



MANUFACTURING CO. (PTY) LTD



||| PRODUCT CATALOGUE

||| GUILLOTINES



SIMCRAFT

Overview

Our SIMCRAFT Hydraulic guillotines have been designed to last the test of time and deliver perfect shearing each time. The rigid heavy steel construction withstands any tendency to twist the frame while 8 cutting edges shear through plate thicknesses up to 16mm.

Features

- SIMCRAFT HYDRAULIC SHEARS have been designed around the Swing Beam principle.
- The main frame is an extremely rigid heavy steel plate construction.
- The system is hydraulically balanced therefore no twisting of the framework under load.
- The double acting hydraulic cylinders provide the cutting and return strokes of the blade beam.
- The design of the tank ensures that the machine can be operated continuously without the oil ever overheating.
- The hold down beam exerts a force which is directly proportional to the cutting force.
- Both top and bottom blades have four cutting edges and are interchangeable.
- A manual back gauge or a motorized back gauge with digital readout on the control panel can be provided.

Specifications

Model	Cutting Length	Capacity M/S	Capacity S/S	Backstop Travel	Strokes	Hold down Cylinder	Squaring Arm	Support Arm	Table Height	Throat Depth	Main Motor	Length	Width	Height	Weight
	mm	mm	mm	mm	p/min	Qty	Qty	Qty	mm	mm	kW	mm	mm	mm	kg
3100x4	3050	4	3	650	20	19	1	2	700	200	7,5	3300	1450	1600	4500
3100x6	3050	6	4	650	16	12	1	2	700	200	7,5	3350	1450	1600	5500
3100x13	3050	13	8	1000	9	14	1	2	800	200	15	3400	1900	2000	13200
3100x16	3050	16	12	1000	8	14	1	2	800	200	22	3400	1900	2000	14800

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PRECISION PRESSBRAKES



EXACTILITY

Overview

The Exactility is a major advance beyond traditional press brake design. This design provides all the advantages of both hydraulic and mechanical systems. It is a hydraulic press brake with mechanical load distribution in an upstroke design powered by a single hydraulic cylinder mounted horizontally in the frame base. Outstanding value is provided through efficiency, accuracy, safety & productivity.

Features

- More work capacity on less floor space with the slim H-frame design, easy to move with a single pick up point.
- Full plate bending, designed for full use of the bed length with 100mm of free space between frames.
- The design provides for adjustment of the tie rod to achieve variable beam angles, used for bending cones.
- Adjustable wedge in the top beam ensures an even bend over the full length, compensating for load deflection.
- A unique feature of the Exactility is that full tonnage can be applied at any point on the beam without it tilting.
- Benefit of upstroke design is in the event of oil loss the beam will fall safely away from the operator's hand.
- Upstroke limit adjustments are affected by micrometer, fast angle setting and accurate repeatability.
- A separate power pack to reduce downtime and maintenance to an absolute minimum.
- CNC backstop is optional.

Specifications

Model	Bending Length	Bending pressure	Bending Thickness	Between Frames	Stroke	Daylight	Fast Approach	Bending Speed	Table Height	Oil Capacity	Main Motor	Length	Width	Height	Weight
	mm	Ton	mm	mm	mm	mm	mm/s	mm/s	mm	lit	kW	mm	mm	mm	kg
40x2500	2500	36	2	2600	125	345	35	10	890	200	5,5	2900	700	2400	2400
80x2500	2500	65	3	2560	125	300	35	10	995	200	11	2900	890	2600	4300
80x3000	3000	65	4	3100	125	300	35	10	995	200	11	3500	890	2700	4900
125x3000	3000	100	6	3100	125	300	35	10	1215	200	11	3500	800	2900	5200
180x3000	3000	150	8	3100	150	450	35	10	800	250	15	3700	1000	3500	10000
220x3000	3000	200	12	3100	150	450	35	10	800	250	15	3800	1000	3700	10600

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||| GUILLOTINES IMPORTED



QC12Y - GUILLOTINE

Overview

The QC12Y Guillotine is a German Standard Hydraulic Guillotine Shearing Machine, built using the highest quality and robust materials for CNC precision cutting.

Features

- Frame welded, vibrating treatment to remove the inter stress, rigid, sturdy and durable.
- Hydraulic drive, swingbeam, return of knife beam is smooth & prompt by accumulator, steady & reliable performance.
- The position of the low blade can be adjusted to ensure the equilibrium of the gap after regrinding.
- The value of the blade's gap is indicated by a dial, with reliable positioning.
- The backgauge is set by motor. Dials displaying the backgauge value & the shearing times are on the front of the machine.
- The stroke of knife or beam can be adjusted steplessly, conveniently and fast.
- Preselection of single or continuous strokes.
- Preselection of cutting number and cutting strokes.

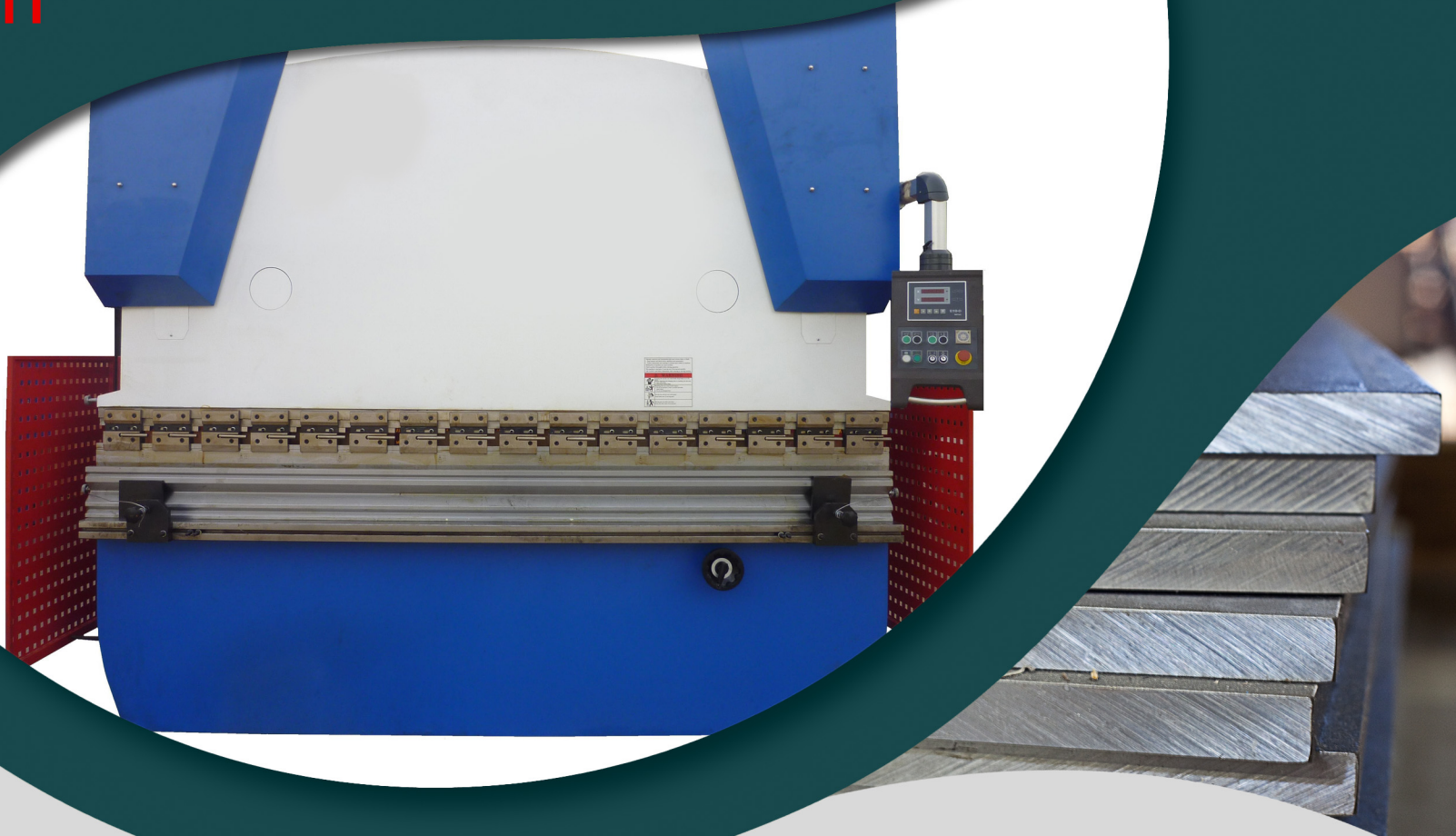
Specifications

Model	Cutting Length	Capacity M/S	Capacity S/S	Backstop Travel	Strokes	Shear Angle	Squaring Arm	Main Motor	Length	Width	Height	Weight
	mm	mm	mm	mm	p/min	Ang	Qty	kW	mm	mm	mm	kg
3200 x 4	3200	4	3	500	10	1°30'	3	5.5	3900	1700	1700	5000
3200 x 6	3200	6	4	500	12	1°30'	3	7.5	3880	1700	1700	6000
3200 x 10	3200	10	6	500	10	1°30'	3	11	3860	2000	1700	8500
3200 x 12	3200	12	8	600	10	1°30'	3	18.5	3900	2000	2000	11500
3200 x 16	3200	16	10	600	8	2°30'	3	18.5	3900	2150	2150	13000
3200 x 20	3200	20	12	800	8	3°30'	3	22	4150	2350	2700	18000

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||| PRESSBRAKES IMPORTED



WC67Y - PRESSBRAKES

Overview

The conventional Hydraulic Press Brake model WC67Y consists of a steel fabricated structure which is duly stress relieved by way of Annealing to ensure the operational accuracies of the machine for longer periods of time. The construction of these heavy duty machines is such that they should never need replacing; lasting a lifetime and adding value to your operations.

Features

- Steel-welded construction, vibration to eliminate stress, with high strength and good rigidity;
- Hydraulic top-drive, steadiness and reliability.
- Mechanical stop, steel torsion bar to maintain synchronization, high precision;
- Motorized-adjusting device of back-gauge and ram's stroke, fine adjusting by hand wheel, numerical display;
- Travel limit protection.
- Remote pedal control device.
- Full machine guarding with safety interlocker.
- Duplex linked press brake is available as per client's demand.
- Electric components are from SIEMENS.

Specifications

Model	Bending Length	Bending pressure	Bending Thickness	Between Frames	Throat Depth	Maximum Opening	Main Motor	Length	Width	Height	Weight
	mm	Ton	mm	mm	mm	mm	kW				
80x3200	3200	80	4	2560	320	350	7.5	3500	1500	2300	5000
125x3200	3200	125	6	2580	320	390	11	3400	1600	2350	7300
200x3200	3200	200	8	2600	320	460	11	3400	1950	2550	1200
250x3000	3200	250	10	2500	400	590	18.5	3400	2000	3100	15000
300x3200	3200	300	12	2700	500	420	22	3700	2000	2900	20000
400x3000	3200	400	14	2500	400	590	30	4500	2150	3400	23000
500x 3200	3200	500	16	2500	400	490	45	3500	2100	3500	2800

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PLATE ROLLERS



SIMCRAFT

Overview

Our SIM Pyramid Type Plate Bending machines are equipped with mechanical top roll and two lower roll drives, alignment grooves in both lower rolls and are supplied complete with all electrics.

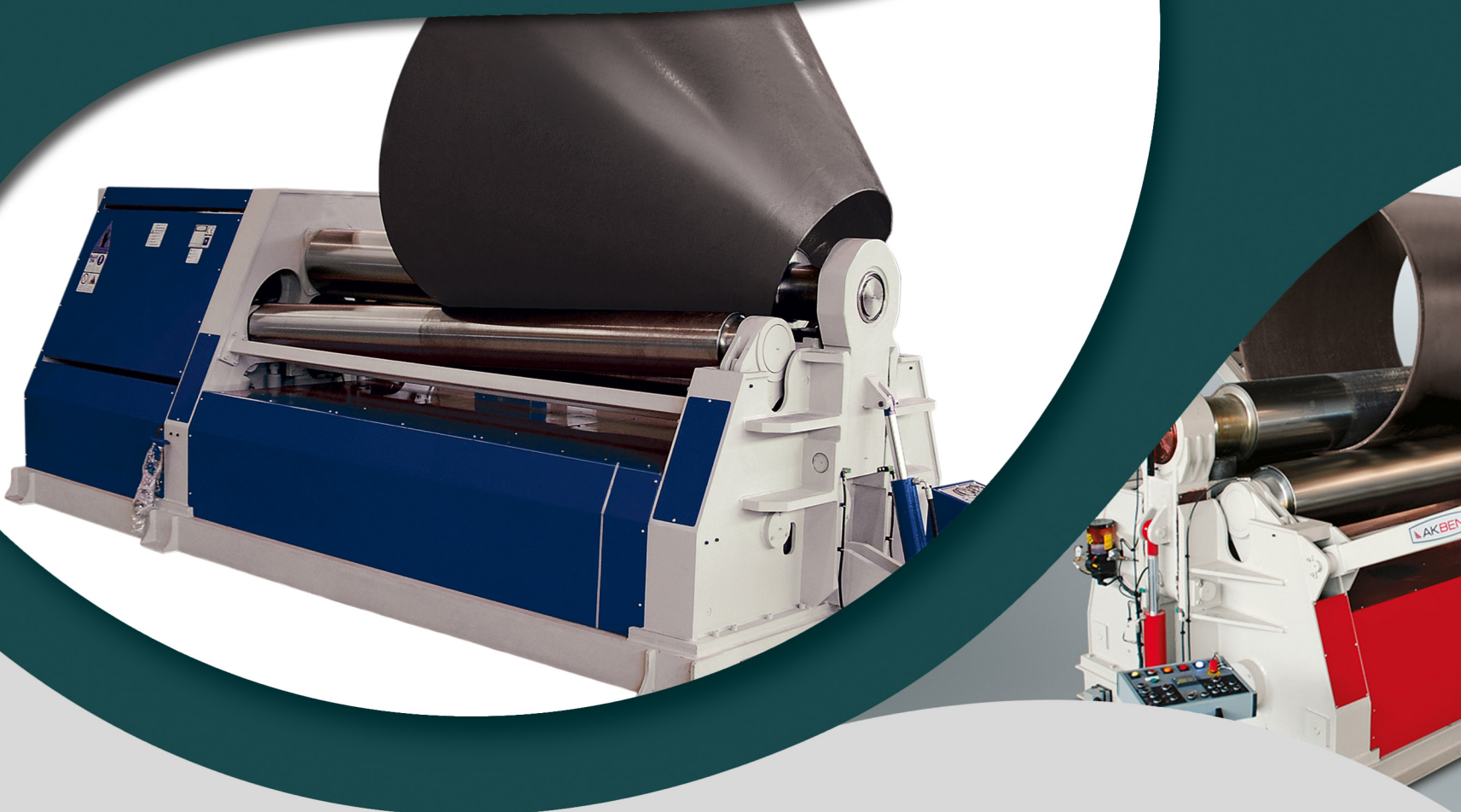
Specifications

Model	Capacity (mm)	Top Roll Diameter (mm)	Bottom Roll Diameter (mm)	Working Speed (M/min)	Motor Output (kW)
MR 2000-3	2000 x 3	135	135	5	3
MR 1250-6	1250 x 6	130	120	5	3
MR 1500-6	1500 x 6	150	135	5	3
MR 2000-6	2000 x 6	180	160	5	4
MR 2500-6	2500 x 6	195	170	5	4
MR 2500-8	2500 x 8	210	200	5	5.5
MR 1500-10	1500 x 10	190	160	5	4
MR 2000-10	2000 x 10	210	180	5	5.5
MR 2500-10	2500 x 10	220	190	5	5.5
MR 1500-13	1500 x 13	210	180	5	5.5
MR 2000-13	2000 x 13	220	190	5	5.5
MR 2500-13	2500 x 13	250	210	5	7.5

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PLATE ROLLERS



Overview

Our Plate Bending machines are equipped with advanced technological features which greatly ease the work of their users. Rolls are working hydraulically driven. Top and side rolls move up and down hydraulically. Top roll is able to generate opening and closing of shaft cover and uplifting automatically of top shaft from a control panel in an easy way. The control panel system is submitted with CNC and NC options.

Features

- Induction hardened rolls
- Digital display
- Cone bending device
- Two speed control
- All rollers mounted in bearing.
- Separate control panel
- Drop-end controlled from control panel in order to release easily bended metal sheet
- Movement and parallelism adjustment of the rollers controlled from the control panel. (Ergonomic designed control panel which allows to control all the functions of the machine is independent from the machine.)
- Central rolls are driven with hydraulic motor and reducer.
- Electrical and hydraulic protection against overloads.

Specifications

Model	Max Plate Width (mm)	Min Thickness (mm)	Max Thickness (mm)
AHS 2100 - 4 Roller Hydraulic	2100	6	20
AHS 2600 - 4 Roller Hydraulic	2600	6	20
AHS 3100 - 4 Roller Hydraulic	3100	6	20

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IRONWORKERS



Microcrop - 360Kn One Cylinder Punching Machine with 3 work stations:

- Punching
- Shear for flat bars
- Angle cutting



Minicrop - 450Kn One Cylinder Punching Machine with 4 work stations:

- Punching
- Shear for flat bars & L profiles
- Angle cutting
- Notching



Minicrop - 550Kn One Cylinder Punching Machine with 4 work stations:

- Punching
- Shear for flat bars & L profiles
- Angle cutting
- Notching



Hydracrop - 1100Kn One Cylinder Punching Machine with 3 work stations:

- Punching
- Shear for flat bars & L profiles
- Angle cutting

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||| PUNCHES & DIES



Overview

SIM manufactures steel punches, dies, shear blades and tool holders for customers across the Steel Fabricating Industry. Quality and service have long been our top priorities. Industries such as Steel Construction, Structural Fabrication and Metal Building have endured decades of change with us. We have never lost sight of our goal: to be the leading supplier of Punches, Dies and related tooling across all major industries.



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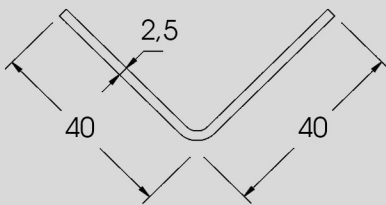
ROLLFORMING



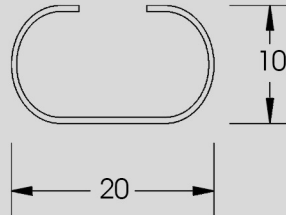
Overview

Our roll-formed solutions are used to satisfy a wide variety of applications with clients working in a host of different industries. From transportation and construction projects to renewable energy, aerospace, and everything in between, SIM is part of it all. Our roll formed products are used every day and help shape the world around us. SIM Manufacturing also has the design and manufacturing capabilities of developing any profile required. Please feel free to enquire.

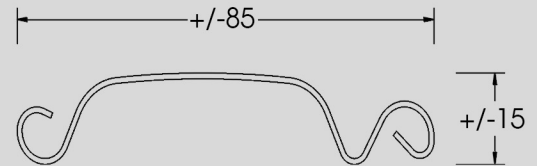
Rollformed Sections



Type: Mill Palisade Angle Roll
 Equipment : Full Auto 5 Stage Palisade Rollformer
 Profile : 40 x 40 x 2.5 mm mild steel, capacity 450 MPa UTS



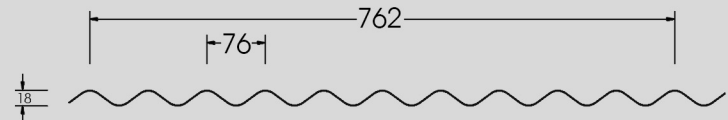
Type: Curtain Rail
 Equipment : 8 Stage Roll former, Model - 101
 Profile : 42mm wide x 0.5mm thick mild steel 430 UTS.



Type: Door Slat Mill
 Equipment : 8 Stage Roll former, Model - 121
 Profile : 127mm wide x 1mm thick mild steel 430 UTS.



Type: IBR Sheet
 Profile : Standard IBR Section.
 Coil : 925mm wide, mild steel capacity 450 MPa UTS
 Thickness : 0.4 - 0.6mm.
 Coverage : ± 686mm.



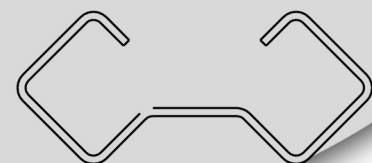
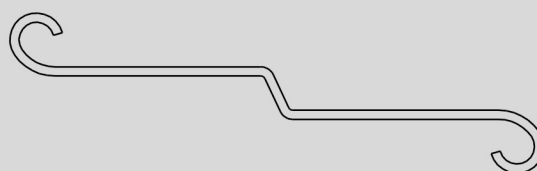
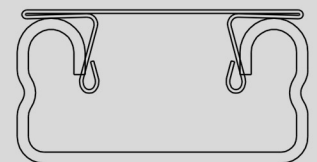
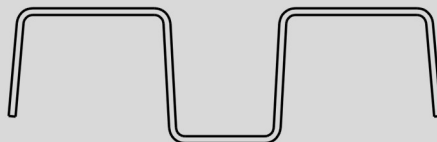
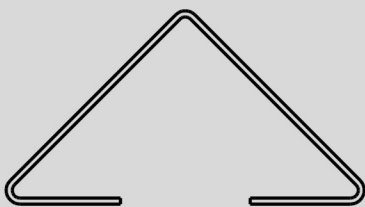
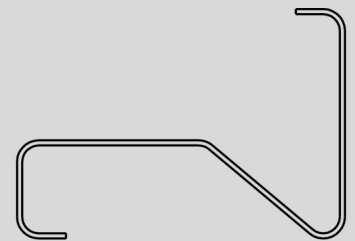
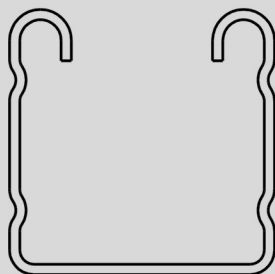
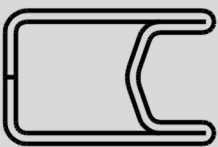
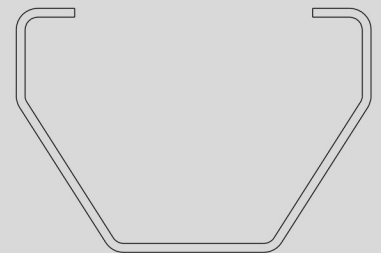
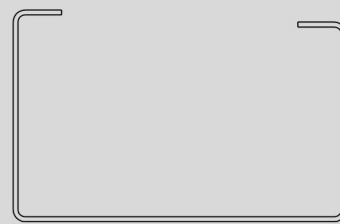
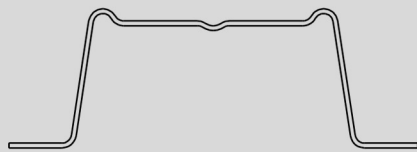
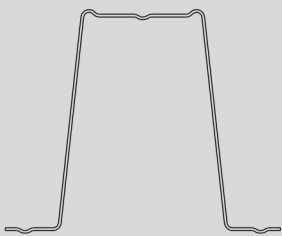
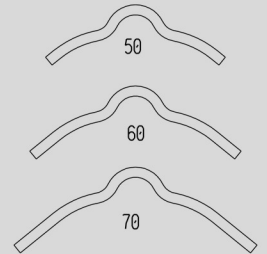
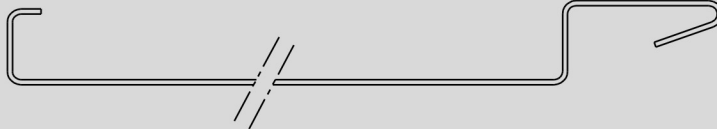
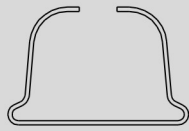
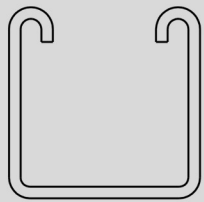
Type: Corrugated Sheet
 Profile : Standard Corrugation Section.
 Coil : 925mm wide, mild steel capacity 450 MPa UTS
 Thickness : 0.3 - 0.5mm.
 Coverage : ± 762mm.

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ROLLFORMING

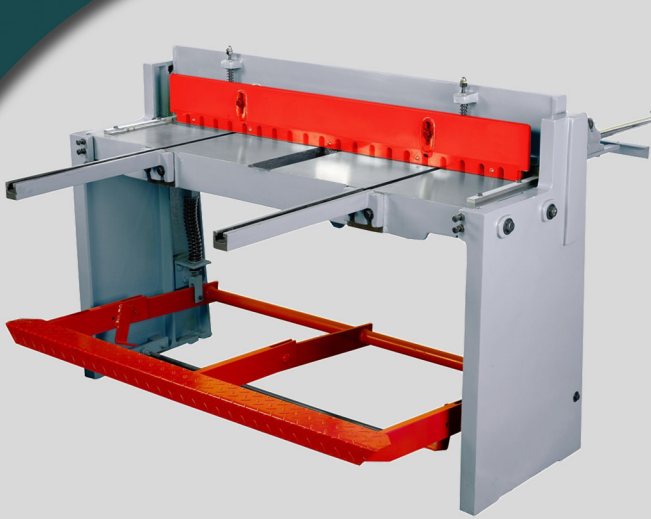
Rollformed Sections Cont...



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SHEETMETAL EQUIPMENT



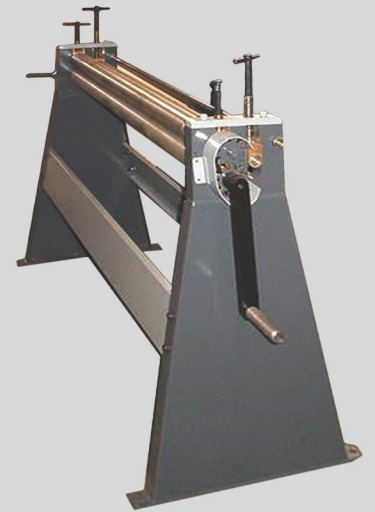
Treadle Guillotine:

- 1.6mm x 1250mm Blade
- Continuous Cutting



Box & Pan Folder:

- 1250mm x 1.6mm
- 2000mm x 1.6mm



Manual Pinch Plate Roller:

- 1.6mm x 1250mm



Jenny:

- 1.6mm Capacity x 230mm

From the side with 5 sets of wheels



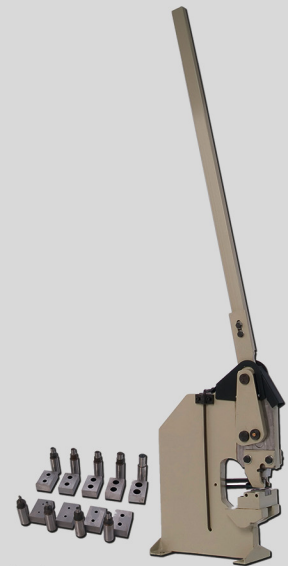
Hand Notcher:

- 100mm x 100mm x 3mm



Hand Shear:

- 4mm x 120mm Blade
- 4mm x 160mm Blade
- 4mm x 200mm Blade
- 4mm x 250mm Blade
- 4mm x 300mm Blade



Punching Unit:

- 110mm thru 6mm Plate Throat 80mm
- 12mm thru 8mm Plate Throat 120mm
- 16mm thru 10mm Plate Throat 160mm

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