



H&T ProduktionsTechnologie



Metal Bellow Machines

Product overview

Hydraulic Forming Bellow Machines

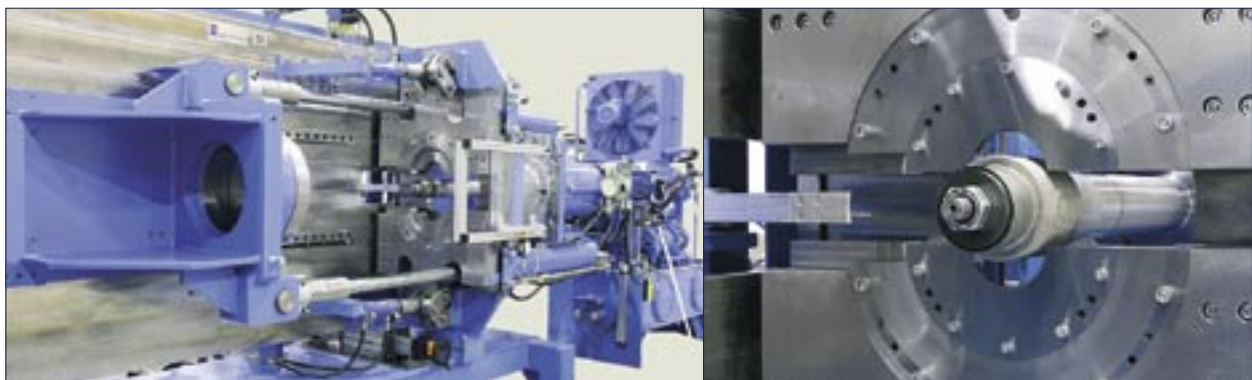


The metal bellows are made from straight tubes by means of an internal hydraulic pressure and a simultaneous compression. Modular tools or special tools for two chamber bellows are used as forming instrument.

Parameter		APMY 100 (spezial)	APMY 250	APMY (z)
Tube diameter	[mm]	14 – 100	80 – 250	30 – 50
Internal pressure	[bar]	200/(600)	200	600
Wall thickness	[mm]	0,5 - 0,8 (single- and multi-ply)	0,2 - 1,6 (single- and multi-ply)	0,7 (single-ply)
Max. tube length	[mm]	1000	1000	250
Pressing media		water + additive	water + additive	water + additive

(alternative configurations are also available)

Elastomer Forming Bellow Machines



This series of machines uses the manufacturing principle of single convolution forming. The pre-forming is carried out by an elastomer and the compression via a hydraulic driven ring.

Parameter		APME 120	APME 250
Tube diameter	[mm]	40 – 120	80 – 250
Wall thickness	[mm]	0,3 - 0,9 (single- and multi-ply)	0,3 - 1,2 (single- and multi-ply)
Max. tube length	[mm]	1000	1000

(alternative configurations are also available)

Expanding- and Profiling Machines



These are machines for the production of metal bellows used for expansion joints from tubes by the single convolution forming principle.

Any post-calibration of the convolutions can be made using of our profiling machines.

Parameter		EXPAN 500	EXPAN 1600
Tube diameter	[mm]	125 – 500	125 – 1600
Wall thickness	[mm]	1 x 0,3 – 6 x 1,0 (single- and multi-ply, depending on the tube diameter)	1 x 0,3 – 8 x 1,0 (single- and multi-ply, depending on the tube diameter)
Max. tube length	[mm]	1000	1200

(alternative configurations are also available)

Mechanical Roll Forming Machines



Mechanical Roll Forming Machines are used for the production of large diameter metal bellows from multiple welded tubes by the single convolution forming principle.

The operations of beading and roll-forming are performed sequentially with a tool change in between.

Parameter		SRF 5000
Tube diameter	[mm]	1250 – 5000
Wall thickness	[mm]	2 x 0,5 – 6 x 1,0
Max. tube length	[mm]	1000

(alternative configurations are also available)



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