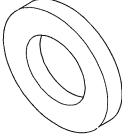
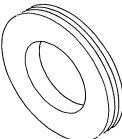


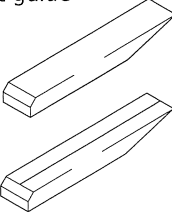
## Toolings


### Standard toolings

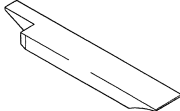
\* marked items are made-to-order

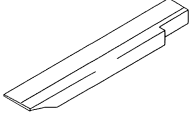
Name	Wire Diameter	Part No.	Remarks
Feed roll Flat 	0.02~0.09	14X077-F002	
	0.1~0.3	14X077-F010	

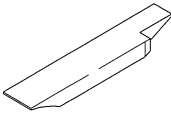
Name	Wire Diameter	Part No.	Remarks
Feed roll 	0.02/0.03	14X077-0203	Double-grooved
	0.04/0.05	14X077-0405	
	0.06/0.07	14X077-0607	
	0.08/0.09	14X077-0809	
	0.1/0.12	14X077-1012	
	0.13/0.15	14X077-1315	
	0.16/0.2	14X077-1620	
	0.25/0.3	14X077-2530	

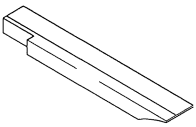
Name	Wire Diameter or groove shape	Part No.	Remarks
Inlet guide 	Flat	14X072-F	
	0.03	14X072-003	*
	0.06	14X072-006	
	0.1	14X072-010	
	0.12	14X072-012	
	0.26	14X072-026	
	0.4	14X072-040	

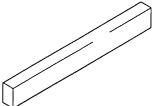
Name	Wire Diameter	Part No.	Remarks
Wire guide Flat 	S	32X730-F	To be used along with Pitch tool B or 3D Pitch tool.
			Right wind

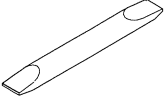
Name	Wire Diameter	Part No.	Remarks
Wire guide RH - Flat 	0.09 or less	14X073-RFL	Wire guide length: 28.5
	0.1 or more	14X073-RFS	Wire guide length: 27.5
			To be used along with Right Pitch tool A

Name	Wire Diameter	Part No.	Remarks
Wire guide RH 	0.03	14X073-R03	*
	0.05	14X073-R05	
	0.06	14X073-R06	
	0.07	14X073-R07	
	0.08	14X073-R08	
	0.09	14X073-R09	
	0.1	14X073-R10	
	0.11	14X073-R11	
	0.12	14X073-R12	
	0.13	14X073-R13	
	0.14	14X073-R14	
	0.15	14X073-R15	
	0.16	14X073-R16	
	0.18	14X073-R18	
	0.2	14X073-R20	
	0.23	14X073-R23	
	0.25	14X073-R25	
	0.26	14X073-R26	
	0.3	14X073-R30	

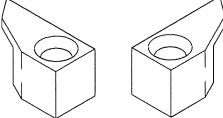
Name	Wire Diameter	Part No.	Remarks
Wire guide LH- Flat 	0.09 以下	14X073-LFL	Wire guide length: 28.5
	0.10 以上	14X073-LFS	Wire guide length: 27.5
			To be used along with Pitch tool A - Left.

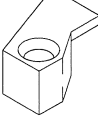
Name	Wire Diameter	Part No.	Remarks
Wire guide LH 	0.03~0.06	14X073-Lnn	Other than the groove size covering w.d. 0.03~0.06, same as that for RH wire guide.

Name		Part No.	Remarks
Cutting tool 		14X075-B	To used not only for cutting but also for 3D bending

Name	Wire Diameter	Part No.	Remarks
Coiling pin 	0.03	02X020-003	
	0.04	02X020-004	
	0.05	02X020-005	
	0.06	02X020-006	
	0.07	02X020-007	
	0.08	02X020-008	
	0.09	02X020-009	
	0.1	02X020-010	
	0.12	02X020-012	
	0.13	02X020-013	
	0.14	02X020-014	
	0.15	02X020-015	
	0.16	02X020-016	
	0.18	02X020-018	
	0.2	02X020-020	
	0.23	02X020-023	

Name	Wire Diameter	Part No.	Remarks
Coiling pin V-grooved	0.2	02X019-V02	

Name	Winding Direction	Part No.	Remarks
Pitch tool A 	Right	32X727-R	To be used along with Wire guide RH – Flat
	Left	32X727-L	To be used along with Wire guide LH-Flat

Name	Winding Direction	Part No.	Remarks
Pitch tool B 	Right	32X728-R	To be used along with Wire guide Flat S.

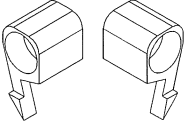
Name	AxB (x C)	Part No.	Remarks
Arbor 	3x3	14X076-33	2pcs required for the center arbor holder
	3x3	14X076-33S	* 1.27 times hardness in compare with the standard carbide material.
	3x6	14X076-36	To be used with the center arbor holder
	3x3x8	14X076-338	* To be used for Inner Diameter 3mm or more.

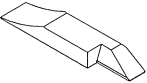
Name	Part No.	Remarks
Backing tool 	82X456	To be used for 3D bending

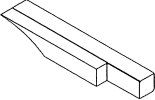
## Toolings for Torsion Attachment

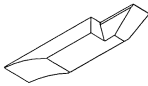
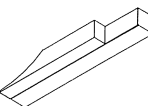
Name	Wire Diameter	Part No.	Remarks
T.A. Coiling point 	0.05	02X027-005	* Material : S55C
	0.06	02X027-006	* Groove portion: Carbide
	0.08	02X027-008	*
	0.1	02X027-010	
	0.12	02X027-012	
	0.13	02X027-013	
	0.14	02X027-014	
	0.15	02X027-015	
	0.16	02X027-016	
	0.18	02X027-018	
	0.2	02X027-020	
	0.23	02X027-023	
	0.25	02X027-025	
	0.26	02X027-026	
0.3	02X027-030		

## Toolings for Short holder unit

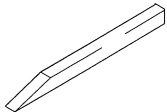
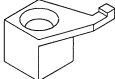
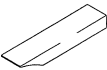
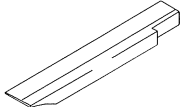
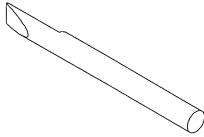
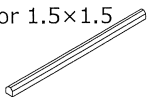
Name		Part No.	Remarks
Short pitch tool 	Right	82X455-R	
	Left	82X455-L	

Name		Part No.	Remarks
Short wire guide RH - Flat 		82X457-RF	

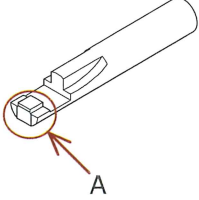


Name	Wire Diameter	Part No.		Remarks
Short wire guide RH 	0.03	82X457-R03	*	
	0.04	82X457-R04	*	
	0.05	82X457-R05		
	0.06	82X457-R06		
	0.065	82X457-R65	*	
	0.07	82X457-R07		
	0.074	82X457-R74	*	
	0.08	82X457-R08		
	0.09	82X457-R09		
	0.10	82X457-R10		
	0.11	82X457-R11	*	
	0.12	82X457-R12		
	0.13	82X457-R13		
	0.14	82X457-R14		
	0.15	82X457-R15		
	0.16	82X457-R16		
	0.18	82X457-R18		
	0.20	82X457-R20		
	0.23	82X457-R23		
	0.25	82X457-R25		
0.26	82X457-R26			
0.27	82X457-R27	*		
0.30	82X457-R30			

Name		Part No.	Remarks
Short wire guide LH - Flat 		82X457-LF	
Name	Wire diameter	Part No.	Remarks
Short wire guide LH 	0.03~0.3	82X457-Lnn	Same groove sizes as that for Short wire guide RH

## Toolings for Ultra fine wire unit

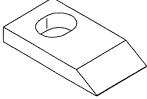
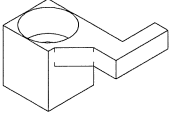
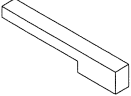

Name		Part No.		Remarks
Cutting tool 		14X079		
Name		Part No.		Remarks
Pitch tool 		32X729-R		
Name		Part No.		Remarks
Wire guide Flat 		14X078-F		
Name	Wire Diameter	Part No.		Remarks
Wire guide RH 	0.03	32X724-R003		
	0.04	32X724-R004		
	0.05	32X724-R005		
	0.06	32X724-R006		
	0.07	32X724-R007		
	0.08	32X724-R008		
	0.09	32X724-R009		
Name	Wire Diameter	Part No.		Remarks
Coiling pin 	0.016	05X406-016	*	0.016
	0.02	05X406-020		0.017~0.020
	0.03	05X406-030		0.021~0.030
	0.04	05X406-040		0.031~0.040
	0.05	05X406-050		0.041~0.050
	0.06	05X406-060		0.051~0.060
	0.07	05X406-070		0.061~0.070
	0.08	05X406-080		0.071~0.080
	0.09	05X406-090		0.081~0.090
	0.10	05X406-010	*	0.091~0.100
Name		Part No.		Remarks
Arbor 1.5×1.5 		81X836A		1.5×1.5
		81X836AS		Hardness 1.27 times in compare with the standard carbide material

## Toolings for 3D unit

Name	Wire Diameter	Part No.		Remarks
3D Bending coiling pin 	0.03	32X735-003	*	Choose either vertical grooved or not
	0.04	32X735-004	*	
	0.05	32X735-005	*	With Vertical grooved
	0.06	32X735-006	*	
	0.07	32X735-007	*	
	0.08	32X735-008	*	Without Vertical groove
	0.09	32X735-009	*	
	0.1	32X735-010	*	
	0.12	32X735-012	*	
	0.13	32X735-013	*	A portion
	0.14	32X735-014	*	
	0.15	32X735-015	*	
	0.16	32X735-016	*	
	0.18	32X735-018	*	
	0.2	32X735-020	*	
	0.23	32X735-023	*	
	0.25	32X735-025	*	
	0.26	32X735-026	*	
	0.3	32X735-030	*	



## Toolings for 3D Bending servo slide unit

Name		Part No.	Remarks
3D Bending tool		26X852A	To be used along with the backing tool
Name		Part No.	Remarks
3D Bending pitch tool		82X460	To be used along with the wire guide Flat S
Name		Part No.	Remarks
Backing tool		82X456	To be used along with the 3D Bending tool
Name		Part No.	Remarks
Wire guide Flat S		32X730	To be used along with the 3D Bending pitch tool.