
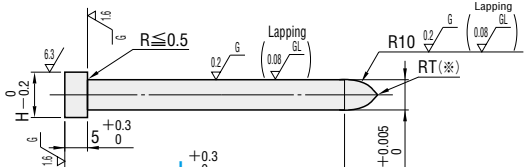




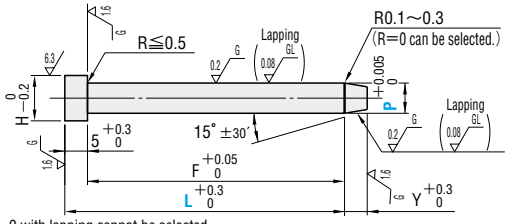



# CARBIDE STRAIGHT PILOT PUNCHES

PRODUCTS DATA

P.1604

Type	M	Catalog No.	Shape
—Tip R type— 	RoHS	<b>WSTC</b> Lapping <b>L—WSTC</b>	 <p>RT(*) → If P &lt; 8, tip is rounded for safety. To keep the sharp tip (no rounding), specify RT=0. (However if P ≥ 8, tip end is flat. <b>P.1592</b>)                      For the length of tip R, refer to the products data "Punch R length". <b>P.1592</b>                      Although the marks of processing may remain in the center of a Shank end face, it is satisfactory on a function.                      RT=0 with lapping cannot be selected.</p>
—Tip R-lapping— 			
—TiCN coating— 			
—Tapered tip type— 	RoHS	<b>WTTC</b> Lapping <b>L—WTTC</b>	
—Tapered tip-lapping— 			 <p>RT=0 with lapping cannot be selected.                      Although the marks of processing may remain in the center of a Shank end face, it is satisfactory on a function.</p>
—TiCN coating— 			

Catalog No. Type	No.	L				0.001mm increments (With coating, 0.01mm increments)		Y	H
		min.	P	max.		min.	P		
(Tip R type)	3	42	52	62	2.000	~	3.000	2	5
(Tapered tip type)	4	42	52	62	3.000	~	4.000		
—Lapping—	5	42	52	62	4.000	~	5.000	3	8
—TiCN coating—	6	42	52	62	5.000	~	6.000		
	8	42	52	62	6.000	~	8.000	5	11
	10	42	52	62	8.000	~	10.000		

P dimension increments → For TiCN coating, increments are 0.01mm. (If used with PKC alteration, 0.001mm increments can be selected.)

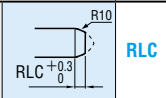


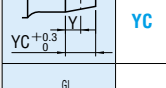
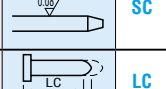
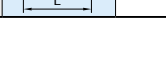
**Order** Catalog No. — L — P — (RT=0 / R=0)  
**WSTC 3** — 42 — P2.490 — RT0  
**WTTC 3** — 42 — P2.490 — R0

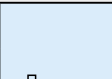
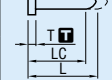
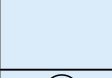

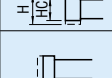
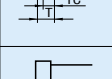


**Price** **Quotation**

RT=0 only can be selected: Can be used for tip R types (except lapping).  
 R=0 only can be selected: Can be used for tapered tip types (except lapping).

**Days to Ship** **Quotation**


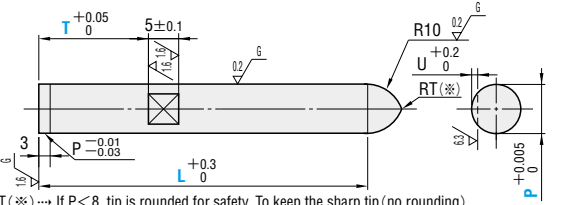

**Alterations** Catalog No. — (L(LC-LCT-LMT)) — P — (RT=0 / R=0) — (HC-TC, etc.)  
**WTTC 3** — LC45.0 — P2.490 — YC3

Alteration	Code	Diagram	1Code
RLC	RLC		
PKC	PKC		
PKV	PKV		
YC	YC		
SC	SC		
LC	LC		

Alteration	Code	Diagram	1Code
LCT	LCT		
LMT	LMT		
KC	KC		
WKC	WKC		
HC	HC		
TC	TC		
TKC	TKC		
TKM	TKM		

# CARBIDE STRAIGHT PILOT PUNCHES WITH KEY GROOVES

CARBIDE PILOT PUNCHES

Type	M	Catalog No.	Shape
—Tip R type— 	RoHS	<b>WKSTC</b>	 <p>RT(*) → If P &lt; 8, tip is rounded for safety. To keep the sharp tip (no rounding), specify RT=0. (However if P ≥ 8, tip end is flat. <b>P.1592</b>)                      For the length of tip R, refer to the products data "Punch R length". <b>P.1592</b>                      Although the marks of processing may remain in the center of a Shank end face, it is satisfactory on a function.</p>
—Tapered tip type— 	RoHS	<b>WKTTTC</b>	

Catalog No. Type	No.	L				0.001mm increments		0.1mm increments T	Y	U
		min.	P	max.		min.	P			
<b>WKSTC</b> <b>WKTTTC</b>	3	42	52	62	2.000	~	3.000	T ≥ 5.0	2	0.5
	4	42	52	62	3.000	~	4.000			
	5	42	52	62	4.000	~	5.000			
	6	42	52	62	5.000	~	6.000			
	8	42	52	62	6.000	~	8.000			
	10	42	52	62	8.000	~	10.000			

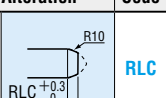
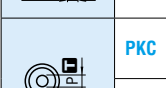
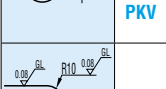
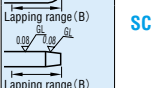
**Order** Catalog No. — L — P — T — (RT=0 / R=0)  
**WKSTC 3** — 42 — P2.490 — T10.0 — RT0  
**WKTTTC 3** — 42 — P2.490 — T10.0

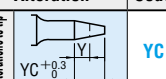
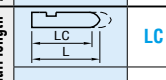
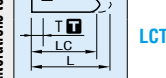
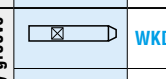


**Price** **Quotation**

If no key groove is required, select T=L.  
 RT=0 only can be selected: Can be used for tip R types (except lapping).  
 R=0 only can be selected: Can be used for tapered tip types (except lapping).

**Days to Ship** **Quotation**

**Alterations** Catalog No. — (L(LC-LCT)) — P — T — (RT=0 / R=0) — (YC, etc.)  
**WKTTTC 3** — LC45.0 — P2.490 — T10.0 — YC3

Alteration	Code	Diagram	1Code
RLC	RLC		
PKC	PKC		
PKV	PKV		
SC	SC		

Alteration	Code	Diagram	1Code
YC	YC		
LC	LC		
LCT	LCT		
WKC	WKC		
TKC	TKC		
UK	UK		

Fixing keys for punches with key grooves  
**P.245**

