ABCDYA TOOLS

Pneumatic hand tools

These pneumatic hand tools operate on compressed air ranging from 75 to 85 PSI (5.0 to 6.0 kg/cm²){500 to 600kPa} for quick and accurate crimping, and are very efficient for continuous crimping.

The dies are classified according to the type and size of the solderless terminal. Refer to the table of appropriate tools at the back of this catalog for information on each of the dies. **Dies should be ordered separately.**

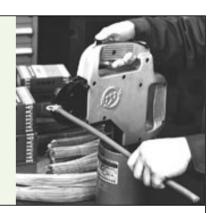
The die can be easily changed by using the two dis setting pins and the tool provided.

Sel	ries	YA-1	YA-2
teri spl	olicable minals/ ices minal size	* 0.5 to 5.5 Non-insulated terminals/splices * 0.5 to 2 Insulated terminals, Non-insulated terminals with coppe * 1 to 5(5.5) Closed-end splices * 1.25 to 5.5 Flag terminals	er sleeve
	indard-type irtable type)	Model No. YA-1 Specifications Weight: 1.7kg (3.8lbs) Length: 300mm (11.8") O.D.: 90mm (3.5") Air pressure: 490 to 590kPa (5 to 6kgf/cm²) Air consumption: 1.6Nℓ/cycle	Model No. YA-2 Specifications Weight: 1.3kg (2.9lbs) Length: 250mm (9.8") O.D.: 90mm (3.5") Air pressure: 490 to 590kPa (5 to 6kgf/cm²) Air consumption: 0.8Nℓ/cycle
-type	(air foot valve type)	Model No. YAT-1A Main unit: YA-1A (mounted on bench unit) Air foot switch: AV-250 (incl. air hose) Specifications Air consumption: 1.6Nℓ/cycle	Model No. YAT-2A Main unit: YA-2A (mounted on bench unit) Air foot switch: AV-250 (incl. air hose) Specifications Air consumption: 1.6N\(\ell\)/cycle
Bench-type	(solenoid valve type)	Model No. YAD-1A Main unit: YA-1A Air unit: D-1 (100V only) Specifications Air consumption: 1.6Nℓ/cycle	Model No. YAD-2A Main unit: YA-2A Air unit: D-1 (100V only) Specifications Air consumption: 1.6Nℓ/cycle

YA-4



YA-5



- * 1.25 to 14 Non-insulated terminals/splices
- * 1.25 to 5.5 Insulated terminals, Non-insulated terminals with copper sleeve
- * 1 to 8 Closed-end splices
- * 1.25 to 14 Flag terminals

- * 8 to 60 Non-insulated terminals/splices
- * 8 to 60 Flag terminals

Model No. YA-4

Specifications

Weight: 3.0kg (6.6lbs) Length: 185mm (7.3") Width: 88mm (3.5")

Height: 275mm (10.8")

Air pressure: 490 to 590kPa (5 to 6kgf/cm²)

Air consumption: 2.4N l/cycle



Model No. YA-5 Specifications

Weight: 9.7kg (21.4lbs) Length: 300mm (11.8") Width: 125mm (4.9")

Height: 450mm (17.7")

Air pressure: 490 to 590kPa (5 to 6kgf/cm²)

Air consumption: 7.8Nl/cycle







Model No. YAT-4A



102

RATCHT HAND TOOLS (YHT,YHT,YDT,YG,YS)

Ratchet hand tools are widely used to crimp small terminals. The proper crimping pressure is ensured by a ratchet which automatically controls the crimping force. Five different types -YHT, YNT, YDT, YG and YS - are available and can be selected according to the type of terminal to be crimped.

Tool Series	Type of Applicable Terminals	Light Duty Tools Length: 295mm (11.6") Width: YNTseries75mm (3.0") Others70mm (2.8") Weight: 500g (1.1lbs)			Heavy Duty Tools Length: YHT-8S310mm (12.2") Others300mm (11.8") Width: 75mm (3.0") Weight: 900g (2.0 lbs)				
		Terminal Nominal Size	Tool Model No.		Terminal Nominal Size	Tool Model No.			
\.	Non- insulated	0.5	YHT-2622	~	8	YHT-8S	On the		
YHT	terminals/ splices	1.25 2 3.5 5.5	YHT-2210 (→) (*2)		14	YHT-14S			
	Insulated	0.5	YNT-2622						
YNT	terminals/ splices (*1)	1.25	YNT-2216		5.5	YNT-1210S	and the same of th		
		2	YNT-1614						
YDT	Non-insulated terminals with copper sleeve (*1)	1.25	YDT-2216		5.5	YDT-1210S			
		2	YDT-1614		0.0	151 12100			
		1.25	YG-2216		8	YG-8S			
YG	Flag type	2	YG-1614		O	10-03	0.0		
16	terminals	3.5	YG-1412		14	YG-14S			
		5.5	YG-1210		14	10-140			
		0.5	YS-2622						
YS	Closed-end splices	1.25	YS-2216		8	YS-8S	We be made and		
	эрпсөз	2	YS-1614						
		5.5	YS-1210						

Notes: *1 By adjusting the eccentric cam, these tools can be used both for straight type and flared type insulated terminals. *2 YHT-2210 conforms to JIS C9711. (File No.677018)

GHYPT TOOLS

Hydraulic hand tools

YPT-60-21 YPT-150-1 Model No. The YPT-60-21 hydraulic hand tool is easily portable and The YPT-150-1 is used for non-insulated terminals and is used extensively to crimp small lots of non-insulated sleeves with a nominal size of 8 to 150 (AWG#8 to MCM300). terminals with a nominal size of 8 to 60 (AWG#8 to #1/0). Crimping is performed by placing the tool on the floor and The precision ratchet ensures a complete connection every manually operating the handle at the top. time. Female and male dies must be attached to the main The terminal is grasped securely by operation of the quick body to crimp terminals. Five different female dies and lever, thus allowing the work to be done efficiently. three different male dies can be used, depending on the size of the terminal. This product conforms to JIS C9711. (File No.375001) Applicable terminals/ * 8 to 60 Non-insulated terminals/splices * 8 to 150 Non-insulated terminals/splices splices Nominal size Specifications Weight: 3.3kg (7.3lbs) Weight: 7.4kg (16.3lbs) Demensions: 420L x 80T x 120Wmm Demensions: 518L x 190T x 160Wmm (16.5"L x 3.1"T x 4.7"W) (20.4"L x 7.5"T x 6.3"W) Max. pressure output: 58.8KN(6 ton) Max. pressure output: 186KN(19 ton) Female dies Applicable dies Female dies Unless the order specifies otherwise, the YPT-60-21 TD-229 TD-228 TD-227 TD-226 TD-225 and the YPT-150-1 come with these dies. Please TD-123 TD-125 TD-124 TD-122 TD-121 specify if only the tool is being ordered. Male dies TD-223 TD-222 TD-221 When ordering dies only, please specify the indevidual Male dies model numbers of the dies. (See "Selection Table of Proper Tooling".) TD-111 TD-112 TD-113 TD-214 TD-213 TD-212 TD-211

KLMNOCRIMPING HEADS

By connecting a crimping head via a high-pressure hose, foot-operated hydraulic tools are capable of crimping non-insulated terminals and splices with a nominal size of 8 or larger. Because they are foot-operated, they are easier to work than hand-operated hydraulic units, and the 2-stage valve system (high-pressure and lowpressure) provides a high level of efficiency.

YET-300-1

YET-300N

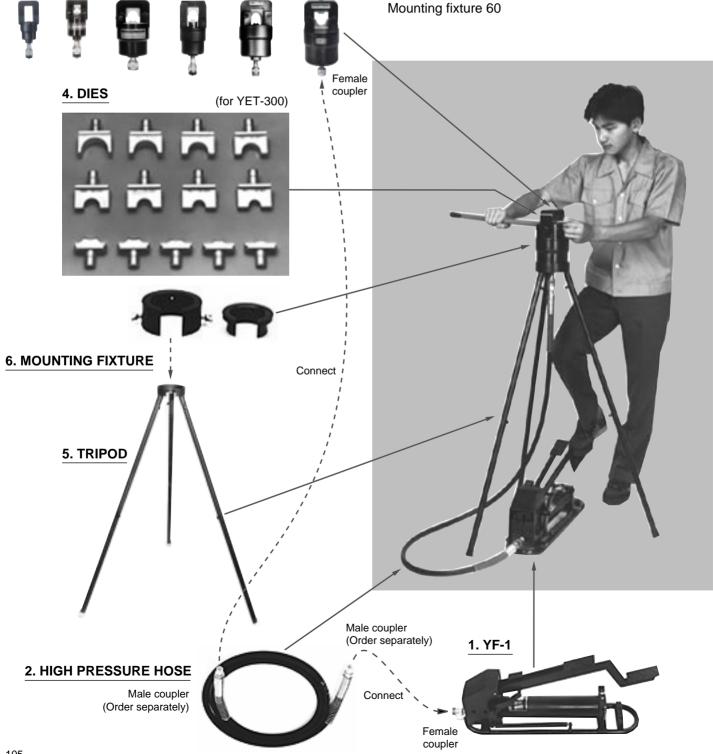
3. CRIMPING HEAD

YNE-38 YET-60-1 YET-150-1 YEG-150

[Ordering example]

When you'd like to crimp non-insulated terminals of nominal size 60 by using the YF-1, place an order for:

- 1. YF-1
- 2. High Pressure Hose (2m unless otherwise specified)
- 2'. Male Couplers (1 pair)
- 3. YET-60-1
- 4. (No need. Dies comes with YET-60-1)
- 5. Tripod Mounting fixture 150



1. YF-1

Specifications

Dimensions	620L x 176W x 350Hmm (24.4"L x 6.9"W x 13.8"H)
Weight	17kg (37.5lbs)
Max. pressure output	68.6MPa 9,950PSI (700kg/cm²)

2. HIGH PRESSURE HOSE

Specifications

- * Comes without couplers (must order separstely 2')
- * Triple steel wire-reinforced rubber hose
- * Hose diameter: I.D.6mm(.24"), O.D. 20.5mm(.81")
- * Hose fitting thread diameter: 3/8
- * Minimum breaking oressure: 196MPa {28,400 PSI (2,000kg/cm²)}
- * Minimum bending radius: R120mm(R4.7")
- * Length: 2m(6' 7") standard, max. 15m(49' 2")

3. CRIMPING HEAD

Specifications

Model	Dimension	ns mm (in.)	Weight	Maximum	Maximum		
No.	Height	Outer diameter	lbs(kg)	output KN(ton)	allowable pressure	Dies	
YNE-38	213 (8.4)	72(2.8)	2.2 (4.9)	79 (8)		Order separately	
YET-60-1	191 (7.5)	72(2.8)	2.6 (5.7)	79 (8)		1set(8 pcs) included	
YET-150-1	221 (8.7)	90(3.5)	5.3(11.7)	196(20)	68.6MPa {240PSI	1set(14 pcs) included	
YEG-150	245 (9.6)	90(3.5)	5.3(11.7)	196(20)	(700kg/cm ²)}	Order separately	
YET-300-1	284(11.2)	125(4.9)	13.0(28.7)	353(36)		1set(13 pcs)	
(YET-300N)	287(11.3)	125(4.9)	14.0(30.9)	353(36)		included	

Note:1) YET-60-1, YET-150-1, YET-300-1 and YET-300N come with a full set of their dies. For the heads YNE-38 and YEG-150, order their dies separately.

female and male dies can be switched to facilitate the work to be done. 3) The die for YET-300-1 and the die for YET-300N are not interchangeable.

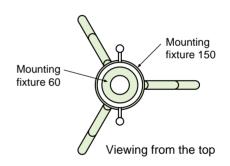
4. DIES

The dies are made of a special alloy, chrome plated, and then finished under a stringent quality control system. Both female and male dies are available to suit the type and size of terminal to be processed.

4. DIES

O-marked parts are required to mount a crimping head on the tripod.

Crimping head model No.	Tripod	Mounting fixture 150	Mounting fixture 60
YET-300-1 YET-300N	0	Х	X
YET-150-1 YEG-150	0	0	X
YET-60-1 YNE-38	0	0	0



²⁾ The YET-300N crimping head allows reversible mounting of dies i.e. the position of the female and male dies can be switched to facilitate the work to be done.

Crimping tools/machines



Semi-automatic crimping machine

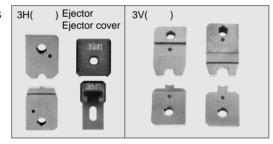
This machine is loaded with tape-on solderless terminals which are wound on a reel. Crimping is performed automatically by operation of a foot switch or touch sensor. Each crimping operation requires only one second, so more than 2,000 terminals can be crimped per hour during continuous operation. Operation of the machine requires almost no training, and the machine can be easily moved.

Dies should be ordered separately.

Specifications

Model No.	AP-F6
Dimensions	270W x 415L x 385Hmm (10.6"W x 16.3"L x 15.2"H)
Weight	50kg (110lbs)
Power supply	100/115/220/240V AC, Single phase, 50/60Hz
Air pressure	490 to 690kpa {75 to 90 PSI(5 to 7kg/cm²)}
Pressure output	14.7KN {3,311lbs(1,500kg)}
Applicable terminals	Tape-on solderless terminals (insulated and non-insulated) with a nominal size of 0.5 to 5.5.

Dies





•Touch-sensor-system cannot be applied to some of the terminals/splices.

AP-F6 Crimping Dies

	Terminals	Dies					
Toma	Model No. Profit: (Cuffict)	Nominal	Set No.	Conductor		Insulation	
Туре	Model No. Prefix (Suffix*)	Size	Set No.	Upper	Lower	Upper	Lower
		0.5	3H-2622	3102	3101	_	_
Non-insulated terminals	_	1.25	3H-2216	3112	3111	_	_
Non-insulated terminals	<u> </u>	2	3H-1614	3112	3121	_	_
		5.5	3H-1210N	3132N	3131N	_	_
		1.25	3C-2216	3112	3111	(Spa 3042	cers) 3041
Non-insulated splices	С	2	3C-1614	3122	3121	3042	3041
		5.5	3C-1210	3132	3131	_	1
	(F)V, (F)N, (F)ND, (F)VD, FVL	0.5	3V-2622N	3201N	3202N	3301N	3302N
	(F)V, (F)N, FVX, FVL, (F)VDDF, FVDDM, (F)VDGM, CVDGF,	1.25	3V-2216N	3211N	3212N	3311N	3312N
Insulated terminals	(F)LVDDF, FLVZDF, FVZDF	2	3V-1614N	3221N	3222N	3321N	3322N
Insulated quick disconnect	(F)VD, (F)ND	1.25	3V-2216D	3211D	3212D	3311D	3312D
	(F)VD, (F)ND	2	3V-1614D	3221D	3222D	3321D	3322D
	(F)V, (F)N, FVX, FVL, (F)VD, (F)ND, (F)VDDF, FVDDM, LVDDF	5.5	3V-1210N	3231N	3232N	3331N	3332N
		1	3S-2218D	3411C	3412C	(Spa 3011SD	cers) 3012SD
Closed-end splices	-SD*	2	3S-1614D	3421C	3422C	3021SD	3022SD
		5.5	3S-1210D	3431C	3432C	3031SD	3032SD

Note *: Parts for ejector (Part nos. 3841+3941) are optional.

SELECTION TABLE OF PROPER TOOLING

					Ratchet hand tools	Heavy duty ratchet	Pr	neumatic hand to	ols	Pneumatic hand tools
	Termir	nals/Splices			Linand tools	hand tools	A Standard- type YA-1	B Standard- type YA-2	Standard- type YA-4	D ^{YA-5}
Туре	Applicable Wire [Stranded]			Nominal size	N.	M	Pench-type YAT-1A YAD-1A	Bench-type YAT-2A YAD-2A	Bench-type YAT-4A YAD-4A	
	ACM#	mm²			1,	6.0	Dies	Dies	Dies	Dies
	26 to 22	0.2 to 0.5		0.5	YHT-2622	_	AD-100	AD-500	_	-
	22 to 16	0.25 to 1.65		1.25	⟨₂⟩YHT-2210	_	AD-101	AD-501	AD-900	_
	16 to 14	1.04 to 2.63		2	⟨₂⟩ YHT-2210	_	AD-101	AD-501	AD-900	_
	_	3.5		3.5	⟨₂⟩YHT-2210	_	_	_	_	_
	12 to 10	2.63 to 6.64		5.5	⟨₂⟩ YHT-2210	_	AD-101	AD-501	AD-900	_
	8	6.64 to 10.52		8	_	YHT-8S	_	_	AD-901	AD-951
	6	10.52 to16.78		14	_	YHT-14S	_	_	AD-902	AD-952
Non-	4	16.78 to 26.66		22		_	_	_	_	AD-953
insulated	2	26.66 to 42.42		38	_	_	_	_	_	AD-954
	1/0	42.42 to 60.57		60	_		_	_	_	AD-955
	2/0	60.57 to 76.28		70	_	_	_	_	_	-
	3/0	76.28 to 96.30		80	_	-	_	_	_	-
	4/0	96.30 to117.2		100	_	_	_	_	_	-
	250/300	117.2 to 152.05		150	_	ı	_	_	_	Ι
	350	152.05 to 192.6		180	_	Ī	_	_	_	Ι
	400	192.6 to 242.27		200	_	Ī	_	_	_	Ι
	600/650	242.27 to 325		325	_	_	_	_	_	_
	27.1- 22	0.24-0.5	۸.	N, V, VD	YNT-2622	_	AD-200	AD-600	_	_
	26 to 22	0.2 to 0.5	0.5	FN,FV,FVD	YNT-2622	_	AD-200F	AD-600	_	_
	001.4/	0.051.475	4.05	N, V, VD	YNT-2216		AD-201	AD-601	(AD-911)	
	22 to 16	0.25 to 1.65	1.25	FN, FV, FVD,FVL,FVX	YNT-2216	_	AD-201F	AD-601	(AD-911F)	_
		4.044.040		N, V, VD	YNT-1614	_	AD-202	AD-602	(AD-912)	_
Insulated	16 to 14	1.04 to 2.63	2	FN, FV, FVD,FVL,FVX	YNT-1614	_	AD-202F	AD-602	(AD-912F)	_
				N, V, VD	_	YNT-1210S	_	_	AD-913	_
	12 to 10	2.63 to 6.64	5.5	FN, FV, FVD,FVL,FVX	_	YNT-1210S	_	_	AD-913F	_
	8	6.64 to 10.52	8	FVD	_	_	_	_	_	_
	6	10.52 to16.78	14	FVD	_	_	_	_	_	_
	4	16.78 to 26.66	22	FVD	_	_	_	_	_	_
	2	26.66 to 42.42	38	FVD	_	_	_	_	_	_
				D	(YDT-2622)	_	(AD-400)	(AD-700)	_	_
	26 to 22	0.2 to 0.5	0.5	FD	(YDT-2622)	_	(AD-400F)	(AD-700)	_	_
Non-				D	(YDT-2216)	_	(AD401)	(AD701)	(AD-921)	_
insulated	22 to 16	0.25 to 1.65 1.2		FD	(YDT-2216)	_	(AD-401F)	(AD-701)	(AD-921F)	
with copper				D	(YDT-1614)	_	(AD-402)	(AD-702)	(AD-922)	_
sleece	16 to 14	1.04 to 2.63	2	FD	(YDT-1614)	_	(AD-402F)	(AD-702)	(AD-922F)	_
2.3000				D	— (IBI 1014)	(YDT-1210S)	(//10/4021)	(ND 702)	AD-923)	_
	12 to 10	2.63 to 6.64	5.5	FD	_	(YDT-1210S)	_	_	(AD-923F)	_
	26 to 22	0.2 to 0.6		0.5-SD	YS-2622	(IBI 12103) —	AD-300	_	(AB 7231)	_
	22 to 16	0.5 to 1.75		CE1	YS-2216	_	AD-301	AD-801	(AD-931)	_
	22 to 16	1.0 to 1.75		1-SD	YS-2216	_	AD-301	AD-801	(AD-931)	_
	16 to 14	1.0 to 3.0		CE2	YS-1614	_	AD-302	AD-802	(AD-932)	_
	16 to 14	1.5 to 3.0		2-SDW	YS-1614	_	AD-302	AD-802	(AD-932)	_
Closed-end	16 to 14	1.0 to 2.5		2-SD	YS-1614	_	AD-302	AD-802	(AD-932)	_
	12 to 10	2.5 to 6.0		CE5	YS-1210	_	AD-303	AD-803	(AD-933)	_
	12 to 10	2.0 to 5.5		5.5-SD	YS-1210	_	AD-303	AD-803	(AD-933)	_
	8	4.0 to 9.0		CE8	_	YS-8S		—	(AD-934)	_
	8	4.0 to 9.0		8-5D	_	YS-8S	_	_	(AD-934)	_
	22 to 16	0.25 to 1.65		1.25	(YG-2216)	_	(AG-10)	(AD-504G)	(AD-941)	_
	16 to 14	1.04 to 2.63		2	(YG-1614)	_	(AG-20)	(AD-501G)	(AD-942)	_
	12 to 10	2.63 to 6.64		5.5	(YG-1210)	_	(AG-5.5)	(AD-502G)	(AD-944)	_
	8	6.64 to 10.52		8	(10 1210) —	YG-8S	(1G 3.3) —	(ND 3020)	(AD-945)	(AD-951G)
	6	10.52 to 16.78		14	_	YG-14S	_	_	(AD-946)	(AD-952G)
Flag	4	16.78 to 26.66		22		-	_	_	(AD-740)	(AD-752G)
3	2	26.66 to 42.42		38			_	_		(AD-954)G
	1/0	42.42 to 60.57		60					_	(AD-954)G (AD-955G)
	2/0	60.57 to 76.28		70			_			(AD-700G)
	3/0	76.28 to 96.3		80		_	_	_	_	_
							_	_	_	
	4/0	96.3 to 117.2		100		_	_	_	_	_

Semi-automatic crimping machine	Hydraulic h	and tools		Foot operated		L						
DAP-F6	C YPT-60-21	∐ YPT-150-1		hydraulic unit YF-1				Terminals/ Splices				
				-	-	T D			·			
ALT .	H.	H. M.		Crimping heads								
		14	J YNE-38	K YET-60-1	YET-150-1	M(YEG-150)	NYET-300-1	O(YET-300N)	Nominal size			
Dies	3	M -	-	÷	6	¥	6	9	0.5			
3H-2622 3H-2216	_	_	_	_		_	_	_	0.5			
3H-1614		_	_	_	_	_	_		1.25 2			
_	_	_	_	_	_	_	_	_	3.5			
3H-1210N	Female die / Male die	Female die / Male die	_	Female die / Male die	Female die / Male die	_	_	_	5.5			
_	TD-121 TD-111	TD-221 TD-211	_	TD-121 TD-111	TD-221 TD-211	_	_	_	8			
_	TD-122 TD-111	TD-222 TD-211	_	TD-122 TD-111	TD-222 TD-211	_	_	_	14			
_	TD-123 D-112	TD-223 TD-212	_	TD-123 TD-112	TD-223 TD-212	_	_	_	22			
_	TD-124 TD-112	TD-224 TD-212	_	TD-124 TD-112	TD-224 TD-212	_	Female die / Male die		38			
_	TD-125 TD-113	TD-225 TD-213	_	TD-125 TD-113	TD-225 TD-213	_	TD-321 TD-311	TD-321N TD-311N	60			
	_	TD-226 TD-213	_	_	TD-226 TD-213	_	TD-322 TD-311	TD-322N TD-311N	70			
	_	TD-227 TD-214	_	_	TD-227 TD-214	_	TD-323 TD-312	TD-323N TD-312N	80			
	_	TD-228 TD-214 TD-229 TD-215	_	_	TD-228 TD-214 TD-229 TD-215	_	TD-324 TD-312 TD-325 TD-313	TD-324N TD-312N TD-325N TD-313N	100 150			
_	_	TD-229 TD-215		_	TD-229 TD-215		TD-325 TD-313	TD-325N TD-313N	180			
							TD-320 TD-313	TD-326N TD-315N	200			
		_	_	_		_	TD-327 TD-314	TD-328N TD-315N	325			
3V-2622N	_	_	_	_	_	_	_	—	N. V. VD			
3V-2622N	_	_	_	_	_	_	_	_	0.5 FN,FV,FVD			
3V-2216N	_	_	_	_	_	_	_	_	N. V. VD			
3V-2216N	_	_	_	_	_	_	_	_	1.25 FN, FV, FVD,FVL,FVX			
3V-1614N	_	_	_	_	_	_	_	_	N, V, VD			
3V-1614N	_	_	_	_	_	_	_	_	FN, FV, FVD,FVL,FVX			
3V-1210N	_	_	_	_	_	_	_	_	5.5 N, V, VD			
3V-1210N	_	_	Female die/Male die	_	_	_	_	_	FVD,FVL,FVX			
_	_	_	DH-121 DH-111	_	_	_	_	_	8 FVD			
	_	_	DH-122 DH-112	_		_	_	_	14 FVD 22 FVD			
_	_	_	DH-123 DH-113 DH-124 DH-114	_					22 FVD 38 FVD			
_		_	—	_		_	_		D			
_	_	_	_	_	_	_	_	_	0.5 FD			
_	_	_	_	_	_	_	_	_	4.05 D			
_	_	_	_	_	_	_	_	_	1.25 FD			
_	_	_	_	_	_	_	_	_	2 D			
_	_	_	_	_	_	_	_	_	² FD			
_	_	_	_	_	_	_	_	_	5.5 D			
_	_	_	_	_	_	_	_	_	FD			
_	_	_	_	_	_	_	_	_	0.5-SD			
_		_		_					CE1 1-SD			
_		_		_			_		CE2			
_	_	_	_	_	_	_	_	_	2-SDW			
_	_	_	_	_	_	_	_	_	2-SD			
_	_	_	_	_	1	_	_	_	CE5			
_	_	_	_	_	1	_	_	_	5.5-SD			
_	_	_	_	_		_	_	_	CE8			
	_	_	_	_	_	_	_	_	8-5D			
_	<u> </u>	_	_	_	_	_	_	_	1.25			
_	_	_	_	_	_	— — Eomalo dio / Malo dio	_	_	5.5			
_	_	_	_	_	_	Female die / Male die (FD-321 FD-311)	_	_	5.5 8			
_		_	_	_		(FD-321 FD-311)	_		14			
_	_	_	_	_		(FD-323 FD-312)	_	_	22			
_	_	_	_	_	_	(FD-324 FD-312)	_	_	38			
_	_	_	_	_	_	(FD-325 FD-313)	_	_	60			
_	_	_	_	_	-	(FD-326 FD-313)	_	_	70			
_	_	_	_	_	-	(FD-327 FD-314)	_	_	80			
_	_	_	_	_	1	(FD-328 FD-314)	_	_	100			