

› Plate Rolls

High Power for Heavy-Duty Works



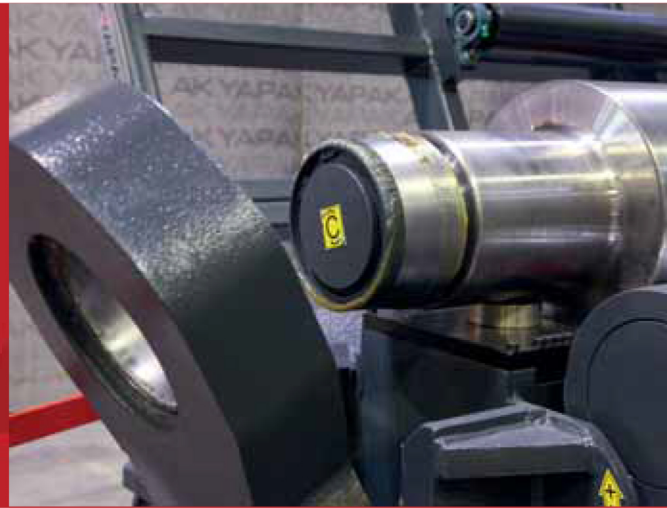


> **AHS**
30 - 150

Akyapak manufactures 4 rolls hydraulic plate bending machines with capacity in thickness from 14 ga. to 8" and in width from 20" to 40ft.

Frames of our machines are made of welded steel. Roll shafts and bearings are of high quality and robust in terms of bending moment. The upper and lower rolls are independently driven by hydraulic motor and planetary gearbox on 4-roll Plate Bending Machines. Side rolls are idler.

Since the swing guides are designed according to the lever arm principle, the machines provide more power to bend materials, pre-bending becomes perfect and flat ends are reduced to minimum.



Top roll tilts up when drop end is opened downwards for ease of part ejection.



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Frames of our machines are made of welded steel. Roll shafts and bearings are of high quality and robust in terms of bending momentum. CNC and NC options are available for AHS models.



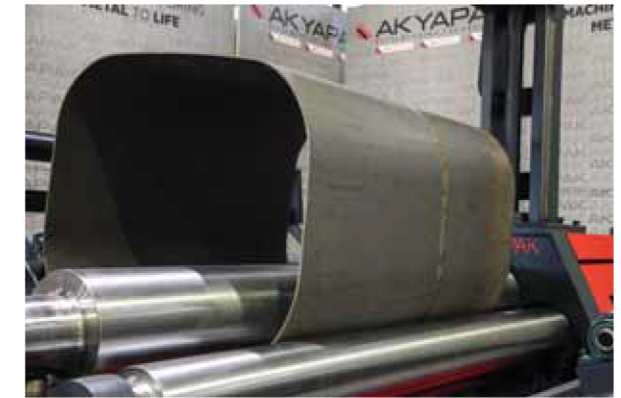
AHS Cone Bending



Material Feeding Table (Manual)



Material Feeding Table (Hydraulic and Motorized / Optional)



» Standard Features

- Cone bending device
- Induction hardened rolls
- Digital display for side rolls
- Fully welded steel frame
- Separate moveable control panel
- Two bending speeds
- All rolls are mounted in spherical roller bearings
- Hydraulically opened/closed drop end controlled from control panel (When the drop end is opened

- downwards, upper roll tilts up automatically)
- Activation of cone rolling function and position adjustment via buttons on the control panel
- Central rolls (top and bottom rolls) driven by hydraulic motors and planetary gear reducers
- Electro - hydraulic calibration
- CE, ISO9001 - 2015, TSEK AND TURQUM Certifications

» Optional Features

- Infinitely variable speed of rotation
- Side and central supports to prevent sagging of large sizes.
- Material feeding table with various features
- Changeable top roll for tighter diameters

- Oil cooling system
- Motors with different voltages and frequencies.
- CNC
- NC

» AHS Elliptic Bending

Side supports and central support carry the weight of the sheet and avoid deformation.



AHS

TECHNICAL SPECIFICATIONS

MODEL	Working Length	Max.Thickness	Pre-Bending Thickness	Top Roll Dia.	Bottom Roll Dia.	Side Roll Dia.	Motor Power	Length	Height	Width	Weight	
	feet	inch	inch	inch	inch	inch	HP	feet	feet	feet	lbs	
AHS 12/04	4	1/4	8 ga.	4,7	4,7	4,3	3	9,9	3,2	3,1	3,307	Min Ø : Top Roll Dia. x 3
AHS 15/04	5	1/4	8 ga.	5,5	5,5	4,7	3	12,1	4,2	4,3	4.409	
AHS 15/05	5	9/32	6 ga.	6,3	5,5	4,7	3	12,0	3,4	3,7	4.630	
AHS 15/08	5	3/8	5/16	7,5	6,7	5,9	4	12,0	3,4	3,7	4.453	
AHS 20/02	6	8 ga.	14 ga.	5,5	5,5	4,7	3	13,1	3,4	3,7	4.938	Min Ø : Top Roll Dia. x 3
AHS 20/04	6	1/4	8 ga.	6,3	5,5	4,7	3	13,6	3,4	3,7	5.181	
AHS 20/06	6	5/16	1/4	7,5	6,7	5,9	4	13,3	4,1	4,5	7.606	
AHS 20/08	6	3/8	5/16	8,3	7,5	6,7	10	13,6	4,3	4,6	9.700	
AHS 20/10	6	1/2	3/8	9,1	8,3	7,5	10	13,6	4,3	4,6	10.472	
AHS 20/13	6	5/8	1/2	10,6	9,8	8,3	15	14,8	4,7	5,0	12.897	
AHS 20/16	6	13/16	5/8	11,8	10,6	8,3	20	14,9	4,9	5,7	15.212	
AHS 20/20	6	1	13/16	13,0	11,8	9,4	20	15,0	5,3	6,0	20.106	
AHS 20/25	6	1-3/16	1	14,2	13,0	9,8	25	15,1	6,6	6,3	25.904	
AHS 20/30	6	1-9/16	1-3/16	15,4	14,2	11,8	30	16,6	7,2	7,2	37.920	
AHS 20/35	6	1-3/4	1-3/8	16,9	15,4	13,0	40	17,4	8,5	7,5	54.564	
AHS 20/40	6	2	1-9/16	18,1	16,5	14,2	50	17,9	8,5	7,5	55.116	
AHS 20/50	6	2-3/8	2	21,3	16,5	14,2	50	17,9	8,5	7,5	81.570	
AHS 25/04	8	1/4	8 ga.	7,5	6,7	5,9	4	14,9	4,1	4,5	7.937	Min Ø : Top Roll Dia. x 3
AHS 25/06	8	5/16	1/4	8,3	7,5	6,7	10	15,2	4,3	4,6	10.582	
AHS 25/08	8	3/8	5/16	9,1	8,3	7,5	10	15,2	4,3	4,6	11.773	
AHS 25/10	8	1/2	3/8	10,6	9,8	8,3	15	16,5	4,7	5,0	14.991	
AHS 25/13	8	5/8	1/2	11,8	10,6	8,3	15	16,5	4,9	5,7	17.857	
AHS 25/16	8	13/16	5/8	13,0	11,8	9,4	20	16,7	5,3	6,0	20.944	
AHS 25/20	8	1	13/16	14,2	13,0	9,8	25	16,6	5,5	6,2	26.015	
AHS 25/25	8	1-3/16	1	15,4	14,2	11,8	30	18,8	6,5	6,9	34.833	
AHS 25/30	8	1-9/16	1-3/16	16,9	15,4	13,0	40	18,2	7,2	7,2	49.163	
AHS 25/35	8	1-3/4	1-3/8	18,1	16,5	14,2	40	18,9	8,5	7,5	62.832	
AHS 25/40	8	2	1-9/16	20,1	18,1	15,4	60	19,3	9,8	7,5	67.682	
AHS 25/45	8	2-3/8	2	21,3	20,1	17,3	74	20,2	9,8	9,8	88.185	
AHS 30/04	10	1/4	8 ga.	8,3	7,5	6,7	10	17,1	4,3	4,6	11.905	Min Ø : Top Roll Dia. x 3
AHS 30/06	10	5/16	1/4	9,1	8,3	7,5	10	17,1	4,3	4,6	12.853	
AHS 30/08	10	3/8	5/16	10,6	9,8	8,3	15	18,4	4,8	5,2	17.086	
AHS 30/10	10	1/2	3/8	11,8	10,6	8,3	15	18,4	4,9	5,9	19.401	
AHS 30/13	10	5/8	1/2	13,0	11,8	9,4	15	18,4	5,4	6,2	23.369	
AHS 30/16	10	13/16	5/8	14,2	13,0	9,8	20	18,4	5,6	6,2	26.632	
AHS 30/20	10	1	13/16	15,4	14,2	11,8	25	19,0	6,6	6,9	37.699	
AHS 30/28	10	1-3/8	1-1/8	16,9	15,4	13,0	30	20,0	7,2	7,2	49.780	

1-) Data indicated above are based on steel with yield point 34.800 PSI 2-)For cone bending, all bending values must be reduced %50.
3-) All specifications are subject to change without notice. 4-) Gauge (ga.) dimensions for standard steels.

MODEL	Working Length	Max.Thickness	Pre-Bending Thickness	Top Roll Dia.	Bottom Roll Dia.	Side Roll Dia.	Motor Power Motor Gücü	Length	Height	Width	Weight	
	feet	inch	inch	inch	inch	inch	HP	feet	feet	feet	lbs	
AHS 30/32	10	1-9/16	1-1/4	18,1	16,5	14,2	40	20,7	8,5	7,5	66.756	Min Ø : Top Roll Dia. x 3
AHS 30/35	10	1-3/4	1-3/8	20,1	18,1	15,3	60	20,7	8,5	7,5	73.855	
AHS 30/40	10	1-2/4	1-9/16	21,3	20,0	17,3	74	22,0	9,8	9,8	88.185	
AHS 30/50	10	2-3/8	2	22,4	20,5	17,7	74	22,0	11,4	9,8	101.412	
AHS 30/60	10	3	2-3/8	24,0	21,7	18,1	101	22,1	11,4	9,8	112.877	Min Ø : Top Roll Dia. x 5
AHS 30/68	10	3-3/16	2-11/16	25,6	23,6	20,1	121	23,6	12,1	11,3	133.159	
AHS 30/76	10	3-9/16	3	27,6	25,6	22,0	148	23,6	12,1	11,3	157.190	
AHS 30/86	10	4	3-3/8	29,5	27,6	23,6	177	25,5	13,5	12,3	179.897	
AHS 30/97	10	4-5/16	3-13/16	31,5	29,1	24,4	215	26,1	14,3	13,0	223.108	
AHS 30/130	10	5-9/16	5-1/8	35,4	32,3	27,2	248	28,4	18,1	14,3	289.246	
AHS 30/156	10	6-3/4	6-1/8	39,4	35,8	29,5	268	30,2	17,9	16,1	355.826	
AHS 40/04	13 ft. 3"	1/4	8 ga.	10,6	9,8	8,3	10,1	21,4	4,7	5,0	19.621	
AHS 40/06	13 ft. 3"	5/16	1/4	11,8	10,6	8,3	10,1	21,4	4,9	5,7	21.892	
AHS 40/08	13 ft. 3"	3/8	5/16	13,0	11,8	9,4	10,1	21,6	5,3	6,0	32.893	
AHS 40/10	13 ft. 3"	1/2	3/8	14,2	13,0	9,8	14,8	21,5	5,5	6,2	35.274	
AHS 40/13	13 ft. 3"	5/8	1/2	15,4	14,2	11,8	20,1	22,1	6,5	6,9	44.313	
AHS 40/16	13 ft. 3"	13/16	5/8	16,9	15,4	13,0	24,8	23,2	7,2	7,2	53.352	
AHS 40/20	13 ft. 3"	1	13/16	18,1	16,5	14,2	29,5	23,9	8,5	7,5	75.839	
AHS 40/25	13 ft. 3"	1-3/16	1	20,1	18,1	15,4	40,2	23,9	9,0	8,2	85.098	
AHS 40/28	13 ft. 3"	1-3/8	1-1/8	21,3	20,1	17,3	49,6	25,2	9,6	9,8	106.042	
AHS 40/32	13 ft. 3"	1-9/16	1-1/4	22,8	21,3	18,1	60,3	25,2	9,6	9,8	113.318	
AHS 40/40	13 ft. 3"	2	1-9/16	24,8	23,6	21,7	60,3	25,4	11,5	9,8	141.537	
AHS 50/08	16 ft. 6"	3/8	5/16	14,2	13,0	9,8	14,8	22,1	5,5	6,2	49.604	Min Ø : Top Roll Dia. x 3
AHS 50/10	16 ft. 6"	1/2	3/8	15,4	14,2	11,8	14,8	25,4	6,5	6,9	50.045	
AHS 50/13	16 ft. 6"	5/8	1/2	16,9	15,4	13,0	20,1	26,4	7,2	7,2	65.036	
AHS 50/16	16 ft. 6"	13/16	5/8	18,1	16,5	14,2	24,8	27,1	8,5	7,5	86.421	
AHS 50/20	16 ft. 6"	1	13/16	20,1	18,1	15,4	40,2	27,1	8,5	7,5	95.901	
AHS 50/25	16 ft. 6"	1-3/16	1	22,0	20,5	17,3	49,6	28,4	9,6	9,8	118.609	
AHS 50/36	16 ft. 6"	1-3/4	1-7/16	24,8	23,6	20,5	60,3	28,7	11,5	9,8	159.174	
AHS 50/45	16 ft. 6"	2-3/16	1-3/4	28,3	26,8	23,6	73,8	29,4	12,1	11,3	197.755	
AHS 60/06	20	5/16	1/4	14,2	13,0	9,8	14,8	28,1	5,5	6,2	47.620	Min Ø : Top Roll Dia. x 3
AHS 60/08	20	3/8	5/16	15,4	14,2	11,8	14,8	27,1	6,5	6,9	55.667	
AHS 60/10	20	1/2	3/8	16,9	15,4	13,0	20,1	29,7	7,2	7,2	72.753	
AHS 60/13	20	5/8	1/2	18,1	16,5	14,2	24,8	30,4	8,5	7,5	95.901	
AHS 60/16	20	13/16	5/8	20,1	18,1	15,4	40,2	30,4	8,5	7,5	106.924	Min Ø : Top Roll Dia. x 5
AHS 60/20	20	1	13/16	22,0	20,5	17,3	49,6	31,7	9,6	9,8	132.939	
AHS 60/28	20	1-9/16	1-1/8	25,6	24,0	20,5	73,8	32,0	9,6	9,8	163.583	
AHS 60/36	20	2	1-7/16	29,5	27,6	22,8	100,6	32,0	11,5	9,8	216.000	

Wind Tower Solutions

Renewable energy for a better and sustainable world!

AKYAPAK developed plate bending machines for the production of wind towers after intensive R&D studies. While the capacity of generating electricity from wind energy has been growing all over the world, we are ready and eager to support the wind energy sector with our experience of many years in metalworking machinery.

Our machines give the most accurate shape to the wind towers in order to ensure that you do not miss the wind.



Special Machines

34.5 feet long vessel body bending in single pass

AHS 10500 x 12/14
(34.5 ft x 1/2 9/16)

CNC Four Rolls Hydraulic Plate Bending Machine



AHS 7700x9/12
(25.26 ft. x 3/8 1/2)

CNC Four Roll Hydraulic Plate Bending Machine

AHS

4-Roll Vertical Plate Bending Machine

Optional machine working position

