

Your local contact is:

John Owen
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It will be my pleasure to assist you in all your tube manipulation processes



People who solve problems develop solutions and shape success

T BEND - MANDREL BENDING MACHINES

COMPACT AND VERY EFFICIENT.



The solution for tubes.



T BEND - MANDREL BENDING MACHINES FULL ELECTRIC WITH CNC-CONTROL



Compact and very efficient. Our fully hydraulic mandrel bending machine delivers outstanding bend quality and very simple handling, with PLC control for preselection and storage of bending angles via a touch panel.

With the appropriate tool, it is possible to bend rectangular or square tubes. The machine is equipped with a following pressure die and an internal tool locking system. Tight radii from 1.5xD with perfect bend quality can be achieved.

OUR PORTFOLIO OF MACHINES







Туре	DB 642-K	DB 2076-K	DB 20101-K
Range	1/4" - 1 5/8"	1/4" - 3"	1/4" - 4"
Max. capacity	1 5/8" x .191" (mild steel) 1 5/8" x .120" (stainless steel) 1" x .125" (Square section)	3" x .120" (mild steel) 3" x .072" (stainless steel) 2" x .191" (Square section)	4" x .134" (mild steel) 4" x .072" (stainless steel) 3 1/8" x .15" (Square section)
Max. Radii	4.1"	5.9"	9.8"
Usable length	5 ft 10 ft (standard) 15 ft 20 ft	5 ft 10 ft (standard) 15 ft 20 ft	10 ft (standard) 15 ft 20 ft
Speed of bending axis	13 °/sec.	10 °/sec.	11,5 °/sec.
Power bending axis	electro-hydraulic	electro-hydraulic	electro-hydraulic
Operating voltage	480 V - 60 Hz - 3 Ph 4 KW	480 V - 60 Hz - 3 Ph 4 KW	480 V - 60 Hz - 3 Ph 12 KW
Nominal pressure	250 bar, Operating pressure 200 bar	250 bar, Operating pressure 200 bar	250 bar, Operating pressure 200 bar
Length	172"	175"	197"
Width	35"	35"	55"
Height	61"	62"	59"
Weight approx.	1980 lb	2750 lb	8180 lb

BASIC EQUIPMENT:





BENDING TOOLS

Bending tools for tubes with already formed tube ends



HOLLOW SHAFT

Allows small-bend-radius tools.





FOLLOWING PRESSURE DIE

Following pressure die for bends up to 180° (for radii up to max. 2xD, for lager bending radii the pressure die can be repositioned to ensure a constant contact up to 180° bending angle).





PROGRAMMABLE LOGIC CONTROL

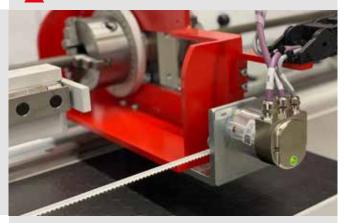
- for compact mandrel bending machines With Programmable Logic Control (PLC)
- Possibility to store up to 20 bend angles to be called up individually or in sequence via Touch Panel
- Angle selection 0,1°
- Permanent showing of theoretical and actual bend angles
- Display of spring back
- Display of bending sequence
- Changeable spring back factor, to switch on/off
 With memory capacity of 500 tubes with 20 different positions
 Incl. USB Interface to import and export data

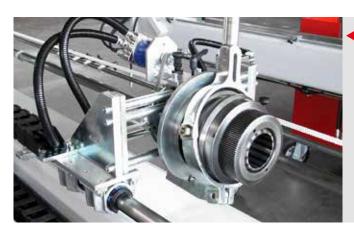




STANDARD COLLET CHUCK

- For 360° rotation by scale, with 4 adjustable stops
- With chuck clamp for all sizes up to 3"
- Inclusive length stop device with scale and 4 adjustable stops
- Usable length 20 ft





QUICK-ACTION CHUCK

For holding individual collets (optional)



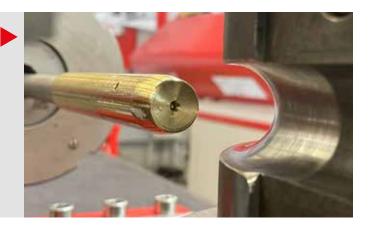
EQUIPMENT:

BENDING MANDRELS

Bending mandrels in different contours or materials.









WIPER DIE

Prevents the formation of wrinkles on the inside of the bend.



CONTROLLED MANDREL WITHDRAWAL

- Improves the visual quality of bend Variable adjustment from 0-20° Automatic return





OPTIONAL EQUIPMENT:

METAL-CUTTING SAW

- For tubes from 1/4" 1 5/8"
- For integration in transfluid bending machine DB 642 K

CARRIAGE FOR CUTTING RING PRE-ASSEMBLING & FLARING

- For tubes from 1/4" 1 5/8"
- For pre-assembling single and multi bite rings according to DIN 2353





MANDREL LUBRICATION

Lubrication via hand pump (Minimum tube inside diameter: 0.531")

DE-BURRING MACHINE

Capacity:

For tubes from 1/4" - 1 5/8"

Machine equipment-/basic accessories:

- de-burring tools
- De-burring heads easily sharpened and adjusted
- Internal de-burring tool with 3 HSS edges
- External de-burring tool with 1 HSS edge









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