-G12080	8.0	2.0	49	6
PRC-G120125	12.5	2.8	54	8
PRC-G120144	14.4	3.0	54	8
PRC-G120160	16.0	3.2	57	10
PRC-G120200	20.0	3.5	59	10
PRC-G120250	25.0	3.8	63	10

HSS

ไฮสปีด

Non Coated

TiN Coated

TiAlN Coated

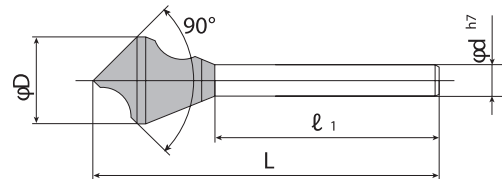
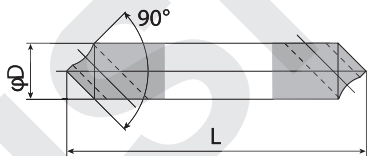


ดอกขยายปากกรู ประเภท I ก้านกลม

COUNTERSINKS TYPE I WITH STRAIGHT SHANK (OPEN HOLE TYPE)



- Open hole type
- For non-ferrous metals
- All models TiN coated



Order No.	Size			
	Diameter	Chamfering Dia.	Overall Length	Shank Dia.
	D		L	d
CS1S06-06	6	3 ~ 5	50	6
CS1S08-08	8	4 ~ 7	50	8

Order No.	Size				
	Diameter	Chamfering Dia.	Overall Length	Shank Dia.	Shank Length
	D		L	d	ℓ1
CS1S08-10	10	4 ~ 9	55	8	37
CS1S08-15	15	6 ~ 14	70	8	45
CS1S10-20	20	8 ~ 18	100	10	65
CS1S12-25	25	10 ~ 23	110	12	73
CS1S12-30	30	12 ~ 28	120	12	75
CS1S12-35	35	14 ~ 34	120	12	70
CS1S16-42	42	18 ~ 40	130	16	70
CS1S16-55	55	24 ~ 53	150	16	70

COUNTERSINKS

เคาน์เตอร์ซิงค์



ดอกขยายปากกรู ประเภท II ก้านกลม 1 ฟัน

COUNTERSINKS TYPE II WITH STRAIGHT SHANK (SINGLE FLUTE TYPE)



HSS

ไฮสปีด

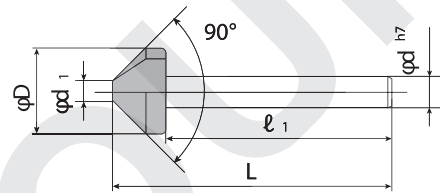
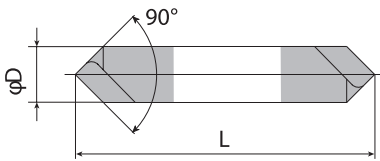
Non Coated

TiN Coated

TiAlN Coated



- Single flute type
- For Steels and stainless steels
- All models TiN coated

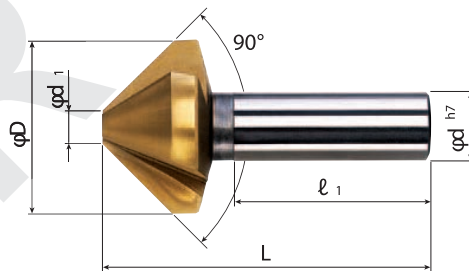


Order No.	Size			
	Diameter	Chamfering Dia.	Overall Length	Shank Dia.
	D		L	d
CS2S08-08	8	2 ~ 7	55	8

Order No.	Size					
	Diameter	Chamfering Dia.	Overall Length	Shank Dia.	Shank Length	Point Dia.
	D		L	d	ℓ1	d1
CS2S08-16	16	4 ~ 15	65	8	50	3
CS2S10-26	26	6 ~ 25	80	10	61	3
CS2S12-36	36	11 ~ 35	90	12	72.5	8
CS2S12-46	46	16 ~ 45	95	12	73.5	13
CS2S16-56	56	21 ~ 55	100	16	73	18
CS2S16-66	66	26 ~ 65	100	16	69	24

ดอกขยายปากกรู ประเภท III ก้านกลม 3 ฟัน

COUNTERSINKS TYPE III WITH STRAIGHT SHANK (3-FLUTE TYPE)

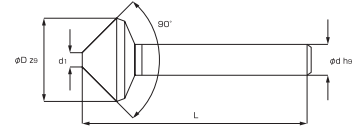


- 3-flute type
- For Steels and stainless steels
- All models TiN coated

Order No.	Size					
	Diameter	Chamfering Dia.	Overall Length	Shank Dia.	Shank Length	Point Dia.
	D		L	d	ℓ1	d1
CS3S05-06	6	4 ~ 5	43	5	40	2
CS3S06-08	8	4 ~ 7	45	6	40	2
CS3S06-10	10	4 ~ 9	46	6	40	2
CS3S06-12	12	4 ~ 11	48	6	40	2
CS3S10-16	16	5 ~ 15	54	10	45	4
CS3S10-20	20	6 ~ 18	57	10	45	4
CS3S12-30	30	6 ~ 28	64	12	45	4
CS3S16-40	40	10 ~ 38	75	16	50	8

ดอกขยายปากกรู 90° เคลือบ TiAIN - 3ฟัน

COUNTERSINK 90°, 3FLUTES - TiAIN



90 degrees, TiAIN, 3 flutes (HSS)

Applications : for chamfering works, countersinking works and expanding holes

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	Ø dh9 (mm)
PRC-A9063	6.3	1.5	45	5
PRC-A9083	8.3	2.0	50	6
PRC-A90104	10.4	2.5	50	6
PRC-A90124	12.4	2.8	56	8
PRC-A90165	16.5	3.2	60	8
PRC-A90205	20.5	3.5	63	10
PRC-A90250	25.0	3.8	67	10
PRC-A90310	31.0	4.2	71	12
PRC-A90370	37.0	4.5	71	12

HSS

ไฮสปีด

Non Coated

TIN Coated

TiAIN Coated

JSR GROUP

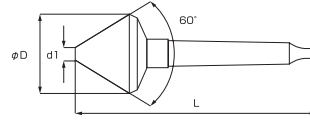
COUNTERSINKS

เคาน์เตอร์ซิงค์

PROCH

ดอกขยายปากกรู 60° 3ฟัน ก้านเดเปอร

COUNTERSINK 60°, 3FLUTES (MT Shank)



HSS

ไฮสปีด

Non Coated

60 degrees, 3 flutes (HSS), MT Shank
Applications: for chamfering works

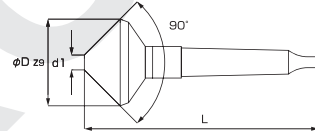
TiN Coated

TiAlN Coated

Order No.	Ø D (mm)	d1 (mm)	L (mm)	MT No.
PRC-60250M	25.0	6.3	112	2
PRC-60315M	31.5	10.0	118	2
PRC-60400M	40.0	12.5	150	3
PRC-60500M	50.0	16.0	160	3
PRC-60630M	63.0	20.0	190	4
PRC-60800M	80.0	25.0	200	4

ดอกขยายปากกรู 90° 3ฟัน ก้านเดเปอร

COUNTERSINK 90°, 3FLUTES - MT SHANK

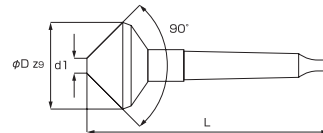


90 degrees, 3 flutes (HSS), MT Shank
Applications : for chamfering works, countersinking works and expanding holes

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	MT No.
PRC-90250M	25.0	3.8	3.8	2
PRC-90370M	37.0	4.8	4.8	2
PRC-90400M	40.0	10.0	10.0	3
PRC-90500M	50.0	14.0	14.0	3
PRC-90630M	63.0	16.0	16.0	4
PRC-90800M	80.0	22.0	22.0	4
PRC-90100M	100.0	28.0	28.0	4

ดอกขยายปากกรู 90° 3ฟัน ก้านเดเปอร

COUNTERSINK 90°, 3FLUTES -MT SHANK

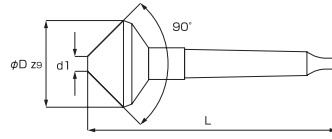


90 degrees, 3 flutes (HSS), MT Shank for countersinking works / non-ferrous metal (brass, copper, aluminum etc.)
Applications: countersinking works

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	MT No.
PRC-S90250M	25.0	3.8	106	2
PRC-S90370M	37.0	4.8	118	2
PRC-S90400M	40.0	10.0	140	3
PRC-S90500M	50.0	14.0	150	3
PRC-S90630M	63.0	16.0	180	4

ดอกขยายปากกรู 90° ก้านเตปเปอร์

COUNTERSINK 90° (MULTI-FLUTES)



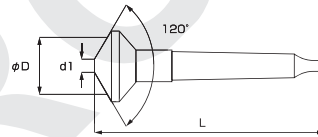
90 degrees, multi-flutes (HSS-Co), MT Shank

Applications: for chamfering works, countersinking works and expanding holes

Order No.	Ø Dz9 (mm)	d1 (mm)	L (mm)	Flute	MT No.
PRC-C90400M	40.0	10	140	5	3
PRC-C90500M	50.0	14	150	5	3
PRC-C90630M	63.0	16	180	5	4

ดอกขยายปากกรู 120° 3ฟัน ก้านเตปเปอร์

COUNTERSINK 120° (MT Shank)



120 degrees, 3 flutes (HSS), MT Shank

Applications: for chamfering works

Order No.	Ø D (mm)	d1 (mm)	L (mm)	MT Shank
PRC-120250M	25.0	3.8	102	2
PRC-120315M	31.5	4.2	107	2
PRC-120400M	40.0	10.0	134	3
PRC-120500M	50.0	14.0	143	3

HSS
ไฮสปีด
Non Coated
TIN Coated
TIAN Coated

COUNTERSINKS

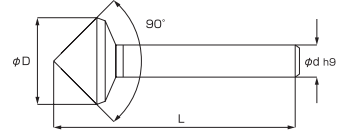
เคาน์เตอร์ซิงค์

TAPER SHANK
เคาน์เตอร์ซิงค์ก้านเตเปอร์

PROCH

ดอกขยายปากรู 90° 3 ฟัน - เคลือบ TiN, ก้านเตเปอร์

COUNTERSINK 90°, 3 FLUTES - TiN, MT SHANK



HSS

ไฮสปีด

Non Coated

90 degree, TiN, 3 flutes (HSS), MT Shank

Applications : for chamfering works, countersinking works and expanding holes

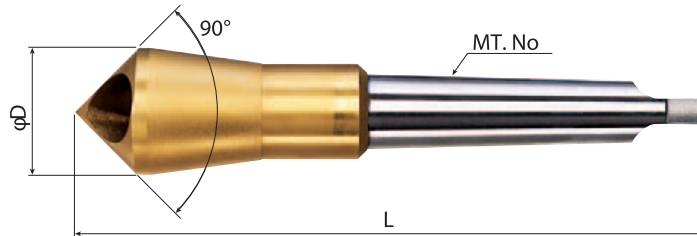
TiN Coated

TiAlN Coated

Order No.	ϕ Dz9 (mm)	d1 (mm)	L (mm)	MT No.
PRC-G90250M	25.0	3.8	106	2
PRC-G90370M	37.0	4.8	118	2
PRC-G90400M	40.0	10.0	140	3
PRC-G90500M	50.0	14.0	150	3
PRC-G90630M	63.0	16.0	180	4
PRC-G90800M	80.0	22.0	190	4

ดอกขยายปากกรู ประเภท I ก้านเตปเปอร์

COUNTERSINKS TYPE I WITH MORSE TAPER SHANK (OPEN HOLE TYPE)



- Open hole type
- For non-ferrous metals
- All models TiN coated

HSS

ไฮสปีด

Non Coated

TiN Coated

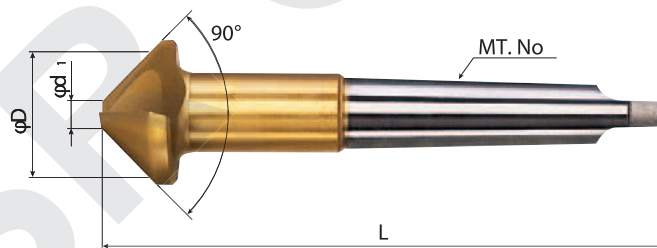
TiAlN Coated

Order No.	Size			
	Diameter	Chamfering Dia.	Overall Length	Shank No.
	D		L	d
CS1T1-10	10	4 ~ 9	100	MT1
CS1T1-15	15	6 ~ 14	110	MT1
CS1T1-20	20	8 ~ 18	120	MT1
CS1T1-25	25	10 ~ 23	130	MT1
CS1T2-15	15	6 ~ 14	120	MT2
CS1T2-20	20	8 ~ 18	130	MT2
CS1T2-25	25	10 ~ 23	140	MT2

Order No.	Size			
	Diameter	Chamfering Dia.	Overall Length	Shank No.
	D		L	d
CS1T2-30	30	12 ~ 28	150	MT2
CS1T2-35	35	14 ~ 33	160	MT2
CS1T2-40	40	16 ~ 38	170	MT2
CS1T3-30	30	12 ~ 28	180	MT3
CS1T3-35	35	14 ~ 33	185	MT3
CS1T3-42	42	18 ~ 40	190	MT3
CS1T3-55	55	24 ~ 53	195	MT3

ดอกขยายปากกรู ประเภท II ก้านเตปเปอร์ 1 ฟัน

COUNTERSINKS TYPE II WITH MORSE TAPER SHANK (SINGLE FLUTE TYPE)



- Single flute type
- For Steels and stainless steels
- All models TiN coated

Order No.	Size				
	Diameter	Chamfering Dia.	Overall Length	Shank No.	Point Dia.
	D		L		d1
CS2T1-16	16	4 ~ 15	110	MT1	3
CS2T1-26	26	6 ~ 25	120	MT1	3
CS2T2-26	26	6 ~ 25	135	MT2	3
CS2T2-36	36	11 ~ 35	140	MT2	8
CS2T2-46	46	16 ~ 45	140	MT2	13
CS2T3-36	36	11 ~ 35	160	MT3	13
CS2T3-46	46	16 ~ 45	165	MT3	13
CS2T3-56	56	21 ~ 55	170	MT3	18
CS2T3-66	66	26 ~ 65	175	MT3	24

COUNTERSINKS

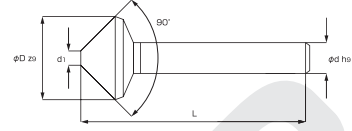
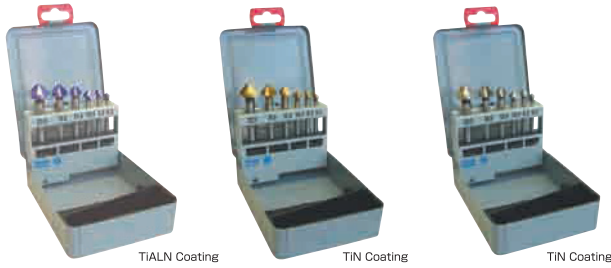
เคาน์เตอร์ซิงค์

SET
เคาน์เตอร์ซิงค์ชุด

PROCH

ดอกขยายปากกรู 90° 3 ฟัน ชุด 6 ชิ้น

COUNTERSINK 90°, 3Flutes (SET)



HSS ไฮสปีด
Non Coated
TiN Coated
TiAlN Coated

90 degrees, 3 flutes, 6 piece set
Application: for chamfering works, countersinking works and expanding holes

Order No.	Coating
PRC-A906S	TiAlN Coating
PRC-G906S	TiN Coating
PRC-906S	No Coating

Ø Dz9 (mm)	d1 (mm)	L (mm)	MT Shank
6.3	1.5	45	5
8.3	2.0	50	6
10.4	2.5	50	6
12.4	2.8	56	8
16.5	3.2	60	8
20.5	3.5	63	10