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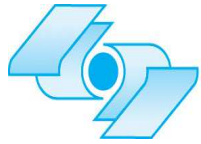
Italian Technology at its best.
Designers and builders of quality metal fabrication
equipment



Omega 100

Omega

***Hydraulic Section Bending
Machines***



Comal srl

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The OMEGA Line of section forming machines, produced by Comal Italia, can be as simple and as sophisticated as the work of the customer requires. All models are fully hydraulic. These machines bend a wide range of structural steel sections, pipe, tubing and solid bars in every way imaginable.

FEATURES OF THE MACHINE:

Three powered rolls with speed compensation on the top roll.

Manual controls, NC and CNC

Versatile lateral guides - Manual or Hydraulic with three degrees of freedom.

On all models single speed is standard, variable speed is optional. On NC and CNC models, variable speed is included.

Vertically and horizontally operating options.

For OMEGA 125 and larger machines, traction tools are available for bending UNP, INP and HE metric sections the hard way, similarly S, WF and C American sections.

Also available is:

Spiral rolling attachments

Special tooling for rolling Pipe and Tubing



The smallest of them all the OMEGA 40

See capacities tables for European and American structural sections which can be rolled on these machines.



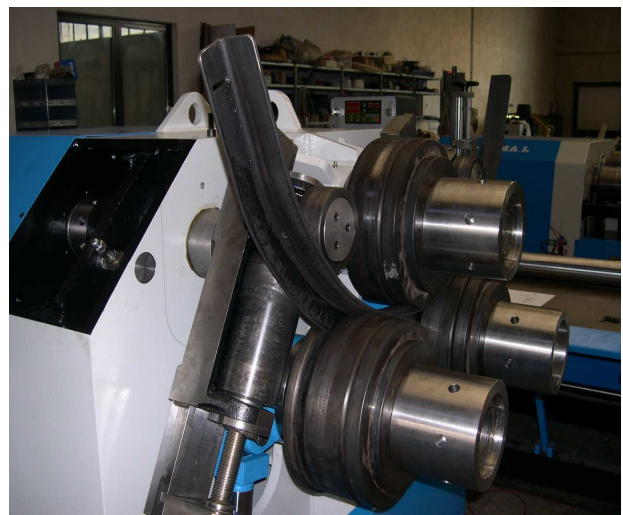
OMEGA 125



OMEGA 80 with covers removed/ special tooling / hydraulic lateral guides (three degrees of freedom) and the EASY BENDER CNC













OMEGA 100 showing separate control console on wheels







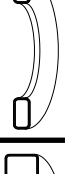





Universal standard tooling with manual lateral guides

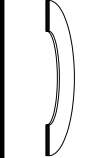

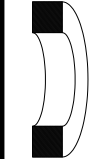
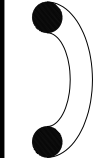
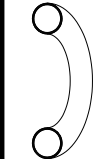
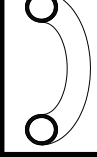
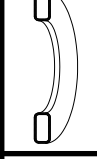
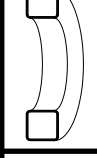
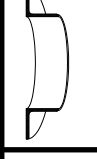
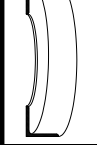
SPECIFICATIONS - *Omega*



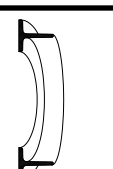
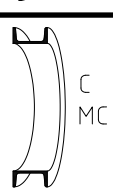
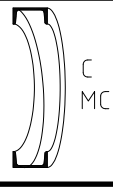
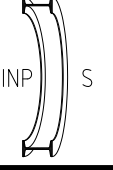
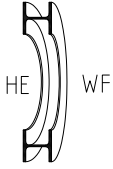
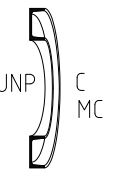
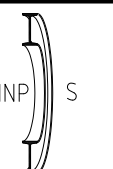
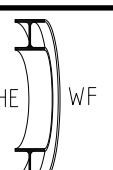
		OMEGA 40	OMEGA 50	OMEGA 60
1		European Section 50mmX8mm Ø400mm 20mmX5mm Ø180mm	60mmX10mm Ø450mm 20mmX6mm Ø180mm	70mmX12mm Ø550mm 25mmX5mm Ø220mm
	Bar On Edge			
	American Section	2"X5/16" Ø16" 3/4"X3/16" Ø8"	2-3/8"X3/8" Ø18" 3/4"X1/4" Ø8"	2-3/4"X1/2" Ø22" 1"X3/16" Ø9"
2		European Section 60mmX15mm Ø400mm	60mmX20mm Ø500mm	90mmX25mm Ø600mm
	Bar Easy Way			
	American Section	2-3/8"X5/8" Ø16"	2-3/8"X3/4" Ø20"	4"X1" Ø24"
3		European Section 28mm Ø300mm	32mm Ø400mm	38mm Ø450mm
	Solid Square Bar			
	American Section	1" Ø12"	1-1/4" Ø16"	1-1/2" Ø18"
4		European Section Ø30mm Ø300mm	Ø38mm Ø380mm	D45mm Ø450mm
	Solid Round Bar			
	American Section	Ø1-3/6" solid Ø12"	1-1/2" Ø15"	1-3/4" Ø18"
5		European Section Ø50X1,5mm Ø500mm Ø12X1mm Ø180mm	Ø60X2mm Ø600mm Ø15X1mm Ø220mm	Ø80X2mm D1200mm Ø25X1,5mm D300mm
	Round Tube			
	American Section	Ø2"X16ga Ø20" Ø1/2"X19ga Ø7"	Ø2-3/8"X14ga Ø24" Ø1/2"X19ga Ø9"	D3-1/4"X14ga Ø48" D1"X16ga Ø12"
6		Schedule 40 Universal Standard Pipe	1-1/4" Pipe Ø450mm Ø18"	1-1/2" Pipe Ø500mm Ø20"
7		European Section 40X20X3mm wall	60X25X3mm wall	75X25X3mm wall
	Rectangular Tubing			
	American Section	1-1/2"X1"X11ga wall	2-1/2"X1"X11ga wall	3"X1-1/2"X1/8" wall
8		European Section 30mmX2mm wall	45mmX3mm wall	60mmX4mm wall
	Square Tubing			
	American Section	1-1/4"X0.135" wall	1-3/4"X11ga wall	2-1/2"X1/8" wall
9		European Section 50X50X6mm Ø550mm 20X20X3mm Ø220mm	60X60X6mm Ø660mm 30X30X4mm Ø330mm	70X70X7mm Ø770mm 30X30X4m Ø330mm
	Angle Leg Out			
	American Section	2"X2"x1/4" Ø22" 3/4"X3/4"X1/8" Ø10"	2-1/2"X2-1/2"X1/4" Ø26" 1"X1"X3/16" Ø14"	2-1/2"X2-1/2"X3/8" Ø30" 1-1/4"X1-1/4"X1/4" Ø14"
10		European Section 40X40X6mm Ø480mm 20X20X3mm Ø240mm	50X50X5mm Ø600mm 30X30X4mm Ø360mm	60X60X6mm Ø720mm 30X30X4mm Ø360mm
	Angle Leg In			
	American Section	1-1/2"X1-1/2"X1/4" Ø20" 3/4"X3/4"X1/8" Ø12"	2"X2"X3/16" Ø24" 1"X1"X3/16" Ø14"	2"X2"X1/4" Ø28" 1-1/4"X1-1/4"X1/4" Ø16"

		OMEGA 40		OMEGA 50		OMEGA 60		
11		European Section	50mm	Ø600mm	60mm	Ø600mm	70mm	Ø500mm
		Tee Leg Out	N/A		N/A		WT2-1/2"X9.5# D20"	
		American Section	N/A		N/A		WT2-1/2"X9.5# D20"	
12		European Section	40mm	Ø500mm	50mm	Ø600mm	60mm	Ø700mm
		Tee Leg In	N/A		N/A		WT2-1/2"X9.5# Ø30"	
		American Section	N/A		N/A		WT2-1/2"X9.5# Ø30"	
13		European Section	50mm	Ø800mm	70mm	Ø700mm	80mm	Ø600mm
		Tee Leg On Side	N/A		N/A		WT3"X6# Ø24"	
		American Section	N/A		N/A		WT3"X6# Ø24"	
14		European Section UPN	50X38mm	Ø400mm	80X45mm	Ø600mm	100X50mm	Ø700mm
		"U" Channel Leg Out	N/A		C3x6#	Ø24"	C4X7.25#	Ø28"
		American Section C & MC	N/A		C3x6#	Ø24"	C4X7.25#	Ø28"
15		European Section UPN	50X25mm	Ø800mm	70X40mm	Ø750mm	80X45mm	Ø800mm
		"U" Channel Leg In	N/A		C3X5#	Ø32"	C3X6#	Ø32"
		American Section C & MC	N/A		C3X5#	Ø32"	C3X6#	Ø32"
16		European Section IPN	N/A		80X42mm	Ø650mm	100X50mm	Ø700mm
		"I" Beam Easy Way	N/A		N/A		N/A	
		American Section S	N/A		N/A		N/A	
17		European Section HE	N/A		N/A		N/A	
		Wide Flange Easy Way	N/A		N/A		N/A	
		American Section WF	N/A		N/A		N/A	
18		European Section UPN	N/A		N/A		N/A	
		"U" Channel Hard Way	N/A		N/A		N/A	
		American Section C & MC	N/A		N/A		N/A	
19		European Section IPN	N/A		N/A		N/A	
		"I" Beam Hard Way	N/A		N/A		N/A	
		American Section S	N/A		N/A		N/A	
20		European Section HE	N/A		N/A		N/A	
		Wide Flange Hard Way	N/A		N/A		N/A	
		American Section WF	N/A		N/A		N/A	

		OMEGA 80		OMEGA 100		OMEGA 125		
1		European Section	90X16mm 40X8mm	Ø750mm Ø300mm	100X25mm 40X8mm	Ø1000mm Ø350mm	125X25mm 50X8mm	Ø1250mm Ø450mm
	American Section	3-1/2"X3/4" 1-5/8"X5/16"	Ø30" Ø12"	4"X1" 1-5/8"X5/16"	Ø40" Ø12"	5"X1" 2"x5/16"	Ø50" Ø20"	
2		European Section	150X30mm	Ø700mm	180X35mm	Ø800mm	200X45mm	Ø900mm
	American Section	6"X1-1/4"	Ø28"	7"X1-1/2"	Ø32"	8"x1-3/4"	Ø36"	
3		European Section	50mm	Ø600mm	60mm	Ø750mm	75mm	Ø850mm
	American Section	2"	Ø24"	2-3/8"	Ø34"	3"	Ø32"	
4		European Section	Ø60mm	Ø600mm	Ø75mm	Ø750mm	Ø85mm	Ø900mm
	American Section	Ø2-3/8"	Ø24"	Ø3"	Ø30"	Ø3-3/8"	Ø36"	
5		European Section	Ø120X3mm Ø50X2mm	Ø2000mm Ø420mm	Ø140X3mm Ø50X2mm	Ø2800mm Ø450mm	Ø160X4mm Ø50X2mm	Ø3000mm Ø500mm
	American Section	Ø4-3/4"X11ga Ø2"X14ga	Ø80" Ø16"	Ø5-1/2"X11ga Ø2X14ga	Ø110" Ø20"	Ø6"X10ga D2"X14ga	Ø120" Ø24"	
6		Schedule 40 Universal Standard Pipe	3" Pipe	Ø950mm Ø36"	4" Pipe	Ø1250mm Ø48"	5" Pipe	Ø1700mm Ø64"
			2-1/2" Pipe	Ø800mm Ø32"	3" Pipe	Ø950mm Ø36"	4" Pipe	Ø1250mm Ø48"
7		European Section	100X40X4mm wall		120X50X4mm wall		140X50X5mm wall	
	American Section	4"X2"X1/8" wall		5"X2"X3/16" wall		6"X2"X3/16 wall		
8		European Section	70mmX5mm wall		80mmX6mm wall		90mmX8mm wall	
	American Section	2-1/2"X1/4" wall		3"X1/4" wall		3-1/2"X5/16" wall		
9		European Section	90X90X9mm 40X40X5mm	Ø1000mm Ø500mm	120X120X12mm 40X40X6mm	Ø1300mm Ø440mm	120X120X15mm 50X50X5mm	Ø1300mm Ø550mm
	American Section	3-1/2"X3-1/2"X3/8" 1-1/2"X1-1/2"X1/4"	Ø40" Ø20"	4"X4"X3/4" 1-5/8"X1-5/8"X1/4"	Ø52" Ø18"	5"x5"X5/8" 2"X2"X3/16"	Ø52" Ø22"	
10		European Section	80X80X8mm 40X40X5mm	Ø1000mm Ø500mm	90X90X10mm 40X40X5mm	Ø1100mm Ø500mm	100X100X12mm 50X50X5mm	Ø1200mm Ø600mm
	American Section	3"X3"X5/16" 1-1/2"X1-1/2"X1/4"	Ø40" Ø20"	3-1/2"X3-1/2"X3/8" 1-1/2"X1-1/2"X3/16"	Ø44" Ø20"	4"X4"X1/2" 2"X2"X3/16"	Ø48" Ø24"	

		OMEGA 80	OMEGA 100	OMEGA 125	
11		European Section	90mm Ø800mm	100mm Ø1000mm	120mm Ø1200mm
		Tee Leg Out			
		American Section	WT3"X12.5 Ø30"	WT4" Ø40"	WT5" Ø46"
12		European Section	80mm Ø1300mm	90mm Ø1500mm	100mm Ø1500mm
		Tee Leg In			
		American Section	WT3"X12.5 Ø50"	WT4" Ø60"	WT5" Ø60"
13		European Section	100mm Ø700mm	120mm Ø1000mm	130mm Ø1000mm
		Tee Leg On Side			
		American Section	WT3"X12.5 Ø28"	WT4" Ø40"	WT5" Ø40"
14		European Section UPN	160X65mm Ø700mm	200X75mm Ø950mm	220X80mm Ø900mm
		"U" Channel Leg Out			
		American Section C & MC	MC6X12# Ø28"	MC8X20# Ø38"	C10X30# Ø38"
15		European Section UPN	100X50mm Ø900mm	140X60mm Ø900mm	220X80mm Ø1200mm
		"U" Channel Leg In			
		American Section C & MC	C4X7.25# Ø36"	C8X13.75 Ø36"	C10X15.3# Ø48"
16		European Section IPN	160X74mmØ800mm	180X82mm Ø1100mm	220X98mm Ø1200mm
		"I" Beam Easy Way			
		American Section S	S6X12.5" Ø32"	S7X15.3# Ø44"	S8X23# Ø48"
17		European Section HE	HE100A Ø1500mm	HE120A Ø1000mm	HE140A Ø1300mm
		Wide Flange Easy Way			
		American Section WF	4WF13# Ø60"	6WF16# Ø40"	6WF15# Ø52"
18		European Section UPN	N/A	120X55mm Ø2200mm	140X60mm Ø2800mm
		"U" Channel Hard Way			
		American Section C & MC	N/A	C5X9# D86"	C6X8.2# Ø72"
19		European Section IPN	N/A	140X66mm Ø2400mm	160X74mm Ø2800mm
		"I" Beam Hard Way			
		American Section S	N/A	S4X7.7# Ø96"	S5X10# D72"
20		European Section HE	N/A	HE100A Ø2200mm	HE120A Ø2900mm
		Wide Flange Hard Way			
		American Section WF	N/A	N/A	4WF13# Ø110"

		OMEGA 150	OMEGA 180	OMEGA 200
1		European Section 150mmX40mm Ø1400mm 60mmX10mm Ø600mm	170mmX40mm Ø1500mm 80mmX10mm Ø800mm	180mmX45mm Ø1800mm 80mmX10mm Ø800mm
		Bar On Edge American Section 6"X1-1/2" Ø55" 2-1/2"X3/8" Ø28"	7"X1-1/2" Ø70" 3"X3/8" Ø30"	7"X1-3/4" Ø70" 3"X3/8" Ø32"
2		European Section 250mmX60mm Ø1500mm	300mmX60mm Ø1500mm	350mmX60mm Ø2000mm
		Bar Easy Way American Section 10"X2-3/8" Ø60"	12"X2-3/8" Ø60"	14"X2-1/2" Ø80"
3		European Section 95mm Ø1200mm	105mm Ø1350mm	115mm Ø1500mm
		Solid Square Bar American Section 3-3/4" Ø48"	4" Ø54"	4-1/2" Ø60"
4		European Section Ø110mm Ø1200mm	Ø125mm Ø1300mm	Ø135mm Ø1500mm
		Solid Round Bar American Section Ø4-3/8" Ø48"	Ø5" Ø50"	Ø5-1/2" Ø60"
5		European Section Ø220X4mm Ø5000mm Ø60X2mm Ø600mm	Ø240X5mm Ø8000mm Ø80X2mm Ø800mm	Ø275X5mm Ø8000mm Ø80X2mm Ø800mm
		American Section Ø8"X3/16" Ø200" Ø2-1/2"X14ga Ø28"	Ø9"X3/16" D315" Ø3"X14ga D32"	Ø10"X3/16" Ø320" Ø3"X14ga Ø32"
6		Schedule 40 Universal Standard Pipe 6" Pipe Ø2200mm Ø87"	8" Pipe Ø3500mm Ø138"	10" Pipe Ø4100mm Ø160"
		5" Pipe Ø1600mm D64"	6" Pipe Ø2200mm D87"	8" Pipe Ø3500mm D138"
7		European Section 180X70X8mm wall	200X75X8mm wall	220X80X8mm wall
		American Section 7"X3"X1/4" wall	8"X3"X5/16" wall	8"X3"X3/8" wall
8		European Section 125X125X10mm wall	150X150X10 wall	165X165X10mm wall
		American Section 5"X3/8" wall	6"X3/8" wall	6"X1/2" wall
9		European Section 150X150X16mm Ø1600mm 50X50X5mm Ø550mm	180X180X18mm Ø2000mm 60X60X8mm Ø660mm	220X220X20mm D2200mm 60X60X8mm D750mm
		American Section 6"X6"X5/8" Ø64" 2"X2"X3/16" Ø22"	8"X8"X1/2" Ø78" 2-1/2"X2-1/2"X1/4" Ø26"	8"X8X3/4" Ø88" 2-1/2"X2-1/2"X1/4" Ø30"
10		European Section 130X130X14mm Ø1600mm 50X50X5mm Ø850mm	150X150X14mm Ø1800mm 60X60X8mm Ø1000mm	150X150X18mm Ø2000mm 60X60X8mm Ø1000mm
		American Section 5"X5"X5/8" Ø64" 2"X2"X3/16" Ø34"	6"X6"X1/2" Ø72" 2-1/2"X2-1/2"X1/4" Ø40"	6"X6"X3/4" D78" 2-1/2"X2-1/2"X1/4" D40"

		OMEGA 150		OMEGA 180		OMEGA 200		
11		European Section	150mm	Ø1500mm	180mm	Ø2300mm	200mm	Ø2600mm
		Tee Leg Out						
		American Section	WT6"	Ø60"	WT7"	Ø90"	WT8"	Ø100"
12		European Section	140mm	Ø1700mm	150mm	Ø2800mm	180mm	Ø2200mm
		Tee Leg In						
		American Section	WT6"	Ø66"	WT7"	Ø110"	WT8"	Ø120"
13		European Section	150mm	Ø1500mm	170mm	Ø2200mm	220mm	Ø2200mm
		Tee Leg On Side						
		American Section	WT6"	Ø60"	WT7"	Ø86"	WT8"	Ø100"
14		European Section UPN	300x100mm Ø1200mm		350X150mm Ø1400mm		425X150mm Ø2000mm	
		"U" Channel Leg Out						
		American Section C & MC	MC12X50#	Ø48"	MC13X50#	Ø56"	MC18X58#	Ø80"
15		European Section UPN	300x100mm Ø1400mm		300X100mm Ø1400mm		400X110mm Ø3000mm	
		"U" Channel Leg In						
		American Section C & MC	MC12X31#	Ø56"	MC12X45#	Ø56"	MC18X42.7#	Ø120"
16		European Section IPN	300X125mm Ø1300mm		380X149mm Ø1600mm		425X163mm Ø1600mm	
		"I" Beam Easy Way						
		American Section S	S12X35#	Ø52"	S15X50#	Ø64"	S18X70#	Ø64"
17		European Section HE	HE200A	Ø2200mm	HE220A	Ø2800mm	HE240A	Ø2800mm
		Wide Flange Easy Way						
		American Section WF	8WF31#	Ø90"	14WFX48#	Ø110"	18WF70#	Ø110"
18		European Section UPN	180X70mm Ø5000mm		200X75mm Ø6000mm		220X80mm Ø7500mm	
		"U" Channel Hard Way						
		American Section C & MC	C8X13.75#	Ø200"	MC8X20#	Ø240"	MC8X22.8#	Ø300"
19		European Section IPN	200X90mm Ø3000mm		220X98mm Ø3000mm		280X119mm Ø3700mm	
		"I" Beam Hard Way						
		American Section S	S8X18.4#	Ø120"	S8X23#	Ø120"	S10X35#	Ø146"
20		European Section HE	HE160A	Ø4000mm	HE180A	Ø6000mm	HE200A	Ø7000mm
		Wide Flange Hard Way						
		American Section WF	6WFX20#	Ø160"	8WF21#	Ø240"	12WF22#	Ø275"

Omega Specifications (cont'd)

	OMEGA 40	OMEGA 50	OMEGA 60
Diameter of Bending Rolls	130mm	180mm	210mm
	5.118"	7.087"	8.268"
Shafts Diameters	40mm	55mm	65mm
	1.575"	2.165"	2.559"
Maximum Section Window Available	85mm H X 80mm W	85mm H X 115mm W	100mm H X 140mm W
	3.346" H X 3.150" W	3.346" H X 4.528" W	3.937" H X 5.512" W
Floor area w/ Shafts horizontal	620mm W X 1250mm L	750mm WX 1300mm L	900mm WX 1550 L
	24"W X 49"L	30"W X 51"L	35"W X 61"L
Floor area w/ Shafts Vertical	N/A	N/A	N/A
	N/A	N/A	N/A
Motor Power	2.2Kw	3Kw	3.5Kw
	3 HP	4HP	5HP
Approx. Weight	600Kg	800Kg	1050Kg
	1323 lbs	1764 lbs	2315 lbs
W Capacity (Section Modulus)	3,5cm3	6cm3	10cm3
	0.213in3	0.366in3	0.610in3

Omega Specifications (cont'd)

	OMEGA 80	OMEGA 100	OMEGA 125
Diameter of Bending Rolls	260mm 10.236"	320mm 12.598"	410mm 16.142"
Shafts Diameters	85mm 3.346"	100mm 3.937"	130mm 5.118"
Maximum Section Window Available	130mm H X180mm W 5.118" H X 7.087" W	150mm H X210mm W 5.906" H X 8.286" W	210mm H X260mm W 8.268" H X 10.236" W
Floor area w/ Shafts horizontal	1100mm Wx 1750mm L 43"W X69"L	1300mm W X1600mm L 51"W X63"L	1600mm W X2100mm L 63"H X83"L
Floor area w/ Shafts Vertical	1100mm Wx 1350mm L 43"W X53"L	1300mm W X1450mm L 51"W X57"L	1600mmW X1800mm L 63"W X71"L
Motor Power	5.5Kw 7.5HP	7.5Kw 10HP	15Kw 20HP
Approx. Weight	2700Kg 5954 lbs	3500Kg 7718 lbs	6000Kg 13230 lbs
W Capacity (Section Modulus)	25cm3 1.526in3	45cm3 / 82cm3** 2.746in3 / 5in3**	70cm3 / 144cm3** 4.270 in3 / 8.787in3**
		** The larger W capacity applies when rolling sections of positions 14 to 20 to very large Radii	** The larger W capacity applies when rolling sections of positions 14 to 20 to very large Radii

Omega Specification (cont'd)

	OMEGA 150	OMEGA 180	OMEGA 200
Diameter of Bending Rolls	475mm 18.700"	570mm 22.440"	630mm 24.803"
Shafts Diameters	160mm 6.300"	190mm 7.480"	210mm 8.268"
Maximum Section Window Available	250mm H x320mm W 9.842"H X12.600"W	300mm H x380mm W 11.811"H X14.961"W	335mm HX460mm W 13.190"H X18.110"W
Floor area w/ Shafts horizontal	1800mm WX 2100mm L 71"W X83"L	2500mm WX 3000mm L 98"W X118"L	2500mm WX 3300mm L 98"W X131"L
Floor area w/ Shafts Vertical	1800mm WX1600mm L 71"WX 63"L	2500mm WX 2700mm L 98"W X106"L	2500mm WX 3000mm L 98"W X118"L
Motor Power	18.5Kw 25HP	22Kw 30HP	30Kw 40HP
Approx. Weight	9000Kg 19845 lbs	11000Kg 24255 lbs	18000Kg 39690 lbs
W Capacity (Section Modulus)	150cm ³ / 236cm ³ ** 9.154 in ³ / 14.402in ³ **	200cm ³ / 298cm ³ ** 12.205 in ³ / 18.185 in ³	250cm ³ / 541cm ³ ** 15.255 in ³ / 33.014 in ³ **
	** The larger W capacity applies when rolling sections of positions 14 to 20 to very large Radii	** The larger W capacity applies when rolling sections of positions 14 to 20 to very large Radii	** The larger W capacity applies when rolling sections of positions 14 to 20 to very large Radii

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