

Mod. 3025

3025 CN



Mod. 3001 PH



Mod. 3001

Technical characteristics Series 3000

- Monolithic frame of electrowelded steel
- Independent adjustment of bending rolls for double prebending
- Shafts and pignons rotate on self aligning bearings lubricated with long life grease
- Adjustable clutch on top shaft protects against accidental overloading and compensates for differing top and lower roll velocities when bending tall profiles
- Bending rolls of high chrome content steel with anti wear heat treatment
- Lateral correction rolls with three dimensional adjustment
- Hydraulic unit incorporated in the machine frame, protected by overload relief valve
- Mechanical rotation through Mod. 3012, hydraulic rotation on larger models
- Possibility to operate with shafts vertical and horizontal
- Detached controls in low voltage with emergency arrests

Mod. 3055

3055 HV8V



Universal Asymmetric Type Bending Machine Series 3000

Three driving rolls smooth finished for optimum driving of the profile without surface damage permits bending of most all profiles: hot rolled flat and square bars, angles, Tee's, C's etc. or cold rolled, laminated and extruded shapes in alloys, stainless steel, brass etc. in mill finish, anodized or prepainted.

Mod. HV bending roll positions displayed on high brightness digital readouts mounted on mobile command pulpit.

Mod. CN particularly useful in obtaining radii accurately placed between bent and straight areas, forming discontinuous radius shapes such as ovals, volutes, ellipses, parabolas etc. Practical easy programming with operation in manual or automatic modes. The Numerical Control is equipped with a permanent memory to allow repetition of programs. On request: additional printed circuits to increase the available number of permanent memories, Cassette or Floppy Disk Drive equipment to store additional programs, additional variables to control lateral guide rolls (models H4V, HV8V only).

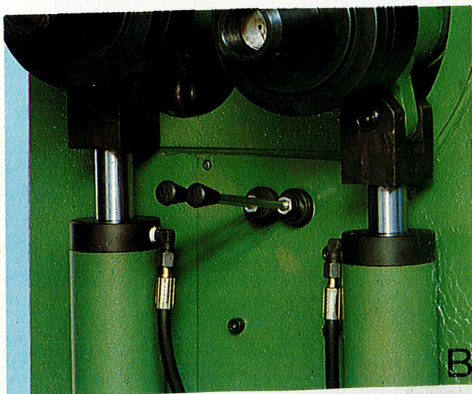
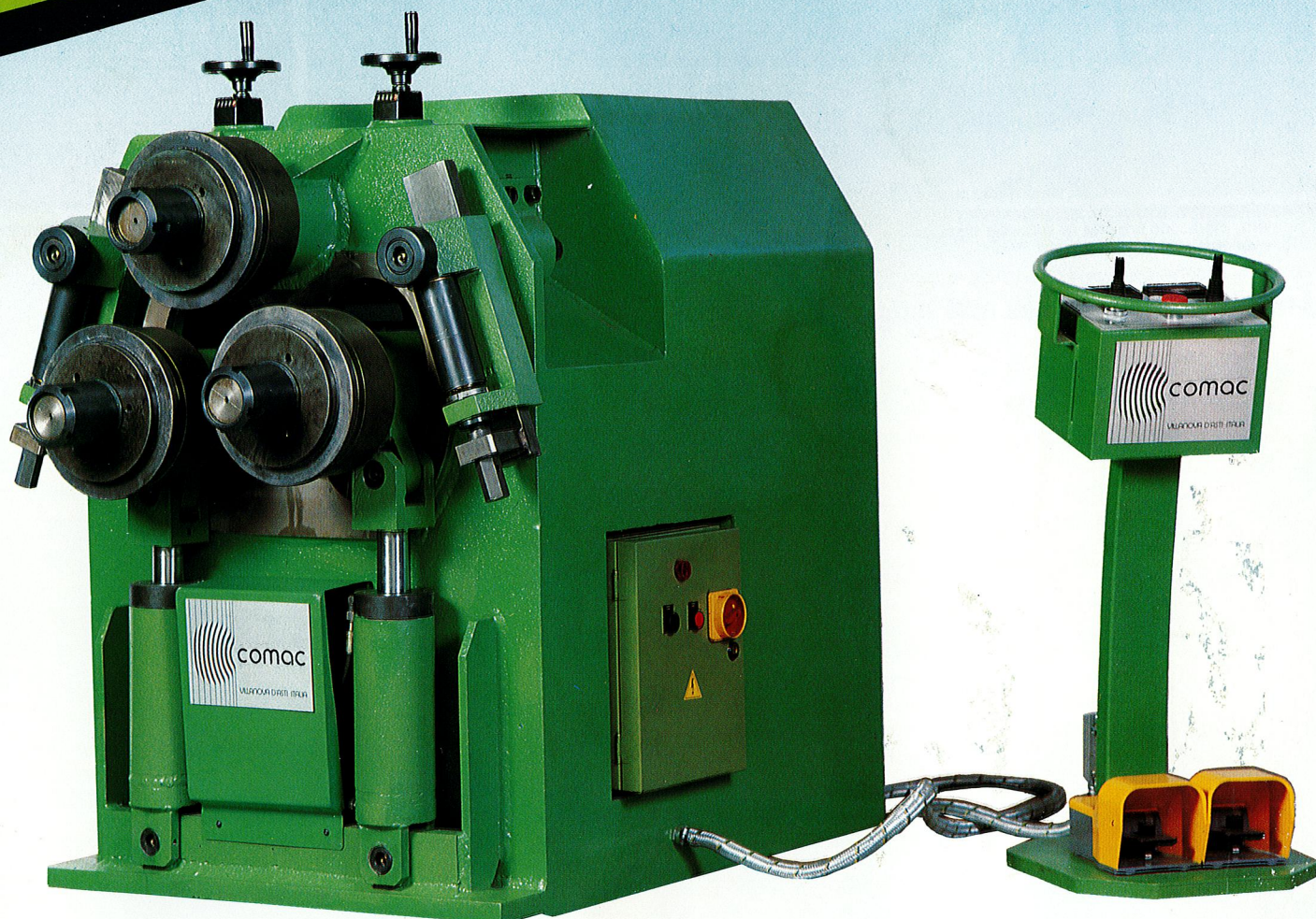


Photo A - Machine operating in vertical axis position.
Photo B - Model PH hydraulic controls.

Mod. 3012

3012 HV



Mod. 3005 PH



Mod. 3005

Our model designations

The Series 3000 offers a choice of several operating systems:

- M** : manual rotation and positioning.
- PM** : manual roll positioning with graduated scales.
- PH** : hydraulic roll positioning with end stops and counters.
- HV** : hydraulic roll positioning with digital displays.
- HV2** : hydraulic roll positioning with digital displays - lateral guides hydraulic in axial thrust with graduated scales.
- HV4** : hydraulic roll positioning with digital displays - lateral guides hydraulic in three axis with graduated scales.
- HV8V** : hydraulic roll positioning with digital displays - lateral guides hydraulic in three axis with digital displays.
- CN2R** : four variable numerical control with electronic proportioning valve

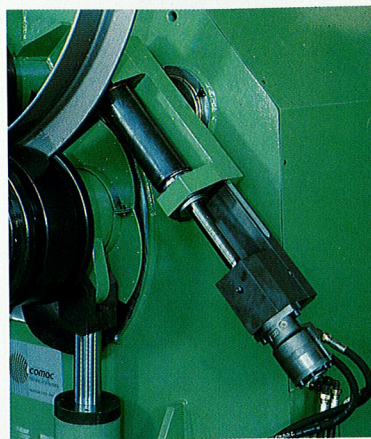
COMAC SERIES 3000 - SPECIFICATIONS

On request

1. Rolls for round tube and special profiles
2. Rolls for square and rectangular profiles
3. Models M/PM: upgrade lateral guides for L iron leg in
4. Models HV: programmable roll positioners
5. Tooling and rolls for I - H - U sections

Legend

- ★ Work performed with standard equipment.
- One set of rolls required each tube diameter.
- △ Special rolls required for profiles with thin walls or excessive corner radii.
- Special rolls and tooling required.



Note: Min. diam. on some tube, beams and angles limited by predicted distortion failure of material.
Min. diam. for profiles of reduced dimensions: not less than 1.2 x roll diameter.

Full hydraulic guides
Mod. 3055 HV8V & HV4

Full hydraulic guides
Mod. 3100 HV8V & HV4

Maximum section sizes and minimum inside bending diameters (Table based upon steel 45 Kg/mm² tensile strength)

MODEL	3001 M PM PH	3003 PH HV CN2R	3005 PM PH HV CN2R	3012 PH HV CN2R	3025 PH HV HV2 CN2R	3055 HV2 HV4 HV8V CN2R	3100 HV4 HV8V CN2R	3300 HV8V CN2R
★ 1		40x6 Ø 400	50x10 Ø 500	60x10 Ø 500	80x15 Ø 800	100x20 Ø 1000	125x25 Ø 1300	180x30 Ø 1800
★ 2		50x12 Ø 400	60x15 Ø 500	80x20 Ø 600	120x30 Ø 700	200x30 Ø 800	200x50 Ø 1000	300x100 Ø 2000
★ 3		18x18 Ø 300	25x25 Ø 400	30x30 Ø 500	45x45 Ø 600	60x60 Ø 800	80x80 Ø 1000	100x100 Ø 1300
★ 4		Ø 18 Ø 250	Ø 25 Ø 300	Ø 35 Ø 400	Ø 45 Ø 500	Ø 65 Ø 700	Ø 80 Ø 900	Ø 100 Ø 1200
● 5		Ø 40x1,5 Ø 500	Ø 50x1,5 Ø 600	Ø 60x2 Ø 600	Ø 100x2 Ø 1200	Ø 125x2,5 Ø 1400	Ø 150x3 Ø 2200	Ø 250x3 Ø 5000
● 6		Ø 26,9x2,3 Ø 200	Ø 42,4x2,9 Ø 300	Ø 48x3,6 Ø 400	Ø 76,1x3,6 Ø 600	Ø 114,3x3,6 Ø 1000	Ø 139,7x5 Ø 1300	Ø 168,3x8 Ø 1500
★△ 7		30x15x2,5 Ø 400	40x20x3 Ø 400	60x25x3 Ø 600	80x25x3 Ø 800	100x40x4 Ø 1200	150x50x5 Ø 2500	200x80x6 Ø 4000
★△ 8		22x2,5 Ø 300	35x3 Ø 500	50x3 Ø 700	60x4 Ø 800	90x5 Ø 1200	120x6 Ø 2000	150x8 Ø 3000
★ 9		35x5 Ø 400	50x5 Ø 500	60x6 Ø 600	80x8 Ø 800	100x10 Ø 1000	120x12 Ø 1500	150x15 Ø 2000
★ 10		35x5 Ø 450	50x5 Ø 600	60x6 Ø 700	80x8 Ø 900	100x10 Ø 1200	120x12 Ø 1800	150x15 Ø 2600
★ 11		35x35 Ø 300	50x50 Ø 450	60x60 Ø 500	80x80 Ø 800	100x100 Ø 1000	120x120 Ø 1400	150x150 Ø 2000
★ 12		35x35 Ø 350	50x50 Ø 500	60x60 Ø 600	80x80 Ø 1000	100x100 Ø 1200	120x120 Ø 1800	150x150 Ø 2500
★ 13		35x35 Ø 300	50x50 Ø 450	60x60 Ø 500	80x80 Ø 800	100x100 Ø 1000	120x120 Ø 1400	150x150 Ø 2000
★ 14		40x20 Ø 300	50x35 Ø 400	80x45 Ø 500	120x55 Ø 600	180x70 Ø 700	240x90 Ø 1000	300x100 Ø 1200
★ 15		40x20 Ø 400	50x35 Ø 500	80x45 Ø 600	120x55 Ø 700	180x70 Ø 900	240x90 Ø 1200	300x100 Ø 1400
★ 16				80x46 Ø 500	120x64 Ø 650	180x70 Ø 800	240x106 Ø 1500	300x125 Ø 1600
★ 17						96x100 Ø 1200	A 140x133 B 120x120 Ø 2000	A 200x190 B 160x160 Ø 2500
■ 18						100x50 Ø 2000	140x60 Ø 2500	180x70 Ø 4000
■ 19						120x58 Ø 2000	160x74 Ø 3000	200x90 Ø 4000
■ 20							A 120x114 B 100x100 Ø 2500	A 160x152 B 140x140 Ø 4000
21	SECTION MODULUS cm ³	1,5	3,5	6	14	33	75	160
INSTALLED POWER KW	PM - PH 1	2	3	4	7,5	15	30	55
ROLLING SPEED RPM	PM - PH 15	12	10	8	5	2,5-5-7,5	2-4-6	1-2-3
ROLL DIAMETERS	127	147	177	247	315	400	520	700
SHAFT DIAMETERS	35	40	50	70	100	120	150	220
APPROXIMATE WEIGHT KG	300	450	700	1500	3000	6000	10500	21000

The right is reserved to change design, construction & specifications without notice. All data are indicative.