



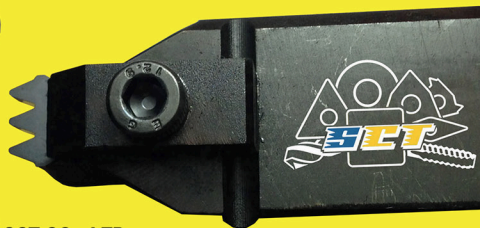
SCT CO., LTD.

Pulley Grooving Tools ■ Grooving Inserts ■ Tool-Holders

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SCT

Pulley Grooving Expert



SCT CO., LTD.

Pulley Grooving Inserts 皮带轮刀片

Insert Types 刀片类别

V		M		L		T	 
Type V - 1 Cutting Edge 单齿皮带轮刀片		Type M - 1 Cutting Edges 单齿皮带轮刀片		Type T - 2 Cutting Edges 双齿皮带轮刀片		Type T - 3 & Multiple Cutting Edges 三齿及多齿皮带轮刀片	

Descriptions of Insert Numbers 皮带轮刀片型号编制说明

PDL	V	N	16	04	2	2	40	356	R41	R32	(B09)
1	2	3	4	5	6	7	8	9	10	11	12

1- Insert Application 刀片用途

PDL - Pulley Grooving Insert 皮带轮刀片

6- Number of Cutting Edges 刃数

7- Number of teeth 齿数

8- 牙型角

9- Tooth Pitch 齿距

10- Corner Radius 刀尖圆弧角

11- 刀片齿底圆弧角

2- Insert Shapes 刀片形状

V	M	L	T

3- Flank Angle / Clearance Angle 刀片后角

N	B	P

4- Inscribed Circle or Insert Width 刀片内切圆或宽度

代号	V	T	L	M
04				4
08			8	7.58
11	6.35			
16	9.525	9.525		
22	12.7	12.7		
27	15.875	15.875		

12- Insert & Coated Carbides 刀片及涂层材料

(B20) - Machining of Free Cutting Steel 加工易切削钢

(B09) - Machining of Casting Parts 加工铸件

(B00) - Machining of Aluminum Alloyed Parts 加工铝件

5- Insert Thickness 刀片厚度

T3	04	05	06	07	08
3.97	4.76	5.5	6.35	7.8	8.8

■ Pulley Grooving Inserts 皮带轮刀片

■ Descriptions of Tool-holder Numbers 皮带轮刀杆型号说明

M	PDL	L	N	-	2	40	25	25	Q	08	356
1	2	3	4	-	5	6	7	8	9	10	11

1. Method of Holding 压紧方式:

M	S	D
Double Clamp Type	Screw-on Type	Clamp-on Type
压板压紧	螺钉压紧	压板压拉固定

2. Application of tool-holder 刀杆用途

PDL - Pulley Grooving Insert 皮带轮刀片

3- Insert Shapes 刀片形状

V	M	L	T

4- Flank Angle / Clearance Angle 刀片后角

N	B	P

5- Number of teeth 刀片齿数

6- Shape of Tool-holder 刀杆形状

7- Height of Tool-holder 刀杆中心高

8- Width of Tool-holder 刀杆宽度

11. Tooth Pitch 齿距: 3.56 / 2.34 / 4.7

10- Inscribed Circle or Insert Width 刀片内切圆或宽度

Code 代号	V	T	L	M
04				4
08		8	8	
12		12		
15		15		
16	9.525			
19		19		
22		22		

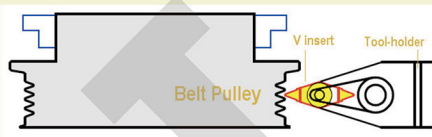
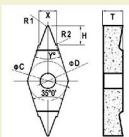
9- Tool-holder Length 刀杆长度

F	G	H	J	K	L	M	N	P	Q	R	S
80	90	100	110	125	140	150	160	170	180	200	250

■ Pulley Grooving Inserts 皮带轮刀片

■ V-type Pulley Grooving Inserts – 1 cutting edge V 型单齿皮带轮刀片

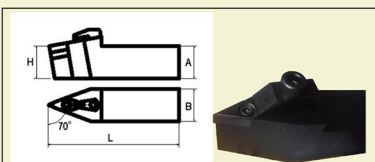
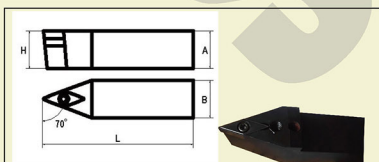
Insert Type 类型	Shape 刀片图例	Tooth / Teeth 齿数	Performances 使用特点
V		1	刀杆通用，切削阻力小，刚性好，加工较深齿形不会干涉。 - V type inserts are of good stiffness with small resistance of cutting force; - When processing deeper V-ribbed grooves, V insert is the good solution of machining interference; - The tool-holder is general and universal.



Insert Number 型号	Dimensions (mm) 尺寸 (厘米)							
	Y°	H	X	D	R1	R2	T	C
PDLVB160412-40234R40R30	40°	1.86	2.34	3.60	0.40	0.30	4.76	9.525
PDLVB160412-40234R30R30	40°	1.87	2.34	3.60	0.30	0.30	4.76	9.525
PDLVB160412-40234R20R30	40°	2.05	2.34	3.60	0.20	0.30	4.76	9.525
PDLVB160412-40234R20R40	40°	2.06	2.34	3.60	0.20	0.40	4.76	9.525
PDLVB160412-40356R50R40	40°	3.16	3.56	3.60	0.50	0.40	4.76	9.525
PDLVB160412-40356R40R40	40°	3.35	3.56	3.60	0.40	0.40	4.76	9.525
PDLVB160412-40356R40R30	40°	3.54	3.56	3.60	0.40	0.30	4.76	9.525
PDLVB160412-40356R30R30	40°	3.74	3.56	3.60	0.30	0.30	4.76	9.525
PDLVB160412-40356R40R20	40°	3.74	3.56	3.60	0.40	0.20	4.76	9.525
PDLVB160412-40356R20R30	40°	3.92	3.56	3.60	0.20	0.30	4.76	9.525

Note: R1, R2 and H can be designed and be machined upon customer's requests. Please contact SCT sales representatives for more information.

■ Tool-holders for V-type Inserts 单齿皮带轮刀杆



■ VB tool holder VB 型皮带轮刀杆

Tool-holder Numbers 型号	A	B	L	H
SPDLVB1-403562020M16	20	20	150	20
SPDLVB1-403562525M16	25	25	150	25
SPDLVB1-402342020M16	20	20	150	20
SPDLVB1-402342525M16	25	25	150	25

■ VN tool holder VN 型皮带轮刀杆

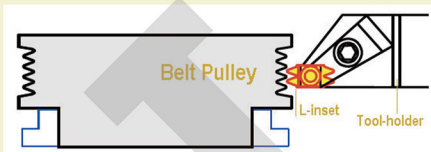
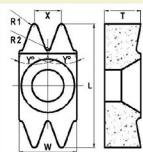
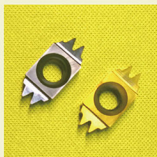
Tool-holder Numbers 型号	A	B	L	H
SPDLVN16041-403562020M16	20	20	150	20
SPDLVN16041-403562525M16	25	25	150	25
SPDLVN16041-402342020M16	20	20	150	20
SPDLVN16041-402342525M16	25	25	150	25



■ Pulley Grooving Inserts 皮带轮刀片

■ L-type Pulley Grooving Inserts – 2 cutting edges L 型双齿皮带轮刀片

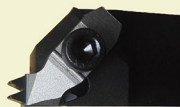
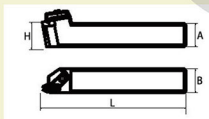
Insert Type 类型	Shape 刀片图例	Tooth / Teeth 齿数	Performances 使用特点
L		2	最为通用，兼顾机床刚性和加工效率，性价比高 - L type inserts with 2 edges are the most popular V pulley grooving inserts (GPV inserts). - L inserts have advantages of high-efficiency, economical price and good cutting performances.



Insert Number 型号	Dimensions (mm) 尺寸 (mm)							
	Y°	W	H	L	X	T	R1	R2
PDLLN08042-40234R40R30	40°	7.58	1.86	16.20	2.34	4.75	0.40	0.30
PDLLN08042-40234R30R30	40°	7.58	1.87	16.20	2.34	4.75	0.30	0.30
PDLLN08042-40234R20R30	40°	7.58	2.05	16.20	2.34	4.75	0.20	0.30
PDLLN08042-40234R20R40	40°	7.58	2.06	16.20	2.34	4.75	0.20	0.40
PDLLN08042-40356R30R40	40°	7.58	3.16	16.20	3.56	4.75	0.50	0.40
PDLLN08042-40356R40R40	40°	7.58	3.35	16.20	3.56	4.75	0.40	0.40
PDLLN08042-40356R40R30	40°	7.58	3.54	16.20	3.56	4.75	0.40	0.30
PDLLN08042-40356R30R30	40°	7.58	3.74	16.20	3.56	4.75	0.30	0.30
PDLLN08042-40356R40R20	40°	7.58	3.74	16.20	3.56	4.75	0.40	0.20
PDLLN08042-40356R20R30	40°	7.58	3.92	16.20	3.56	4.75	0.20	0.30

Note: R1, R2 and H can be designed and be machined upon customer's requests. Please contact SCT sales representatives for more information.

■ Tool-holders for L-type Inserts L 型双齿皮带轮刀杆



■ LN tool holder LN 型皮带轮刀杆

Tool-holder Numbers 型号	Dimensions (mm) 尺寸 (mm)					
	A	B	L	H	M	E
DPDLLN2-40356M08	25	25	150	25	08	356
DPDLLN2-40234M08	25	25	150	25	08	234

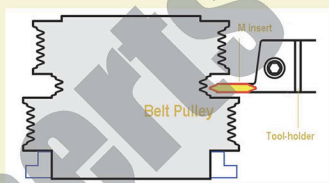
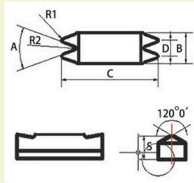
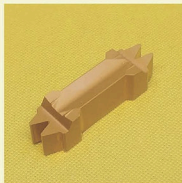
■ MN tool holder MN 型皮带轮刀杆

Tool-holder Numbers 型号	Dimensions (mm) 尺寸 (mm)						
	A	B	C	D	S	R1	R2
PDLMN04041-40356	40	4	22	3.56	4.76	0.4	0.3
PDLMN04041-40234	40	4	22	2.34	4.76	0.2	0.3
PDLMN08062-40356	40	7.58	25	3.56	8.8	0.4	0.3
PDLMN08063-40234	40	7.58	25	2.34	8.8	0.2	0.3

■ Pulley Grooving Inserts 皮带轮刀片

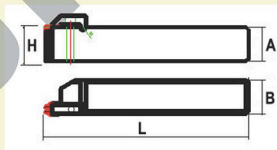
■ M-type Pulley Grooving Inserts – 1 cutting edge M 型单齿皮带轮刀片

Insert Type 类型	Shape 刀片图例	Tooth/Teeth 齿数	Performances 使用特点
M		1	刀杆为常规数控刀杆, 加工阻力小, 在加工深槽时能有效避开干涉。 - Tool-holder is general type for CNC inserts. - M type inserts have advantage of small cutting force. - This insert avoids machining interference when making deeper grooves.



Insert Numbers 型号	Dimensions 尺寸						
	A	B	C	D	S	R1	R2
PDLMN04041-40356	40	4	22	3.56	4.76	0.4	0.3
PDLMN04041-40234	40	4	22	2.34	4.76	0.2	0.3
PDLMN08082-40356	40	7.58	25	3.56	8.8	0.4	0.3
PDLMN08083-40234	40	7.58	25	2.34	8.8	0.2	0.3

■ Tool-holders for M-type Inserts M 型单齿皮带轮刀杆

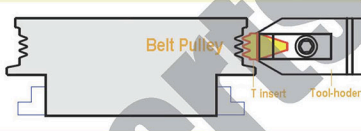
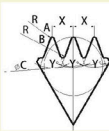


Tool-holder Numbers 型号	Dimensions 尺寸			
	A	B	L	H
MPDLMN1-40356M04	40	4	150	3.56
DPDLMN1-40234M04	40	4	150	2.34
MPDLMN2-40356M08	40	7.58	150	3.56
DPDLMN3-40234M08	40	7.58	150	2.34

■ Pulley Grooving Inserts 皮带轮刀片

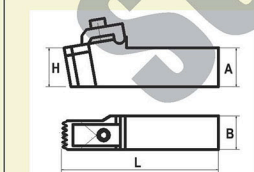
■ T-type Pulley Grooving Inserts – 3 & multiple cutting edges T 型三齿或多齿皮带轮刀片

Insert Type 类型	Shape 刀片图例	Tooth / Teeth 齿数	Performances 使用特点
T		≥ 3	加工效率高, 更适合精加工, 可按客户要求设计一次成型加工 - High efficiency of machining, more suitable for high precision machining. - SCT can design and produce inserts with different edges depend on customers demands.



Insert Numbers 型号	Dimensions (mm) 尺寸(mm)						
	Y	B	C	X	T	A	B
PDLTN080412-40356 R40R30	40	7.58	9.525	3.56	3.97	0.4	0.3
PDLTN120513-40356 R40R30	40	11.14	9.525	3.56	5.5	0.4	0.3
PDLTN150614-40356 R40R30	40	14.7	12.7	3.56	6.35	0.4	0.3
PDLTN190715-40356 R40R30	40	18.26	15.875	3.56	7.8	0.4	0.3
PDLTN210816-40356 R40R30	40	21.82	21.5	3.56	8.8	0.4	0.3
PDLTN080413-40234 R20R30	40	7.9	9.525	2.34	3.97	0.2	0.3
PDLTN120514-40234 R20R30	40	10.32	9.525	2.34	5.5	0.2	0.3
PDLTN150615-40234 R20R30	40	12.66	12.7	2.34	6.35	0.2	0.3
PDLTN150616-40234 R20R30	40	15	12.7	2.34	6.35	0.2	0.3

■ Tool-holder for T-type Pulley Grooving Inserts T 型皮带轮刀杆



Tool-holder Numbers 型号	Dimensions (mm) 尺寸(mm)				
	A	B	L	H	X
MPDLTN2-403562525M08	25	25	150	25	3.56
MPDLTN3-403562525M12	25	25	150	25	2.34
MPDLTN4-403562525M15	25	25	150	25	3.56
MPDLTN5-403562525M19	25	25	150	25	3.56
MPDLTN6-403562525M21	25	25	150	25	3.56
MPDLTN3-402342525M08	25	25	150	25	3.56
MPDLTN4-402342525M12	25	25	150	25	3.56
MPDLTN5-402342525M15	25	25	150	25	3.56
MPDLTN6-402342525M15	25	25	150	25	3.56

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■ Inspection Devices 检测设备



■ Ready Parts for Shipment 成品待运



■ Convenient Shipment 便捷运输



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