

Shank type	□	Shank diameter tolerance	Standard	Dicoat®	TiCN Coating	WPC® (Red) HW coating (Green)	Lapping type
Shoulder	SKD11	D _{m5} D ^{+0.005} ₀	SP□□	T-SP□□	P.51	W-SP□□	L-SP□□
			A-SP□□			AT-SP□□	AW-SP□□
	SKH51	D _{m5} D ^{+0.005} ₀	SH□□	H-SH□□	P.53	W-SH□□	L-SH□□
			A-SH□□			AH-SH□□	AW-SH□□
Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	PH□□	T-PH□□	P.51	W-PH□□	L-PH□□	
		A-PH□□			AT-PH□□	AW-PH□□	AL-PH□□
Shoulder jector	SKD11 (D4~6SKH51)	D _{m5} D ^{+0.005} ₀	SJ□□	T-SJ□□	P.61	W-SJ□□	L-SJ□□
			A-SJ□□			AT-SJ□□	AW-SJ□□
	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	PJ□□	T-PJ□□	P.63	W-PJ□□	L-PJ□□
			A-PJ□□			AT-PJ□□	AW-PJ□□
SKD11	D _{m5} D ^{+0.005} ₀	LFSJ□□	A-LFSJ□□	P.69		Alteration SC	
		A-LFSJ□□					
Shoulder quill	SKH51	D _{m5} D ^{+0.005} ₀	SH□□	H-SH□□	P.71	W-SH□□	L-SH□□
			A-SH□□			AH-SH□□	AW-SH□□
	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	PH□□	H-PH□□	P.71	W-PH□□	L-PH□□
			A-PH□□			AH-PH□□	AW-PH□□
Shoulder short	SKD11	D _{m5} D ^{+0.005} ₀	SS□□	H-SSH□□	P.73	W-SS□□	L-SS□□
			A-SS□□			AH-SSH□□	AW-SS□□
	SKH51	D _{m5} D ^{+0.005} ₀	SSH□□	H-SSH□□	P.73	W-SSH□□	L-SSH□□
			A-SSH□□			AH-SSH□□	AW-SSH□□
Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	SSP□□	H-SSP□□	P.73	W-SSP□□	L-SSP□□	
		A-SSP□□			AH-SSP□□	AW-SSP□□	AL-SSP□□
Two steps shoulder	SKD11	D _{m5} D ^{+0.005} ₀	SPTW□	A-SPTW□	P.75		Alteration SC
			A-SPTW□				
	SKH51	D _{m5} D ^{+0.005} ₀	SHTW□	A-SHTW□	P.75		Alteration SC
			A-SHTW□				
Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	PHTW□	A-PHTW□	P.75		Alteration SC	
		A-PHTW□					
Two steps shoulder quill	SKH51	D _{m5} D ^{+0.005} ₀	SHTWA	A-SHTWA	P.77		Alteration SC
			A-SHTWA				
	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	PHTWA	A-PHTWA	P.77		Alteration SC
			A-PHTWA				
Key flat	SKD11	D _{m5} D ^{+0.005} ₀	G-SP□□	G-SH□□	P.79		Alteration SC
			A-SP□□			AH-SH□□	AW-SH□□
	SKH51	D _{m5} D ^{+0.005} ₀	G-SH□□	G-SH□□	P.79		Alteration SC
			A-SH□□			AH-SH□□	AW-SH□□
Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	G-PH□□	G-PH□□	P.79		Alteration SC	
		A-PH□□			AH-PH□□	AW-PH□□	AL-PH□□
Key flat jector	SKD11 (D4~6SKH51)	D _{m5} D ^{+0.005} ₀	G-SJ□□	G-PJ□□	P.81		Alteration SC
			A-SJ□□			AH-PJ□□	AW-PJ□□
	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	G-PJ□□	G-PJ□□	P.81		Alteration SC
			A-PJ□□			AH-PJ□□	AW-PJ□□
With center hole	SKD11	D _{m5}	SP□□-C	T-SP□□-C	P.85	W-SP□□-C	Alteration SC
			A-SP□□-C	AT-SP□□-C	P.87	Alteration SC	
With center hole jector	SKD11	D _{m5}	SJ□□-C	T-SJ□□-C	P.91	W-SJ□□-C	Alteration SC
			A-SJ□□-C	AT-SJ□□-C	P.90	Alteration SC	
For heavy load	SKH51	D _{m5} D ^{+0.005} ₀	AP□□	H-AP□□	P.95	W-AP□□	L-AP□□
			A-AP□□			AH-AP□□	AW-AP□□
	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	APH□□	H-APH□□	P.97	W-APH□□	L-APH□□
			A-APH□□			AH-APH□□	AW-APH□□
For heavy load jector	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	APJ□□	H-APJ□□	P.105	W-APJ□□	L-APJ□□
			A-APJ□□			AH-APJ□□	AW-APJ□□
	SKH51	D _{m5}	TSSHA□	H-TSSHA□	P.115	W-TSSHA□	L-TSSHA□
			TSPHA□			AH-TSPHA□	AW-TSPHA□

Shank type	□	Shank diameter tolerance	Standard	Dicoat®	TiCN Coating	WPC® (Red) HW coating (Green)	Lapping type
For heavy load with center hole	SKH51	D _{m5}	AP□□-C	P.117	H-AP□□-C	P.119	Alteration SC
			APH□□-C				
For heavy load with center hole jector	SKH51	D _{m5}	AHJ□□-C	P.123	H-AHJ□□-C	P.125	Alteration SC
Two-steps shoulder for heavy load	SKH51	D _{m5} D ^{+0.005} ₀	APTW□	P.129			Alteration SC
			A-APTW□				
With tapping	SKD11	D _{m5} D ^{+0.005} ₀	MP□□	P.131	T-MP□□	P.133	Alteration SC
			A-MP□□				
	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	MPH□□	P.131	T-MPH□□	P.133	Alteration SC
			A-MPH□□				
Tapped jector	SKD11	D _{m5} D ^{+0.005} ₀	MJ□□	P.135			Alteration SC
			A-MJ□□				
Two steps Tapped	SKD11	D _{m5} D ^{+0.005} ₀	MPTW□	P.137			Alteration SC
			A-MPTW□				
Key flat tapped	SKD11	D _{m5} D ^{+0.005} ₀	G-MP□□	P.139	Alteration SKC	P.134	Alteration SC
			A-MP□□				
	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	G-MPH□□	P.139	Alteration SKC	P.134	Alteration SC
			A-MPH□□				
With key groove	SKD11	D _{m5} D ^{+0.005} ₀	SK□□	P.141			Alteration SC
			A-SK□□				
	SKH51	D _{m5} D ^{+0.005} ₀	SHK□□	P.141			Alteration SC
			A-SHK□□				
Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	PK□□	P.141			Alteration SC	
		A-PK□□					
Tapped jector with key groove	SKD11	D _{m5} D ^{+0.005} ₀	SKJ□□	P.145			Alteration SC
			A-SKJ□□				
Round	Powdered high-speed steel	D _{m5} D ^{+0.005} ₀	PHTAL	P.147	H-PHTAL	P.147	Alteration SC
Straight	SKD11	—	SPC	P.149			L-SPC
			SHC				L-SHC
	SKH51	—	PHC	P.150			L-PHC
Straight jector	SKD11 (No.5-6SKH51)	—	SJC	P.151			L-SJC
Tapped straight	SKD11	—	MSPC	P.152			L-MSPC
Blanking Punches	SKD11	D _{m5}	SPCPD	P.153			
Mini	SKH51	—	SHCL	P.155			
Mini straight	SKH51	—	SH	P.156			

■ The flange of punches and punch blanks made of powder high-speed tool steel is annealed; it is softer than other portions. (50~55HRC)
 ◎ However, the following types have not been annealed.
 • Stopper flange type
 • Short type
 • Shank diameter (dimension D) 1.6, 2.0, 2.5

