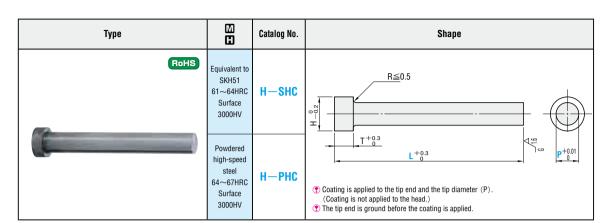
STRAIGHT PUNCHES

-TICN COATING-





Catalog No											0.01mm increments	Н	т	Base unit price 1∼9 pieces
Туре	No.					L					min. P max.	п	'	H-SHC H-PHC
	4	40	50	60	70	80					3.00~ 4.00	7		
	5	40	50	60	70	80					4.00~ 5.00	8		
	6	40	50	60	70	80					$5.00\sim$ 6.00	9		
H—SHC	8	40	50	60	70	80	90	100			6.00~ 8.00	11		
	10	40	50	60	70	80	90	100			8.00~ 10.00	13	5	Quotation)
H—PHC	13	40	50	60	70	80	90	100	110	120	10.00~ 13.00	16		
	16	40	50	60	70	80	90	100	110	120	13.00~ 16.00	19		
	20	40	50	60	70	80	90	100	110	120	16.00~ 20.00	23		
	25	40	50	60	70	80	qn	100	110	120	20 00~ 25 00	28		



- 40 - P5.50



Days to Ship Quotation

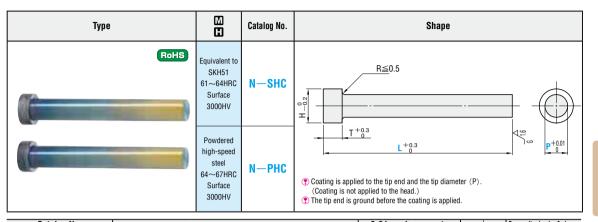




Quotation

	Alteration	Code	Spec.	1Code					
	0. 16 GL Effective lapping range (B)	SC	Lapping of tip P dimension tolerance and increment are the same. The base material is finished before coating is applied. Refer to the 224 page for a Effective lapping range.						
s to tip	PRC±0.05	PRC	Rounding of tip side edge 0.3≦PRC≦1 0.1 mm increments • PRC≦(P-0.2)/2						
Alterations to tip	PCC±0.05	PCC	Chamfering to tip side edge 0.3≦PCC≦1 0.1 mm increments PCC≦(P−0.2)/2 ⊗ Cannot be combined with PRC • GC.						
	GC	GC	20° ≤GC<90° 1° increments ⊗ Cannot be combined with LKC+LCT+LMT+ PRC+PCC.	otation					
ŧ	LC L	LC	Full length change 20≦LC < L 0.1 mm increments (If combined with LKC, 0.01 mm increments can be selected.)	Ono					
Alterations to full length		LCT	Changes to head thickness tolerance and full length are processed using a single code. The allowable range of change, increment, ordering process, and notes ($\ensuremath{\mathfrak{T}}$) are the same as for LC. Full length tolerance change $ \begin{array}{c} TKC \\ TC \\ T$						
Alteration	- LC LC L	LMT	Changes to head thickness tolerance and full length are processed using a single code. The allowable range of change, increment, ordering process, and notes (\P) are the same as for LC. TKM Lc Full length tolerance change						

	Alteration	Code	Spec.	1Code
Full length		LKC	Full length tolerance change $L^{+0.3} \Leftrightarrow \begin{array}{l} +0.3 \\ 0 \end{array} \Leftrightarrow \begin{array}{l} \bullet \\ 0 \end{array}$ combined with GC.	
		KC	Addition of single key flat to head	
		WKC	Addition of double key flats in parallel	
head		KFC	Double key flats at 0" and a selected angle 1" increments Cannot be combined with KC - WKC.	otation
Alterations to head	TC.	TC	Head thickness change 4.0≦TC <t (if="" (t—tc).="" 0.01="" 0.1="" be="" by="" can="" combined="" equal="" full="" if="" increments="" is="" l="" lc-lct-lmt,="" lc.<="" length="" mm="" selected.)="" shortened="" td="" tkc.tkm-lct-lmt,="" to="" with="" •=""><td>Ono</td></t>	Ono
Alte	П	TKC	Head thickness toler- $T^{+0.3}_0 \Leftrightarrow ^{+0.02}_0$ ance change	
		TKM	Head thickness toler- T $^{+0.3}_0$ \Rightarrow _0.02	
	TCC	TCC	Chamfering of head This improves the strength of the punch head. ► P.1611 0.1 mm increments 0.5≦TCC≤(H−P)/2 If H≦5, then TCC is 0.5.	



	Catalog No.											0.01mm increments	н	т .	Base unit price 1∼9 pieces
	Туре	No.					L					min. P max.	п	' '	N-SHC N-PHC
_		4	40	50	60	70	80					3.00~ 4.00	7		
		5	40	50	60	70	80					$4.00 \sim 5.00$	8		
		6	40	50	60	70	80					5.00~ 6.00	9		
	N-SHC	8	40	50	60	70	80	90	100			6.00~ 8.00	11		
		10	40	50	60	70	80	90	100			8.00~ 10.00	13	5	Quotation)
	N-PHC	13	40	50	60	70	80	90	100	110	120	10.00~ 13.00	16		
		16	40	50	60	70	80	90	100	110	120	13.00~ 16.00	19		
		20	40	50	60	70	80	90	100	110	120	16.00~ 20.00	23		
		25	40	50	60	70	80	90	100	110	120	20.00~ 25.00	28		



Catalog No. | — | L | — | P N-SHC 6 - 40 - P5.50 N-PHC 8 - 70 - P6.30

LC45

— P5.50 — LKC



Days to Ship Quotation



Quotation

$\overline{}$						
	Alteration	Code	Spec.	1Code		Alte
	O. 16 GL Ellective lapping range (B)	SC	Lapping of tip P dimension tolerance and increment are the same. The base material is finished before coating is applied. P Refer to the 224 page for a Effective lapping range.		Full length	[] -
s to tip	PRC±0.05	PRC	Rounding of tip side edge 0.3≦PRC≦1 0.1 mm increments • PRC≦(P-0.2)/2		<u> </u>	
Alterations to tip	PCC±0.05	PCC	Chamfering to tip side edge 0.3≦PCC≦1 0.1 mm increments PCC≦(P−0.2)/2 ⊗ Cannot be combined with PRC•GC.			
	GC	GC	20* \(\leq C < 90* \) 1* increments Cannot be combined with LKC+LCT+LMT+ PRC+PCC.	otation	Alterations to head	
€	LC L	LC	Full length change 20≦LC <l 0.1 mm increments (If combined with LKC, 0.01 mm increments can be selected.)</l 	Ono	Alteration	
to full leng	_	LCT	Changes to head thickness tolerance and full length are processed using a single code. The allowable range of change, increment, ordering process, and notes (●) are the same as for LC. TKC LC Full length tolerance change			
Alterations to full length	T LC	LMT	TKM red lines bleaker badge $+$ Length change to head thickness tolerance and full length are processed using a single code. The allowable range of change, increment, ordering process, and notes () are the same as for LC.			
			$ \begin{array}{c} \text{Head thickness tolerance change} & \textbf{LC} & \text{tolerance change} \\ \textbf{T} \overset{+0.3}{=} & \overset{0}{\Rightarrow} \overset{-0}{=} \overset{-0.12}{=} \overset{+0.1}{\Rightarrow} \overset{+0.1}{\Rightarrow}$			

	Alteration	Code	Spec.	1Code
Full length		LKC	Full length tolerance change $L^{+0.3}_{0} \Rightarrow {+0.05 \atop 0} \otimes Cannot be combined with GC.$	
		KC	Addition of single key flat to head	
		WKC		
Alterations to head	0	KFC	Double key flats at 0° and a selected angle 1° increments Cannot be combined with KC - WKC.	otation
	TC.	TC	Head thickness change 4.0≦TC <t (frombined="" (t—tc).="" 0.01="" 0.1="" be="" by="" can="" combined="" equal="" full="" if="" increments="" is="" l="" lc-lct-lmt,="" lc.<="" length="" mm="" selected.)="" shortened="" td="" tkc:tkh-lct-lmt,="" to="" with="" ●=""><td>Ono</td></t>	Ono
Alte		TKC	Head thickness toler- $T^{+0.3}_0 \Leftrightarrow ^{+0.02}_0$ ance change	
		TKM	Head thickness toler- T $^{+0.3}$ \Rightarrow 0 ance change	
	TCC	TCC	Chamfering of head This improves the strength of the punch head. \blacksquare P.1611 0.1 mm increments 0.5 \leq TCC \leq (H $-$ P)/2 \bigcirc If H \leq 5, then TCC is 0.5.	
			■ Effects of DLC coating	

■Effects of DLC coating

Effective for preventing adhesion during aluminum or copper blanking thanks to its low affinity for nonferrous metal.See the product data for details. EFP.1609