

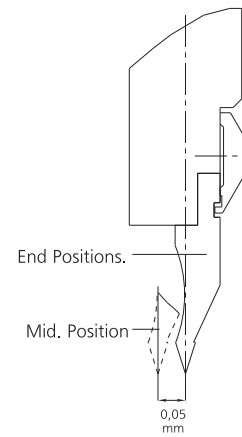
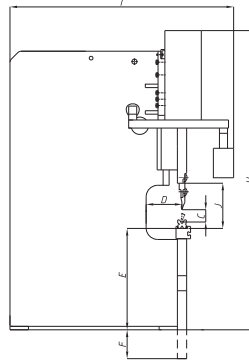
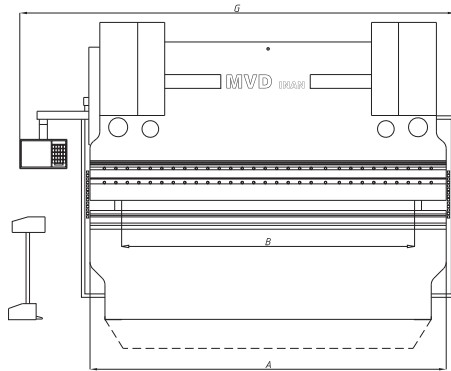


■ General Characteristics

- Steel machine frame and top beam dimensioned for optimum strength and minimised deflection.
- The whole body is designed and built as a welded one piece frame and machined at one time on a moving column CNC machining centre guaranteeing maximum precision for parallelism of cylinders, slideways and perpendicularity to table and torsion bar axis.
- Hydraulic cylinders are machined from a solid steel billet and honed precisely.
- Pistons are steel forgings, hardened, chrome plated, precision ground and micropolished for years of trouble-free service
- Compact hydraulic block with pressure relief valves for safety.
- The torsion bar and stopper system inside cylinders enable parallel move of the top beam and accurate bend angle at both ends of the work piece.
- Pre-fill valves enable top beam to approach the work piece rapidly, and return rapidly after bending. Bending is performed at slow speed under control according to CE norms .

- Hardened ram slideways working with low friction and wear resistant material and optimum lubrication grooves.
- Pressure switch limits bending force during bending and activate automatic return of top beam to top dead centre.
- Top quality seals and O-rings for long duration problem free operation.

- High quality hydraulic fittings
- High pressure and silent Rexroth / Eckerle / Atos hydraulic pumps.



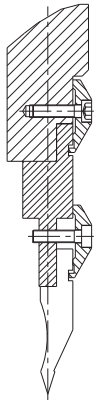
MVD INAN Press brakes have top quality bending feature due to the parallelism between top and bottom tool in vertical and also in horizontal direction throughout the length.

TECHNICAL SPECIFICATIONS

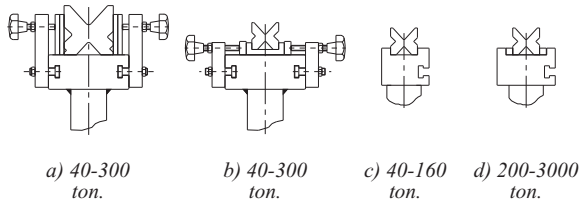
HAP	BENDING POWER ton	BENDING LENGTH A mm	DISTANCE BETWEEN COLUMNS B mm	STROKE C mm	DAYLIGHT J (1) mm	THROAT DEPTH D mm	TABLE HEIGHT E (2) mm	TABLE HEIGHT BELOW GROUND F mm	OVERALL LENGTH G (3) mm	OVERALL HEIGHT H (4) mm	OVERALL DEPTH I (5) mm	APPROACH SPEED mm/sec	WORKING SPEED mm/sec	RETURN SPEED mm/sec	MOTOR POWER kw	WEIGHT ton
HAP 12/040 (S)	40	1250	850	130	335	300	870	0	2750	2450	1950	80	9	80	4	3
HAP 12/040 (D)	40	1250	1050	130	335	300	870	0	2750	2200	1950	80	9	80	4	3,8
HAP 20/040	40	2100	1600	130	335	300	880	0	3600	2200	2100	80	9	80	4	4,2
HAP 25/060	60	2600	2150	140	345	300	880	0	3600	2200	2150	80	9	80	5,5	4,7
HAP 25/090	90	2600	2150	140	345	300	880	0	4350	2300	2200	80	9	80	5,5	5,5
HAP 30/090	90	3100	2550	140	345	300	900	0	4750	2300	2200	80	9	80	5,5	6,5
HAP 30/120	120	3100	2550	155	360	300	920	0	4750	2450	2500	80	9	80	11	7,5
HAP 30/160	160	3100	2550	180	385	300	920	0	4750	2550	2675	80	9	80	15	8,5
HAP 30/200	200	3100	2550	200	405	300	920	0	4800	2650	2700	100	10	100	18,5	10
HAP 30/225	225	3100	2550	200	405	300	930	0	4800	2680	2700	100	10	100	18,5	11
HAP 30/260	260	3100	2550	250	455	400	930	0	4850	2750	2800	80	8	80	18,5	13
HAP 30/300	300	3100	2550	250	455	400	940	0	4850	2770	2850	80	8	80	18,5	13,5
HAP 35/120	120	3600	3100	150	355	300	930	0	5350	2500	2500	80	9	80	11	9
HAP 35/160	160	3600	3100	180	385	300	940	0	5350	2750	2675	80	8	80	15	10
HAP 35/225	225	3600	3100	200	405	300	940	0	5350	2850	2700	100	10	100	18,5	12,5
HAP 35/260	260	3600	3100	250	455	400	950	0	5400	2870	2800	80	8	80	18,5	14
HAP 35/300	300	3600	3100	250	455	400	970	0	5400	2900	2850	80	8	80	18,5	14,5
HAP 40/120	120	4100	3100	150	355	300	930	0	5600	2470	2500	80	9	80	11	10
HAP 40/160	160	4100	3100	180	385	300	940	0	5600	2750	2675	80	9	80	15	11,5
HAP 40/200	200	4100	3100	200	405	300	940	0	5600	2820	2700	100	10	100	18,5	12,5
HAP 40/225	225	4100	3100	200	405	300	940	0	5600	2850	2700	100	10	100	18,5	13,5
HAP 40/260	260	4100	3100	250	455	400	950	0	5650	2870	2800	80	8	80	18,5	15
HAP 40/300	300	4100	3100	250	455	400	970	0	5650	2900	2850	80	8	80	18,5	15,5
HAP 40/400	400	4100	3100	300	505	500	900	500	5850	3100	3050	70	8	80	30	24
HAP 60/200	200	6100	4100	200	405	500	1040	750	7950	3050	2750	100	10	100	18,5	23
HAP 60/260	260	6100	4100	250	455	500	900	900	8000	3350	2950	80	8	80	18,5	28
HAP 60/300	300	6100	4100	250	455	500	900	950	8000	3400	3000	80	8	80	18,5	30
HAP 60/400	400	6100	4100	300	605	500	900	1150	8050	3650	3050	80	8	70	30	40
HAP 60/500	500	6100	5100	300	605	500	900	1450	8100	3950	3150	80	7,5	70	30	45
HAP 60/600	600	6100	5100	350	655	500	900	1500	8150	4300	3300	80	6	60	45	52
HAP 60/800	800	6100	5100	400	705	500	900	1550	8200	4500	3500	70	6	60	45	66
HAP 60/1000	1000	6100	5100	500	805	500	900	1700	8250	4750	3800	70	6	60	45	81

1-2 Value can change acc. to table type. 3- Value can change acc. to safety equipment. 4- Value can change acc. to prefill valve or placement of hydraulic unit on cylinders. 5- Value can change acc. to control panel.
 • Special capacity, heavy-duty press brakes can be manufactured upon request. • Technical specifications are subject to change without notice.

Standard Equipment



Promecam Tool Clamping system



a) 40-300 ton.

b) 40-300 ton.

c) 40-160 ton.

d) 200-3000 ton.

Bottom tool clamping alternatives.

- Motorised cylinder stopper control system
- NC system with Elgo, Nuova, Burel 2 axis position control units
- Amada Promecam type top tool holding systems with micro height adjustment facility assuring accurate bend angle at full length and throughout the machine life.
- Motorised rigid backgauge (X axis) system with ball screw and special design guiding system with minimised lubrication
- Longitudinal (Z axis) and vertical (R axis) adjustment of backgauge system
- Backgauge positioning fingers move along linear slideways and has depth adjustment facility of ± 0.05 mm. tolerance for exact parallelism
- Back gauge fingers with two gauging steps used one for short and the other for long bending depths. Fingers have fold up feature
- Two laterally adjustable front support arms with slot for height adjustment and slot for front stop.
- Swinging control panel with necessary buttons and controllers
- Ram stroke switches for mute point and top dead centre.
- Bottom tool clamping alternatives. a, b, c, d
- Functional foot pedal
- PLC based compact and reliable electrical system
- World known electrical and safety components like Telemecanique, Merlin Gerin Legrand, Siemens
- Selection of metric or inch measuring system
- Side safety guards according to safety regulations
- Hardened Rolleri P97-85 model top tool in 835 mm lengths.
- Multi V bottom tool (not hardened) or hardened Rolleri M460R Model bottom tool in 835 mm lengths.
- Operator's manual



Torsion Bar



Standard Backgauge Finger (NC Models)



Elgo numerical control (2 axis)



Nuova numerical control (2 axis)



Front Support

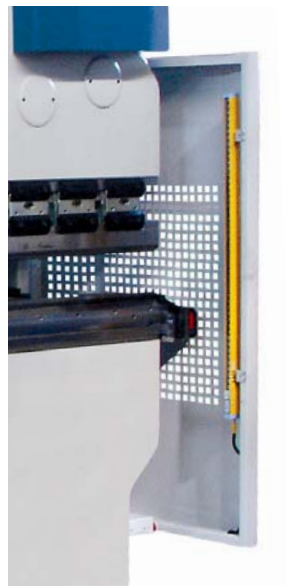


Optional Equipment

- Driver controlled fast and accurate X axis positioning
- Full conformity with EC machinery directive for safety and certified CE marking
- Front light barrier or laser systems assuring optimum safety conditions for operators and third parties at tools area
- Manual or motorised bottom table anti deflection compensation system for optimum bend angle precision throughout the full bending length
- Rear safety guards or rear light guards according to safety regulations
- Additional backgauge fingers
- Top quality hardened and ground top and bottom tools of various sections as in page 13.
- Special daylight openings upon customer requests
- Larger throat depths like 400-1000 mm. for different capacity machines
- Larger cylinder (beam) strokes
- Cooling system for hydraulic oil
- Ventilation or air conditioning system for electrical cabinet.
- Optimum solutions for complex work piece bending with special tools upon customer requests
- Larger backgauge X axis strokes upto 1000 mm.
- Central manual or motorised lubrication system
- Special design sheet cover



Back Safety Guards



Light guard & Wila crowning unit



Larger Throat Gap 750mm.



Special Backgauge Fingers



CONFIGURE YOUR MACHINE