

Coated Carbide Drills for Steel & Cast Iron

SumiDrill Power **SDPX** series

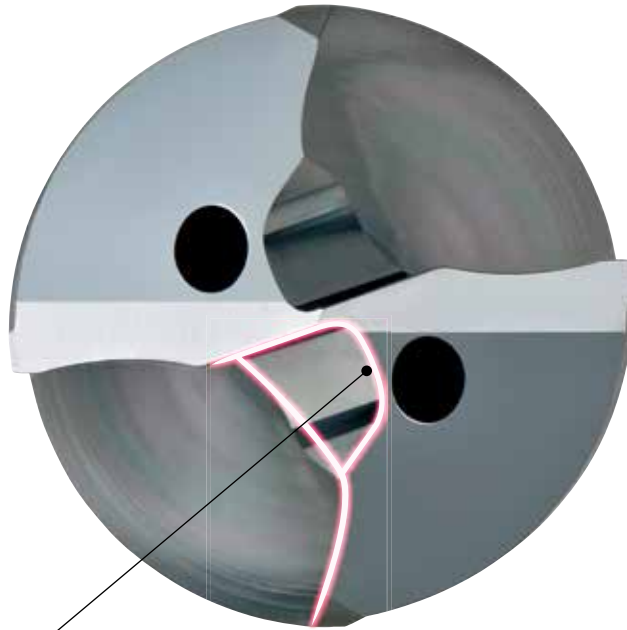
Towards a new era of high-efficiency drilling

RP THINNING with extremely low cutting
resistance

HF Coat realizing superb wear
resistance and thermal resistance

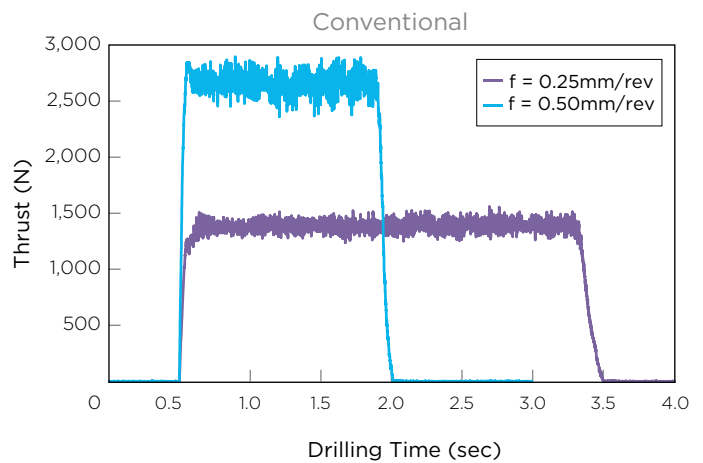
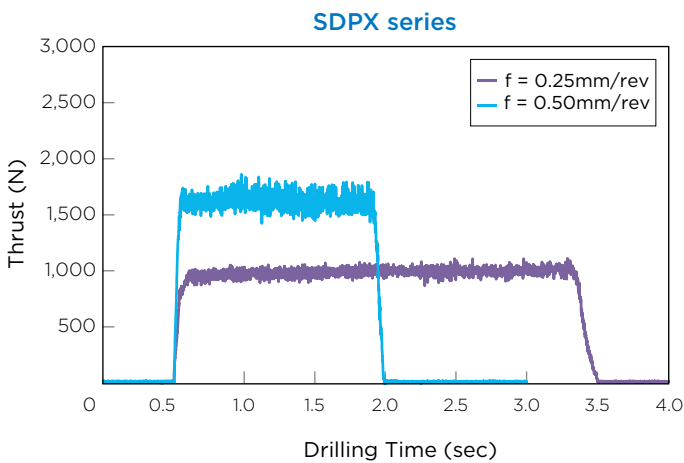


Low cutting resistance stabilizes high-efficiency drilling



RP THINNING

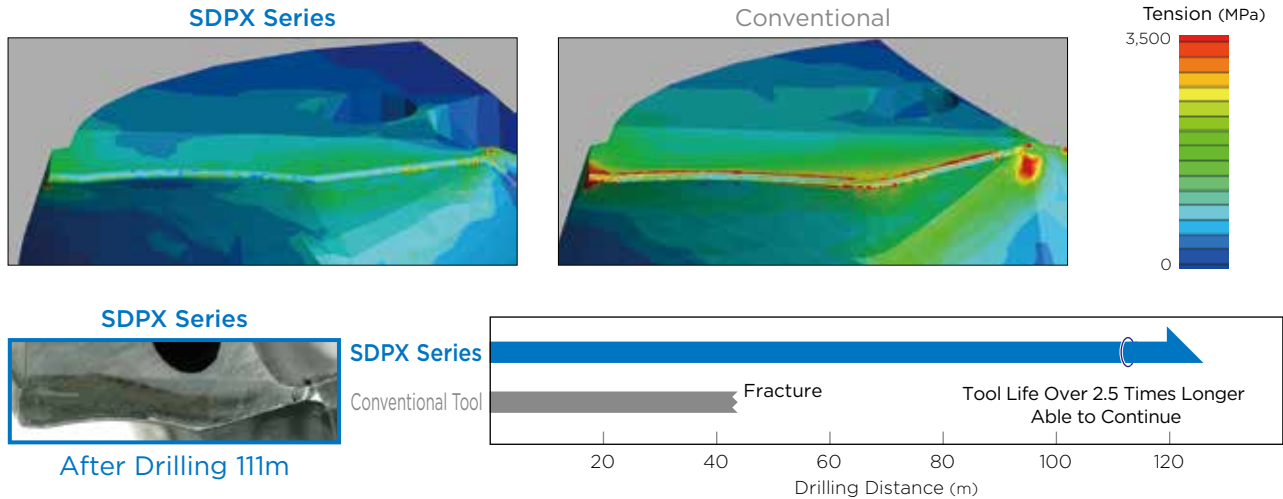
- Wide chip pocket enables smooth chip evacuation and reduced cutting, resistance ensuring stable drilling even in high-efficiency conditions



Work Material: C50 Tool: SDPX 0800S08H05 Cutting Conditions: $v_c = 80\text{m/min}$ $H = 38\text{mm}$ (Through)
Wet (Water-soluble, Internal Coolant Supply)

New Cutting Edge Shape

- Optimised cutting edge shape suppresses stress concentration and prevents chipping even in high-efficiency drilling with high cutting edge load



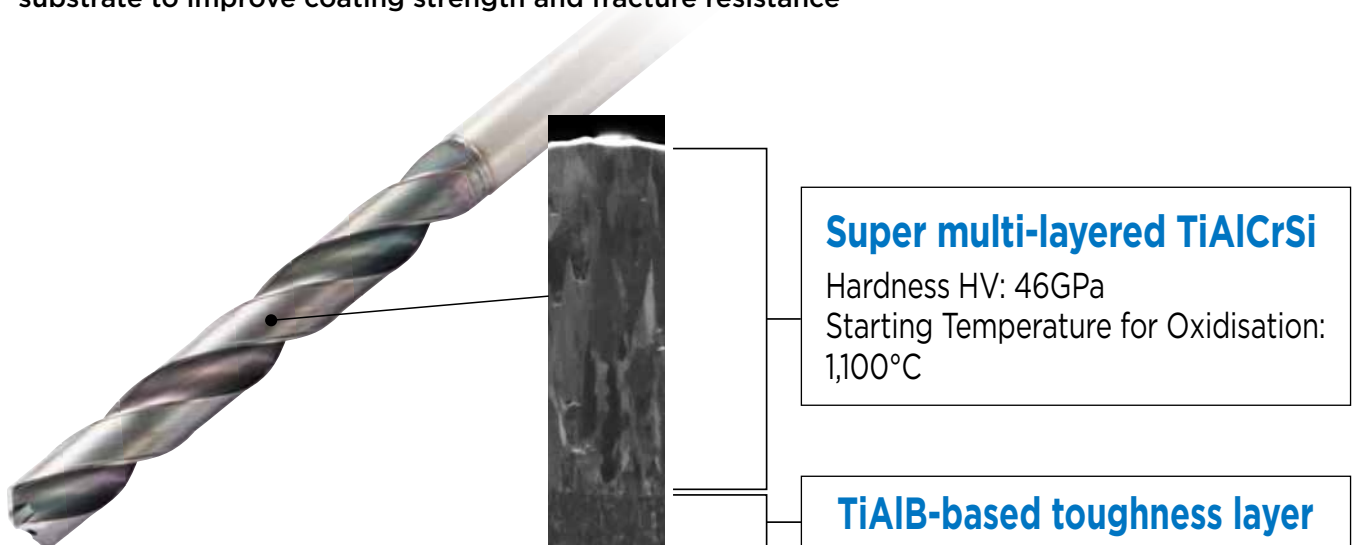
Work Material: C50 Tool: SDPX 0800S08H05 Cutting Conditions: $v_c = 140\text{m/min}$ $f = 0.40\text{mm/rev}$ $H = 38\text{mm}$ (Through)
Wet (Water-soluble, Internal Coolant Supply)

New Grade PCH70

HF Coat

- TiAlCrSi-based super multi-layered coating realises excellent wear resistance and thermal resistance

Tough TiAlB-based coating is employed on the carbide substrate to improve coating strength and fracture resistance



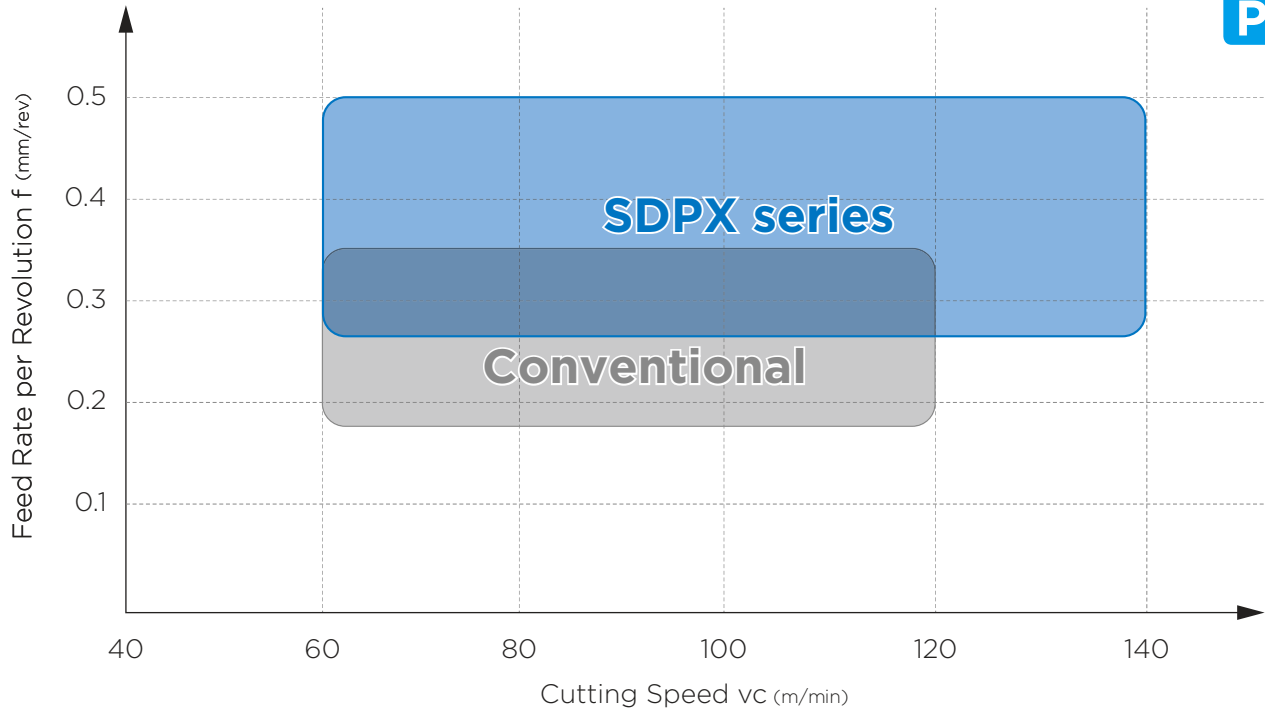
Balances wear and fracture resistance

Realises unprecedented high-efficiency drilling

- High-efficiency drilling realises increased production capacity and yield

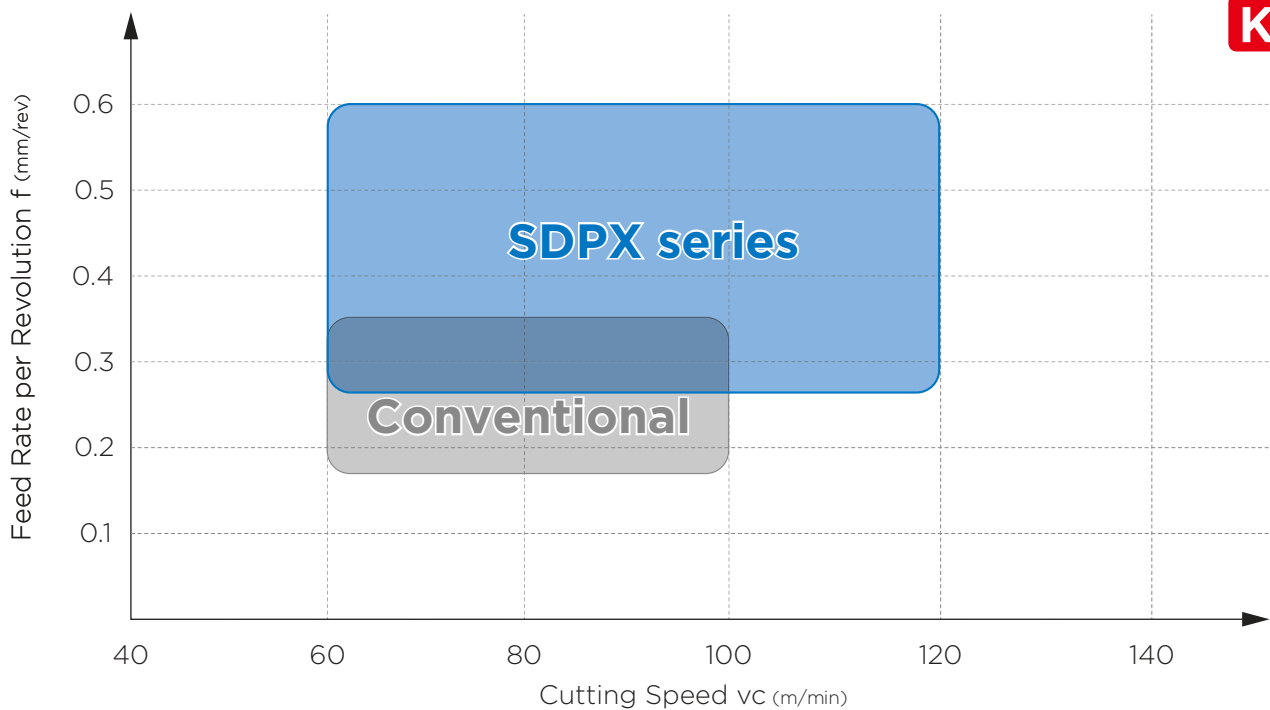
Efficiency Comparison in Steel Drilling (Diameter: $\varnothing 8\text{mm}$)

P

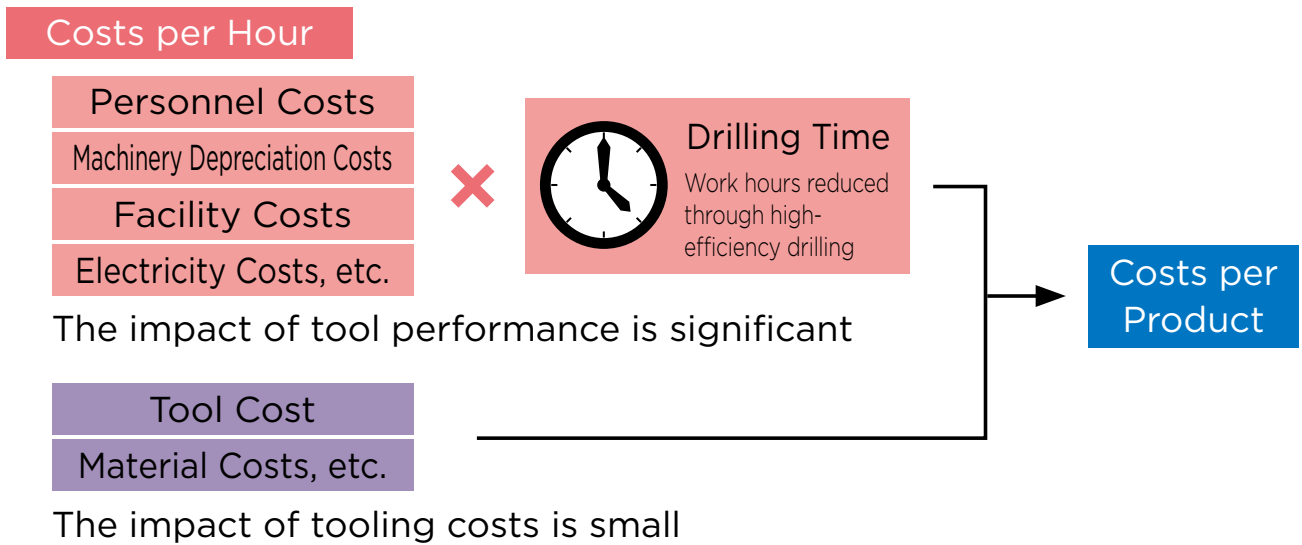


Efficiency Comparison in Cast Iron Drilling (Diameter: $\varnothing 8\text{mm}$)

K



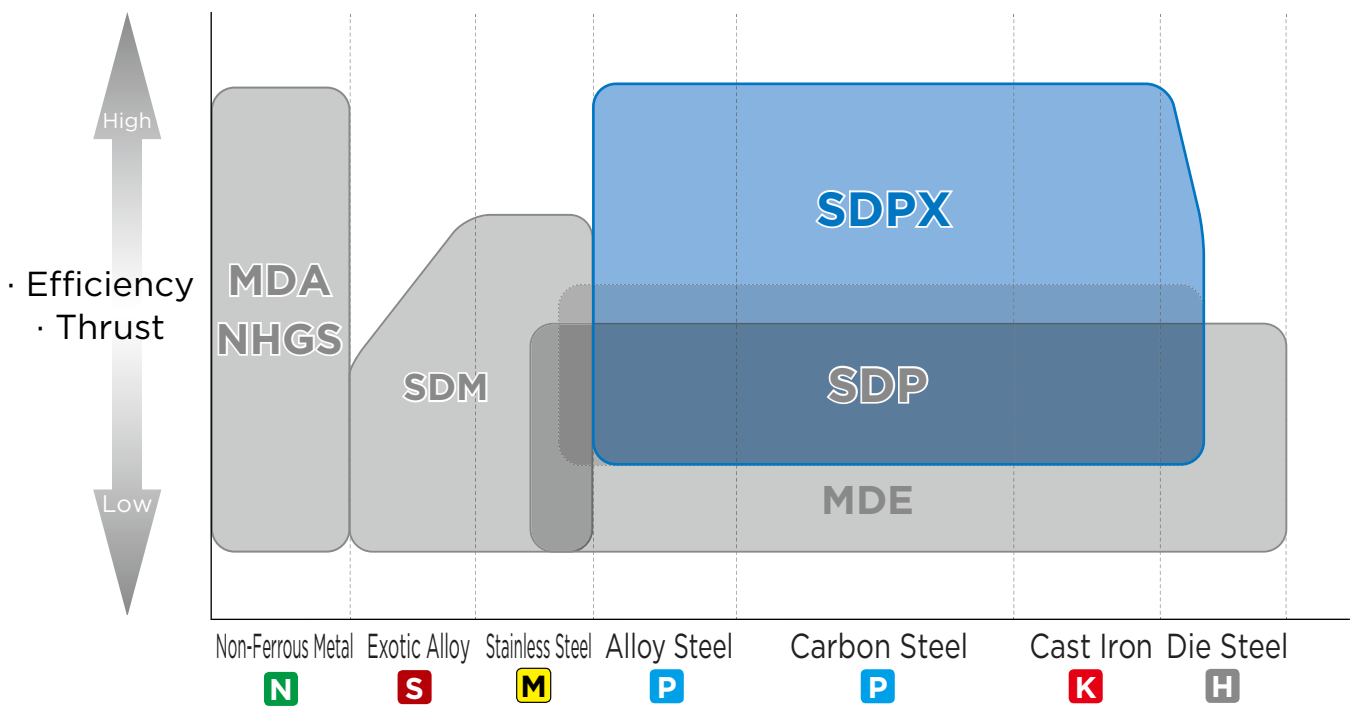
● **Contributes to reduced costs through high-efficiency drilling**



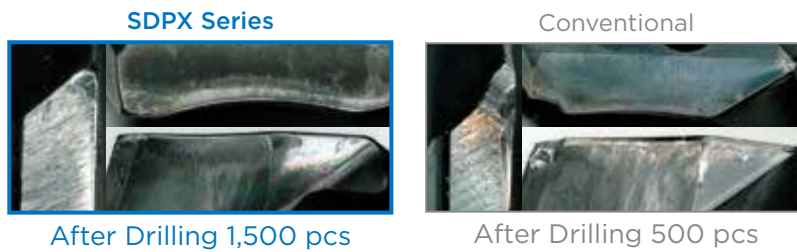
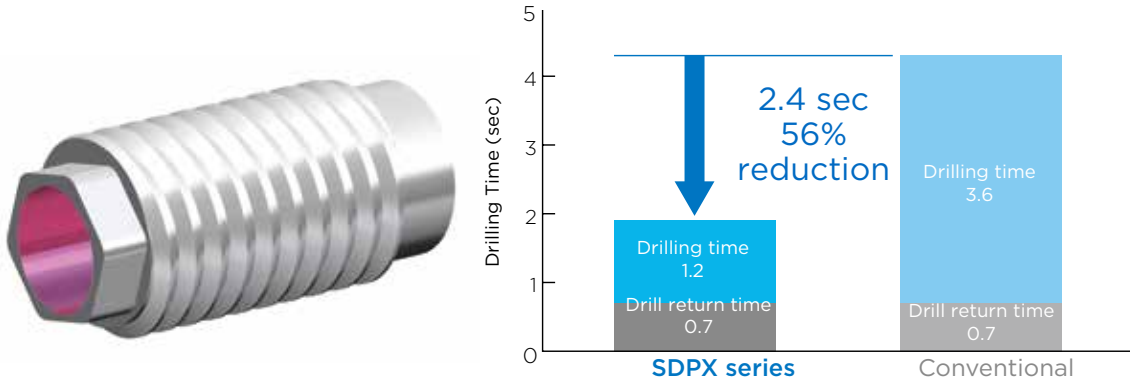
Reduced drilling time enables the reduction of personnel costs and other hourly costs

(Example of cost calculation)

● **Solid Carbide Drill Lineup by Work Material**



High-efficiency Drilling Performance 1 Reduced Cycle Time (Cylinder Component)

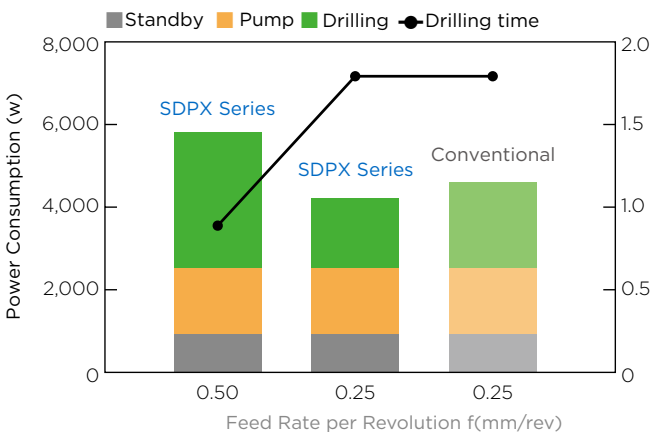


Work Material: 42CrM04, Tool: SDPX 0600S06H05
 Cutting Conditions: MDH series $vc = 80\text{m/min}$ $f = 0.35\text{mm/rev}$ $H = 25\text{mm}$ (Blind) Wet (Water-soluble, Internal Coolant Supply)
 Conventional Tool $vc = 51\text{m/min}$ $f = 0.19\text{mm/rev}$ $H = 25\text{mm}$ (Blind) Wet (Water-soluble, Internal Coolant Supply)

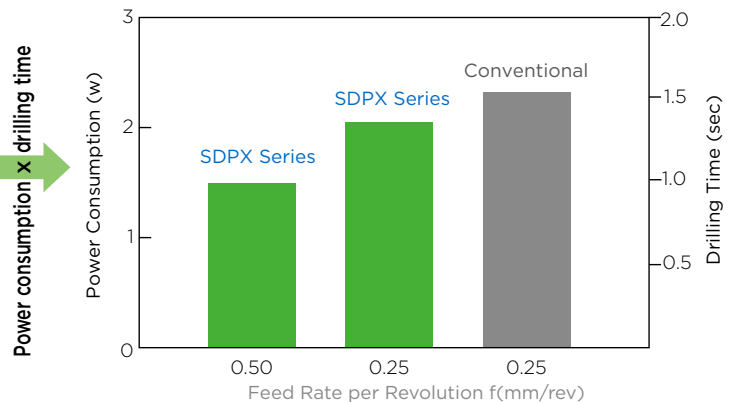
Approx. 3 times the drilling efficiency and 3 times longer tool life

High-efficiency Drilling Performance 2 Power Saving

Power Consumption and Drilling Time per Hole



Power Consumption per Hole

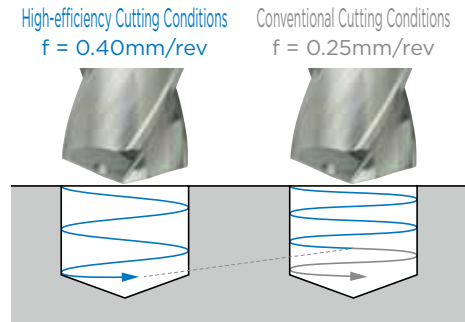
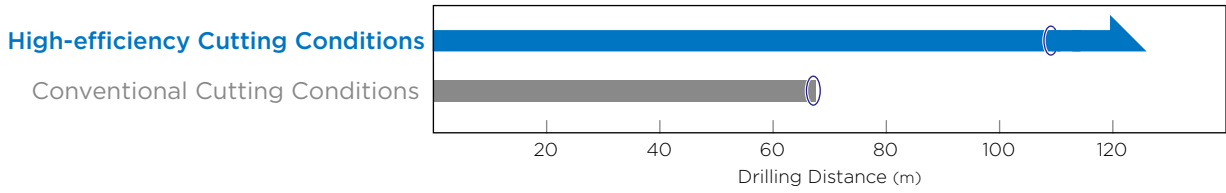


Work Material: C50, Tool: SDPX 0800S08H05 Cutting Conditions: $vc = 80\text{m/min}$ $H = 38\text{mm}$ (Through)
 Wet (Water-soluble, Internal Coolant Supply)

*Power consumption is based on calculations made at Sumitomo-owned facilities and may vary with operating environment.

High-efficiency drilling dramatically reduces drilling power consumption

High-efficiency Drilling Performance 3 Longer Tool Life



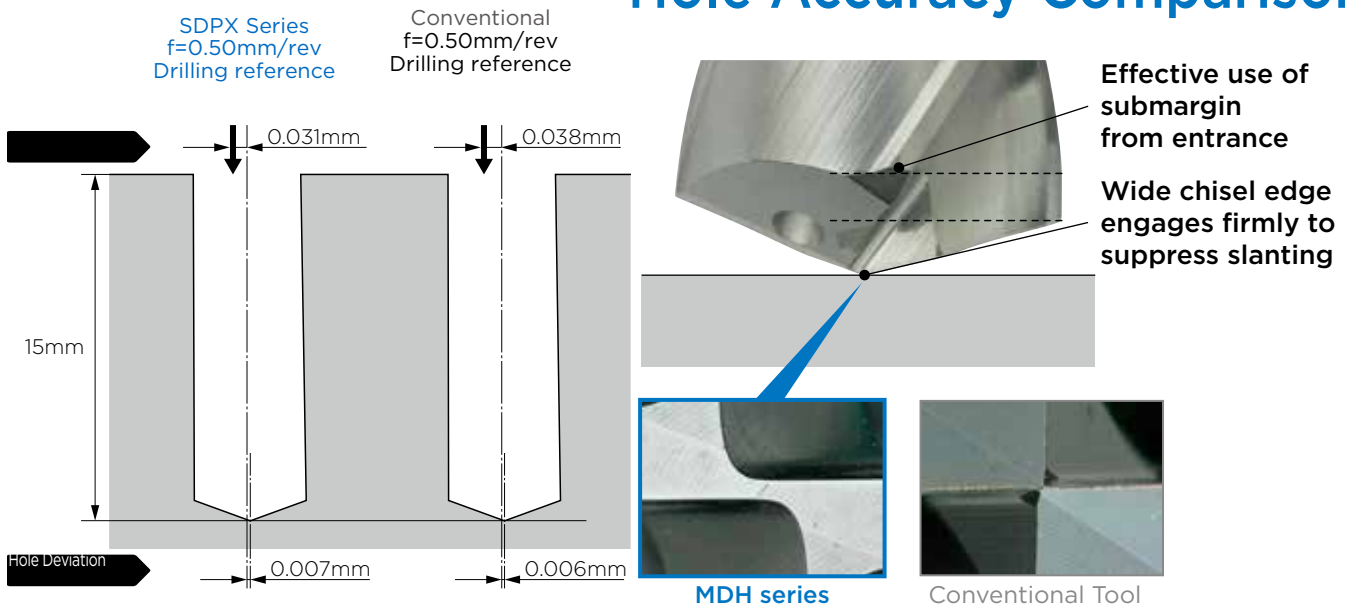
*Tool life varies based on the workpiece and operating environment.
The above does not guarantee that tool life will be extended.

Reduced peripheral abrasion distance suppresses wear.

Work Material: C50, Tool: SDPX 0800S08H05
High-efficiency Cutting Conditions: $vc = 140\text{m/min}$ $f = 0.40\text{mm/rev}$ $H = 38\text{mm}$ (Through) Wet (Water-soluble, Internal Coolant Supply)
Conventional Cutting Conditions: $vc = 80\text{m/min}$ $f = 0.25\text{mm/rev}$ $H = 38\text{mm}$ (Through) Wet (Water-soluble, Internal Coolant Supply)

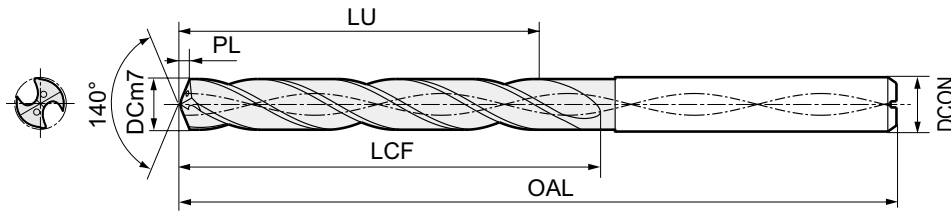
2.8 times the drilling efficiency and 1.3 times longer tool life

High-efficiency Drilling Performance 4 Hole Accuracy Comparison



Work Material: C50, Tool: SDPX 0800S08H05
Cutting Conditions: $vc = 100\text{m/min}$ Wet (Water-soluble, Internal Coolant Supply)

Hole position precision and deviation equivalent to conventional cutting conditions, even at twice the drilling efficiency



■ Diameter ø3.0 to 4.3mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
3,0	3	SDPX0300S06H03	●	15,0	19,5	61,5		
3,0	5	SDPX0300S06H05	●	22,0	26,5	65,5	0,5	6,0
3,0	7	SDPX0300S06H07	●	26,0	30,5	69,5		
3,1	3	SDPX0310S06H03	●	15,0	19,6	61,6		
3,1	5	SDPX0310S06H05	●	22,0	26,6	65,6	0,6	6,0
3,1	7	SDPX0310S06H07	●	26,0	30,6	69,6		
3,2	3	SDPX0320S06H03	●	14,8	19,6	61,6		
3,2	5	SDPX0320S06H05	●	21,8	26,6	65,6	0,6	6,0
3,2	7	SDPX0320S06H07	●	25,8	30,6	69,6		
3,3	3	SDPX0330S06H03	●	14,7	19,6	61,6		
3,3	5	SDPX0330S06H05	●	21,7	26,6	65,6	0,6	6,0
3,3	7	SDPX0330S06H07	●	25,7	30,6	69,6		
3,4	3	SDPX0340S06H03	●	14,5	19,6	61,6		
3,4	5	SDPX0340S06H05	●	21,5	26,6	65,6	0,6	6,0
3,4	7	SDPX0340S06H07	●	31,0	36,1	74,6		
3,5	3	SDPX0350S06H03	●	14,4	19,6	61,6		
3,5	5	SDPX0350S06H05	●	21,4	26,6	65,6	0,6	6,0
3,5	7	SDPX0350S06H07	●	30,9	36,1	74,6		
3,6	3	SDPX0360S06H03	□	14,3	19,7	61,7		
3,6	5	SDPX0360S06H05	□	21,3	26,7	65,7	0,7	6,0
3,6	7	SDPX0360S06H07	□	30,8	36,2	74,7		
3,7	3	SDPX0370S06H03	●	14,2	19,7	61,7		
3,7	5	SDPX0370S06H05	●	21,2	26,7	65,7	0,7	6,0
3,7	7	SDPX0370S06H07	●	30,7	36,2	74,7		
3,8	3	SDPX0380S06H03	●	18,0	23,7	65,7		
3,8	5	SDPX0380S06H05	●	30,0	35,7	73,7	0,7	6,0
3,8	7	SDPX0380S06H07	●	32,5	38,2	74,7		
3,9	3	SDPX0390S06H03	□	17,9	23,7	65,7		
3,9	5	SDPX0390S06H05	●	29,9	35,7	73,7	0,7	6,0
3,9	7	SDPX0390S06H07	□	32,4	38,2	74,7		
4,0	3	SDPX0400S06H03	●	17,7	23,7	65,7		
4,0	5	SDPX0400S06H05	●	29,7	35,7	73,7	0,7	6,0
4,0	7	SDPX0400S06H07	●	32,2	38,2	74,7		
4,1	3	SDPX0410S06H03	●	17,6	23,7	65,7		
4,1	5	SDPX0410S06H05	●	29,6	35,7	73,7	0,7	6,0
4,1	7	SDPX0410S06H07	●	32,1	38,2	74,7		
4,2	3	SDPX0420S06H03	●	17,5	23,8	65,8		
4,2	5	SDPX0420S06H05	●	29,5	35,8	73,8	0,8	6,0
4,2	7	SDPX0420S06H07	●	32,0	38,3	74,8		
4,3	3	SDPX0430S06H03	●	17,4	23,8	65,8		
4,3	5	SDPX0430S06H05	●	29,4	35,8	73,8	0,8	6,0
4,3	7	SDPX0430S06H07	●	40,4	46,8	84,8		

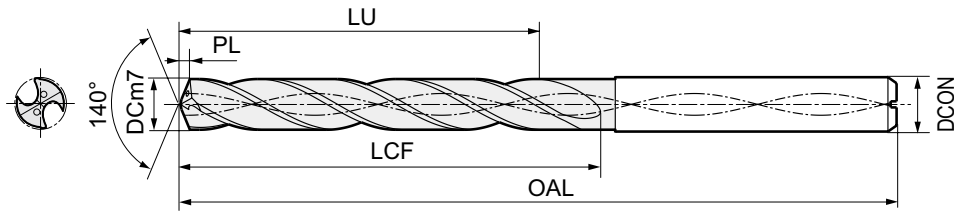
■ Diameter ø4.4 to 5.7mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
4,4	3	SDPX0440S06H03	□	17,2	23,8	65,8		
4,4	5	SDPX0440S06H05	●	29,2	35,8	73,8	0,8	6,0
4,4	7	SDPX0440S06H07	□	40,2	46,8	84,8		
4,5	3	SDPX0450S06H03	●	17,1	23,8	65,8		
4,5	5	SDPX0450S06H05	●	29,1	35,8	73,8	0,8	6,0
4,5	7	SDPX0450S06H07	●	40,1	46,8	84,8		
4,6	3	SDPX0460S06H03	●	16,9	23,8	65,8		
4,6	5	SDPX0460S06H05	●	28,9	35,8	73,8	0,8	6,0
4,6	7	SDPX0460S06H07	●	39,9	46,8	84,8		
4,65	3	SDPX0465S06H03	□	16,8	23,8	65,8		
4,65	5	SDPX0465S06H05	●	28,8	35,8	73,8	0,8	6,0
4,65	7	SDPX0465S06H07	●	39,8	46,8	84,8		
4,7	3	SDPX0470S06H03	□	16,9	23,9	65,9		
4,7	5	SDPX0470S06H05	●	28,9	35,9	73,9	0,9	6,0
4,7	7	SDPX0470S06H07	□	39,9	46,9	84,9		
4,8	3	SDPX0480S06H03	●	20,7	27,9	65,9		
4,8	5	SDPX0480S06H05	●	36,7	43,9	81,9	0,9	6,0
4,8	7	SDPX0480S06H07	●	44,7	51,9	89,9		
4,9	3	SDPX0490S06H03	●	20,6	27,9	65,9		
4,9	5	SDPX0490S06H05	●	36,6	43,9	81,9	0,9	6,0
4,9	7	SDPX0490S06H07	□	44,6	51,9	89,9		
5,0	3	SDPX0500S06H03	●	20,4	27,9	65,9		
5,0	5	SDPX0500S06H05	●	36,4	43,9	81,9	0,9	6,0
5,0	7	SDPX0500S06H07	●	44,4	51,9	89,9		
5,1	3	SDPX0510S06H03	●	20,3	27,9	65,9		
5,1	5	SDPX0510S06H05	●	36,3	43,9	81,9	0,9	6,0
5,1	7	SDPX0510S06H07	●	44,3	51,9	89,9		
5,2	3	SDPX0520S06H03	●	20,1	27,9	65,9		
5,2	5	SDPX0520S06H05	●	36,1	43,9	81,9	0,9	6,0
5,2	7	SDPX0520S06H07	●	44,1	51,9	89,9		
5,3	3	SDPX0530S06H03	●	20,1	28,0	66,0		
5,3	5	SDPX0530S06H05	●	36,1	44,0	82,0	1,0	6,0
5,3	7	SDPX0530S06H07	●	44,1	52,0	90,0		
5,4	3	SDPX0540S06H03	□	19,9	28,0	66,0		
5,4	5	SDPX0540S06H05	●	35,9	44,0	82,0	1,0	6,0
5,4	7	SDPX0540S06H07	□	50,9	59,0	97,0		
5,5	3	SDPX0550S06H03	●	19,8	28,0	66,0		
5,5	5	SDPX0550S06H05	●	35,8	44,0	82,0	1,0	6,0
5,5	7	SDPX0550S06H07	●	50,8	59,0	97,0		
5,55	3	SDPX0555S06H03	●	19,7	28,0	66,0		
5,55	5	SDPX0555S06H05	●	35,7	44,0	82,0	1,0	6,0
5,55	7	SDPX0555S06H07	●	50,7	59,0	97,0		
5,6	3	SDPX0560S06H03	●	19,6	28,0	66,0		
5,6	5	SDPX0560S06H05	●	35,6	44,0	82,0	1,0	6,0
5,6	7	SDPX0560S06H07	●	50,6	59,0	97,0		
5,7	3	SDPX0570S06H03	●	19,5	28,0	66,0		
5,7	5	SDPX0570S06H05	●	35,5	44,0	82,0	1,0	6,0
5,7	7	SDPX0570S06H07	●	50,5	59,0	97,0		

● Euro stock

□ On request



■ Diameter \varnothing 5.8 to 7.1mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
5,8	3	SDPX0580S06H03	●	19,4	28,1	66,1		
5,8	5	SDPX0580S06H05	●	35,4	44,1	82,1	1,1	6,0
5,8	7	SDPX0580S06H07	●	50,4	59,1	97,1		
5,9	3	SDPX0590S06H03	□	19,3	28,1	66,1		
5,9	5	SDPX0590S06H05	●	35,3	44,1	82,1	1,1	6,0
5,9	7	SDPX0590S06H07	□	50,3	59,1	97,1		
6,0	3	SDPX0600S06H03	●	19,1	28,1	66,1		
6,0	5	SDPX0600S06H05	●	35,1	44,1	82,1	1,1	6,0
6,0	7	SDPX0600S06H07	●	50,1	59,1	97,1		
6,1	3	SDPX0610S08H03	●	25,0	34,1	79,1		
6,1	5	SDPX0610S08H05	●	44,0	53,1	91,1	1,1	8,0
6,1	7	SDPX0610S08H07	□	59,0	68,1	106,1		
6,2	3	SDPX0620S08H03	●	24,8	34,1	79,1		
6,2	5	SDPX0620S08H05	●	43,8	53,1	91,1	1,1	8,0
6,2	7	SDPX0620S08H07	●	58,8	68,1	106,1		
6,3	3	SDPX0630S08H03	●	24,7	34,1	79,1		
6,3	5	SDPX0630S08H05	●	43,7	53,1	91,1	1,1	8,0
6,3	7	SDPX0630S08H07	□	58,7	68,1	106,1		
6,4	3	SDPX0640S08H03	●	24,6	34,2	79,2		
6,4	5	SDPX0640S08H05	●	43,6	53,2	91,2	1,2	8,0
6,4	7	SDPX0640S08H07	●	58,6	68,2	106,2		
6,5	3	SDPX0650S08H03	●	24,5	34,2	79,2		
6,5	5	SDPX0650S08H05	●	43,5	53,2	91,2	1,2	8,0
6,5	7	SDPX0650S08H07	●	58,5	68,2	106,2		
6,6	3	SDPX0660S08H03	●	24,3	34,2	79,2		
6,6	5	SDPX0660S08H05	●	43,3	53,2	91,2	1,2	8,0
6,6	7	SDPX0660S08H07	●	58,3	68,2	106,2		
6,7	3	SDPX0670S08H03	□	24,2	34,2	79,2		
6,7	5	SDPX0670S08H05	●	43,2	53,2	91,2	1,2	8,0
6,7	7	SDPX0670S08H07	●	58,2	68,2	106,2		
6,8	3	SDPX0680S08H03	●	24,0	34,2	79,2		
6,8	5	SDPX0680S08H05	●	43,0	53,2	91,2	1,2	8,0
6,8	7	SDPX0680S08H07	●	58,0	68,2	106,2		
6,9	3	SDPX0690S08H03	●	24,0	34,3	79,3		
6,9	5	SDPX0690S08H05	●	43,0	53,3	91,3	1,3	8,0
6,9	7	SDPX0690S08H07	●	68,0	78,3	116,3		
7,0	3	SDPX0700S08H03	●	23,8	34,3	79,3		
7,0	5	SDPX0700S08H05	●	42,8	53,3	91,3	1,3	8,0
7,0	7	SDPX0700S08H07	●	67,8	78,3	116,3		
7,1	3	SDPX0710S08H03	●	29,7	40,3	79,3		
7,1	5	SDPX0710S08H05	●	42,7	53,3	91,3	1,3	8,0
7,1	7	SDPX0710S08H07	●	67,7	78,3	116,3		

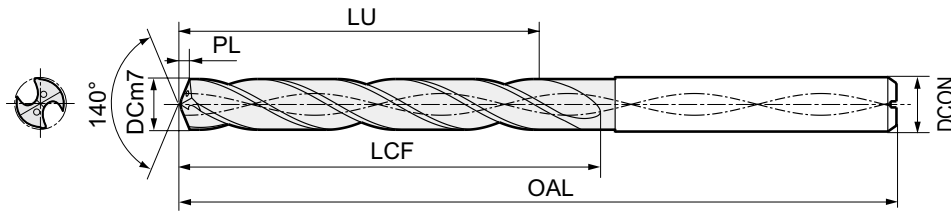
■ Diameter \varnothing 7.2 to 8.5mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
7,2	3	SDPX0720S08H03	●	29,5	40,3	79,3		
7,2	5	SDPX0720S08H05	●	42,5	53,3	91,3	1,3	8,0
7,2	7	SDPX0720S08H07	□	67,5	78,3	116,3		
7,3	3	SDPX0730S08H03	●	29,4	40,3	79,3		
7,3	5	SDPX0730S08H05	●	42,4	53,3	91,3	1,3	8,0
7,3	7	SDPX0730S08H07	●	67,4	78,3	116,3		
7,4	3	SDPX0740S08H03	●	29,2	40,3	79,3		
7,4	5	SDPX0740S08H05	●	42,2	53,3	91,3	1,3	8,0
7,4	7	SDPX0740S08H07	●	67,2	78,3	116,3		
7,5	3	SDPX0750S08H03	●	29,2	40,4	79,4		
7,5	5	SDPX0750S08H05	●	42,2	53,4	91,4	1,4	8,0
7,5	7	SDPX0750S08H07	●	67,2	78,4	116,4		
7,6	3	SDPX0760S08H03	●	29,0	40,4	79,4		
7,6	5	SDPX0760S08H05	●	42,0	53,4	91,4	1,4	8,0
7,6	7	SDPX0760S08H07	□	67,0	78,4	116,4		
7,7	3	SDPX0770S08H03	●	28,9	40,4	79,4		
7,7	5	SDPX0770S08H05	●	41,9	53,4	91,4	1,4	8,0
7,7	7	SDPX0770S08H07	●	66,9	78,4	116,4		
7,8	3	SDPX0780S08H03	●	28,7	40,4	79,4		
7,8	5	SDPX0780S08H05	●	41,7	53,4	91,4	1,4	8,0
7,8	7	SDPX0780S08H07	●	66,7	78,4	116,4		
7,9	3	SDPX0790S08H03	●	28,6	40,4	79,4		
7,9	5	SDPX0790S08H05	●	41,6	53,4	91,4	1,4	8,0
7,9	7	SDPX0790S08H07	□	66,6	78,4	116,4		
8,0	3	SDPX0800S08H03	●	28,5	40,5	79,5		
8,0	5	SDPX0800S08H05	●	41,5	53,5	91,5	1,5	8,0
8,0	7	SDPX0800S08H07	●	66,5	78,5	116,5		
8,1	3	SDPX0810S10H03	●	34,4	46,5	88,5		
8,1	5	SDPX0810S10H05	●	48,4	60,5	102,5	1,5	10,0
8,1	7	SDPX0810S10H07	●	76,4	88,5	130,5		
8,2	3	SDPX0820S10H03	●	34,2	46,5	88,5		
8,2	5	SDPX0820S10H05	●	48,2	60,5	102,5	1,5	10,0
8,2	7	SDPX0820S10H07	●	76,2	88,5	130,5		
8,3	3	SDPX0830S10H03	●	34,1	46,5	88,5		
8,3	5	SDPX0830S10H05	●	48,1	60,5	102,5	1,5	10,0
8,3	7	SDPX0830S10H07	□	76,1	88,5	130,5		
8,4	3	SDPX0840S10H03	●	33,9	46,5	88,5		
8,4	5	SDPX0840S10H05	●	47,9	60,5	102,5	1,5	10,0
8,4	7	SDPX0840S10H07	●	75,9	88,5	130,5		
8,5	3	SDPX0850S10H03	●	33,8	46,5	88,5		
8,5	5	SDPX0850S10H05	●	47,8	60,5	102,5	1,5	10,0
8,5	7	SDPX0850S10H07	●	75,8	88,5	130,5		

● Euro stock

□ On request



■ Diameter ø8.6 to 9.9mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
8,6	3	SDPX0860S10H03	●	33,7	46,6	88,6		
8,6	5	SDPX0860S10H05	●	47,7	60,6	102,6	1,6	10,0
8,6	7	SDPX0860S10H07	●	75,7	88,6	130,6		
8,7	3	SDPX0870S10H03	●	33,6	46,6	88,6		
8,7	5	SDPX0870S10H05	●	47,6	60,6	102,6	1,6	10,0
8,7	7	SDPX0870S10H07	●	75,6	88,6	130,6		
8,8	3	SDPX0880S10H03	●	33,4	46,6	88,6		
8,8	5	SDPX0880S10H05	●	47,4	60,6	102,6	1,6	10,0
8,8	7	SDPX0880S10H07	●	75,4	88,6	130,6		
8,9	3	SDPX0890S10H03	●	33,3	46,6	88,6		
8,9	5	SDPX0890S10H05	●	47,3	60,6	102,6	1,6	10,0
8,9	7	SDPX0890S10H07	□	75,3	88,6	130,6		
9,0	3	SDPX0900S10H03	●	33,1	46,6	88,6		
9,0	5	SDPX0900S10H05	●	47,1	60,6	102,6	1,6	10,0
9,0	7	SDPX0900S10H07	●	75,1	88,6	130,6		
9,1	3	SDPX0910S10H03	●	33,1	46,7	88,7		
9,1	5	SDPX0910S10H05	●	47,1	60,7	102,7	1,7	10,0
9,1	7	SDPX0910S10H07	●	83,1	96,7	138,7		
9,2	3	SDPX0920S10H03	□	32,9	46,7	88,7		
9,2	5	SDPX0920S10H05	●	46,9	60,7	102,7	1,7	10,0
9,2	7	SDPX0920S10H07	●	82,9	96,7	138,7		
9,3	3	SDPX0930S10H03	●	32,8	46,7	88,7		
9,3	5	SDPX0930S10H05	●	46,8	60,7	102,7	1,7	10,0
9,3	7	SDPX0930S10H07	●	82,8	96,7	138,7		
9,4	3	SDPX0940S10H03	●	32,6	46,7	88,7		
9,4	5	SDPX0940S10H05	●	46,6	60,7	102,7	1,7	10,0
9,4	7	SDPX0940S10H07	●	82,6	96,7	138,7		
9,5	3	SDPX0950S10H03	●	32,5	46,7	88,7		
9,5	5	SDPX0950S10H05	●	46,5	60,7	102,7	1,7	10,0
9,5	7	SDPX0950S10H07	●	82,5	96,7	138,7		
9,6	3	SDPX0960S10H03	●	32,3	46,7	88,7		
9,6	5	SDPX0960S10H05	●	46,3	60,7	102,7	1,7	10,0
9,6	7	SDPX0960S10H07	□	82,3	96,7	138,7		
9,7	3	SDPX0970S10H03	●	32,3	46,8	88,8		
9,7	5	SDPX0970S10H05	●	46,3	60,8	102,8	1,8	10,0
9,7	7	SDPX0970S10H07	●	82,3	96,8	138,8		
9,8	3	SDPX0980S10H03	●	32,1	46,8	88,8		
9,8	5	SDPX0980S10H05	●	46,1	60,8	102,8	1,8	10,0
9,8	7	SDPX0980S10H07	●	82,1	96,8	138,8		
9,9	3	SDPX0990S10H03	●	32,0	46,8	88,8		
9,9	5	SDPX0990S10H05	●	46,0	60,8	102,8	1,8	10,0
9,9	7	SDPX0990S10H07	●	82,0	96,8	138,8		

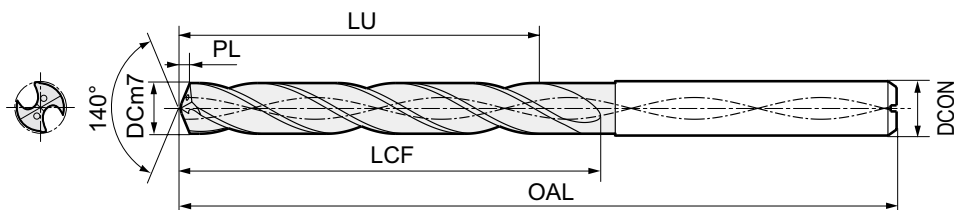
■ Diameter ø10.0 to 11.3mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
10,0	3	SDPX1000S10H03	●	31,8	46,8	88,8		
10,0	5	SDPX1000S10H05	●	45,8	60,8	102,8	1,8	10,0
10,0	7	SDPX1000S10H07	●	81,8	96,8	138,8		
10,1	3	SDPX1010S12H03	●	39,7	54,8	101,8		
10,1	5	SDPX1010S12H05	●	55,7	70,8	117,8	1,8	12,0
10,1	7	SDPX1010S12H07	●	92,7	107,8	154,8		
10,2	3	SDPX1020S12H03	●	39,6	54,9	101,9		
10,2	5	SDPX1020S12H05	●	55,6	70,9	117,9	1,9	12,0
10,2	7	SDPX1020S12H07	●	92,6	107,9	154,9		
10,3	3	SDPX1030S12H03	●	39,5	54,9	101,9		
10,3	5	SDPX1030S12H05	●	55,5	70,9	117,9	1,9	12,0
10,3	7	SDPX1030S12H07	□	92,5	107,9	154,9		
10,4	3	SDPX1040S12H03	●	39,3	54,9	101,9		
10,4	5	SDPX1040S12H05	●	55,3	70,9	117,9	1,9	12,0
10,4	7	SDPX1040S12H07	●	92,3	107,9	154,9		
10,5	3	SDPX1050S12H03	●	39,2	54,9	101,9		
10,5	5	SDPX1050S12H05	●	55,2	70,9	117,9	1,9	12,0
10,5	7	SDPX1050S12H07	●	92,2	107,9	154,9		
10,6	3	SDPX1060S12H03	●	39,0	54,9	101,9		
10,6	5	SDPX1060S12H05	●	55,0	70,9	117,9	1,9	12,0
10,6	7	SDPX1060S12H07	□	92,0	107,9	154,9		
10,7	3	SDPX1070S12H03	□	38,9	54,9	101,9		
10,7	5	SDPX1070S12H05	●	54,9	70,9	117,9	1,9	12,0
10,7	7	SDPX1070S12H07	□	91,9	107,9	154,9		
10,8	3	SDPX1080S12H03	●	38,8	55,0	102,0		
10,8	5	SDPX1080S12H05	●	54,8	71,0	118,0	2,0	12,0
10,8	7	SDPX1080S12H07	●	91,8	108,0	155,0		
10,9	3	SDPX1090S12H03	□	38,7	55,0	102,0		
10,9	5	SDPX1090S12H05	□	54,7	71,0	118,0	2,0	12,0
10,9	7	SDPX1090S12H07	□	91,7	108,0	155,0		
11,0	3	SDPX1100S12H03	●	38,5	55,0	102,0		
11,0	5	SDPX1100S12H05	●	54,5	71,0	118,0	2,0	12,0
11,0	7	SDPX1100S12H07	●	91,5	108,0	155,0		
11,1	3	SDPX1110S12H03	●	38,4	55,0	102,0		
11,1	5	SDPX1110S12H05	●	54,4	71,0	118,0	2,0	12,0
11,1	7	SDPX1110S12H07	□	99,4	116,0	163,0		
11,2	3	SDPX1120S12H03	●	38,2	55,0	102,0		
11,2	5	SDPX1120S12H05	●	54,2	71,0	118,0	2,0	12,0
11,2	7	SDPX1120S12H07	●	99,2	116,0	163,0		
11,3	3	SDPX1130S12H03	□	38,2	55,1	102,1		
11,3	5	SDPX1130S12H05	●	54,2	71,1	118,1	2,1	12,0
11,3	7	SDPX1130S12H07	●	99,2	116,1	163,1		

● Euro stock

□ On request



■ Diameter \varnothing 11.4 to 12.7mm

Dimensions (mm)

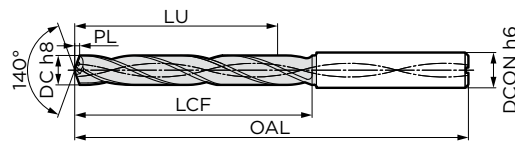
Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
11,4	3	SDPX1140S12H03	●	38,0	55,1	102,1		
11,4	5	SDPX1140S12H05	●	54,0	71,1	118,1	2,1	12,0
11,4	7	SDPX1140S12H07	□	99,0	116,1	163,1		
11,5	3	SDPX1150S12H03	●	37,9	55,1	102,1		
11,5	5	SDPX1150S12H05	●	53,9	71,1	118,1	2,1	12,0
11,5	7	SDPX1150S12H07	●	98,9	116,1	163,1		
11,6	3	SDPX1160S12H03	□	37,7	55,1	102,1		
11,6	5	SDPX1160S12H05	□	53,7	71,1	118,1	2,1	12,0
11,6	7	SDPX1160S12H07	●	98,7	116,1	163,1		
11,7	3	SDPX1170S12H03	●	37,6	55,1	102,1		
11,7	5	SDPX1170S12H05	●	53,6	71,1	118,1	2,1	12,0
11,7	7	SDPX1170S12H07	●	98,6	116,1	163,1		
11,8	3	SDPX1180S12H03	●	37,4	55,1	102,1		
11,8	5	SDPX1180S12H05	●	53,4	71,1	118,1	2,1	12,0
11,8	7	SDPX1180S12H07	●	98,4	116,1	163,1		
11,9	3	SDPX1190S12H03	□	37,4	55,2	102,2		
11,9	5	SDPX1190S12H05	□	53,4	71,2	118,2	2,2	12,0
11,9	7	SDPX1190S12H07	□	98,4	116,2	163,2		
12,0	3	SDPX1200S12H03	●	37,2	55,2	102,2		
12,0	5	SDPX1200S12H05	●	53,2	71,2	118,2	2,2	12,0
12,0	7	SDPX1200S12H07	●	98,2	116,2	163,2		
12,1	3	SDPX1210S14H03	□	42,1	60,2	107,2		
12,1	5	SDPX1210S14H05	●	59,1	77,2	124,2	2,2	14,0
12,1	7	SDPX1210S14H07	□	117,1	135,2	182,2		
12,2	3	SDPX1220S14H03	●	41,9	60,2	107,2		
12,2	5	SDPX1220S14H05	●	58,9	77,2	124,2	2,2	14,0
12,2	7	SDPX1220S14H07	□	116,9	135,2	182,2		
12,3	3	SDPX1230S14H03	□	41,8	60,2	107,2		
12,3	5	SDPX1230S14H05	●	58,8	77,2	124,2	2,2	14,0
12,3	7	SDPX1230S14H07	□	116,8	135,2	182,2		
12,4	3	SDPX1240S14H03	□	41,7	60,3	107,3		
12,4	5	SDPX1240S14H05	●	58,7	77,3	124,3	2,3	14,0
12,4	7	SDPX1240S14H07	□	116,7	135,3	182,3		
12,5	3	SDPX1250S14H03	●	41,6	60,3	107,3		
12,5	5	SDPX1250S14H05	●	58,6	77,3	124,3	2,3	14,0
12,5	7	SDPX1250S14H07	●	116,6	135,3	182,3		
12,6	3	SDPX1260S14H03	□	41,4	60,3	107,3		
12,6	5	SDPX1260S14H05	●	58,4	77,3	124,3	2,3	14,0
12,6	7	SDPX1260S14H07	□	116,4	135,3	182,3		
12,7	3	SDPX1270S14H03	□	41,3	60,3	107,3		
12,7	5	SDPX1270S14H05	●	58,3	77,3	124,3	2,3	14,0
12,7	7	SDPX1270S14H07	□	116,3	135,3	182,3		

■ Diameter \varnothing 12.8 to 14.0mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
12,8	3	SDPX1280S14H03	□	41,1	60,3	107,3		
12,8	5	SDPX1280S14H05	●	58,1	77,3	124,3	2,3	14,0
12,8	7	SDPX1280S14H07	□	116,1	135,3	182,3		
12,9	3	SDPX1290S14H03	□	41,0	60,3	107,3		
12,9	5	SDPX1290S14H05	□	58,0	77,3	124,3	2,3	14,0
12,9	7	SDPX1290S14H07	□	116,0	135,3	182,3		
13,0	3	SDPX1300S14H03	●	40,9	60,4	107,4		
13,0	5	SDPX1300S14H05	●	57,9	77,4	124,4	2,4	14,0
13,0	7	SDPX1300S14H07	●	115,9	135,4	182,4		
13,1	3	SDPX1310S14H03	□	40,8	60,4	107,4		
13,1	5	SDPX1310S14H05	●	57,8	77,4	124,4	2,4	14,0
13,1	7	SDPX1310S14H07	□	115,8	135,4	182,4		
13,2	3	SDPX1320S14H03	□	40,6	60,4	107,4		
13,2	5	SDPX1320S14H05	●	57,6	77,4	124,4	2,4	14,0
13,2	7	SDPX1320S14H07	□	115,6	135,4	182,4		
13,3	3	SDPX1330S14H03	□	40,5	60,4	107,4		
13,3	5	SDPX1330S14H05	□	57,5	77,4	124,4	2,4	14,0
13,3	7	SDPX1330S14H07	□	115,5	135,4	182,4		
13,4	3	SDPX1340S14H03	□	40,3	60,4	107,4		
13,4	5	SDPX1340S14H05	●	57,3	77,4	124,4	2,4	14,0
13,4	7	SDPX1340S14H07	□	115,3	135,4	182,4		
13,5	3	SDPX1350S14H03	●	40,3	60,5	107,5		
13,5	5	SDPX1350S14H05	●	57,3	77,5	124,5	2,5	14,0
13,5	7	SDPX1350S14H07	●	115,3	135,5	182,5		
13,6	3	SDPX1360S14H03	□	40,1	60,5	107,5		
13,6	5	SDPX1360S14H05	□	57,1	77,5	124,5	2,5	14,0
13,6	7	SDPX1360S14H07	□	115,1	135,5	182,5		
13,7	3	SDPX1370S14H03	□	40,0	60,5	107,5		
13,7	5	SDPX1370S14H05	●	57,0	77,5	124,5	2,5	14,0
13,7	7	SDPX1370S14H07	□	115,0	135,5	182,5		
13,8	3	SDPX1380S14H03	□	39,8	60,5	107,5		
13,8	5	SDPX1380S14H05	●	56,8	77,5	124,5	2,5	14,0
13,8	7	SDPX1380S14H07	□	114,8	135,5	182,5		
13,9	3	SDPX1390S14H03	□	39,7	60,5	107,5		
13,9	5	SDPX1390S14H05	●	56,7	77,5	124,5	2,5	14,0
13,9	7	SDPX1390S14H07	□	114,7	135,5	182,5		
14,0	3	SDPX1400S14H03	●	39,5	60,5	107,5		
14,0	5	SDPX1400S14H05	●	56,5	77,5	124,5	2,5	14,0
14,0	7	SDPX1400S14H07	●	114,5	135,5	182,5		

Fig 1



■ Diameter ø14.1 to 15.3mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
14,1	3	SDPX1410S16H03	□	43,5	64,6	114,6		
14,1	5	SDPX1410S16H05	□	61,5	82,6	132,6	2,6	16,0
14,1	7	SDPX1410S16H07	□	132,5	153,6	203,6		
14,2	3	SDPX1420S16H03	□	43,3	64,6	114,6		
14,2	5	SDPX1420S16H05	□	61,3	82,6	132,6	2,6	16,0
14,2	7	SDPX1420S16H07	□	132,3	153,6	203,6		
14,3	3	SDPX1430S16H03	□	43,2	64,6	114,6		
14,3	5	SDPX1430S16H05	□	61,2	82,6	132,6	2,6	16,0
14,3	7	SDPX1430S16H07	□	132,2	153,6	203,6		
14,4	3	SDPX1440S16H03	□	43,0	64,6	114,6		
14,4	5	SDPX1440S16H05	□	61,0	82,6	132,6	2,6	16,0
14,4	7	SDPX1440S16H07	□	132,0	153,6	203,6		
14,5	3	SDPX1450S16H03	●	42,9	64,6	114,6		
14,5	5	SDPX1450S16H05	●	60,9	82,6	132,6	2,6	16,0
14,5	7	SDPX1450S16H07	□	131,9	153,6	203,6		
14,6	3	SDPX1460S16H03	□	42,8	64,7	114,7		
14,6	5	SDPX1460S16H05	□	60,8	82,7	132,7	2,7	16,0
14,6	7	SDPX1460S16H07	□	131,8	153,7	203,7		
14,7	3	SDPX1470S16H03	□	42,7	64,7	114,7		
14,7	5	SDPX1470S16H05	□	60,7	82,7	132,7	2,7	16,0
14,7	7	SDPX1470S16H07	□	131,7	153,7	203,7		
14,8	3	SDPX1480S16H03	□	42,5	64,7	114,7		
14,8	5	SDPX1480S16H05	□	60,5	82,7	132,7	2,7	16,0
14,8	7	SDPX1480S16H07	□	131,5	153,7	203,7		
14,9	3	SDPX1490S16H03	□	42,4	64,7	114,7		
14,9	5	SDPX1490S16H05	□	60,4	82,7	132,7	2,7	16,0
14,9	7	SDPX1490S16H07	□	131,4	153,7	203,7		
15,0	3	SDPX1500S16H03	●	42,2	64,7	114,7		
15,0	5	SDPX1500S16H05	●	60,2	82,7	132,7	2,7	16,0
15,0	7	SDPX1500S16H07	□	131,2	153,7	203,7		
15,1	3	SDPX1510S16H03	□	42,1	64,7	114,7		
15,1	5	SDPX1510S16H05	□	60,1	82,7	132,7	2,7	16,0
15,1	7	SDPX1510S16H07	□	131,1	153,7	203,7		
15,2	3	SDPX1520S16H03	□	42,0	64,8	114,8		
15,2	5	SDPX1520S16H05	□	60,0	82,8	132,8	2,8	16,0
15,2	7	SDPX1520S16H07	□	131,0	153,8	203,8		
15,3	3	SDPX1530S16H03	□	41,9	64,8	114,8		
15,3	5	SDPX1530S16H05	□	59,9	82,8	132,8	2,8	16,0
15,3	7	SDPX1530S16H07	□	130,9	153,8	203,8		

■ Diameter ø15.4 to 16.0mm

Dimensions (mm)

Dia. DC	Hole Depth (L/D)	Cat. No.	Stock	Effective Length LU	Flute Length LCF	Overall Length OAL	Tip PL	Shank Dia. DCON
15,4	3	SDPX1540S16H03	□	41,7	64,8	114,8		
15,4	5	SDPX1540S16H05	□	59,7	82,8	132,8	2,8	16,0
15,4	7	SDPX1540S16H07	□	130,7	153,8	203,8		
15,5	3	SDPX1550S16H03	●	41,6	64,8	114,8		
15,5	5	SDPX1550S16H05	●	59,6	82,8	132,8	2,8	16,0
15,5	7	SDPX1550S16H07	□	130,6	153,8	203,8		
15,6	3	SDPX1560S16H03	□	41,4	64,8	114,8		
15,6	5	SDPX1560S16H05	□	59,4	82,8	132,8	2,8	16,0
15,6	7	SDPX1560S16H07	□	130,4	153,8	203,8		
15,7	3	SDPX1570S16H03	□	41,4	64,9	114,9		
15,7	5	SDPX1570S16H05	□	59,4	82,9	132,9	2,9	16,0
15,7	7	SDPX1570S16H07	□	130,4	153,9	203,9		
15,8	3	SDPX1580S16H03	□	41,2	64,9	114,9		
15,8	5	SDPX1580S16H05	□	59,2	82,9	132,9	2,9	16,0
15,8	7	SDPX1580S16H07	□	130,2	153,9	203,9		
15,9	3	SDPX1590S16H03	□	41,1	64,9	114,9		
15,9	5	SDPX1590S16H05	□	59,1	82,9	132,9	2,9	16,0
15,9	7	SDPX1590S16H07	□	130,1	153,9	203,9		
16,0	3	SDPX1600S16H03	●	40,9	64,9	114,9		
16,0	5	SDPX1600S16H05	●	58,9	82,9	132,9	2,9	16,0
16,0	7	SDPX1600S16H07	□	129,9	153,9	203,9		

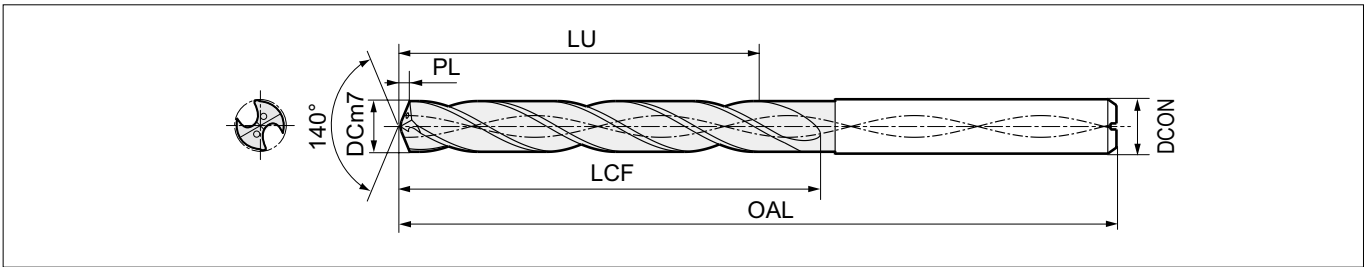
■ Recommended Cutting Conditions

Material Group						SDPX ___S_H0_PCH70							
ISO 513	Material	Type/Structure	R _m N/mm ²	Hardness HB30	Eignung	Vc=m/min	Ø 3.0-4.0mm	Ø 4.1-6.0 mm	Ø 6.1-8.0 mm	Ø 8.1-10.0 mm	Ø 10.1-13.0 mm	Ø 13.1-16.0 mm	
							Feed rate (mm/U)	Feed rate (mm/U)	Feed rate (mm/U)	Feed rate (mm/U)	Feed rate (mm/U)	Feed rate (mm/U)	
P	Carbon steel Cast steel	free cutting steel			●	60-80-140	0.15-0.24-0.35	0.15-0.30-0.35	0.20-0.40-0.50	0.20-0.45-0.50	0.25-0.45-0.55	0.25-0.50-0.60	
		construction steel	400		●	60-80-140	0.15-0.24-0.35	0.15-0.30-0.35	0.20-0.40-0.50	0.20-0.45-0.50	0.25-0.45-0.55	0.25-0.50-0.60	
		case-hardened steel			●	60-80-140	0.15-0.24-0.35	0.15-0.30-0.35	0.20-0.40-0.50	0.20-0.45-0.50	0.25-0.45-0.55	0.25-0.50-0.60	
		heat-treatable steel	700	235	●	60-80-140	0.15-0.24-0.35	0.15-0.30-0.35	0.20-0.40-0.50	0.20-0.45-0.50	0.25-0.45-0.55	0.25-0.50-0.60	
		spring steel		300	●	30-40-50	0.05-0.07-0.11	0.07-0.09-0.13	0.08-0.12-0.16	0.09-0.15-0.20	0.10-0.18-0.22	0.10-0.20-0.25	
	Low alloy steel Cast steel	case-hardened steel			●	60-80-100	0.12-0.24-0.30	0.15-0.28-0.35	0.20-0.36-0.45	0.20-0.40-0.45	0.22-0.43-0.50	0.22-0.45-0.55	
		heat-treatable steel	600	180	●	60-80-100	0.12-0.24-0.30	0.15-0.28-0.35	0.20-0.36-0.45	0.20-0.40-0.45	0.22-0.43-0.50	0.22-0.45-0.55	
		bearing steel	<850	200	●	60-80-100	0.12-0.24-0.30	0.15-0.28-0.35	0.20-0.36-0.45	0.20-0.40-0.45	0.22-0.43-0.50	0.22-0.45-0.55	
		nitriding steel	<1000	275	●	50-70-90	0.12-0.24-0.28	0.15-0.28-0.32	0.20-0.36-0.40	0.20-0.40-0.42	0.22-0.43-0.47	0.22-0.45-0.50	
	High alloy steel	Tool steel			◎	30-50-60	0.08-0.10-0.15	0.10-0.13-0.24	0.12-0.20-0.28	0.15-0.23-0.30	0.18-0.25-0.35	0.20-0.28-0.40	
hot work steel				◎	30-50-60	0.08-0.10-0.15	0.10-0.13-0.24	0.12-0.20-0.28	0.15-0.23-0.30	0.18-0.25-0.35	0.20-0.28-0.40		
K	Cast iron GG	pearlitic	>250		●	60-90-120	0.15-0.28-0.35	0.18-0.35-0.50	0.20-0.50-0.60	0.22-0.55-0.65	0.25-0.60-0.70	0.25-0.60-0.75	
	Cast iron GGG		>450		●	60-80-100	0.15-0.25-0.30	0.18-0.33-0.40	0.20-0.40-0.50	0.22-0.45-0.55	0.25-0.50-0.60	0.25-0.55-0.65	
N	Aluminum Al-wrought alloys	pure aluminum											
		wrought alloys											
	Aluminum Cast alloys	Si<=12%											
		Si>12%			○	80-110-140	0.15-0.18-0.20	0.15-0.20-0.25	0.20-0.25-0.30	0.20-0.30-0.35	0.25-0.30-0.38	0.25-0.30-0.40	
		Al - Mg alloys											
	Zinc die-cast	Zn alloys											
Copper alloys	Copper												
	Brass			◎	80-100-180	0.15-0.18-0.20	0.15-0.20-0.25	0.20-0.25-0.30	0.20-0.30-0.35	0.25-0.30-0.38	0.25-0.30-0.40		
H	Hardened steel	Bronze											
		45 HRC			◎	30-40-50	0.08-0.10-0.15	0.10-0.15-0.18	0.12-0.20-0.25	0.15-0.20-0.25	0.15-0.22-0.28	0.15-0.25-0.30	
		55 HRC											
		60 HRC											
		>60 HRC											

- The recommended cutting conditions above are for cases where internal supply of a water-soluble coolant is used.
- Can also be used for MQL drilling.
- If using non-water-soluble coolant, reduce the cutting speed and feed rate by 20-30% and ensure that sufficient coolant is supplied.
- When mounting the drill in the collet, make sure that runout around the cutting edge is no greater than 0.02mm.
- Make sure the flute does not enter the collet.
- If the surface of the workpiece is abnormally shaped (tilted, interrupted etc.), reduce the feed rate to about half when feeding the drill in the workpiece.
*If stable drilling is still not possible, pre-drilling of a flat surface with a Flat MULTIDRILL MDF series drill is recommended.
- When performing interrupted through drilling, reduce the feed rate to about half the feed rate used prior to this process.
- If abnormalities such as noise or vibration occur, change the cutting conditions accordingly.

● Preferred choice ◎ Suitable ○ Possible

▶ MULTIDRILL SDPX Series Made-To-Order Request Sheet ◀



■ Equipment Information

Manufacturer : _____

Type : Vertical Machining Centre Horizontal Machining Centre Lathe

Spindle : _____

Coolant : Water-soluble Oil-based MQL

Coolant Supply : Internal Coolant Supply External Coolant Supply

■ Workpiece Information

Part Name : _____

Work Material : _____

Work Material Hardness : _____

Hole type : Through Hole Blind Hole

Interrupted Drilling : Yes No

Hole Depth : _____

Distance of Collision Point : _____

■ Workpiece Shape

■ Required Precision

Hole Dia. Tolerance : _____

Surface Roughness : _____

Hole Positioning Accuracy : _____

Other : _____

■ Current Tool

Cutting Conditions : $vc =$ _____ m/min $f =$ _____ mm/rev

Tool Life: _____

Tool Life Criteria: _____

Chamfered Cutting Edge: _____


After filling in the required dimensions and other information, contact our nearest sales office or distributor.

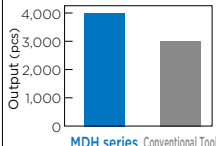
Feel free to contact us with other requests as well.


Company Name/Contact

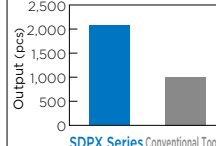
■ Remarks

Application Examples


Steel 20CrNi2Mo Tool Holder		Sumitomo	Conventional Tool
	Tool	SDPX1030S12H08	—
	Diameter (mm)	ø10.3	ø10.3
	L/D	8	8
	vc (m/min)	80	80
	f (mm/rev)	0.45	0.35
	Coolant	Wet (Water-soluble, Internal Coolant Supply)	Wet (Water-soluble, Internal Coolant Supply)
	Results	Approx. 1.3 times the efficiency and 1.35 times the tool life of conventional tools	

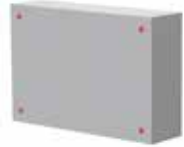




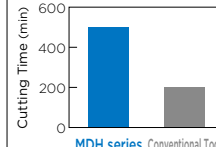
Steel 100 Cr6 Tooling Component		Sumitomo	Conventional Tool
	Tool	SDPX0950S10H05	—
	Diameter (mm)	ø9.5	ø9.5
	L/D	5	5
	vc (m/min)	100	100
	f (mm/rev)	0.30	0.15
	Coolant	Wet (Oil-based, Internal Coolant Supply)	Wet (Oil-based, Internal Coolant Supply)
	Results	Twice the efficiency and at least twice the tool life of conventional tools	



Steel 34CrM04 Ring Gear		Sumitomo	Conventional Tool
 	Tool	SDPX1350S14H05	—
	Diameter (mm)	ø13.5	ø13.5
	L/D	5	5
	vc (m/min)	91	91
	f (mm/rev)	0.40	0.20
	Coolant	Wet (Internal Coolant Supply)	Wet (Internal Coolant Supply)
	Results	Twice the efficiency and tool life of conventional tools	

Steel 100 Cr6 Automotive Component		Sumitomo	Conventional Tool
	Tool	MDH0470S06H05	—
	Diameter (mm)	ø4.7	ø4.7
	L/D	5	5
	vc (m/min)	32	32
	f (mm/rev)	0.30	0.12
	Coolant	Wet (Internal Coolant Supply)	Wet (Internal Coolant Supply)
	Results	2.5 times the efficiency of conventional tools	

Cast Iron GG25 Industrial Machine Component		Sumitomo	Conventional Tool
 	Tool	SDPX0510S06H05	—
	Diameter (mm)	ø5.1	ø5.1
	L/D	5	5
	vc (m/min)	70	70
	f (mm/rev)	0.30	0.20
	Coolant	Wet (Water-soluble, External Coolant Supply)	Wet (Water-soluble, External Coolant Supply)
	Results	1.5 times the efficiency of conventional tools with the same tool life	

Cast Iron GG25 Housing		Sumitomo	Competitor's Product
 	Tool	SDPX0870S10H05	—
	Diameter (mm)	ø8.7	ø8.7
	L/D	5	5
	vc (m/min)	85	85
	f (mm/rev)	0.40	0.20
	Coolant	Wet (Water-soluble, Internal Coolant Supply)	Wet (Water-soluble, Internal Coolant Supply)
	Results	Twice the efficiency and 2.5 times the tool life of competitors' products	



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