

PRESS BRAKE TOOLS

Press Brake Tooling Code List



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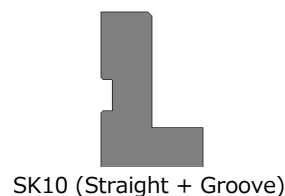
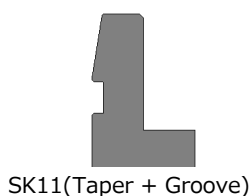
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\* Red colored items indicate the catalog codes are obsolete. They are available as special tools.

[SK Code for Punch]  
SK Code is described on each pages.  
Please check your GRIP type  
and select SK Code (10 or 11).



# Standard Punches H=67

SK10, 11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
<b>4</b>		88°	R0.2	00402	1000 kN/m	9mm	11.2	L	<b>004021</b>	
							5.6	S	<b>004022</b>	
			R0.6	00406			11.2	L	<b>004061</b>	
							5.6	S	<b>004062</b>	
			R0.8	00408			11.2	L	<b>004081</b>	
							5.6	S	<b>004082</b>	
			R1.5	00415			11.2	L	<b>004151</b>	
		5.6	S	<b>004152</b>						
<b>148</b> (No.4 Sect.)		88°	R0.2	14802	450 kN/m	9mm	10	A-Sect.	<b>148021</b>	
									<b>148061</b>	
			R0.6	14806					<b>148081</b>	
									<b>148151</b>	
			R0.8	14808					<b>148301</b>	
				<b>148302</b>						
<b>16</b>		90°	R0.2	01602	1000 kN/m	9mm	11.2	L	<b>016021</b>	
							5.6	S	<b>016022</b>	
			R0.8	01608			11.2	L	016081	End of sales
							5.6	S	016082	
			R1.5	01615			11.2	L	016151	
		5.6	S	016152						
R3.0	01630	11.2	L	016301						
		5.6	S	016302						
<b>147</b> (No.16 Sect.)		90°	R0.2	14700	450 kN/m	9mm	10	A-Sect.	<b>147001</b>	
									<b>147081</b>	End of sales
			R0.8	14708					<b>147151</b>	
									<b>147301</b>	
				<b>147302</b>						
<b>117</b>		88°	R0.2	11700	200 kN/m	4mm	10.6	L	<b>117001</b>	
							5.3	S	<b>117002</b>	
			R0.6	11706			10.6	L	<b>117061</b>	
							5.3	S	<b>117062</b>	
<b>11780</b> (No.117 Sect.)		88°	R0.2	11780	100 kN/m	4mm	10	B-Sect.	<b>117801</b>	
									<b>117861</b>	
<b>116</b>		90°		11600	200 kN/m	4mm	10.6	L	<b>116001</b>	
							5.3	S	<b>116002</b>	
<b>11680</b> (No.116 Sect.)		90°	R0.2	11680	100 kN/m	4mm	10	B-Sect.	<b>116801</b>	

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm)

※L:835mm S:415mm

※B Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),165,300 Total 800mm)

※Red codes are obsolete items.

# Burring Punches H=67

SK10, 11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.
<b>0048</b> No.1		88°	R0.2	00480	400 kN/m	4	10.7	L	<b>004801</b>
							5.3	S	<b>004802</b>
			R0.6	00486			10.7	L	<b>004861</b>
							5.3	S	<b>004862</b>
<b>1488</b> (No.0048 Sect.)			R0.2	14880	200 kN/m		9.3	A-Sect.	<b>148801</b>
			R0.6	14886					<b>148861</b>
<b>0168</b> No.1		90°	R0.2	01680	400 kN/m	4	10.7	L	<b>016801</b>
							5.3	S	<b>016802</b>
<b>1478</b> (No.0168 Sect.)				14780	200 kN/m		9.3	A-Sect.	<b>147801</b>
<b>0049</b> No.2		88°	R0.2	00490	800 kN/m	1	10.8	L	<b>004901</b>
							5.4	S	<b>004902</b>
			R0.6	00496			10.8	L	<b>004961</b>
							5.4	S	<b>004962</b>
<b>1489</b> (No.0049 Sect.)			R0.2	14890	400 kN/m		9.3	A-Sect.	<b>148901</b>
			R0.6	14896					<b>148961</b>
<b>0169</b> No.2		90°	R0.2	01690	800 kN/m	1	10.8	L	<b>016901</b>
							5.4	S	<b>016902</b>
<b>1479</b> (No.0169 Sect.)				14790	400 kN/m		9.3	A-Sect.	<b>147901</b>

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

# Gooseneck Punches H=90

SK10, 11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
<b>452</b>		88°	R0.2	45202	700 kN/m	9	19.8	L	<b>452021</b>	
							9.8	S	<b>452022</b>	
			R0.6	45206			19.8	L	<b>452061</b>	
							9.8	S	<b>452062</b>	
			R0.8	45208			19.8	L	452081	End of sales
							9.8	S	452082	
			R1.5	45215			19.8	L	452151	
							9.8	S	452152	
R3.0	45230	19.8	L	452301						
		9.8	S	452302						
<b>150</b> (No.452 Sect.)	<p>&lt;Ear Shape&gt;</p>	88°	R0.2	15002	450 kN/m	A-Sect.	17.3		<b>150021</b>	
									<b>150061</b>	
									150081	End of sales
									150151	
									150301	
<b>462</b>		90°	R0.2	46200	700 kN/m	9	19.8	L	462001	End of sales
					450 kN/m		17.3	A-Sect.	151001	
<b>453</b>		88°	R0.2	45302	500 kN/m	6	18.7	L	<b>453021</b>	
							9.3	S	<b>453022</b>	
			R0.6	45306			18.7	L	<b>453061</b>	
							9.3	S	<b>453062</b>	
			R0.8	45308			18.7	L	453081	End of sales
							9.3	S	453082	
			R1.5	45315			18.7	L	453151	
							9.3	S	453152	
R3.0	45330	18.7	L	453301						
		9.3	S	453302						
<b>155</b> (No.453 Sect.)	<p>&lt;Ear Shape&gt;</p>	88°	R0.2	15502	300 kN/m	A-Sect.	16.7		<b>155001</b>	
									<b>155061</b>	
									155081	End of sales
									155151	
									155301	
<b>463</b>		90°	R0.2	46300	500 kN/m	6	19.8	L	463001	End of sales
					300 kN/m		16.7	A-Sect.	156001	
<b>156</b> (No.463 Sect.)		90°	R0.2	15600	300 kN/m	6	16.7	A-Sect.	156001	End of sales

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

※Red codes are obsolete items.

※Blue codes are items excluded from inventory.

# Gooseneck Punches H=105、120

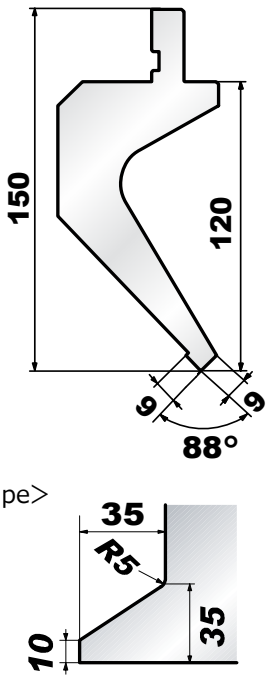
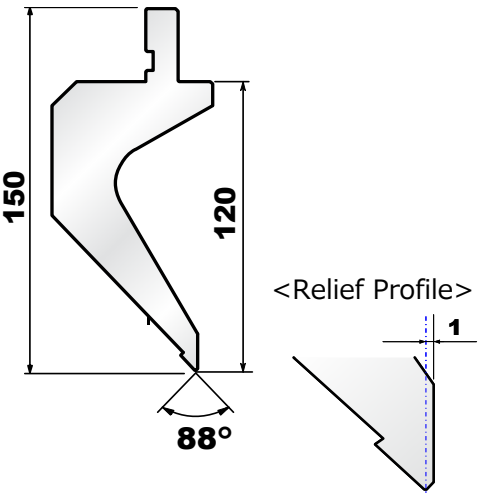
SK10、11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.		
<b>45</b>		88°	R0.2	04502	500 kN/m	9	22.6	L	<b>045021</b>		
								11.2	S	<b>045022</b>	
				04506			22.6	L	<b>045061</b>		
								11.2	S	<b>045062</b>	
				04508			22.6	L	045081	End of sales	
								11.2	S		045082
				04515			22.6	L	045151		
								11.2	S		045152
				04530			22.6	L	045301		
								11.2	S		045302
<b>50</b> (No.45 Sect.)	<Ear Shape>	90°	R0.2	05002	450 kN/m	9	21.9	A-Sect.	<b>050021</b>		
				05006					<b>050061</b>		
				05008					050081	End of sales	
				05015					050151		
				05030					050301		
<b>46</b>		90°	R0.2	04600	500 kN/m	9	22.6	L	<b>046001</b>		
							11.2	S	<b>046002</b>		
<b>51</b> (No.46 Sect.)	HRC47±2			05100	450 kN/m		21.9	A-Sect.	<b>051001</b>		
<b>47</b>		88°	R0.2	04702	500 kN/m	9	29	L	047021	End of sales	
								14.4	S		047022
				04706			29	L	047061		
								14.4	S		047062
				04708			29	L	047081		
								14.4	S		047082
				04715			29	L	047151		
								14.4	S		047152
<b>52</b> (No.47 Sect.)	<Ear Shape>	90°	R0.2	05202	450 kN/m	9	29	A-Sect.	052021		
				05206					052061		
				05208					052081		
				05215					052151		
				05230					052301		
<b>48</b>		90°	R0.2	04800	500 kN/m	9	29	L	048001	End of sales	
							14.4	S	048002		
<b>53</b> (No.48 Sect.)	HRC47±2			05300	450 kN/m		29	A-Sect.	<b>053001</b>		

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

※Red codes are obsolete items.

※Blue codes are items excluded from inventory.

Name / Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
<b>Gooseneck Punches</b>  <Ear Shape> ※No.47 cannot be used together due to different height. HRC47±2	88°	R0.2	947028	500 kN/m	9	25	L	<a href="#">B47021</a>	
				450kN/m		15.3	M	<a href="#">B47521</a>	
						6	SS	<a href="#">B47722</a>	
						11.1	Sect.	<a href="#">B47821</a>	
						24	B-Sect.	<a href="#">S4762B</a>	
						4	Ears	<a href="#">B47921</a>	
		25	L			<a href="#">B47061</a>			
		500 kN/m	R0.6	947068		500 kN/m	15.3	M	<a href="#">B47561</a>
						450kN/m	6	SS	<a href="#">B47762</a>
							11.1	Sect.	<a href="#">B47861</a>
							24	B-Sect.	<a href="#">S4766B</a>
							4	Ears	<a href="#">B47961</a>
							25	L	<a href="#">R4703B</a>
		500 kN/m	R3.0	947038			500 kN/m	15.3	M
						450kN/m	6	SS	<a href="#">R4773B</a>
11.1	Sect.				<a href="#">R4783B</a>				
24	B-Sect.				<a href="#">RS763B</a>				
4	Ears				<a href="#">R4793B</a>				
<b>Gooseneck Punches for Type T</b>  <Relief Profile> HRC47±2	88°				R0.2		947228	500 kN/m	----
		450kN/m	15.1	M				<a href="#">T4752B</a>	
			5.9	SS		<a href="#">T4772B</a>			
			11	Sect.		<a href="#">T4782B</a>			
			23.7	B-Sect.		<a href="#">TS762B</a>			
			4	Ears		<a href="#">T4792B</a>			
			24.7	L	<a href="#">T4706B</a>				
		500 kN/m	R0.6	947268	500 kN/m	15.1	M	<a href="#">T4756B</a>	
					450kN/m	5.9	SS	<a href="#">T4776B</a>	
						11	Sect.	<a href="#">T4786B</a>	
						23.7	B-Sect.	<a href="#">TS766B</a>	
						4	Ears	<a href="#">T4796B</a>	

※Sectionalized Length (10,10,15,20,25,40,50,100,100 Total 370mm)

※L:835mm M:510mm SS:200mm

※B-Sectionalized Length (10,15,20,40,50,100,100,165,300 Total 800mm)

※Ears Length (Right Ear 100、Left Ear 100 Total 200mm)

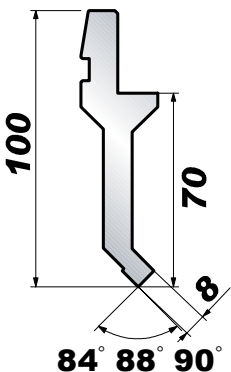
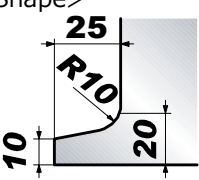
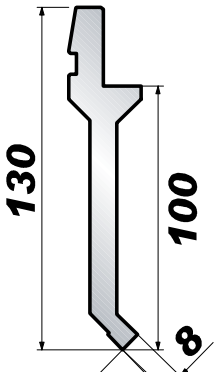
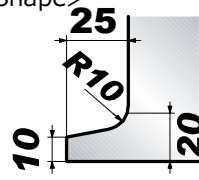
※Type T is same profile as Burring No.2.

※Blue codes are items excluded from inventory.

※No.47 cannot be used together due to different height.

# Sash Punches H=70, 100

SK10, 11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
<b>200</b>		88°	R0.2	20000	300 kN/m	8	8	L	<b>200001</b>	
				4			S	<b>200002</b>		
			R0.6	20006	8		L	<b>200061</b>		
				4	S		<b>200062</b>			
			R0.2	20080	150 kN/m		7.2	B-Sect.	<b>200801</b>	
				R0.6						20086
<b>20080</b> (No.200 Sect.)										
<b>201</b>		90°	R0.2	20100	300 kN/m	8	8	L	<b>201001</b>	
				4	S		<b>201002</b>			
<b>2018</b> (No.201 Sect.)	<Ear Shape> 			20180	150 kN/m		7.2	B-Sect.	<b>201801</b>	
<b>20406</b>		84°	R0.6	20406	300 kN/m	8	8	L	204061	End of sales
				4	S		204062			
<b>20486</b> (No.20406 Sect.)	HRC47±2			20486	150 kN/m		7.2	B-Sect.	204861	
<b>202</b>		88°	R0.2	20200	300 kN/m	8	10	L	<b>202001</b>	
							5	S	<b>202002</b>	
<b>20280</b> (No.202 Sect.)			R0.6	20206	150 kN/m		9	B-Sect.	<b>202801</b>	
				R0.2						20280
			R0.6	20286						
<b>203</b>				90°	R0.2		20300	300 kN/m	8	10
		5	S			<b>203002</b>				
<b>20380</b> (No.203 Sect.)	<Ear Shape> 	20380	150 kN/m			9	B-Sect.	<b>203801</b>		
<b>20506</b>		84°	R0.6	20506	300 kN/m	8	10	L	205061	End of sales
				5	S		205062			
<b>20586</b> (No.20506 Sect.)	HRC47±2			20586	150 kN/m		9	B-Sect.	205861	

※B Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),165,300 Total 800mm) ※L:835mm S:415mm

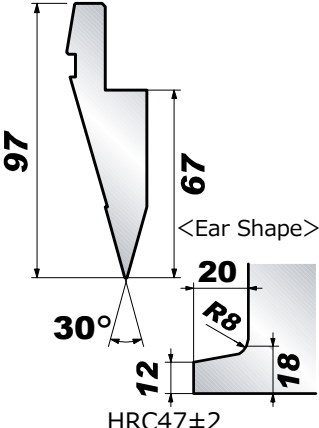
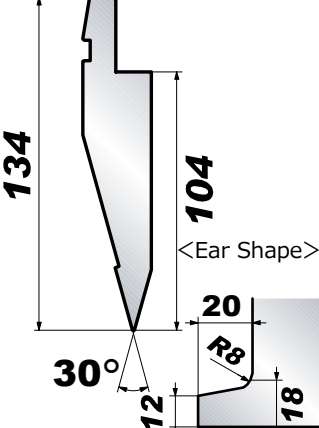
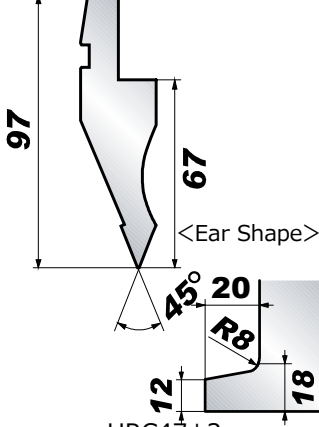
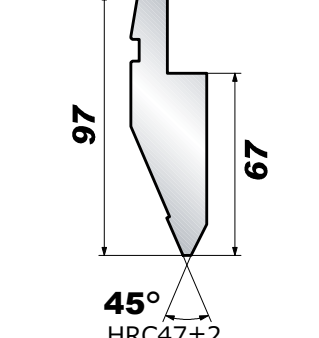
※Red codes are obsolete items.



Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.
<b>109</b>		<b>88°</b>	<b>R0.2</b>	10900	500 kN/m	6	9.7	L	<b>109001</b>
							4.8	S	<b>109002</b>
				10906			9.7	L	<b>109061</b>
							4.8	S	<b>109062</b>
<b>107</b> (No.109 Sect.)				R0.2	120 kN/m		9.7	A-Sect.	<b>107001</b>
				R0.6					<b>107061</b>
<b>108</b>		<b>90°</b>	<b>R0.2</b>	10800	500 kN/m	6	9.7	L	<b>108001</b>
					4.8		S	<b>108002</b>	
<b>106</b> (No.108 Sect.)				10600	120 kN/m		9.7	A-Sect.	<b>106001</b>
<b>1087</b> Acute Punches <b>ALP</b>		<b>30°</b>	<b>R0.2</b>	10870	500 kN/m	----	8.7	L	<b>108701</b>
							4.3	S	<b>108702</b>
				<b>108781</b> (No.1087 Sect.)	10878		120 kN/m	8.3	A-Sect.
<b>00470</b> Burring Punch III <b>ALP</b>		<b>88°</b>	<b>R0.2</b>	00470	400 kN/m	----	11.3	L	<b>004701</b>
							5.6	S	<b>004702</b>
				<b>004781</b> (No.00470 Sect.)	00478		110 kN/m	11.1	A-Sect.
<b>4527</b> Burring Punch IV <b>ALP</b>		<b>88°</b>	<b>R0.2</b>	45270	400 kN/m	----	18.2	L	<b>452701</b>
							9.1	S	<b>452702</b>
				<b>150701</b> (No.4527 Sect.)	15070		300 kN/m	16.8	A-Sect.

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

## Hemming Punches H=67、104 / Hemming Punches H=67 SK10、11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.
<b>103</b>  (For Hemming)		30°	R0.52	10300	1000 kN/m	----	8.5	L	<b>103001</b>
							4.2	S	<b>103002</b>
<b>10380</b>  (No.103 Sect.)				10380	300 kN/m	----	8.5	B-Sect.	<b>103801</b>
<b>210</b>  (For Hemming)		30°	R0.65	21000	1000 kN/m	----	16.3	L	<b>210001</b>
							8.1	S	<b>210002</b>
<b>21080</b>  (No.210 Sect.)				21080	300 kN/m	----	16	B-Sect.	<b>210801</b>
<b>8</b>  Acute Punches		45°	R0.37	00800	600 kN/m	----	9.4	L	<b>008001</b>
							4.7	S	<b>008002</b>
<b>49</b>  (No.8 Sect.)				04900	300 kN/m	----	8.7	A-Sect.	<b>049001</b>
<b>215</b>  Acute Punches Edge 3mm Flat		45°	Edge 3mm Flat	21500	1000 kN/m	----	10.8	L	<b>215001</b>
							5.4	S	<b>215002</b>

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

※B Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),165,300 Total 800mm)

# Middle Height Standard Punches / Burring Punches H=85

SK11

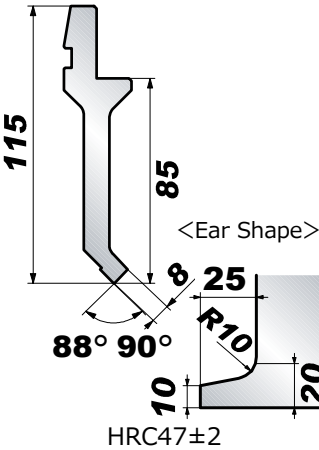
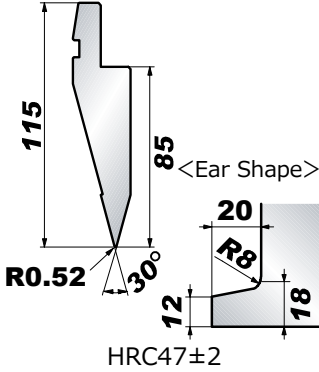
Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.			
<b>5</b>		88°	R0.2	00502	1000 kN/m	9	13.5	L	<b>005021</b>			
							6.7	S	<b>005022</b>			
			R0.6	00506			13.5	L	<b>005061</b>			
							6.7	S	<b>005062</b>			
			R0.8	00508			13.5	L	005081	End of sales		
							6.7	S	005082			
			R1.5	00515			13.5	L	005151			
				6.7	S	005152						
				13.5	L	005301						
				6.7	S	005302						
<b>009</b> (No.5 Sect.)			R0.2	00902	450 kN/m	12.3	A-Sect.	<b>009021</b>				
			R0.6	00906				<b>009061</b>				
			R0.8	00908				009081	End of sales			
			R1.5	00915				009151				
			R3.0	00930				009301				
<b>6</b>		90°	R0.2	00602	1000 kN/m	9	13.5	L	006021	End of sales		
								6.7	S		006022	
							R0.8	00608	13.5		L	006081
									6.7		S	006082
							R1.5	00615	13.5		L	006151
									6.7		S	006152
							R3.0	00630	13.5		L	006301
					6.7	S	006302					
<b>007</b> (No.6 Sect.)			R0.2	00702	450 kN/m	12.3	A-Sect.	007021				
			R0.8	00708				007081				
			R1.5	00715				007151				
			R3.0	00730				007301				
<b>0058</b> No.1		88°	R0.2	00582	400 kN/m	4	12.8	L	<b>005821</b>			
								6.4	S	<b>005822</b>		
							R0.6	00586	12.8	L	<b>005861</b>	
									6.4	S	<b>005862</b>	
<b>0098</b> (No.0058 Sect.)				R0.2	00982	200 kN/m	11.6	A-Sect.	<b>009821</b>			
				R0.6	00986				<b>009861</b>			
<b>0068</b>		90°	R0.2	00682	400kN/m	4	12.8	L	006821	End of sales		
							6.4	S	006822			
<b>0078</b> (No.0068 Sect.)			R0.2	00782	200kN/m	11.6	A-Sect.	007821				
<b>0059</b> No.2		88°	R0.2	00592	800 kN/m	1	12.8	L	<b>005921</b>			
								6.4	S	<b>005922</b>		
							R0.6	00596	12.8	L	<b>005961</b>	
									6.4	S	<b>005962</b>	
<b>0099</b> (No.0059 Sect.)				R0.2	00992	400 kN/m	11.6	A-Sect.	<b>009921</b>			
				R0.6	00996				<b>009961</b>			
<b>0069</b>		90°	R0.2	00692	800kN/m	1	12.8	L	006921	End of sales		
							6.4	S	006922			
<b>0079</b> (No.0069 Sect.)			R0.2	00792	400kN/m	11.6	A-Sect.	007921				

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

※Red codes are obsolete items.

## Middle Height Sash Punches / Hemming Punches H=85

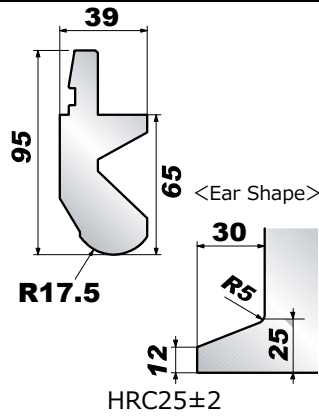
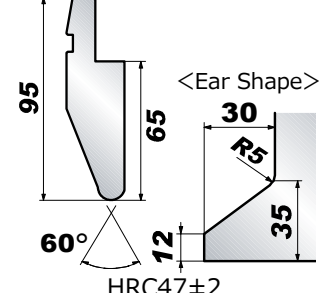
SK11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
<b>010</b>		88°	R0.2	01002	300 kN/m	8	9	L	<b>010021</b>	
							4.5	S	<b>010022</b>	
				01006			9	L	<b>010061</b>	
							4.5	S	<b>010062</b>	
				<b>0108</b> (No.010 Sect.)			R0.2	01082	150 kN/m	9
		R0.6	01086	<b>010861</b>						
<b>11</b>		90°	R0.2	<b>01100</b>	300kN/m	8	9	L	<b>011021</b>	End of sales
				<b>01182</b>	150kN/m		4.5	S	<b>011022</b>	
<b>0118</b> (No.11 Sect.)								9	A-Sect.	
<b>023</b> (For Hemming)		30°	R0.52		1000 kN/m	----	10	L	<b>023001</b>	End of sales
				<b>02300</b>			5	S	<b>023002</b>	
<b>0238</b> (No.023 Sect.)							<b>02380</b>	300 kN/m	----	

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

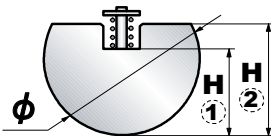
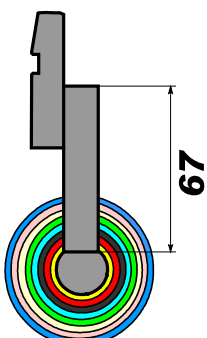
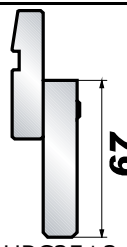
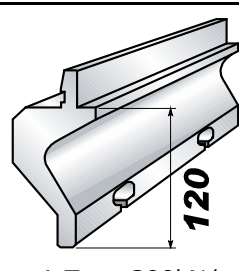
## Radius Punches H=65 / Heavy Duty Punches H=65

SK10, 11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
<b>230</b> For Kitchen Appliances		----	R17.5	23000	1000 kN/m	----	13.4	L	<b>230001</b>	
								6.7	S	<b>230002</b>
<b>231</b> (No.230 Sect.)		----		23100		----	13	A-Sect.	<b>231001</b>	
<b>3</b> For Heavy Duty		60°	R6.0	00300	1000 kN/m	----	12	L	<b>003001</b>	
								6	S	<b>003002</b>
<b>138</b> (No.3 Sect.)				13800		----	11.4	A-Sect.	<b>138001</b>	

※A Type Sectionalized Length (10,15,20,40,50,100(Right Ear),100(Left Ear),200,300 Total 835mm) ※L:835mm S:415mm

※Red codes are obsolete items.

Tool Name	Tool Profile	Edge R	Diameter (φ)	FEL No.	Height H①	Height H②	Weight (kg)	Size	Cat.No.					
<b>17</b> Radius Rulers (SK10)		<b>R10</b>	20	01710	16	----	1.8	L	<b>017101</b>					
							0.9	S	<b>017102</b>					
		<b>R15</b>	30	01715	20	27	27	2.8	L	<b>017151</b>				
								1.4	S	<b>017152</b>				
		<b>R17.5</b>	35	01717	22	32	32	5.2	L	<b>017171</b>				
								2.6	S	<b>017172</b>				
		<b>R20</b>	40	01720	24	34	34	6.9	L	<b>017201</b>				
								3.4	S	<b>017202</b>				
		<b>R25</b>	50	01725	29	39	39	9.9	L	<b>017251</b>				
								4.9	S	<b>017252</b>				
		<b>R30</b>	60	01730	34	44	44	13.6	L	<b>017301</b>				
								6.8	S	<b>017302</b>				
<b>30</b> Color Radius Punches		<b>L Set</b>							13	L	<b>030001</b>			
		<b>S Set</b>								6.5	S	<b>030002</b>		
		<b>Color Set</b>									----	L	<b>03A001</b>	
											----	S	<b>03A002</b>	
		<b>Color Only</b>									----	Sect.	<b>03B001</b>	
											----	L		
											----	S		
											----	Sect.		
		<b>R10</b>			03010									
		<b>R12.5</b>			03012									
		<b>R15</b>			03015									
		<b>R17.5</b>			03017									
		<b>R20</b>			03020									
<b>R22.5</b>			03022											
<b>R25</b>			03025											
<b>R27.5</b>			03027											
<b>R30</b>			03030											
<b>308</b> (No.30 Sect.)		<b>Sect. Set</b>							14	Sect.	<b>030801</b>			
<b>15</b> Punch Holders L:830mm S:412mm									9.8	L	<b>015001</b>			
										4.9	S	<b>015002</b>		
<b>Gooseneck Punch Holder</b> L:830mm S:412mm		<b>R10</b>												
		<b>R12.5</b>												
		<b>R15</b>								24	L	<b>415001</b>		
		<b>R17.5</b>												
		<b>R20</b>												
		<b>R22.5</b>												
		<b>R25</b>												
		<b>R27.5</b>												
<b>R30</b>								12	S	<b>415002</b>				

※Sectionalized Length (25,40,50,100,120,200,300 Total 835mm)

※L:835mm S:415mm

※Red codes are obsolete items.

# Flattening Punches / Hinged Punches

SK10, 11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
19 Striking Plates	<p>HRC25±2</p>	---	---	19000	---	---	7.8	L	<b>019001</b>	
							3.9	S	<b>019002</b>	
20 Coining Rulers (SK10)	<p>HRC25±2</p>	---	---	01520	---	---	4.5	L	<b>020001</b>	
							2.2	S	<b>020002</b>	
※Refer to page 36 for the bolt set.										
220 Flattening Punches Edge 23mm Flat	<p>HRC47±2</p>	---	---	22000	---	---	13.2	L	<b>220001</b>	
							6.6	S	<b>220002</b>	
Hinged Type Standard (No.4 Type)	<p>HRC40</p>	88°	R0.2	---	150	9	4	Sect.	404021	End of sales
			R0.6	---					404061	
(No.16 Type) Total 260mm	<p>HRC40</p>	90°	R0.2	---	150	9	4	Sect.	416021	End of sales
Hinged Type Gooseneck (No.453 Type)	<p>HRC40</p>	88°	R0.2	---	150	6	7	Sect.	433021	End of sales
			R0.6	---					433061	
(No.463 Type) Total 310mm	<p>HRC40</p>	90°	R0.2	---	150	6	7	Sect.	443021	End of sales

※Red codes are obsolete items.

※L:835mm S:415mm

# Multi-Radius Tip-Type Punches

SK10, 11

Tool Name	Tool Profile	Angle	Edge R	FEL No.	Allowable Tonnage	Edge Width	Weight (kg)	Size	Cat.No.	
Small Radius Holders (Taper + Groove) (SK11)		---	---	---	---	---	10	L	<b>091041</b>	
							5	S	<b>091042</b>	
							10	Sect.	<b>091841</b>	
Large Radius Holders (Taper + Groove) (SK11)		---	---	---	---	---	10	L	<b>091061</b>	
							5	S	<b>091062</b>	
							10	Sect.	<b>091861</b>	
Multi Radius Holders (Straight + Groove) (SK10)		---	---	---	---	---	10	L	<b>091001</b>	
							4.9	S	<b>091002</b>	
							9.2	Sect.	<b>091801</b>	
Tip-Type Small Radius Tip Only R3~R5 (SK10)		---	---	---	---	---	0.2	L	<b>090301</b>	
							0.1	S	<b>090302</b>	
							0.2	Sect.	<b>090831</b>	
							0.3	L	<b>090401</b>	
							0.15	S	<b>090402</b>	
							0.3	Sect.	<b>090841</b>	
Tip-Type Large Radius Tip Only R6~R10 (SK10)		---	---	---	---	---	0.7	L	<b>090601</b>	
							0.35	S	<b>090602</b>	
							0.7	Sect.	<b>090861</b>	
							1.3	L	<b>090801</b>	
							0.6	S	<b>090802</b>	
							1.3	Sect.	<b>090881</b>	
R3 Tip	---	---	---	---	---	---	0.5	L	<b>090501</b>	
							0.25	S	<b>090502</b>	
							0.5	Sect.	<b>090851</b>	
R4 Tip	---	---	---	---	---	---	0.7	L	<b>090601</b>	
							0.35	S	<b>090602</b>	
							0.7	Sect.	<b>090861</b>	
R5 Tip	---	---	---	---	---	---	1.3	L	<b>090801</b>	
							0.6	S	<b>090802</b>	
							1.3	Sect.	<b>090881</b>	
R6 Tip	---	---	---	---	---	---	2.1	L	<b>090101</b>	
							1	S	<b>090102</b>	
							2.1	Sect.	<b>090811</b>	
R8 Tip	---	---	---	---	---	---	0.9030			
							0.9083			
							0.9084			
R10 Tip	---	---	---	---	---	---	0.9040			
							0.9084			
							0.9085			
R10 Tip	---	---	---	---	---	---	0.9050			
							0.9085			
							0.9085			
R6 Tip	---	---	---	---	---	---	0.9060			
							0.9086			
							0.9086			
R8 Tip	---	---	---	---	---	---	0.9080			
							0.9088			
							0.9088			
R10 Tip	---	---	---	---	---	---	0.9090			
							0.9090			
							0.9090			

※Sectionalized Length (20,25,30,35,40,50,70,100(Right Ear),100(Left Ear),165,200 Total 835mm) ※L:835mm S:415mm

※Small Radius Tip is for Small Radius Holder / Multi-Radius Holder. Large Radius Tip is for Large Radius Holder.

/ Multi-Radius Holder.

e.g.) Small Radius Tip can not be mounted on Large Radius Holder.

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>121</b> V 4×7	88°		4×7	12106	600 kN/m	25.5	8.3	L	<b>121061</b>	
							4.1	S	<b>121062</b>	
	90°			26		8.3	L	<b>121001</b>		
				4.1		S	<b>121002</b>			
<b>122</b> V 5×9	88°		5×9	12206	650 kN/m	25.5	8.3	L	<b>122061</b>	
							4.1	S	<b>122062</b>	
	90°			26		8.3	L	<b>122001</b>		
				4.1		S	<b>122002</b>			
<b>123</b> V 6×10	88°		6×10	12306	700 kN/m	25.5	8.1	L	<b>123061</b>	
							4.1	S	<b>123062</b>	
	90°			26		8.1	L	<b>123001</b>		
				4		S	<b>123002</b>			
<b>124</b> V 8×12	88°		8×12	12406	800 kN/m	25.5	8.1	L	<b>124061</b>	
							4.1	S	<b>124062</b>	
	90°			26		8.1	L	<b>124001</b>		
				4		S	<b>124002</b>			

※HRC55

※L:835mm, S:415mm



**Standard 2V Dies** **A.L.D.** / **2V Dies for SUS·AL** **SK10, 11**

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>125</b> V 14×18	88°		14×18	12500	1000 kN/m	26	7.6	L	<b>125001</b>	
							3.8	S	<b>125002</b>	
HRC55										
<b>126</b> V 12×20	88°		12×20	12600	1000 kN/m	26	7.6	L	<b>126001</b>	
							3.8	S	<b>126002</b>	
HRC55										
<b>127</b> V 16×25	88°		16×25	12700	700 kN/m	26	7.2	L	<b>127001</b>	
							3.6	S	<b>127002</b>	
HRC55										
<b>311</b> For SUS·AL V 6×10	88°		6×10	31106	800 kN/m	25.5	9	L	<b>311061</b>	
							4.5	S	<b>311062</b>	
	90°						9	L	<b>311001</b>	
							4.5	S	<b>311002</b>	
HRC47±2										
<b>314</b> For SUS·AL V 12×20	88°		12×20	31400	1000 kN/m	26	8.4	L	<b>314001</b>	
							4.2	S	<b>314002</b>	
HRC47±2										
<b>Locking Bolt Set for 2V Die</b>			L=4pcs/set ※1		----	----	----	L	<b>802001</b>	End of sales
(Bolt·Washer·Spring)			S=2pcs/set					S	<b>802002</b>	

※Refer to page 36 for the bolt set.

※L:835mm, S:415mm

※1 When dies are L size, please order two "S" sets.

※Blue codes are items excluded from inventory.

# Quick Change 2V Dies 90°, 88° A.L.D.

SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>50196</b> V 4x7	88°		4x7	50196	600 kN/m	45.5	9.8	L	<b>501961</b>
							4.9	S	<b>501962</b>
							9.8	Sect.	<b>501861</b>
<b>50186</b> (No.50196 Sect.)				50186					
<b>50190</b> V 4x7	90°		4x7	50190	600 kN/m	46	9.8	L	<b>501901</b>
							4.9	S	<b>501902</b>
							9.8	Sect.	<b>501801</b>
<b>50180</b> (No.50190 Sect.)				50180					
<b>50796</b> V 5x9	88°		5x9	50796	650 kN/m	45.5	10.1	L	<b>507961</b>
							5	S	<b>507962</b>
							10.1	Sect.	<b>507861</b>
<b>50786</b> (No.50796 Sect.)				50786					
<b>50790</b> V 5x9	90°		5x9	50790	650 kN/m	46	10.1	L	<b>507901</b>
							5	S	<b>507902</b>
							10.1	Sect.	<b>507801</b>
<b>50780</b> (No.50790 Sect.)				50780					
<b>50296</b> V 6x10	88°		6x10	50296	700 kN/m	45.5	10.4	L	<b>502961</b>
							5.2	S	<b>502962</b>
							10.4	Sect.	<b>502861</b>
<b>50286</b> (No.50296 Sect.)				50286					
<b>50290</b> V 6x10	90°		6x10	50290	700 kN/m	46	10.4	L	<b>502901</b>
							5.2	S	<b>502902</b>
							10.4	Sect.	<b>502801</b>
<b>50280</b> (No.50290 Sect.)				50280					

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

※L:835mm, S:415mm

※HRC55

# Quick Change 2V Dies 90°, 88° A.L.D.

SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>50396</b> V 8×12	88°		8×12	50396	700 kN/m	45.5	10.9	L	<b>503961</b>
							5.4	S	<b>503962</b>
				(No.50396 Sect.)			10.9	Sect.	<b>503861</b>
<b>50390</b> V 8×12	90°		8×12	50390	700 kN/m	46	10.9	L	<b>503901</b>
				5.4			S	<b>503902</b>	
(No.50390 Sect.)				10.9			Sect.	<b>503801</b>	
<b>50490</b> V 14×18	88°		14×18	50490	1000 kN/m	46	12.2	L	<b>504901</b>
							6.1	S	<b>504902</b>
				(No.50490 Sect.)			12.2	Sect.	<b>504801</b>
<b>50590</b> V 12×20	88°		12×20	50590	1000 kN/m	46	12.3	L	<b>505901</b>
							6.1	S	<b>505902</b>
				(No.50590 Sect.)			12.3	Sect.	<b>505801</b>
<b>50690</b> V 16×25	88°		16×25	50690	1000 kN/m	46	13.2	L	<b>506901</b>
							6.6	S	<b>506902</b>
				(No.50690 Sect.)			13.2	Sect.	<b>506801</b>

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

※L:835mm、S:415mm

※HRC55

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
V 4×7	86°		4×7	501981	600 kN/m	46	6	M	501951
							2.3	SS	501972
							4.3	Sect.	501851
V 6×10			6×10	502981	700 kN/m	46	6.4	M	502951
							2.5	SS	502972
							4.6	Sect.	502851
V 8×12			8×12	503981	700 kN/m	46	6.7	M	503951
							2.6	SS	503972
							4.8	Sect.	503851
V 14×18			14×18	504981	1000 kN/m	46	7.5	M	504951
							2.9	SS	504972
							5.4	Sect.	504851
V 12×20		12×20	505981	1000 kN/m	46	7.5	M	505951	
						2.9	SS	505972	
						5.5	Sect.	505851	
V 16×25		16×25	506981	1000 kN/m	46	8.1	M	506951	
						3.2	SS	506972	
						5.8	Sect.	506851	

※Sectionalized Length (10,10,15,20,25,40,50,100,100 Total 370mm)

※ M:510mm SS:200mm

※HRC55

# Standard Sectionalized 2V Dies

SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.			
<b>30117</b> V 4×7	<b>88°</b>		<b>4×7</b>	<b>30117</b>	<b>600 kN/m</b>	<b>15.5</b>	4.6	L	<b>301171</b>	End of sales		
2.3							S	<b>301172</b>				
4.6							Sect.	<b>301161</b>				
<b>30116</b> (No.30117 Sect.)						<b>30116</b>						
<b>30118</b> V 4×7	<b>90°</b>			<b>30118</b>		<b>30118</b>	<b>16</b>	4.6	L	<b>301181</b>	End of sales	
2.3								S	<b>301182</b>			
4.6								Sect.	<b>301101</b>			
<b>30110</b> (No.30118 Sect.)						<b>30110</b>						
<b>30147</b> V 4×7	<b>88°</b>			<b>30147</b>		<b>30147</b>	<b>45.5</b>	14.5	L	<b>301471</b>	End of sales	
7.2								S	<b>301472</b>			
14.5								Sect.	<b>301461</b>			
<b>30146</b> (No.30147 Sect.)						<b>30146</b>						
<b>30148</b> V 4×7	<b>90°</b>		<b>30148</b>	<b>30148</b>	<b>46</b>	14.5	L	<b>301481</b>	End of sales			
7.2						S	<b>301482</b>					
14.5						Sect.	<b>301401</b>					
<b>30140</b> (No.30148 Sect.)				<b>30140</b>								
<b>30717</b> V 5×9	<b>88°</b>		<b>5×9</b>	<b>30717</b>	<b>650 kN/m</b>	<b>15.5</b>	4.3	L	<b>307171</b>	End of sales		
2.1							S	<b>307172</b>				
4.3							Sect.	<b>307161</b>				
<b>30716</b> (No.30717 Sect.)						<b>30716</b>						
<b>30718</b> V 5×9	<b>90°</b>			<b>30718</b>		<b>30718</b>	<b>16</b>	4.3	L	<b>307181</b>	End of sales	
2.1								S	<b>307182</b>			
4.3								Sect.	<b>307101</b>			
<b>30710</b> (No.30718 Sect.)						<b>30710</b>						
<b>30747</b> V 5×9	<b>88°</b>			<b>30747</b>		<b>30747</b>	<b>45.5</b>	14.2	L	<b>307471</b>	End of sales	
7.1								S	<b>307472</b>			
14								Sect.	<b>307461</b>			
<b>30746</b> (No.30747 Sect.)						<b>30746</b>						
<b>30748</b> V 5×9	<b>90°</b>		<b>30748</b>	<b>30748</b>	<b>46</b>	14.2	L	<b>307481</b>	End of sales			
7.1						S	<b>307482</b>					
14						Sect.	<b>307401</b>					
<b>30740</b> (No.30748 Sect.)				<b>30740</b>								

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

※L:835mm, S:415mm

※HRC47±2

※Red codes are obsolete items.

# Standard Sectionalized 2V Dies

SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>30217</b> V 6×10	<b>88°</b>		6×10	30217	700 kN/m	15.5	4.5	L	302171	End of sales
2.2							S	302172		
4.5							Sect.	302161		
<b>30216</b> (No.30217 Sect.)				30216						
<b>30210</b> V 6×10	<b>90°</b>		6×10	30218	700 kN/m	16	4.5	L	302181	End of sales
2.2							S	302182		
4.5							Sect.	302101		
<b>30218</b> (No.30210 Sect.)				30210						
<b>30247</b> V 6×10	<b>88°</b>		6×10	30247	700 kN/m	45.5	14.4	L	302471	End of sales
7.2							S	302472		
14.4							Sect.	302461		
<b>30246</b> (No.30247 Sect.)				30246						
<b>30248</b> V 6×10	<b>90°</b>		6×10	30248	700 kN/m	46	14.4	L	302481	End of sales
7.2							S	302482		
14.4							Sect.	302401		
<b>30240</b> (No.30248 Sect.)				30240						
<b>30317</b> V 8×12	<b>88°</b>		8×12	30317	700 kN/m	15.5	4.4	L	303171	End of sales
2.2							S	303172		
4.4							Sect.	303161		
<b>30316</b> (No.30317 Sect.)				30316						
<b>30310</b> V 8×12	<b>90°</b>		8×12	30318	700 kN/m	16	4.4	L	303181	End of sales
2.2							S	303182		
4.4							Sect.	303101		
<b>30318</b> (No.30310 Sect.)				30310						
<b>30347</b> V 8×12	<b>88°</b>		8×12	30347	700 kN/m	45.5	14.2	L	303471	End of sales
7.1							S	303472		
14.2							Sect.	303461		
<b>30346</b> (No.30347 Sect.)				30346						
<b>30348</b> V 8×12	<b>90°</b>		8×12	30348	700 kN/m	46	14.2	L	303481	End of sales
7.1							S	303482		
14.2							Sect.	303401		
<b>30340</b> (No.30348 Sect.)				30340						

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

※L:835mm, S:415mm

※HRC47±2

※Red codes are obsolete items.

## Standard Sectionalized 2V Dies

SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>30448</b>	88°		14×18	30448	1000 kN/m	46	13.7	L	304481	End of sales
V 14×18							6.8	S	304482	
<b>30440</b> (No.30448 Sect.)							13.7	Sect.	304401	
<b>30548</b>	88°		12×20	30548	1000 kN/m	46	13.7	L	305481	End of sales
V 12×20							6.8	S	305482	
<b>30540</b> (No.30548 Sect.)							13.7	Sect.	305401	
<b>30648</b>	88°		16×25	30648	1000 kN/m	46	13.1	L	306481	End of sales
V 16×25							6.5	S	306482	
<b>30640</b> (No.30648 Sect.)							13.1	Sect.	306401	

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

※L:835mm, S:415mm

※HRC47±2

※Red codes are obsolete items.

## Die Rails for Standard Sectionalized 2V Die

SK10, 11

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>300</b>	---		---	30000	---	10	3.8	L	300001	
							1.9	S	300002	

※L:835mm, S:415mm

# Standard 1V Dies

SK10, 11

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.					
<b>32006</b>	88°		6	32006	950 kN/m	29.5	2.8	L	<b>320061</b>					
							1.4	S	<b>320062</b>					
<b>320</b>	90°			32000		32000	30	2.8	L	<b>320001</b>				
								1.4	S	<b>320002</b>				
<b>32007</b>	84°			32007		32007	29.5	2.8	L	320071	End of sales			
								1.4	S	320072				
<b>32106</b>	88°					8	32106	950 kN/m	29.5	2.8	L	<b>321061</b>		
										1.4	S	<b>321062</b>		
<b>321</b>	90°						32100		32100	30	2.8	L	<b>321001</b>	
											1.4	S	<b>321002</b>	
<b>32107</b>	84°	32107	32107		29.5		2.8		L	321071	End of sales			
							1.4		S	321072				
<b>322</b>	88°		10		32200		950 kN/m		30	2.8	L	<b>322001</b>		
										1.4	S	<b>322002</b>		
<b>323</b>	90°				32300				32300	30	2.8	L	<b>323001</b>	
											1.4	S	<b>323002</b>	
<b>32207</b>	84°			32207	32207	29.5		2.8	L	322071	End of sales			
								1.4	S	322072				
<b>324</b>	88°				12	32400		1000 kN/m	30	3.1	L	<b>324001</b>		
										1.5	S	<b>324002</b>		
<b>326</b>	90°					32600			32600	30	3.1	L	<b>326001</b>	
											1.5	S	<b>326002</b>	
<b>32407</b>	84°	32407	32407			29.5	3.1		L	324071	End of sales			
							1.5		S	324072				
<b>325</b>	88°		14			32500	1000 kN/m		30	3.2	L	<b>325001</b>		
										1.6	S	<b>325002</b>		
<b>32507</b>	84°					32507			32507	29.5	3.2	L	325071	End of sales
											1.6	S	325072	
<b>Locking Bolt Set for 1V Die</b>				L=4pcs/set ※1		----		----	----	L	<b>802101</b>	End of sales		
(Bolt·Washer·Spring)				S=2pcs/set						S	<b>802102</b>			

※Red codes are obsolete items. ※1 When dies are L size, please order two "S" sets.

※L:835mm, S:415mm

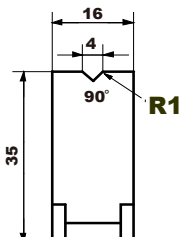
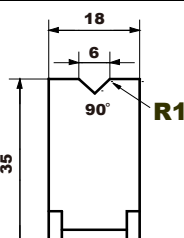
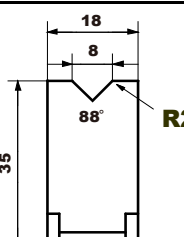
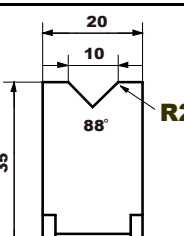
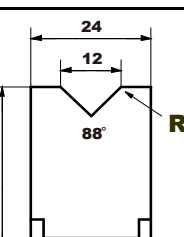
※Refer to page 36 for the bolt set.

※HRC47±2



## Polycarbonate 1V Dies

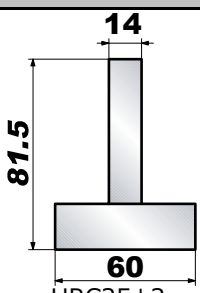
SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>331</b> V=4	<b>90°</b>		<b>4</b>	33100	320 kN/m	35	1.2	L	<b>331001</b>
							0.6	S	<b>331002</b>
<b>332</b> V=6	<b>90°</b>		<b>6</b>	33200	320 kN/m	35	1.4	L	<b>332001</b>
							0.7	S	<b>332002</b>
<b>333</b> V=8	<b>88°</b>		<b>8</b>	33300	320 kN/m	35	1.4	L	<b>333001</b>
							0.7	S	<b>333002</b>
<b>334</b> V=10	<b>88°</b>		<b>10</b>	33400	320 kN/m	35	1.6	L	<b>334001</b>
							0.8	S	<b>334002</b>
<b>335</b> V=12	<b>88°</b>		<b>12</b>	33500	320 kN/m	35	2	L	<b>335001</b>
							1	S	<b>335002</b>

※L:835mm, S:415mm

## 1V Die Holders

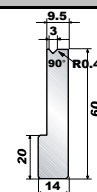
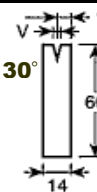
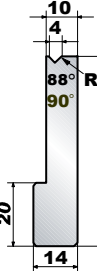
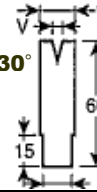
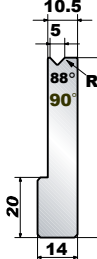


SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>330</b>	----		----	33000	----	81.5	12.2	L	<b>330001</b>
							6.1	S	<b>330002</b>

※L:830mm, S:412mm

# Sectionalized 1V Dies (V3 to V5: HRC47±2, V6 Later : HRC55)

SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
08300	90°		3	08300	400 kN/m	60	4.4	L	083001	
							2.2	S	083002	
				08380			4.4	Sect.	083801	
08403	30°		4	08403	200 kN/m	60	5.5	L	084031	
							2.7	S	084032	
				08483			5.5	Sect.	084831	
08406	88°		4	08406	400 kN/m	60	4.4	L	084061	
	2.2			S			084062			
08486	4.4			Sect.			084861			
08400	90°			08400			4.4	L	084001	
				08480			2.2	S	084002	
							4.4	Sect.	084801	
08503	30°		5	08503	300 kN/m	60	5.5	L	085031	
							2.7	S	085032	
				08583			5.5	Sect.	085831	
08506	88°		5	08506	500 kN/m	60	4.5	L	085061	End of sales
	2.2			S			085062			
08586	4.5			Sect.			085861			
08500	90°			08500			4.4	L	085001	
				08580			2.2	S	085002	
			4.4	Sect.	085801					
07008	88°		6	07008	950 kN/m	60	5.5	L	070081	
	2.7			S			070082			
	5.5			Sect.			070881			
07000	90°			07000			5.5	L	070001	
	2.7			S			070002			
	5.5			Sect.			070801			
07004	84°			07004			5.5	L	070041	
	2.7			S			070042			
	5.5			Sect.			070841			
07108	88°		8	07108	950 kN/m	60	5.4	L	071081	
	2.7			S			071082			
	5.4			Sect.			071881			
07100	90°			07100			5.5	L	071001	
	2.7			S			071002			
	5.5			Sect.			071801			
07104	84°			07104			5.4	L	071041	
	2.7			S			071042			
	5.4			Sect.			071841			

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

※L:835mm, S:415mm

※Red codes are obsolete items.

# Sectionalized 1V Dies

A.L.D.

SK10

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.								
<b>07200</b>	88°		10	07200	950 kN/m	60	5.5	L	072001								
							2.7	S	072002								
							5.5	Sect.	072801								
<b>07300</b>	90°			07300			5.5	L	073001								
							2.7	S	073002								
							5.5	Sect.	073801								
<b>07204</b>	84°			07204			5.5	L	072041								
							2.7	S	072042								
							5.5	Sect.	072841								
<b>07400</b>	88°		12	07400	950 kN/m	60	5.9	L	074001								
							2.9	S	074002								
							5.9	Sect.	074801								
<b>07500</b>	90°			07500			5.9	L	075001								
							2.9	S	075002								
							5.9	Sect.	075801								
<b>07404</b>	84°			07404			5.9	L	074041								
							2.9	S	074042								
							5.9	Sect.	074841								
<b>07600</b>	88°		14	07600	950 kN/m	60	6.6	L	076001								
							3.3	S	076002								
							6.6	Sect.	076801								
<b>07604</b>	84°			07604			6.6	L	076041								
							3.3	S	076042								
							6.6	Sect.	076841								
<b>07700</b>	88°						16	07700	950 kN/m	60	7.5	L	077001				
											3.7	S	077002				
											7.5	Sect.	077801				
<b>07800</b>	88°		18		07800	950 kN/m		60			8.3	L	078001				
											4.1	S	078002				
											8.3	Sect.	078801				
<b>07900</b>	88°										20	07900	1000 kN/m	60	9.1	L	079001
															4.5	S	079002
															9.1	Sect.	079801
<b>08200</b>	88°						25		08200	1000 kN/m		60			11	L	082001
															5.5	S	082002
															11	Sect.	082801

End of sales

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

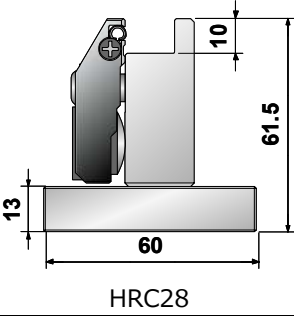
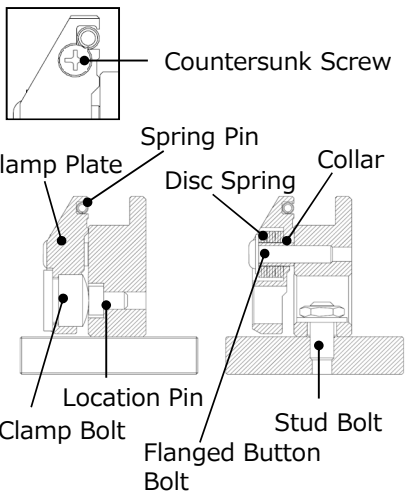
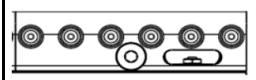
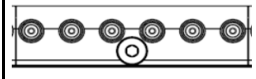
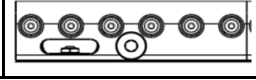
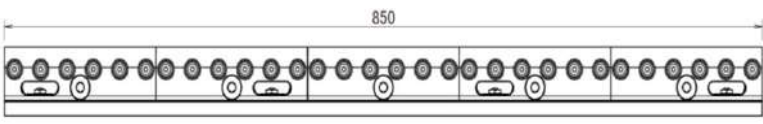
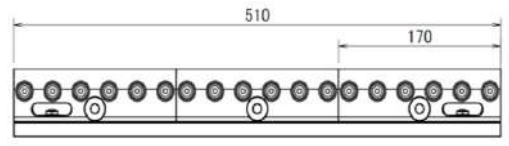
※L:835mm, S:415mm

※HRC55

※Red codes are obsolete items.

# FEAT AFH Die Holders

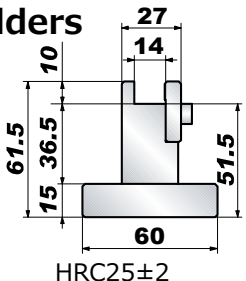
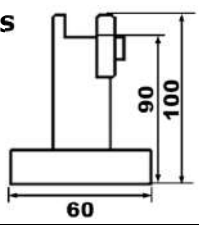
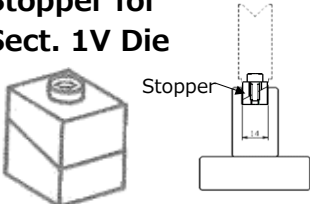
SK10

Tool Name / Profile	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.		
<b>FEAT AFH Die Holders</b> 	08250	1000kN/m	51.5	13.5	L	<b>082501</b>		
				8	M	<b>082502</b>		
<b>Spring Pin Set</b>	<ul style="list-style-type: none"> <li>•Spring Pin 17pcs</li> <li>•Countersunk Screw 2pcs</li> </ul>					<b>082511</b>		
<b>Disc Spring Set</b>	<ul style="list-style-type: none"> <li>•Disc Spring 54pcs</li> </ul>					<b>082512</b>		
<b>Flanged Button Bolt Set</b>	<ul style="list-style-type: none"> <li>•Flanged Button Bolt 6pcs</li> <li>•Collar 6pcs</li> </ul>					<b>082513</b>		
<b>Clamp Bolt Set</b>	<ul style="list-style-type: none"> <li>•Clamp Bolt 1pc</li> <li>•Location Pin 1pc</li> </ul>					<b>082514</b>		
<b>Stud Bolt</b>	M8xL22.5					<b>082514</b>		
<b>Clamp Plate (Right Hole)</b>						※Q'ty on the left is for one clamp plate.  ※Please refer to the below picture about necessary quantity per holder.	<b>082515</b>	
<b>Clamp Plate (No Hole)</b>							<b>082516</b>	
<b>Clamp Plate (Left Hole)</b>		<b>802517</b>						
L Size		M Size						
								

※L:850mm, M:510mm

# Reversible 1V Die Holders

SK10

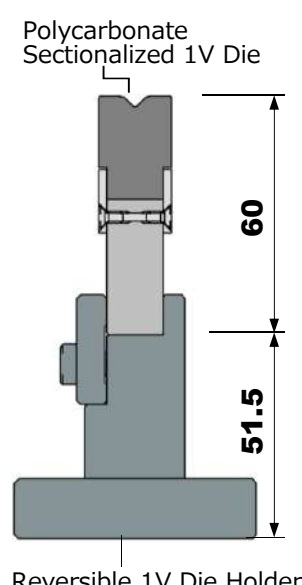
Tool Name / Profile	Angle	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>Reversible 1V Die Holders</b>  HRC25±2	---	---	08150	---	51.5	13.2	L	<b>081501</b>
						6.6	S	<b>081502</b>
<b>High Height Reversible 1V Die Holders</b> 	---	---	240025	---	90	---	L	Special
						---	S	Special
<b>Stopper for Sect. 1V Die</b> 	---	---	---	---	---	---	1pc	Special

※This is a sectionalized die fixing piece for sectionalized 1V die holder.

※L:840mm、S:420mm

# Polycarbonate 1V Dies for Reversible 1V Die Holder

SK10

Tool Profile	Angle	V Width	Shoulder R	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>Polycarbonate Sectionalized 1V Die</b>  Reversible 1V Die Holder	90°	4	1	---	320	60	---	L	Special
							---	S	
							---	Sect.	
		6	1.5	---	320		---	L	Special
							---	S	
							---	Sect.	
	88°	8	2	---	320	---	L	Special	
						---	S		
						---	Sect.		
		10	2.5	---	320	---	L	Special	
						---	S		
						---	Sect.		
12	3	---	320	---	L	Special			
				---	S				
				---	Sect.				

※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

L:835mm、S:415mm

※Blue codes are items excluded from inventory.

# 1V Dies

SK10

Tool Name	Angle	Tool Profile	V Width	Width (W②)	Shoulder R	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
35	85°		32	60	4	03500	1000 kN/m	60	21.4	L	035001
									10.6	S	035002
36			20.2			L			036001		
										10	S
37			18.7			L			037001		
										9.3	S
38	85°		63 (80)	60	5	03800	1000 kN/m	75	28.8	L	038001
									14.3	S	038002
13			35.6			L			013601		
										17.7	S
18			56			L			018601		
										27.8	S
39	80°		125	90 (154)	9	03900	1000 kN/m	123	86	L	039001
									42.7	S	039002
14			118			L			014001		
										58.6	S

※HRC48±2

※L:835mm, S:415mm

# Light-Weight R-Bend 1V Dies

SK10

Tool Name	Angle	Tool Profile	V Width	Width (W②)	Shoulder R	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
351	70°		32	60	6	35100	500 kN/m	60	8.4	L	351001
									4.2	S	351002
361			9.2			L			361001		
										4.6	S
371			9.5			L			371001		
										4.7	S

※L:835mm, S:415mm

# Acute 1V Dies / Radius Bend Dies

SK10

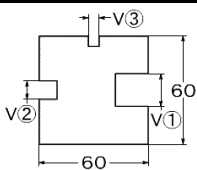
Tool Name	Angle	Tool Profile	V Width	Width (W②)	Shoulder R	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
340	30°		18	60	3.0	34000	800	60	22	L	340001
									11	S	340002
341			22.8			L			341001		
										11.3	S
342	45°		32	60	5.0	34200	400	60	19.7	L	342001
									9.8	S	342002
343			33.3			L			343001		
										16.6	S
350	---		---	60	3.0	35000	---	60	19.8	L	350001
									9.8	S	350002

※HRC48±2

※L:835mm, S:415mm

## 3U Dies / 4V Dies

SK10

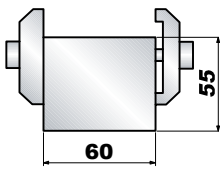
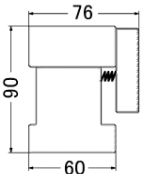
Tool Name	Tool Profile	U Width		FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>12</b> 3U Dies  HRC25±2		①	18	012018	1000kN/m	60	20.2	L	<b>012001</b>
		②	10	012010					
		③	6	012006			10	S	<b>012002</b>
		④	Flat	01200					

Tool Name	Tool Profile	V Width	Angle	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>129</b> 4V Dies  HRC48±2		①	16	88°	129016	450kN/m	60	15.8	L	<b>129001</b>
		②	35	85°	129035					
		③	22	88°	129022			7.8	S	<b>129002</b>
		④	50	85°	129050					

※L:835mm、S:415mm

## Die Blocks / Slider Hemming Dies

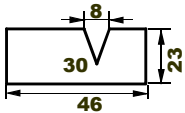
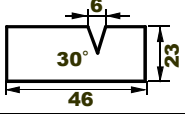
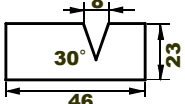
SK10

Tool Name	Tool Profile	Angle	V Width	Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>55</b> Die Blocks		---	---	60	05500	---	55	28	L	<b>055001</b>
									14	S
<b>105</b> Slider Hemming Dies  HRC54±2		---	---	---	105061	---	90	33	L	<b>105061</b>
									17	S

※L:835mm、S:415mm

## V-Groove Spares for Double-Deck Hemming Die

SK10

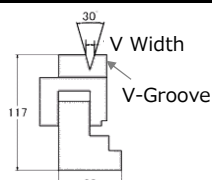
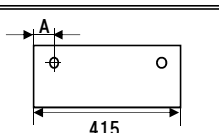
Tool Name	Tool Profile	Angle	V Width	Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.
<b>For 10469</b> V-Groove Spare Only		30°	6	46	10469	Acute Bend	23	---	L	<b>801491</b>
						V6:450kN/m		V8:350kN/m	---	S
<b>For 10409</b> V-Groove Spare Only					10409	Flattening	23	---	L	<b>801391</b>
						650kN/m		---	S	<b>801392</b>
<b>Old-Type 1046</b> V-Groove Spare Only		30°	6	46	10469	Acute Bend	23	---	L	<b>801401</b>
						V6:450kN/m		V8:350kN/m	---	S(Right)
<b>Old-Type 104</b> V-Groove Spare Only					10409	Flattening	23	---	L	<b>801301</b>
						650kN/m		---	S(Right)	<b>801302</b>
								---	S(Left)	<b>801312</b>

※HRC48±2

※Blue codes are items excluded from inventory.

※L:835mm、S:415mm

\* Hole position for old-type 104 and 1046  
S(Right) : A=52.5  
S(Left) : A=32.5



※Refer to page 36 for the bolt set.

## Light-Weight Hemming Tool Type I

SK10

Tool Name	Tool Profile	Angle	V Width	Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.						
<b>1156</b>		<b>30°</b>	6	53	11560	Acute Bend 500kN/m	77	15	L	<b>115601</b>						
								8	S	<b>115602</b>						
----								L	<b>1156V1</b>							
----								S	<b>1156V2</b>							
<b>1158</b>									<b>30°</b>	8	11580	Flattening 800kN/m	77	15	L	<b>115801</b>
														8	S	<b>115802</b>
----	L	<b>1158V1</b>														
----	S	<b>1158V2</b>														
(V-Groove Only)																
(V-Groove Only)																

※HRC36~42

※L:835mm、S:415mm

## Light-Weight Hemming Tool Type II

SK10

Tool Name	Tool Profile	Angle	V Width	Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.						
<b>1136</b>		<b>30°</b>	6	53	11360	Acute Bend 500kN/m	125	20	L	<b>113601</b>						
								10	S	<b>113602</b>						
----								L	<b>1136V1</b>							
----								S	<b>1136V2</b>							
<b>1138</b>									<b>30°</b>	8	11380	Flattening 800kN/m	125	20	L	<b>113801</b>
														10	S	<b>113802</b>
----	L	<b>1138V1</b>														
----	S	<b>1138V2</b>														
(V-Groove Only)																
(V-Groove Only)																

※HRC36~42

※L:835mm、S:415mm

## Light-Weight Hemming Tool Type III

SK10

Tool Name	Tool Profile	Angle	V Width	Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.						
<b>1116</b>		<b>30°</b>	6	53	11160	Acute Bend 500kN/m	84	16	L	<b>111601</b>						
								8	S	<b>111602</b>						
9								Sect.	<b>111681</b>							
----								L	<b>1116V1</b>							
----								S	<b>1116V2</b>							
----								Sect.	<b>111691</b>							
<b>1118</b>									<b>30°</b>	8	11180	Flattening 800kN/m	84	16	L	<b>111801</b>
														8	S	<b>111802</b>
9														Sect.	<b>111881</b>	
----														L	<b>1118V1</b>	
----														S	<b>1118V2</b>	
----														Sect.	<b>111891</b>	
(V-Groove Only)																
(V-Groove Only)																

※Sectionalized Length (45,50,50,55,60,65,70,75 Total 470mm 8 pieces)

※L:835mm、S:415mm

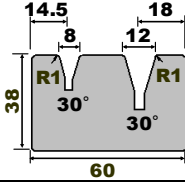
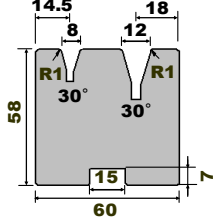
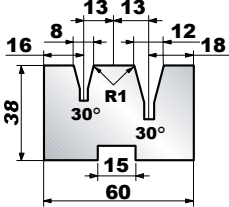
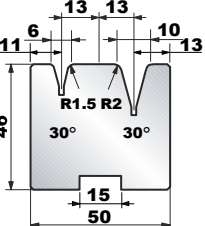
※HRC36~42

※Blue codes are items excluded from inventory.



## Acute 2V Dies / Reversible Acute 2V Dies

SK10, 11

Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>337</b> V 8×12  HRC48±2	30°		8×12	33700	300	38	13.2	L	<b>337001</b>	
							6.6	S	<b>337002</b>	
<b>338</b> V 8×12 (SK10)  HRC25±2	30°		8×12	33758	300	58	20.6	L	338001	End of sales
							10.3	S	338002	
							20.6	Sect.	338401	
<b>339</b> Quick Change Type V 8×12 (SK10) HRC47±2	30°		8×12	33900	400	38	12.9	L	<b>339001</b>	
							6.4	S	<b>339002</b>	
							12.9	Sect.	<b>339401</b>	
<b>33706</b> Quick Change Type V 6×10 (SK10) HRC47±2	30°		6×10	33706	260	46	13.4	L	<b>337061</b>	
							6.7	S	<b>337062</b>	
							13.4	Sect.	<b>337461</b>	

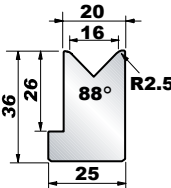
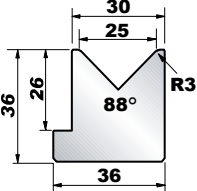
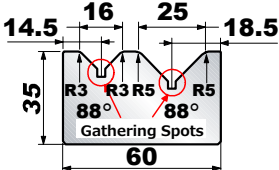
※Sectionalized Length (10,15,20,40,50,100,200,400 Total 835mm)

※L:835mm, S:415mm

※Red codes are obsolete items.

## AX 1V Dies / AX 2V Dies AX

SK10, 11

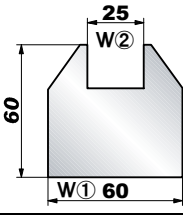
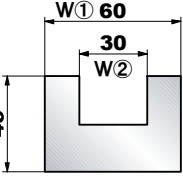
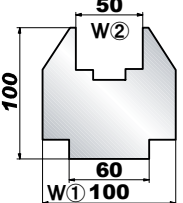
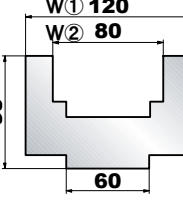
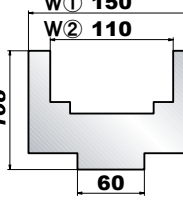
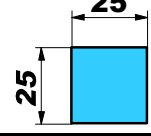
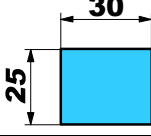
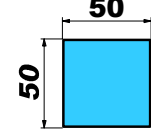
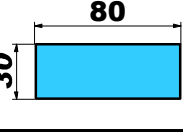
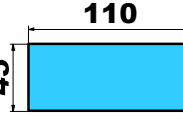
Tool Name	Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>327</b> V =16	88°		16	32700	1000	36	4.6	L	<b>327001</b>	
							2.3	S	<b>327002</b>	
<b>328</b> V =25	88°		25	32800	1000	36	6.4	L	<b>328001</b>	
							3.2	S	<b>328002</b>	
<b>128</b> V 16×25	88°		16×25	12800	1000	35	12.2	L	<b>128001</b>	
							6.1	S	<b>128002</b>	

※HRC65

※L:835mm, S:415mm

# A.T. Retainers / A.T. Pads





SK10

Tool Name	Width ②	Tool Profile	Width①	FEL No.	Pad Hardness	Height H	Weight (kg)	Size	CAT No.	
<b>60(1)</b> 25×25	25		60	06001	----	60	19	L	<b>060011</b>	
							9.8	S	<b>060012</b>	
<b>60(2)</b> 30×25	30		60	06002	----	43	13	L	<b>060021</b>	
							6.8	S	<b>060022</b>	
<b>60(3)</b> 50×50	50		100	06003	----	100	39.1	L	<b>060031</b>	
							20.3	S	<b>060032</b>	
<b>60(4)</b> 80×30	80		120	06004	----	83	36	L	<b>060041</b>	
							18.9	S	<b>060042</b>	
<b>60(5)</b> 110×45	110		150	06005	----	108	58	L	<b>060051</b>	
							30.4	S	<b>060052</b>	
<b>61(1)</b> A.T. Pads 25×25 Polyurethane	----		25	----	80°	25 Red	1	L	<b>061111</b>	
					90°	25 Blue	0.5	S	<b>061112</b>	
<b>61(2)</b> A.T. Pads 30×25 Polyurethane	----		30	----	80°	25 Red	1	L	<b>061211</b>	
					90°	25 Blue	0.5	S	<b>061222</b>	
<b>61(3)</b> A.T. Pads 50×50 Polyurethane	----		50	----	80°	50 Red	3	L	<b>061311</b>	
					90°	50 Blue	1.5	S	<b>061322</b>	
<b>61(4)</b> A.T. Pads 80×30 Polyurethane	----		80	----	80°	30 Red	3	L	<b>061411</b>	
					90°	30 Blue	1.5	S	<b>061422</b>	
<b>61(5)</b> A.T. Pads 110×45 Polyurethane	----		110	----	80°	45 Red	5	L	<b>061511</b>	
					90°	45 Blue	2.5	S	<b>061522</b>	

※L:837mm、S:417mm

# WING BEND

SK10

Tool Name	Min. Angle	Tool Profile	V Width	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>WB120A</b>	80°		approx 6	1200	1000	80	----	50	<b>70120A</b>	
Sash Type							----	100	<b>70120B</b>	
Width 12							----	200	<b>70120C</b>	
<b>WB230A</b>	80°		approx 10	2300	1000	80	----	50	<b>70230A</b>	
Sash Type							----	100	<b>70230B</b>	
Width 22							----	200	<b>70230C</b>	
<b>WB350A</b>	80°		approx 15	3500	1000	80	----	50	<b>70350A</b>	
Sash Type							----	100	<b>70350B</b>	
Width 35							----	200	<b>70350C</b>	
<b>WB650</b>	80°		approx 30	650	1000	100	----	50	<b>30650A</b>	
Rail Type							----	100	<b>30650B</b>	
							----	200	<b>30650C</b>	
Rail & Plate (For WB650)	----		----	00012	----	----	----	835	<b>086001</b>	
			----					415	<b>086002</b>	
Alignment Jig (For WB650)	----		----	----	----	----	----	----	<b>938000</b>	

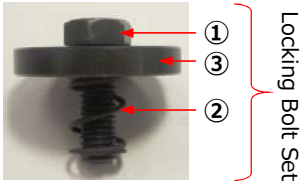
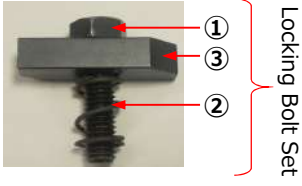
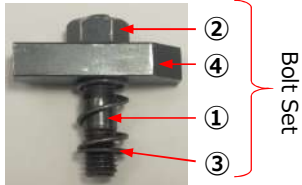
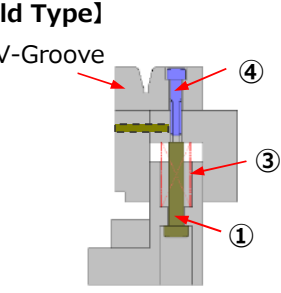
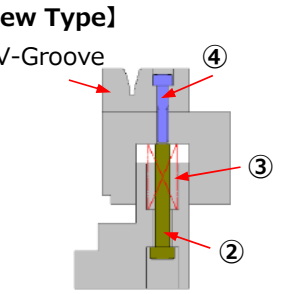
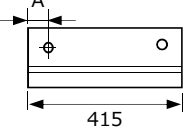
※ Die Holder R for sectionalized 1V is recommended for Die Holder for sash type.

※ Two alignment jigs are required for one rail. Three alignment jigs are required for two rails.

Four alignment jigs are required for three rails

# Bending Tool Accessory Parts

SK10


Tool Profile	Tool Name	Size Shape	CAT No.	Necessary Qty (for L)	
<b>For 2V Dies</b> 	Locking Bolt Set (Round Washer)	S set (①~③ 2pcs each)	<b>802002</b>	2	
	① Locking Bolt	M8x25	<b>800100</b>	4	
	② Spring		<b>800200</b>	4	
	③ Washer	Round Washer (Φ35)	<b>800300</b>	4	
<b>For 1V Dies</b> 	Locking Bolt Set (Square Washer)	S set (①~③ 2pcs each)	<b>802102</b>	2	
	① Locking Bolt	M8x30	<b>800400</b>	4	
	② Spring		<b>800200</b>	4	
	③ Washer	Square Washer (38x14)	<b>800500</b>	4	
<b>For Radius Rulers (Coining Rulers)</b> 	Bolt Set (Square Washer)	S set (①~④ 2pcs each)	<b>BA0010</b>	2	
	① Stud Bolt	M8x30	<b>801200</b>	4	
	② Nut	M8	<b>801000</b>	4	
	③ Spring		<b>800200</b>	4	
	④ Washer	Square Washer (38x14)	<b>800500</b>	4	
<b>Double-Deck Hemming</b> <b>[Old Type]</b>  <b>[New Type]</b> 	① Stripper Bolt for Old Type	STG8x45	<b>XP1384</b>	4	
	② Stripper Bolt for New Type	STG8x55	<b>XP1386</b>	4	
	③ Spring (for Old/New Type)		<b>800800</b>	4	
	④ Hemming Die Fixing Bolt (for Old/New Type)	M6x30	<b>XP0085</b>	8	
	Old Type_V-Groove for 104/1046  Right : A=52.5 Left : A=32.5	V8	L	<b>801301</b>	1
			S (Right)	<b>801302</b>	-
			S (Left)	<b>801312</b>	-
	New Type_V-Groove for 10409/10469	V6	L	<b>801401</b>	1
			S (Right)	<b>801402</b>	-
			S (Left)	<b>801412</b>	-
	New Type_V-Groove for 10409/10469	V8	L	<b>801391</b>	1
			S	<b>801392</b>	-
	New Type_V-Groove for 10409/10469	V6	L	<b>801491</b>	1
S			<b>801492</b>	-	

※Necessary Qty is for L size. Necessary Qty for S size is half of that.

※For more details about V-Groove of Double-Deck hemming, please refer to page 31.

# One-Touch Quick Change 2V Dies

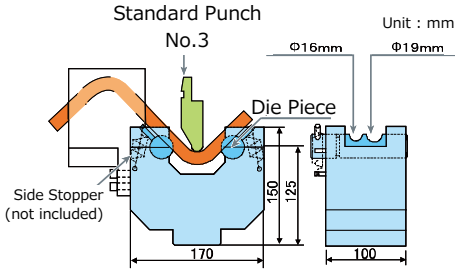
SK10, 11

Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>Order Production</b>  (SK10)		----	----	----	----	L	Special	
						S	Special	
<b>Hole Processing</b> (for New Tool)  (SK10)		----	----	----	----	L	Special	
						S	Special	
<b>Regrinding &amp; Hole Processing</b> (for Customer's Tool)  (SK10)		----	----	----	----	L	Modify	
						S	Modify	
<b>Dedicated Rails</b>		----	----	----	----	L	300101	End of sales
						S	300102	

L:835mm, S:415mm

# Round Bar V-Bend Tools

SK10

Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>Set</b>  Length=100mm	 <p>Standard Punch No.3 Unit : mm Die Piece Side Stopper (not included) 170, 150, 125, 100, <math>\phi 16\text{mm}</math>, <math>\phi 19\text{mm}</math></p>	----	----	150	14	----	Special	
<b>Replacement Pieces</b>  (2 pcs)		<p>※ Side stopper( separately available item) requires customer's productsdetail for confirmation.</p>	----	----	----	----	----	Special

※Red codes are obsolete items.

※Blue codes are items excluded from inventory.

## Super-Multi II Tools

SK10, 11

Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Weight (kg)	Size	CAT No.	
<b>Set</b> (Solid Piece)		992002	1000 kN/m	----	L	<b>S20021</b>	
				----	S	<b>S20022</b>	
<b>Sect. Pieces</b> (SK10)				----	Sect.	<b>S2B802</b>	
<b>Solid Piece</b> (SK10)		----	----	----	L	<b>S2B021</b>	
		----	----	----	S	<b>S2B022</b>	
<b>Alignment Jig</b> (SK10) (2 pcs)		----	20kN/m	----	----	<b>S20030</b>	

※Sectionalized Piece Length (10,15,20,40,50,100,180 Total 415mm)

※L:835mm, S:415mm

## Tip-Type Offset Tools

SK10, 11

Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Weight (kg)	Size	CAT No.	
<b>Punch Holders</b>		----	----	----	L	Special	
				----	S	Special	
<b>Punch Tip &amp; Die Tip</b> (SK10)		----	----	----	L	Special	
		----	----	----	S	Special	
		----	----	----	Sect.	Special	

※B Type Sectionalized Length (10,15,20,40,50,100,100,165,300 Total 800mm)

※L:835mm, S:415mm

## Fine-Offset Tools

SK10, 11


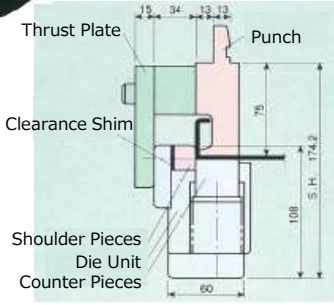

Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Weight (kg)	Size	CAT No.	
<b>Set</b> (Punch and Die)		362959	1000	Punch :13.0 Die :16.0	----	<b>F00022</b>	
<b>Sectionalized Die Pieces</b> (SK10)				----	Sect.	<b>FB0032</b>	

※Sectionalized Die Pieces Length (15,20,25,30,40,50,100,220 Total 500mm)

※Blue codes are items excluded from inventory.

## Standard L-Bend Tools

SK10, 11


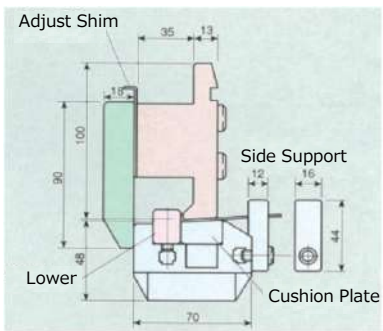

Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Weight (kg)	Size	CAT No.											
<b>Set</b> (Punch and Die)	 	----	1000	----	L	L00011	Special										
					S	L00022											
					Sect.	LBS011											
L					LP0011												
S					LP0022												
Sect.					LBP011												
<b>Punches</b>					L	LD0011											
					S	LD0022											
<b>Die</b> (SK10)										L	LD0011						
										S	LD0022						
<b>Hinged Punch</b>  1set (Left+Right) : Total 200mm											----		----	----	----	L00031	

※Sectionalized Length (15,20,25,30,50,100(Right Ear),100(Left Ear),200 Total 540mm)

※L:1000mm、S:500mm

## Small L-Bend Tools (CHOKOMAGE-KUN)

SK10, 11

Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Weight (kg)	Size	CAT No.											
<b>Set</b> (Punch and Die)	   <p>▲Upper Sect. Punch</p>	75001	----	----	L	K00011	Special										
					S	K00022											
					SS	K00032											
<b>Punch</b>						L		KP0011									
						S		KP0022									
						SS		KP0032									
<b>Die</b> (SK10)												L	KD0011				
												S	KD0022				
												SS	KD0032				
<b>Sect. Blades</b> (SK10)															L	KBB011	
															S	KBB022	
															SS	KBB032	
<b>Solid Blades</b>									L						KPB011		
									S						KPB022		
									SS						KPB032		

※Sect. Blade Length

※L:835mm、S:415mm、SS:250mm

For L835 (15,20,25,30,40,50,100,135,415

Total 830mm)

For S415 (15,20,25,30,40,50,100,135

Total 415mm)

For SS250 (15,20,25,30,35,40,50

Total 215mm)

※Red codes are obsolete items.

Tool Name	Tool Profile	Spec	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>SGRIP</b> Single  (SK10)		Z2	70002	1000 kN/m	120	6.3	1pc	<b>903100</b>	
<b>SGRIP</b> Rear Clamp Plate Assy  (SK10)		—	—	—	—	1.2	1pc	<b>903300</b>	
<b>GRIP</b> Dedicated Plate Type C  (SK10)		—	—	—	—		1pc	<b>903310</b>	
<b>GRIP</b> Dedicated Plate Type A  (SK10)		—	—	—	—		1pc	<b>903320</b>	
<b>AGRIP-M</b> Dual  (SK10 or 11) <sup>※1</sup>		Z2	79002	1000 kN/m	120	7.5	1pc	<b>905200</b>	
<b>Conversion Adaptor</b> T-Type  (SK19)		Z2 Conversion	—	1000 kN/m	—	8	1pc	Special	

※ Dedicated plates is applicable for SGRIP and AGRIP.

※1 Select appropriate clamp plate by SK. SK10 (Straight-Groove Type ) or SK11 (Tapered-Groove Type)

※Dedicated plates may change depending on machines/specifications/production date.

Please be sure to check your dedicated plates before order.



# AGRIP-A

SK10, 11

## 【HDS Model】

Machine Model	GRIP Quantity	
HDS5020NT	10 [13]	
HDS8025NT	13 [16]	
HDS1303NT	16 [19]	
HDS1703NT		
HDS2203NT		
HDS2204NT*1	21 [26]	

\*1 Note : Dedicated Plate Type is A.

## 【FBD Model】

Model/ Table Length	GRIP Quantity	
FBDⅢ / 1.2m	6 [8]	
FBDⅢ / 2.0m	10 [13]	
FBDⅢ / 2.5m	12 [16]	
FBDⅢ / 3.0m	15 [19]	
FBDⅢ / 4.0m*1	20 [26]	

## 【HD Model】

Machine Model	GRIP Quantity	
HD5020NT	10 [13]	
HD8025NT	13 [16]	
HD1303NT	15 [18]	
HD1303LNT		
HD1703LNT		

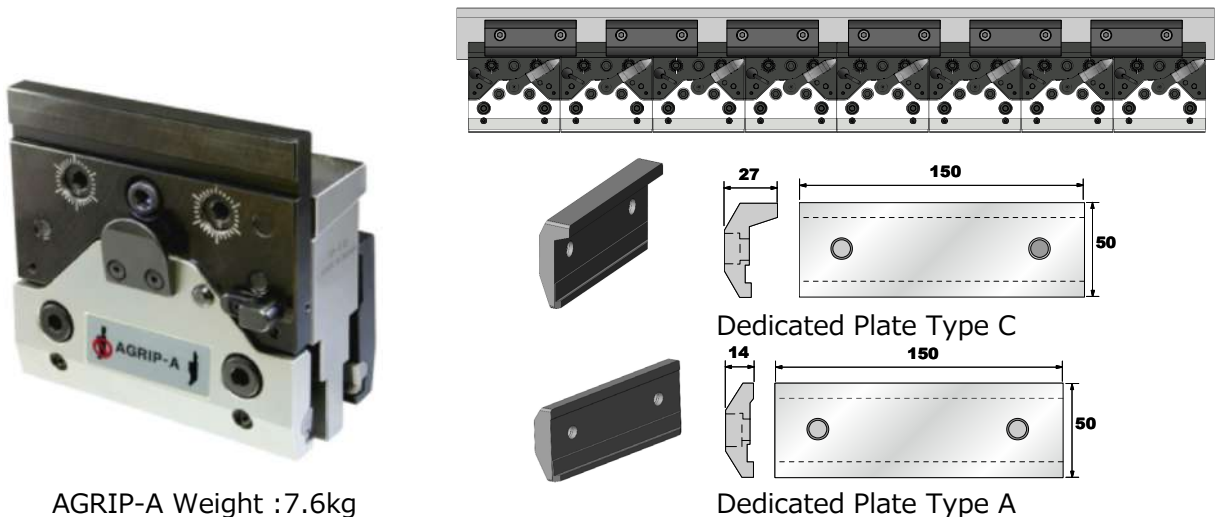


- ※ Including Hydraulic Unit and Dedicated Plate.
- ※ Hydraulic unit is excluded from inventory.
- ※ Dedicated plates may change depending on machines/specifications/production date.  
Please be sure to check your dedicated plates before order.
- ※ [ ] indicates full range quantity (Gapless Connection).

## Note for Full Range Spec. (GRIP common)

- ※ Additional dedicated plates for GRIP is not necessary if it is full range spec.
- ※ There is 50mm gap between dedicated plates of top table, but GRIP can be attached astride them.

e.g.) For table length 1.2mm



AGRIP-A Weight : 7.6kg

# One-Touch Punch Holders / Sub-Holders

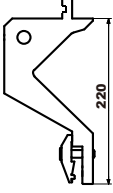
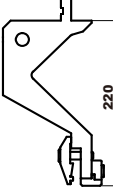

SK11

Tool Name	Tool Profile	Spec	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>One-Touch Punch Holder</b>  Single		Z1	----	1000 kN/m	100	6	1pc	<b>906000</b>	
<b>One-Touch Punch Holder</b>  Dual		Z1	901000	1000 kN/m	100	7	1pc	<b>901000</b>	
<b>Distance Piece for Double Clamping</b>  Single		Z1	----	1000 kN/m	100	6.8	1pc	<b>906001</b>	
<b>Distance Piece for Double Clamping</b>  Dual		Z1	----	1000 kN/m	100	7.3	1pc	<b>901001</b>	
<b>One-Touch Sub Holder</b>		Z2	406509	1000 kN/m	120	----	1 set	<b>908000</b>	
						----	50 mm	<b>908100</b>	

※One-Touch Sub Holder Length (25,35,40,50 Total 150mm)

## Deep Bend Punch Holders


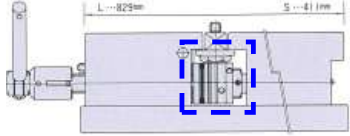
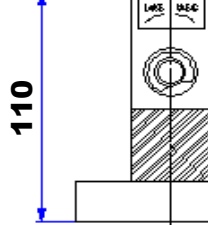
SK10

Tool Name	Tool Profile	Spec	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Length (mm)	CAT No.	
<b>Punch Holders</b> Without Wedge	 ※The figure is W94000.	Z2	94000	----	220	18	200	<b>940000</b> (SK10 Punch)	
						18	200	<b>W94000</b> (SK11 Punch)	
<b>Punch Holders</b> With Wedge	 ※The figure is W94100.	Z2	94100	----	220	18	200	941000 (SK10 Punch)	End of sales
						18	200	W94100 (SK11 Punch)	
<b>Clamp Plate</b> Straight Groove		----	----	----	----	----	----	<b>961000</b>	

※Red codes are obsolete items.

## One-Touch Die Holders

SK11


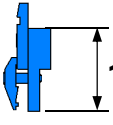
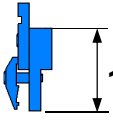
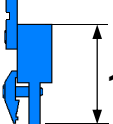
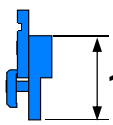
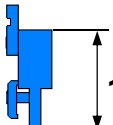

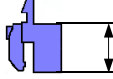
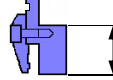
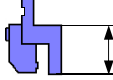
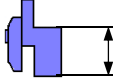
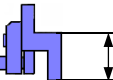
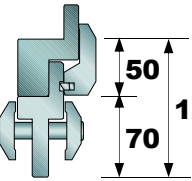
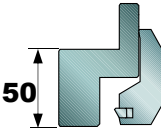
Tool Name	Tool Profile	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.	
<b>One-Touch Die Holders</b>		----	----	75	----	L	<b>904001</b>	
						S	<b>904002</b>	
<b>Lock-Bolt Set for One-Touch Die Holder</b> (2 pcs)		----	----	----	----	S set	<b>905000</b>	
<b>Special One-Touch Die Holder</b> H=110		----	----	110	----	L	Special	
						S	Special	

※Blue codes are items excluded from inventory.

※L:836mm, S:418mm

# Several Distance Pieces

SK10, 11

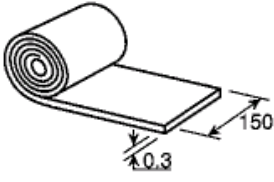
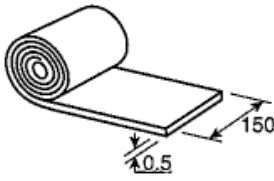
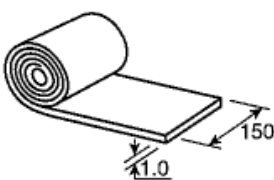
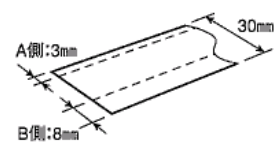


Tool Name	Tool Profile	Spec	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Size	CAT No.		
<b>Narrow-Distance Pieces</b> Width 50mm  	 <b>100</b> (SK11)	Z1	----	1000	100	----	50 mm	<b>W9100A</b>		
	 <b>100</b> (SK11)	Z1	471001		100	----		<b>W9100B</b>		
	 <b>120</b> (SK11)	Z2	491101		120	----		<b>W9110B</b>		
	 <b>100</b> (SK10)	Z1	471003		100	2.5		<b>910000</b>		
	 <b>120</b> (SK10)	Z2	491103		120	2.5		<b>911000</b>		
<b>Short-Distance Pieces</b> Width 150mm  	 <b>50</b> (SK11)	Z1	----	1000	50	----	150 mm	<b>W9200A</b>		
	 <b>50</b> (SK11)	Z1	----			----		<b>W9200B</b>		
	 <b>50</b> (SK11)	Z2	600003			50		----	<b>W9210B</b>	
	 <b>50</b> (SK10)	Z1	----			50		2.5	<b>920000</b>	
	 <b>50</b> (SK10)	Z2	----			50		2.5	<b>921000</b>	
<b>System Sect. Distance Piece for One-Touch</b> Without Wedge (SK10)	 <b>50</b> <b>120</b> <b>70</b>	Z2	971000	1000	120 (70)	----	Sect.	<b>971000</b>		
<b>System Sect. Distance Piece for One-Touch</b> Without Wedge (SK11)	A Type	Z2	971001		120 (70)	----	Sect.	A Type <b>W9710A</b>		
	B Type				B Type <b>W9710B</b>					
<b>System Sect. Distance Piece Sub Holder</b> Without Wedge (SK10)	 <b>50</b> Width 150mm	Z2	----	1000	50	----	150 mm	<b>972000</b>		

※System Sect. Distance Piece Sect. Length (20,30,40,60,80,100 Total 330mm)



## Urethane Sheets / Mark Protection Strip / Others

SK10






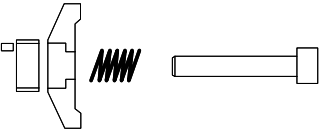
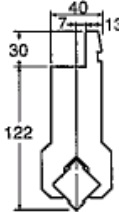
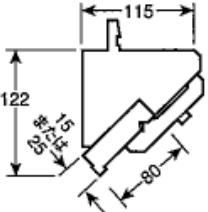
Tool Name/Spec.	Figure	Thickness (mm)	FEL No.	Width (mm)	Length	Weight (kg)	Quantity	CAT No.	
<b>Urethane Sheet</b>  Polyurethane		0.3	----	150	----	----	1 m	<b>426201</b>	
		0.5	----	150	----	----	1 m	<b>426191</b>	
		1.0	----	150	----	----	1 m	<b>426181</b>	
<b>Mark Protection Strip</b>  Special Fiber		0.3	----	30	10m	----	1pc	<b>909910</b>	
<b>Urethane Cap</b>  Polyurethane Outside Diameter 15mm		0.5	----	----	840 mm	----	1Set (5pcs)	<b>909930</b>	
<b>Kizu-Non-Sheet</b> T-10  Special Fiber		1.0	----	100	10m	----	1Set	<b>909950</b>	

## Protractors

SK10

Tool Name	Figure	FEL No.	Width (mm)	Height H	Weight (kg)	Quantity	CAT No.	
<b>Angle Gauge</b>		----	95	95	0.15	1	<b>935000</b>	End of sales
<b>Bending Digital Protractor</b>  DPM-2		----	57	57	0.22	1	<b>935100</b>	

※Red codes are obsolete items.

Tool Name/Spec.	Figure	FEL No.	Allowable Tonnage	Height H	Weight (kg)	Quantity	CAT No.	
<b>Side Gauge (SK10)</b>  Clamping Width MAX=60mm MIN=13mm	 2V,1V common	----	----	----	2	1	<b>930000</b>	
<b>Variable Angle Side Gauge (SK10)</b>  Max. Adjustable Angle 50° to right and left	 2V,1V common	----	----	----	2.6	1	<b>932000</b>	
<b>Side Gauge for Sect. 1V Die (SK10)</b>  Guide Bar L=200mm Work Support=111.5mm	 Sect. 1V Die	----	----	----	1	1	<b>939000</b>	
<b>Front Table for Sect. 1V Die (SK10)</b>  Table Weight : 700g Plate Weight : 1.1kg	 Sect. 1V Die	----	----	100 mm ~ 116.5 mm	1.8	1	<b>933000</b>	
<b>Stopper for Sect. 2V Die (SK10)</b>  Used for No.300		----	----	----	----	1Set (2pcs)	<b>936000</b>	
<b>Dual Clamping Set for Standard Distance Pieces (SK10)</b>  Contents: Rear Plate×1, Spring×2, Bolt×2, Nut with screw×2 ※Distance Pieces, Front Plate·Spring are not included.		----	----	----	----	1	<b>925000</b>	
<b>Closing Punches</b>  Work Length 200mm		----	----	----	6	Main Unit	<b>C00010</b>	
					----	Spare Blade	<b>COB010</b>	
					----	Sect. Blade	<b>COB030</b>	
<b>Long-Board Punch</b>  Spec. 15/25mm  Length 250mm/300mm		----	----	----	15mm :16 25mm :18	Main Unit	<b>Special</b>	
					----	Replacement Blade		

※Blue codes are items excluded from inventory.

# Multi-Tool Stockers

SK10、19

Tool Name	Figure	FEL No.	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)	CAT No.	
<b>M.T.S.-298AFH</b>  For AFH1V Dies  (SK10)		----	500	924	990	135	<b>956000</b>	
<b>M.T.S.-248ST</b>  For 1V Dies / 2V Dies  (SK10)		----	500	924	950	120	<b>955000</b>	
<b>M.T.S.-298MD</b>  Modular Tool Only  (SK19)		----	500	924	990	140	<b>957000</b>	
<b>M.T.S. Table Assy</b> (M.T.S.-248ST Only) (SK10)	※Table Assy ・Upper Table           ×1 ・Side Table             ×1 ・Side Cover            ×1  	----	----	----	----	----	<b>955400</b>	
<b>M.T.S. Upper Table</b> (M.T.S.-248ST Only)		----	----	----	----	----	<b>955300</b>	
<b>M.T.S. Side Cover</b> (common)		----	----	----	----	----	<b>955200</b>	
<b>M.T.S. Side Table</b> (common)		----	----	----	----	----	<b>955100</b>	
<b>M.T.S.-486ST</b>  For 1V Dies / 2V Dies  (SK10)		----	745	1140	1190	310	<b>958100</b>	
<b>M.T.S.-398MD</b>  Modular Tool Only  (SK19)		----	745	1140	1190	280	<b>959000</b>	