

The indestructible Mark
hydraulic bending machine.
Including a
10 year warranty



mark
THE ORIGINAL PIPE BENDER



▶ MARK BENDER

The indestructible Mark hydraulic bending machine. Including a 10 year warranty.



- ▶ Robus
- ▶ Durable
- ▶ Supplied in sturdy wooden box
- ▶ Low weight folding frame
- ▶ Open frame for repetitive bending
- ▶ Manual and motor control
- ▶ Parts and repair kits available
- ▶ Stand available as an option

◀ The Mark hydraulic bending machine is an indispensable tool for bending various tube materials with an external diameter from 3/8" to 4".

History

In 1945, Mark was established by the van der Mark brothers in Veendam. At the time it went under the name of Ingenieursbureau Gebroeders Van der Mark NV.

Since 1983, Mark has been owned by the Bruinsma family. Director G.J.H.A. Bruinsma (1944 - 2008) expanded the innovative company into an internationally operating organisation.

The Mark Holding consists of six companies: six sales and service establishments in the Netherlands, Germany, Belgium, Ireland, Poland and Romania and two production companies: one in the Netherlands and one in Ireland.

ISO 9001

The production of the bending machines takes place in Netherlands and happens only in accordance with the ISO 9001 standard.

That is a guarantee for quality and reliability. Together with the years of accumulated knowledge

and experience, that gives you the certainty that you request. In addition, we only use high quality Western European components and automated machine works park with the latest state of the art. That means a constant quality and a fast delivery.



Mark BV is based in Veendam and, together with branches in Ireland, Germany, Belgium, Poland and Romania, serves the whole of Europe.

◀ Look inside for our complete offer.

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Mark 1023 hand-hydraulic,
open wing head



Mark 1013 hand-hydraulic,
tip-up wing head



Mark 2023 hand-hydraulic,
open wing head

Specifications																																	
Hydraulic pressure pump	50 kN (5.000 kg)			50 kN (5.000 kg)			80 kN (8.000 kg)																										
Motorcapacity																																	
Weight including standard accessories and standard formers (kg)	56			46			98																										
Dimensions of container (cm)	82 × 27 × 43			82 × 27 × 43			82 × 34 × 48																										
Gas and steam tubes																																	
Standard formers for 90° bends (°)	3/8	1/2	3/4	1	1 1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2																					
external diameter (mm)	17.2	21.3	26.9	33.7	42.4	17.2	21.3	26.9	33.7	42.4	17.2	21.3	26.9	33.7	42.4	48.3	60.3																
Wall thickness DIN 2440 (mm)	2.35	2.65	2.65	3.25	3.25	2.35	2.65	2.65	3.25	3.25	2.35	2.65	2.65	3.25	3.25	3.25	3.65																
(150 medium, ISO R65)																																	
Wall thickness DIN 2441 (mm)	2.9	3.25	3.25	4.05	4.05	2.9	3.25	3.25	4.05	4.05	2.9	3.25	3.25	4.05	4.05	4.05	4.50																
(150 heavy, ISO R65)																																	
Bending radii (mm)	45	50	65	100	130	45	50	65	100	130	45	50	65	100	130	150	200																
Standard accessories	5 formers,			5 formers,			7 formers,			2 bending blocks with dowel pins,			1 straightener, 1 U clamp																				
	1 U clamp			av 1 U clamp																													
Accessories																																	
Optional formers for 180°	-			-			3/8			1/2			3/4			1			1 1/4			1 1/2			2								
in gas and steam tubes (inch and mm)																																	
Bending radii (mm)	-			-			130			130			130			130			140			190											
Optional attachment for hairpin bends up to 180°	-			-			Can be used																										
Boilertubes																																	
Optional formers for 90° bends (mm)	25/21			30/26			25/21			30/26			25/21			30/26			32/28			38/33			44/40			48.3/43.1			51/46		
Bending radii (mm)	115			140			115			140			115			140			140			170			190			220			220		
Polyethene covered tubes																																	
Optional formers for 90° bends (°)	P21	P25	P31	P38	P21	P25	P31	P38	P21	P25	P31	P38	P46	P52																			
Bending radii (mm)	110	110	137	140	110	110	137	140	110	110	137	140	170	220																			
Construction tubes																																	
Optional formers for 90° bends (°)	1/2		3/4		1/2		3/4		1/2		3/4		1		1 1/4																		
External diam./wall thickness (mm)	21.3×1.75		26.9×1.75		21.3×1.75		26.9×1.75		21.3×1.75		26.9×1.75		33.7×2.00		42.5×2.00																		
Bending radii (mm)	110		137		110		137		110		137		190		220																		
Flat bars 8 × 40 mm																																	
Extra bending jig curve up to 180°	-			-			120			140			160			180			200			220			240			260					
internal diameter (mm)																																	
Optional attachment for bends up to 180°	-			-			Can be used																										
Stroke adjustment	Can be used			Can be used			Can be used																										

Standard

Delivery in container



Accessories

90° Formers

polyethene covered tubes
Special 90° formers for 3/8 - 2" (radii 110-270 mm) tubes.

construction tubes

Special 90° formers for 1/2-1 1/4" (21.3×1.75 - 42.5×2 mm) tubes.

Boilertubes

Special 90° formers for 25/21 - 76/70 mm boilertubes.



Special attachment for hairpin bends in gas and steam tubes

Not for Mark 1013, 1023 and 1323.





Mark 2013 hand-hydraulic,
tip-up wing head



Mark 3013 hand-hydraulic,
tip-up wing head



Mark 4013 hand-hydraulic,
tip-up wing head



Mark 1323 electro-hydraulic,
open wing head

80 kN (8.000 kg)	130 kN (13.000 kg)	200 kN (20.000 kg)	50 kN (5.000 kg)
			1.5 kW 3~ 400V / 1.4 kW 1~ 230V
82	182	465	76
82 × 34 × 48	118 × 43 × 50	178 × 78 × 67	82 × 39 × 60
3/8 1/2 3/4 1 1 1/4 1 1/2 2	3/8 1/2 3/4 1 1 1/4 1 1/2 2 2 1/2 3	3/8 1/2 3/4 1 1 1/4 1 1/2 2 2 1/2 3 4	3/8 1/2 3/4 1 1 1/4
17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3 76.1 88.9	17.2 21.3 26.9 33.7 42.4 48.3 60.3 76.1 88.9 114.3	17.2 21.3 26.9 33.7 42.4
2.35 2.65 2.65 3.25 3.25 3.25 3.65	2.35 2.65 2.65 3.25 3.25 3.25 3.65 3.65 4.05	2.35 2.65 2.65 3.25 3.25 3.25 3.65 3.65 4.05 4.50	2.35 2.65 2.65 3.25 3.25
2.9 3.25 3.25 4.05 4.05 4.05 4.50	2.9 3.25 3.25 4.05 4.05 4.05 4.50 4.50 4.85	2.9 3.25 3.25 4.05 4.05 4.05 4.50 4.50 4.85 5.40	2.9 3.25 3.25 4.05 4.05
45 50 65 100 130 150 200	45 50 65 100 130 150 200 320 380	45 50 65 100 130 150 200 320 380 600	45 50 65 100 130
7 formers, 2 bending blocks with dowel pins, 1 straightener, 1 U clamp	9 formers, 2 bending blocks with dowel pins, 1 straightener, 1 U clamp and 1 extension ram	10 formers, 4 hoekmallen, 1 straightener, 2 pins for pipe extrusion 4" and 2 extension ram	5 formers, 2 bending blocks with dowel pins 1 U clamp
3/8 1/2 3/4 1 1 1/4 1 1/2 2	3/8 1/2 3/4 1 1 1/4 1 1/2 2	3/8 1/2 3/4 1 1 1/4 1 1/2 2	-
17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3	-
130 130 130 130 130 140 190	130 130 130 130 130 140 190	130 130 130 130 130 140 190	-
Can be used	Can be used	-	-
25/21 30/26 32/28 38/33 44.5/40 48.3/43.1 51/46	25/21 30/26 32/28 38/33 44.5/40 48.3/43.1	25/21 30/26 32/28 38/33 44.5/40 48.3/43.1	25/21 30/26
115 140 140 170 190 220 220	115 140 140 170 190 220	115 140 140 170 190 220	115 140
	51/46 57/51.5 60.3/54.5 63.5/57.5 70/64 76/70	51/46 57/51.5 60.3/54.5 63.5/57.5 70/64 76/70	
	220 250 270 270 315 420	220 250 270 270 315 420	
P21 P25 P31 P38 P46 P52	P21 P25 P31 P38 P46 P52 P65	P21 P25 P31 P38 P46 P52 P65	P21 P25 P31 P38
3/8 1/2 3/4 1 1 1/4 1 1/2	3/8 1/2 3/4 1 1 1/4 1 1/2 2	3/8 1/2 3/4 1 1 1/4 1 1/2 2	3/8 1/2 3/4 1
110 110 137 140 170 220	110 110 137 140 170 220 270	110 110 137 140 170 220 270	110 110 137 140
1/2 3/4 1 1 1/4	1/2 3/4 1 1 1/4	1/2 3/4 1 1 1/4	1/2 3/4
21.3×1.75 / 26.9×1.75 / 33.7×2 / 42.5×2.00	21.3×1.75 / 26.9×1.75 / 33.7×2 / 42.4×2.00	21.3×1.75 / 26.9×1.75 / 33.7×2.00 / 42.4×2.00	21.3×1.75 / 26.9×1.75
110 137 190 220	110 137 190 220	110 137 190 220	110 137
120 140 160 180 200 220 240 260	120 140 160 180 200 220 240 260	120 140 160 180 200 220 240 260	
Can be used	Can be used	Can be used	Can be used
Can be used	Can be used		Can be used

180° formers for gas and steam tubes
Additional 180° formers for 3/8 - 2" (17.2 - 60.3 mm) tubes.



Mark electro-hydraulic benders with stroke adjustment
For serial bend production.



Pivot stand
Detachable stand with pivot head at working level.



Special attachment for 180° bends in flat bars
Not for Mark 1013, 1023 en 1323.





Mark 2323 electro-hydraulic, open wing head



Mark 2313 electro-hydraulic, tip-up wing head



Mark 3313 electro-hydraulic, tip-up wing head



Mark 4313 electro-hydraulic, tip-up wing head

80 kN (8.000 kg)	80 kN (8.000 kg)	130 kN (13.000 kg)	200 kN (20.000 kg)
1,5 kW 3~ 400V / 1,4 kW 1~ 230V	1,5 kW 3~ 400V / 1,4 kW 1~ 230V	1,5 kW 3~ 400V / 1,4 kW 1~ 230V	1,5 kW 3~ 400V / 1,4 kW 1~ 230V
115	100	208	475
82 × 39 × 60	82 × 39 × 60	118 × 47 × 60	178 × 78 × 67
$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2 $2\frac{1}{2}$ 3	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2 $2\frac{1}{2}$ 3 4
17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3 76.1 88.9	17.2 21.3 26.9 33.7 42.4 48.3 60.3 76.1 88.9 114.3
2.35 2.65 2.65 3.25 3.25 3.25 3.65	2.35 2.65 2.65 3.25 3.25 3.25 3.65	2.35 2.65 2.65 3.25 3.25 3.65 3.65 4.05	2.35 2.65 2.65 3.25 3.25 3.25 3.65 3.65 4.05 4.50
2.9 3.25 3.25 4.05 4.05 4.05 4.50	2.9 3.25 3.25 4.05 4.05 4.05 4.50	2.9 3.25 3.25 4.05 4.05 4.05 4.50 4.50 4.85	2.9 3.25 3.25 4.05 4.05 4.05 4.50 4.50 4.85 5.40
45 50 65 100 130 150 200	45 50 65 100 130 150 200	45 50 65 100 130 150 200 320 380	45 50 65 100 130 150 200 320 380 600
7 formers,	7 formers,	9 formers,	10 formers,
2 bending blocks with dowel pins,	2 bending blocks with dowel pins,	2 bending blocks with dowel pins, 1 straightener, 1 U clamp and 1 extension ram	4 bending blocks with dowel pins,
1 straightener, 1 U clamp	1 straightener, 1 U clamp		1 straightener and 2 extension ram
$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2
17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3	17.2 21.3 26.9 33.7 42.4 48.3 60.3
130 130 130 130 130 140 190	130 130 130 130 130 140 190	130 130 130 130 130 140 190	130 130 130 130 130 140 190
Can be used	Can be used	Can be used	Can be used
$\frac{25}{21}$ $\frac{30}{26}$ $\frac{32}{28}$ $\frac{38}{33}$ $\frac{44.5}{40}$ $\frac{48.3}{43.1}$ $\frac{51}{46}$	$\frac{25}{21}$ $\frac{30}{26}$ $\frac{32}{28}$ $\frac{38}{33}$ $\frac{44.5}{40}$ $\frac{48.3}{43.1}$ $\frac{51}{46}$	$\frac{25}{21}$ $\frac{30}{26}$ $\frac{32}{28}$ $\frac{38}{33}$ $\frac{44.5}{40}$ $\frac{48.3}{43.1}$ $\frac{51}{46}$	$\frac{25}{21}$ $\frac{30}{26}$ $\frac{32}{28}$ $\frac{38}{33}$ $\frac{44.5}{40}$ $\frac{48.3}{43.1}$
115 140 140 170 190 220 220	115 140 140 170 190 220 220	115 140 140 170 190 220 220	115 140 140 170 190 220
			$\frac{51}{46}$ $\frac{57}{51.5}$ $\frac{60.3}{54.5}$ $\frac{63.5}{57.5}$ $\frac{70}{64}$ $\frac{76}{70}$
			220 250 270 270 315 420
P21 P25 P31 P38 P46 P52	P21 P25 P31 P38 P46 P52	P21 P25 P31 P38 P46 P52 P65	P21 P25 P31 P38 P46 P52 P65
$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2	$\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2
110 110 137 140 170 220	110 110 137 140 170 220 mm	110 110 137 140 170 220 270	110 110 137 140 170 220 270
$\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$	$\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$	$\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$	$\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$
21.3×1.75 26.9×1.75 33.7×2.00 42.5×2.00	21.3×1.75 26.9×1.75 33.7×2.00 42.5×2.00	21.3×1.75 26.9×1.75 33.7×2.00 42.5×2.00	21.3×1.75 26.9×1.75 33.7×2.00 42.4×2
110 137 190 220	110 137 190 220	110 137 190 220	110 137 190 220
120 140 160 180 200 220 240 260	120 140 160 180 200 220 240 260	120 140 160 180 200 220 240 260	120 140 160 180 200 220 240 260
Can be used	Can be used	Can be used	Can be used
Can be used	Can be used	Can be used	Can be used

Specials

The MARK bending machine type 51 and 52 can be fitted on "1 1/4" respectively "2" MARK hydraulic pumps. With this accessory (51 or 52) it is possible to bend 180° bends in thin and thick walled pipes in various sorts of pipes. The machines can be delivered complete with pump in the following types:

Maximum capacity machine:	51/1053/1353	52/2053/2353
Gastube	1"	1 1/4"
Copper tube	35 mm	42 mm
Steel pipe, thin walled	30 × 1,5	35 × 1,5
Steel pipe, thick walled	30 × 4	38 × 4
RVS pipe, thin walled	28 × 1,5	35 × 1,5
RVS pipe, thick walled	28 × 3	33,7 × 2,6

Other pipe examples on request.





MARK BENDER

Hydraulic Bending Machine



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