



AIDA

AIDA Direct Servo Former

HY-FLEX PRESS

Primary Specifications and Dimensions

NC1-D series

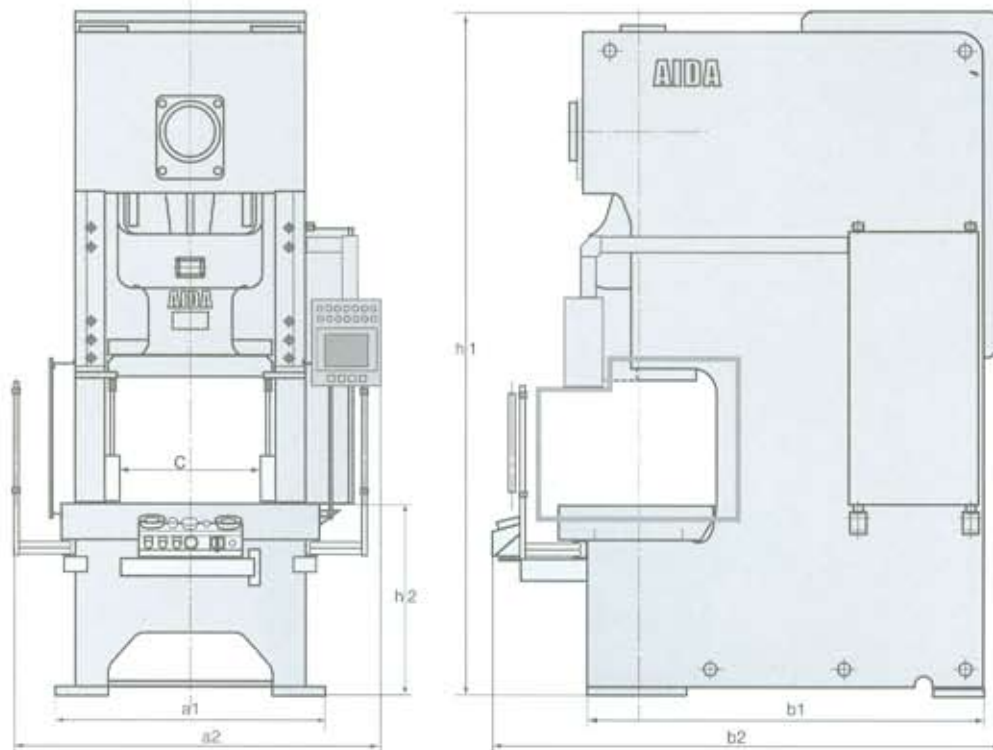
NS1-D series

NS2-D series

AIDA ENGINEERING, LTD.

NC1-D series

■ General Dimensions



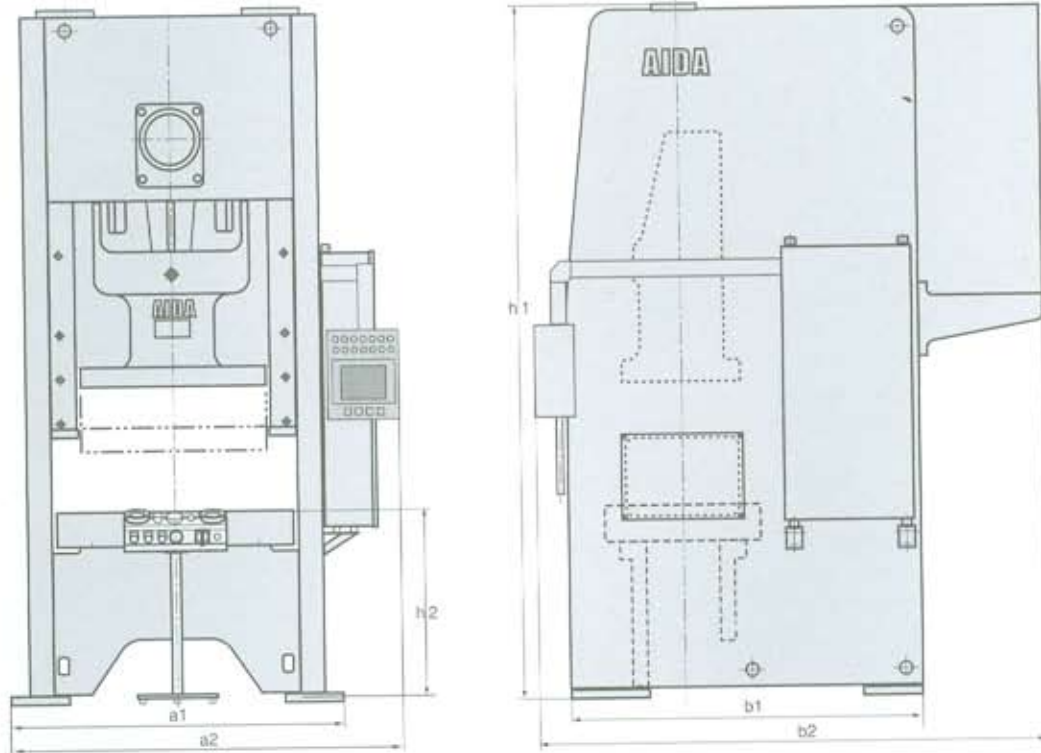
Model		Internal Frame Dimensions		Working Surface Height	Installation Dimensions		Maximum Dimensions	Total Height
		c	h2	a1 × b1	a2 × b2	h1		
NC1-D	NC1-800D	587	900	1090 × 1400	1492 × 1936	2845		
	NC1-1100D	615	900	1190 × 1660	1546 × 2216	3075		
	NC1-1500D	685	900	1290 × 1910	1782 × 2482	3240		
	NC1-2000D	865	1000	1520 × 2300	1992 × 2965	3695		
	NC1-2500D	1099	1100	1850 × 2425	2232 × 2850	4375		

		NC1-800(D)	NC1-1100(D)	NC1-1500(D)	NC1-2000(D)	NC1-2500(D)
Tonnage Capacity	(kN)	800	1100	1500	2000	2500
Rated Tonnage Point	(mm)	5.0	5.0	6.0	6.0	6.5
Working Energy	(J)	4000	4600	7900	13100	24000
Stroke Length	Upper Row Denotes Fwd/Rev. Motion (mm)	60/100/130	70/110/150	80/120/160	110/160/200	120/180/240
		160	180	200	250	300
Continuous SPM (No Load) *1	Varies by Stroke Length (spm)	118/96/82	114/93/76	100/82/68	81/67/57	72/59/48
		~80	~70	~60	~50	~40
Die Height	(mm)	320	350	400	450	540
Slide Adjustment	(mm)	80	90	100	110	120
Slide Area (LR×FB)	(mm)	540 × 460	630 × 520	700 × 580	880 × 650	1100 × 730
Bolster Area (LR×FB)	(mm)	1030 × 600	1140 × 680	1250 × 760	1470 × 840	1750 × 900
Bolster Thickness	(mm)	140	155	165	180	180
Frame Gap *2	(mm)	310	350	390	430	470
Max. Upper Die Weight	(kg)	183	218	255	1000	1300
Main Motor (AC Servo)	(kW)	25	35	40	40	45
Power Supply Capacity	(kVA)	21	21	26	35	43
Required Air Pressure	(Mpa)	0.5	0.5	0.5	0.5	0.5
Foundation Bolt Position (FB×LR)	(mm)	1010 × 1210	1110 × 1440	1210 × 1660	1440 × 2020	1730 × 2135
Bed Hole Dimension (FB×LR)	(mm)	714 × 280	736 × 320	806 × 360	986 × 460	1220 × 480

* 1. The above Continuous SPM (No Load) value is for crank motion.
 * 2. Dimensions in parentheses () show the height above the bolster.
 * This may differ depending on specifications and options.

NS1-D series

■ General Dimensions



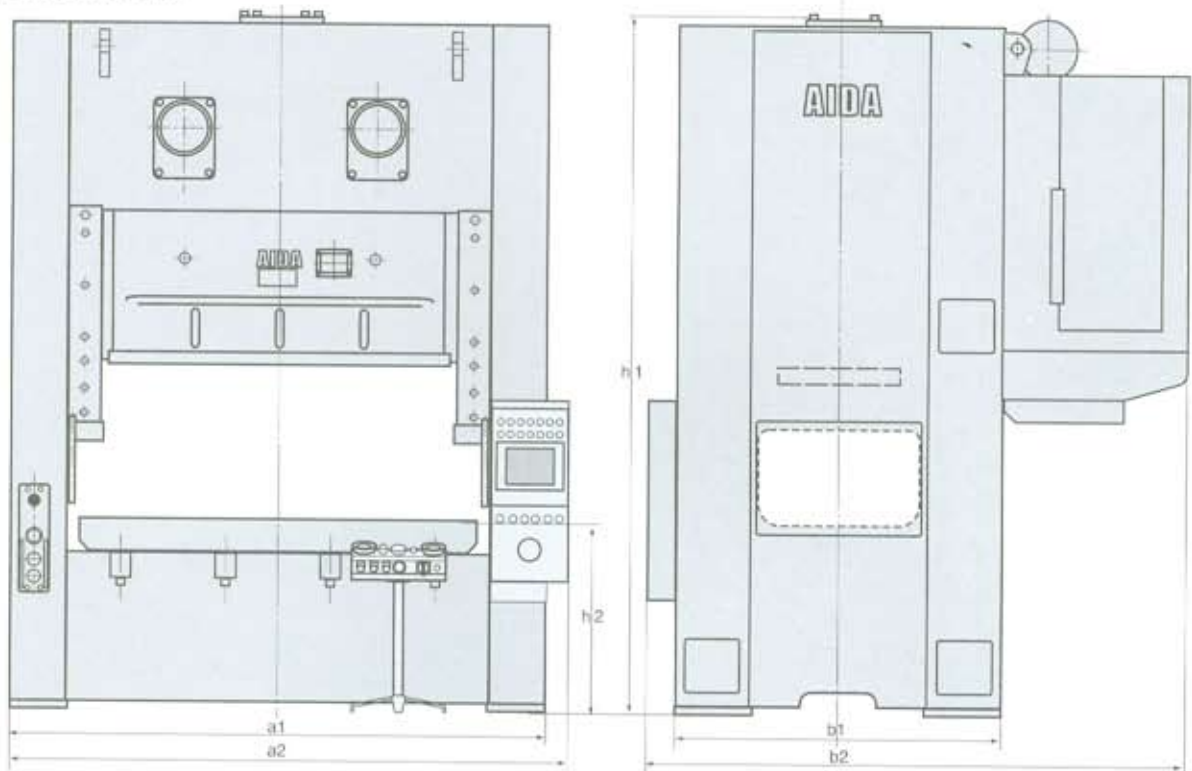
Model		Working Surface Height	Installation Dimensions	Maximum Dimensions	Total Height
		h2	a1 × b1	a2 × b2	h1
NS1-D	NS1-800D	900	1300 × 1380	1655 × 2120	2965
	NS1-1100D	900	1424 × 1520	1795 × 2270	3075
	NS1-1500D	900	1605 × 1690	1985 × 2490	3285
	NS1-2000D	1000	1735 × 1860	2115 × 2710	3795
	NS1-3000D	1100	2400 × 2400	2782 × 3160	5040

		NS1-800(D)	NS1-1100(D)	NS1-1500(D)	NS1-2000(D)	NS1-3000D
Tonnage Capacity	(kN)	800	1100	1500	2000	3000
Rated Tonnage Point	(mm)	5.0	5.0	6.0	6.0	6.0
Working Energy	(J)	4000	4600	7900	13100	30000
Stroke Length	Upper Row Denotes Fwd/Rev. Motion (mm)	60/100/130	70/110/150	80/120/160	110/160/200	180/240/300
		160	180	200	250	400
Continuous SPM (No Load) ±1	Varies by Stroke Length (spm)	118/96/82	114/93/76	100/82/68	81/67/57	52/45/38
		~80	~70	~60	~50	~30
Die Height	(mm)	320	350	400	450	550
Slide Adjustment	(mm)	80	90	100	110	120
Slide Area (LR×FB)	(mm)	700 × 460	800 × 520	900 × 580	1000 × 650	1300 × 900
Bolster Area (LR×FB)	(mm)	900 × 600	1000 × 680	1150 × 760	1250 × 840	1700 × 1200
Bolster Thickness	(mm)	140	155	165	180	200
Side opening ±2	(mm)	440 × 300(250)	500 × 320(270)	560 × 380(330)	620 × 420(370)	1000 × 570(520)
Max. Upper Die Weight	(kg)	300	350	500	1000	1300
Main Motor (AC Servo)	(kW)	25	35	40	40	50
Power Supply Capacity	(kVA)	21	21	26	35	69
Required Air Pressure	(Mpa)	0.5	0.5	0.5	0.5	0.5
Foundation Bolt Position (FB×LR)	(mm)	1220 × 1200	1340 × 1310	1525 × 1450	1655 × 1590	2310 × 2090
Bed Hole Dimension (FB×LR)	(mm)	1036 × 280	1160 × 320	1330 × 360	1450 × 460	1370 × 560

- * 1. The above Continuous SPM (No Load) value is for crank motion.
- * 2. Dimensions in parentheses () show the height above the bolster.
- * This may differ depending on specifications and options.

NS2-D series

■ General Dimensions



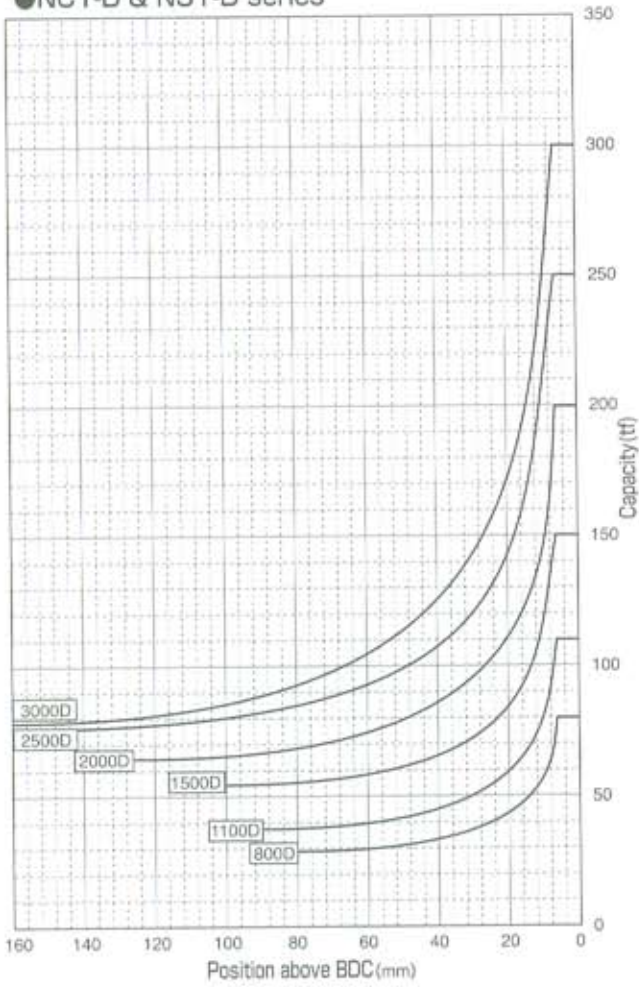
Model	Working Surface Height	Installation Dimensions	Maximum Dimensions	Total Height	
	h2	a1 × b1	a2 × b2	h1	
NS2-D	NS2-1100D	900	2370 × 1500	2515 × 2605.3	3080
	NS2-1600D	900	2530 × 1650	2695 × 2805.3	3300
	NS2-2000D	1000	2900 × 1750	2960 × 2905.3	3710
	NS2-2500D	1100	3200 × 1850	3255 × 3245.3	4135
	NS2-3000D	1150	3200 × 2100	3555 × 3355.3	4460

	NS2-1100(D)	NS2-1600(D)	NS2-2000(D)	NS2-2500(D)	NS2-3000(D)
Tonnage Capacity (kN)	1100	1600	2000	2500	3000
Rated Tonnage Point (mm)	5.0	6.0	7.0	7.0	6.0
Working Energy (J)	6000	9600	16500	28000	39000
Stroke Length (mm)	Upper Row Denotes Fwd/Rev. Motion				
	70/110/150	80/120/160	110/160/200	120/170/230	120/180/240
Continuous SPM (No Load) *1 (spm)	Varies by Stroke Length				
	102/84/70	94/78/66	79/66/57	68/57/46	64/52/43
Die Height (mm)	400	450	500	550	650
Slide Adjustment (mm)	90	100	110	120	130
Slide Area (LR × FB) (mm)	1360 × 520	1500 × 580	1850 × 650	2100 × 700	2400 × 900
Bolster Area (LR × FB) (mm)	1660 × 680	1800 × 760	2150 × 840	2400 × 920	2600 × 1200
Bolster Thickness (mm)	155	165	170	180	200
Side opening *2 (mm)	700 × 345(335)	780 × 385(375)	860 × 425(415)	940 × 465(455)	1220 × 590(580)
Max. Upper Die Weight (kg)	550	800	1200	1650	2300
Main Motor (AC Servo) (kW)	35	40	40	50	50
Power Supply Capacity (kVA)	26	35	43	61	69
Required Air Pressure (Mpa)	0.5	0.5	0.5	0.5	0.5
Foundation Bolt Position (FB × LR) (mm)	2090 × 1200	2270 × 1300	2620 × 1400	2920 × 1500	3260 × 1650
Bed Hole Dimension (FB × LR) (mm)	1480 × 350	1600 × 380	1900 × 460	2200 × 480	2390 × 520

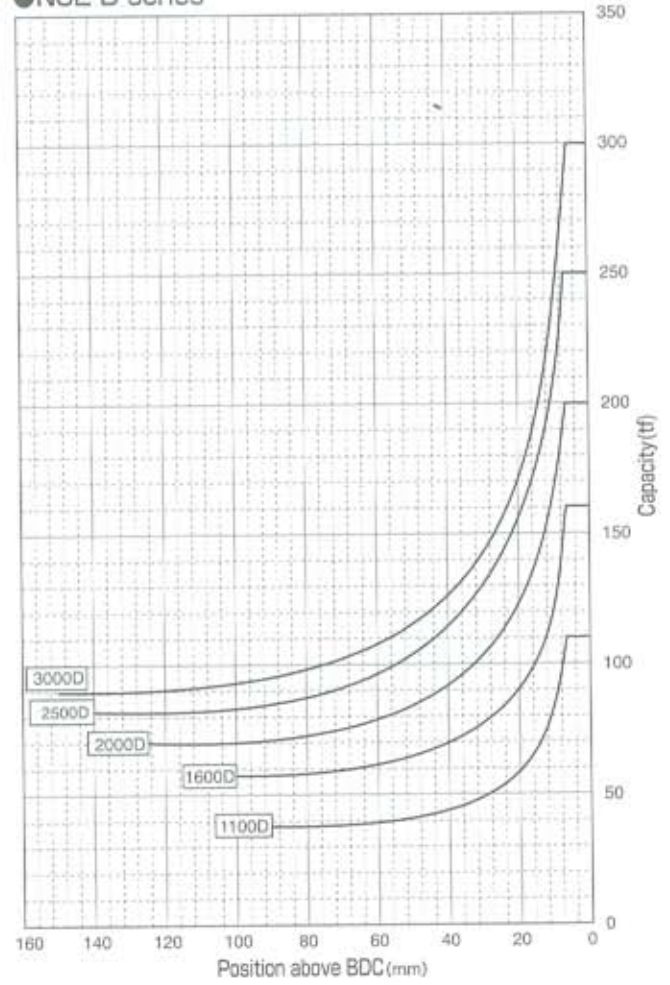
- * 1. The above Continuous SPM (No Load) value is for crank motion.
 * 2. Dimensions in parentheses () show the height above the bolster.
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■ Tonnage Curve

● NC1-D & NS1-D series

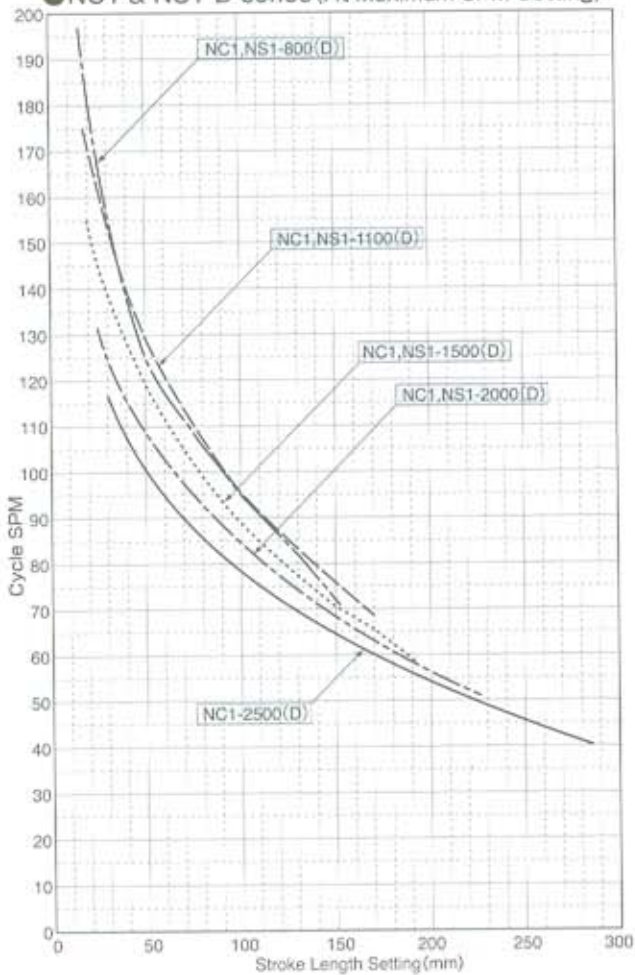


● NS2-D series

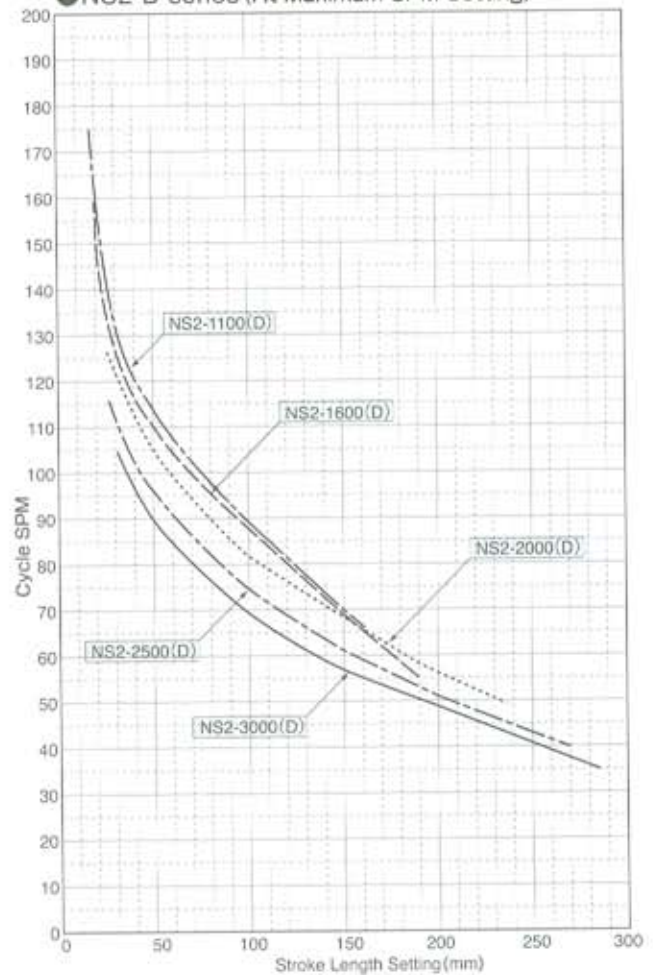


■ Fwd./Rev. Motion 1.Cycle SPM

● NC1 & NS1-D series (At Maximum SPM Setting)



● NS2-D series (At Maximum SPM Setting)



■ Standard / Optional Equipment

◎ : Standard Equipment ○ : Optional Equipment - : Equipment not available

	Equipment Details	NC1-D	NS1-D	NS2-D
Standard Equipment	Hydraulic Overload Protector	◎	◎	◎
	Electronic Crank Angle Indicator	◎	◎	◎
	Die Height Indicator (Units: 0.01 mm)	◎	◎	◎
	Motorized Slide Adjustment	◎	◎	◎
	Variable Preset Stop Point Equipment	◎	◎	◎
	Forced Recirculation Lubrication System	◎	◎	◎
	Control Panel	◎	◎	◎
	Main Operation Panel	◎	◎	◎
	Operation Button Box: 2-Hand Operation Type	◎	◎	◎
	· Stand type	○ #1	◎	◎
	· Swivel type	◎	-	-
	· With manual Step Feed handle	◎	◎	◎
	Servo Driver	◎	◎	◎
	MPC (Multiprocessing Press Controller)	◎	◎	◎
	SVC (Servo Controller)	◎	◎	◎
	PLC (Programmable Logic Controller)	◎	◎	◎
	HMI (Human-Machine Interface)	◎	◎	◎
	Timing Switch: 4 Spare Cams	◎	◎	◎
	Production Counters: Three 6-Digit Resettable Type	◎	◎	◎
	Maintenance Counter: Non-Reset Type	◎	◎	◎
	Data Bank: 99 Die Recipe Capacity	◎	◎	◎
	Light Curtains (On Front of Press)	◎	◎	◎
	Emergency Stop Button	◎	◎	◎
	Pressure Switches (Pneumatic & Hydraulic)	◎	◎	◎
	Die Protection: 2 Circuits, No Receptacles	◎	◎	◎
	Air Ejector: 3/8B, 1 Set	◎	◎	◎
Air Outlet: 3/8B, 1 Set	◎	◎	◎	
Rear Cover	◎	◎	-	
Instruction Manual (English Version: 1; CD-ROM: 1)	◎	◎	◎	
Optional Equipment	Die Cushion	◎	◎	◎
	Die Lifter	◎	◎	◎
	Die Clampers	◎	◎	◎
	100 V Tool Receptacles	◎	◎	◎
	200 V Tool Receptacles	◎	◎	◎
	Anti-Vibration Device	◎	◎	◎
	Anchor Bolts	◎	◎	◎
	Die Area Lighting: Spotlight Type	◎	◎	◎
	Safety Guarding	◎	◎	◎
	Die Block with Plug	◎	◎	◎
	Increased Upper Die Weight Capacity	◎	◎	◎
	Tonnage Monitor (ALAZ)	◎	◎	◎
	Heating Device	◎	◎	◎
	Smoke Collector	◎	◎	◎
	Preset Stop Position Selector	◎	◎	◎
	HOLP Lower Pressure Setting Device	◎	◎	◎
	Automation Devices	◎	◎	◎
	Slide Knockout	◎	-	◎
BDC Compensation Device	◎	◎	◎	

※1. Stand-type operation button box: This is standard equipment on a NC1-2500(D)press.

* There are many other types of optional equipment available, so please consult with AIDA.



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