# Induction Pipe Bending Machines series SRBMI

Thanks to the use of innovative technologies, **AWS Schäfer** sets new standards in the field of forming steel pipes and profiles with its SRBMI series of induction pipe bending machines. High process quality, reliability, flexibility and low energy consumption are key characteristics that are indispensable for highly demanding bending tasks.

Technology and quality developed and manufactured by **AWS Schäfer** in Germany – you should not be without either this or our global experience in the use of our machines in the most diverse of industries.

If your specific application is not covered by our range of models, we will work with you to develop a custom-made product that meets your requirements. In addition, we offer you support in process and procedure development including bending training and parameter selection.
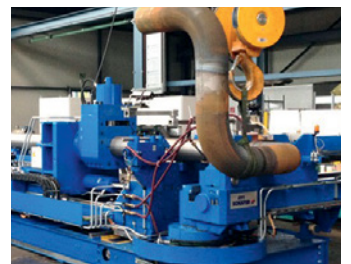
Here, you can also find the product information on our website.

AWS-Factsheet I201/EN

AWS SCHÄFER

The Pipe Technologists

More benefits and quality for you through:

- Highly automated bending process with continuous parameter control and logging

- Bends with reduced ovality due to patented pre-ovalisation device/ovality at a bending radius 1.5 X D, under 4 % possible

- User-friendly control with start-stop and automatic pre-ovalisation as well as **AWS**-Bend automated bending

- Bends with low wall weakening possible due to optimal material distribution in the tension and compression zone of the bend/wall weakening at 1.36 x D <12.0 %

- Integrated heating of pipe bend tangents in the bending process through patented process technology

- Homogeneous material properties in the bending zone and pipe bend tangents

- Bends for power plants, oil and gas industry with tight radii from 1 x D to 64 m

- Bending angle tolerances +/- 0.2°

- Reduction of loading times through patented pipe manipulator

- Inductor technology from own development for individual bending tasks

- Multiple automated bending system for bending spools and complex geometries

- Bending of clad pipes, T-beams and profiles

- Precise bending results with high recovery pickup accuracy

- Smooth transitions from the even area into the bending zone

- Reduced ovality at highest bending speed

- Absolute position accuracy with high loads

- Low maintenance costs and tool set-up costs

- A total of six active patents

- Conformity with international standard requirements ISO 15590, ASME B16.49, GOST

Series Model SRBMI		250	500	600	800	1000	1200	1400	1600
Pipe Diameter min. – max.	mm	48 – 273	60 – 508	73 – 610	114 – 813	168 – 1.067	219 – 1.219	219 – 1.422	219 – 1.660
	Inch	1 ½ – 10	2 – 20	2 ½ – 24	4 – 32	6 – 42	8 – 48	8 – 56	8 – 64
Wall thickness min. – max.	mm	3 – 20	3 – 60	5 – 80	5 – 80	6,3 – 100	6,3 – 120	6,3 – 120	7,1 – 120
	Inch	0.12 – 0.80	0.12 – 2.40	0.20 – 3.20	0.20 – 3.20	0.25 – 4.00	0.25 – 4.70	0.25 – 4.70	0.28 – 4.70
Bending Radius max.	mm	1.250	2.500	4.500	4.500	5.100	6.000	7.100	10.000
	Feet	4.10	8.20	14.80	14.80	16.80	19.70	23.30	33.00
Bending Angle	° Degrees	1 – 183							
Feed force	kN	200 – 5.000							
Bending moment (torque)	kN·m	250 – 10.000							
Induction System Performance	kW	200 – 1.600							
Frequency	Hz	500 – 10.000							
Pipe length max.	m/ft	upto 18/59							
Approximate machine weight	ton	30	110	140	160	230	250	280	320
Bendable materials		Ferritic, austenitic and heat resistant steels, structural, fine grain and clad steels, duplex and super duplex steels							
		Equipment variants for the entire model range							
Pipe manipulation		✓	✓	✓	✓	✓	✓	✓	✓
Pre-ovalisation device		✓	✓	✓	✓	✓	✓	✓	✓
Pipe turning device for 3D bends		✓	✓	✓	✓	✓	✓	✓	✓
Heating of pipe bend tangents		✓	✓	✓	✓	✓	✓	✓	✓
Bending of rectangular pipes and profiles		✓	✓	✓	✓	✓	✓	✓	✓
Radius extension		On request	On request	✓	✓	✓	✓	✓	✓
Small lock / mini bending arm		–	–	✓	✓	✓	✓	✓	✓
AWS-Bend automated bending		✓	✓	✓	✓	✓	✓	✓	✓