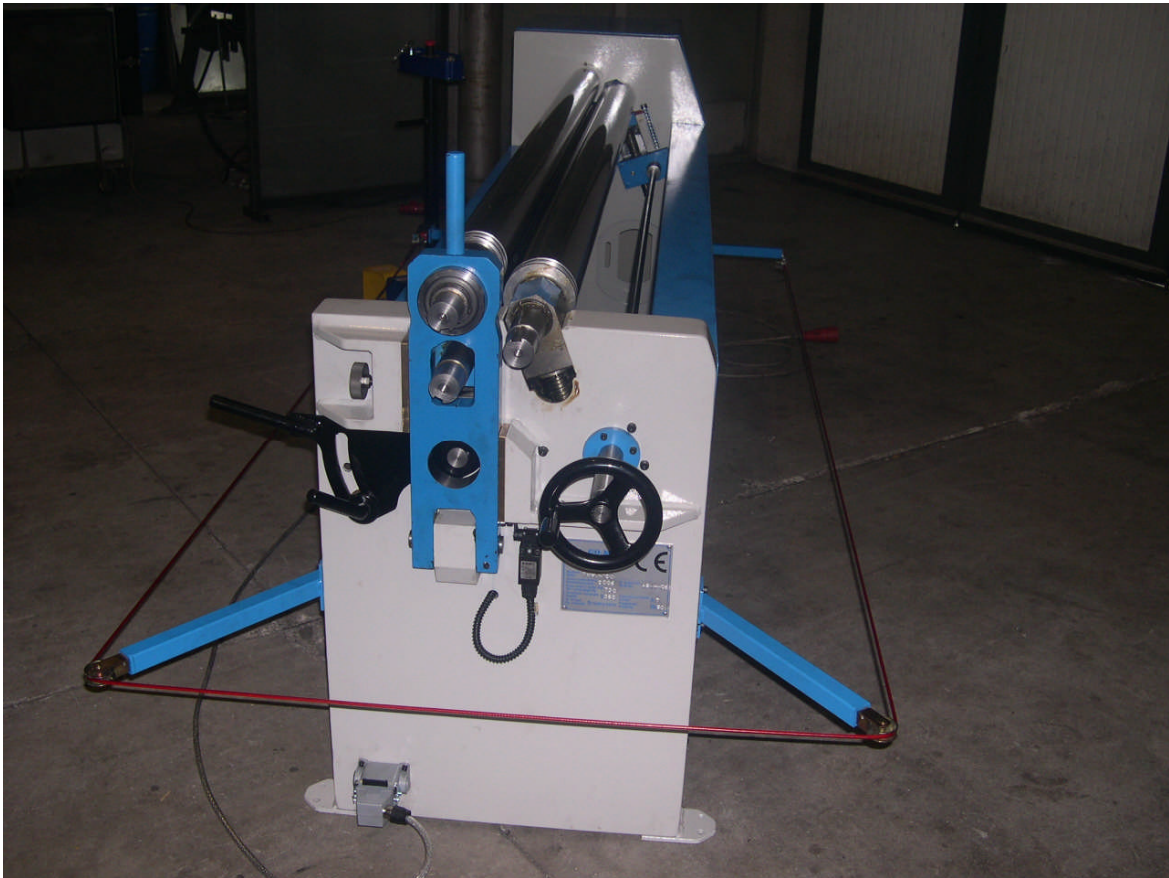




Comal Italia

**Italian Technology at its best
Designers and builders of quality metal fabrication
equipment**



**Delta Mechanical with manual adjustment of
pinching and bending rolls**

Delta Mechanical

***Initial Pinch Three Roll
Mechanical Plate Bending
Machines***

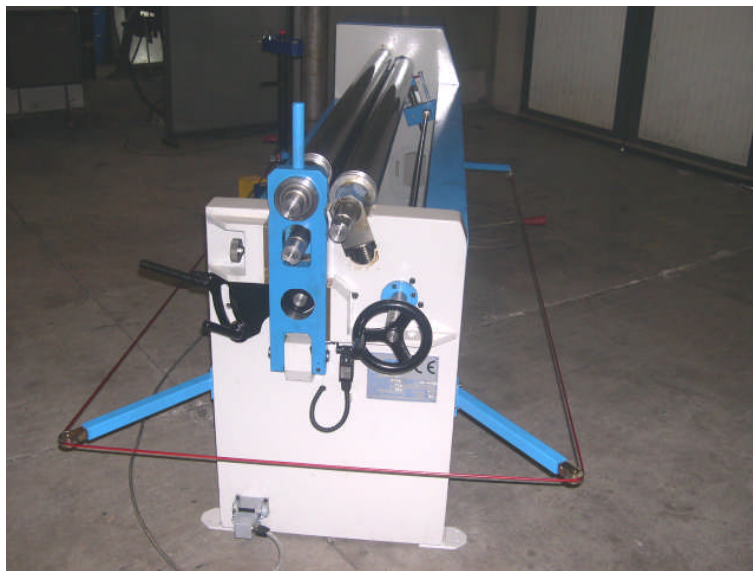


Comal Italia

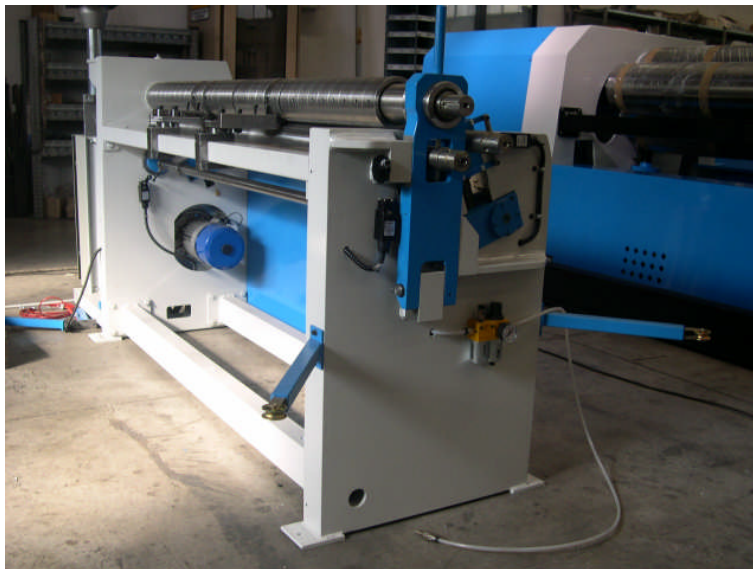
Delta Mechanical

If you are looking for a quality Initial Pinch plate roll for your shop, with moderate investment, which will give you long service, the Delta line is your answer. If your shop is not in constant production of rolled parts but has an occasional need, then you will not mind pre-bending the blank and pulling it out of the rolls and re-aligning it to pre-bend the other lip, then use our Delta rolls.

The Delta mechanical models are limited to the most popular material thickness used in the type of shop described above. The Hydraulic models, slightly more expensive, are becoming more and more popular, so COMAL offers many more models in that version.



Delta-Mechanical with manual adjustment of pinching and bending rolls



Delta-Mechanical with special application used in the HVAC industry

Machine Standard Features:

- Frame built of laser cut high strength steel, welded, stress relieved and sand blasted.
- Hardened rolls to HRC 54-56
- All UL listed GE electrical components or equivalent installed in a UL listed NEMA 12 equivalent electrical cabinet with master breaker
- Top roll powered by gear-motor
- Three extended rolls to accept section forming tooling
- Manual lifting of pinching and bending rolls
- Manual drop-end
- Tilting of bending roll directly from controls console
- Separate Controls console rolling on wheels
- Safety devices and operating manual according to CE norms

Optional Features and Equipment

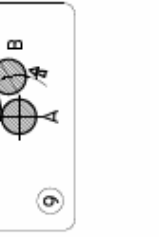
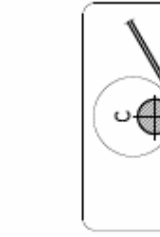
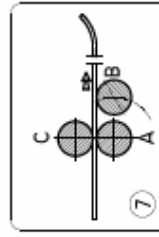
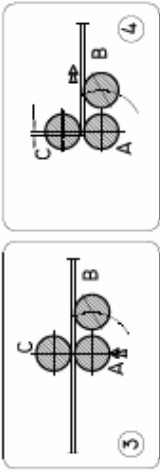
- Double foot pedal
- Quadruple foot pedal
- Powered lifting of the bending roll
- Bending rolls assembled on bearings
- Universal section bending tools
- Cone bending device
- Digital readout for bending roll, basic model
- Digital readout for the bending roll, with 1 position preset
- Digital readout for the bending roll, with 20 position preset

Note: A roll, which is supported from both ends, will experience deflection from its centerline throughout its length when any force is applied to it anywhere between the supports. Since it is imperative for the rolls to make full contact with the work-piece during forming to avoid deformation of the cylinder rolled, a method was devised to compensate for the deflection by cambering the rolls. The camber, within a certain range of thickness, will compensate for the undesirable deflection. Beyond that, "cheating of the rolls is required by shimming the plate with cardboard or thin stock to avoid rolling concave or convex cylinders, in our industry's terms "Hour glass" and "Barrel" effects.

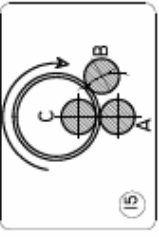
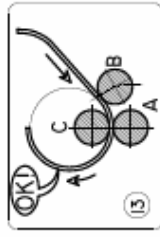
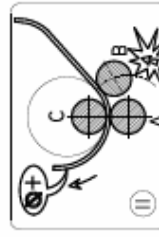
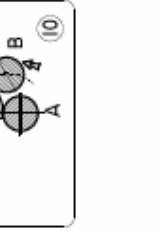
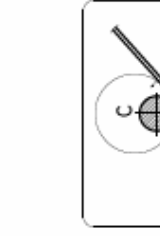
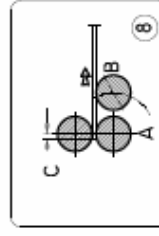
ROLLING ON INITIAL PINCH MACHINES



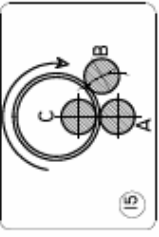
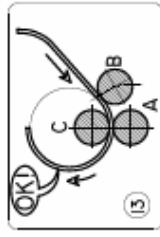
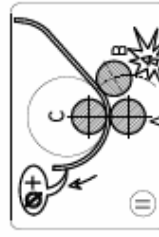
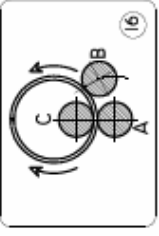
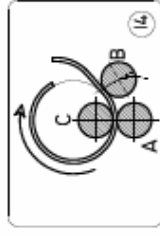
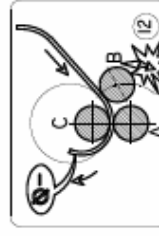
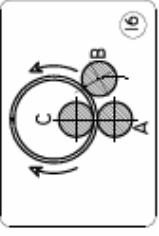
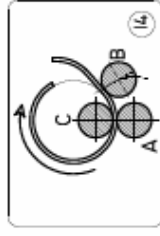
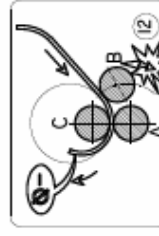
CURVATURA DEL PRIMO LEMBO DELLA LAMIERA (INVITO)
PREBENDING OF THE PLATE, FIRST SIDE
ANBIEGUNG DES BLECHES, ERSTER SEITE
CROUQUAGE DE LA TOLE, PREMIERE COTE



ROVESCIMENTO DELLA LAMIERA E CURVATURA DEL LEMBO FINALE
OVERTURNING OF THE PLATE AND SECOND SIDE PREBENDING
UMKEHREN DES BLECHES UND ANBIEGUNG DER ZWEITEN SEITE
REVERSEMENT DE LA TOLE ET CROUQUAGE DE LA DEUXIEMME COTE



CHIUSURA DELLA VIROLA E CALIBRATURA DELLA CURVATURA
PIPE CLOSING AND BENDING CALIBRATION
ROHRENSCHLIESSUNG UND EICHUNG DER BIEGUNG
FERMETURE DU CYLINDRE ET ETALONNAGE DU CINTRAGE



Specifications

Delta Mechanical

**RATED AT 50,000 PSI or 350 N/mm² MATERIAL YIELD STRENGTH
AND ROLLING AT FULL USEFUL LENGTH**

MODEL	USEFUL ROLL LENGTH	AT 1.4XTR Ø THICKNESS CAPACITY	ROLLS Øs	MACHINE DIMENSIONS & WEIGHT			Bending roll translating motor	Feed in motor
				LENGTH	WIDTH	HEIGHT		
DM/90/11	1100mm	3mm	90mm	1900mm	550mm	1100mm	0,76Kw	1Kw
	43" (3ft+)	11ga	3.543"	75"	22"	43"	1HP	1.5HP
DM/90/16	1600mm	2mm	90mm	2400mm	550mm	1100mm	0,76Kw	1Kw
	63" (5ft+)	14ga	3.543"	95"	22"	43"	1HP	1.5HP
DM/90/21	2100mm	1,5mm	90mm	2900mm	550mm	1100mm	0,76Kw	1Kw
	83" (6ft+)	16ga	3.543"	114"	22"	43"	1HP	1.5HP
DM/105/11	1100mm	4mm	105mm	1950mm	550mm	1100mm	0,76Kw	1,5Kw
	43" (3ft+)	0.157"	4.134"	77"	22"	43"	1HP	2HP
DM/105/16	1600mm	2,5mm	105mm	2450mm	550mm	1100mm	0,76Kw	1,5Kw
	63" (5ft+)	12ga	4.134"	97"	22"	43"	1HP	2HP
DM/105/21	2100mm	2mm	105mm	2950mm	550mm	1100mm	0,76Kw	1,5Kw
	83" (6ft+)	14ga	4.134"	116"	22"	43"	1HP	2HP

Specifications

Delta Mechanical

**RATED AT 36,000 PSI or 250 N/mm² MATERIAL YIELD STRENGTH
AND ROLLING AT FULL USEFUL LENGTH**

MODEL	USEFUL ROLL LENGTH	AT 1.4XTR Ø THICKNESS CAPACITY	ROLLS Øs	MACHINE DIMENSIONS & WEIGHT			Bending roll translating motor	Feed in motor
				LENGTH	WIDTH	HEIGHT		
DM/90/11	1100mm	3,5mm	90mm	1900mm	550mm	1100mm	0,76Kw	1Kw
	43" (3ft+)	10ga	3.543"	75"	22"	43"	1HP	1.5HP
DM/90/16	1600mm	2,5mm	90mm	2400mm	550mm	1100mm	0,76Kw	1Kw
	63" (5ft+)	12ga	3.543"	95"	22"	43"	1HP	1.5HP
DM/90/21	2100mm	1,8mm	90mm	2900mm	550mm	1100mm	0,76Kw	1Kw
	83" (6ft+)	14ga	3.543"	114"	22"	43"	1HP	1.5HP
DM/105/11	1100mm	4,7mm	105mm	1950mm	550mm	1100mm	0,76Kw	1,5Kw
	43" (3ft+)	0.185"	4.134"	77"	22"	43"	1HP	2HP
DM/105/16	1600mm	3mm	105mm	2450mm	550mm	1100mm	0,76Kw	1,5Kw
	63" (5ft+)	11ga	4.134"	97"	22"	43"	1HP	2HP
DM/105/21	2100mm	2,4mm	105mm	2950mm	550mm	1100mm	0,76Kw	1,5Kw
	83" (6ft+)	12ga	4.134"	116"	22"	43"	1HP	2HP

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