



transfluid[®]
The solution for tubes.



The best result to
ensure the success
of your ideas.

Not only are our achievements shaping the market, they are also revolutionising metal forming. Always being better – thanks to the expertise of our staff. Always getting better – thanks to the ideas of our customers.

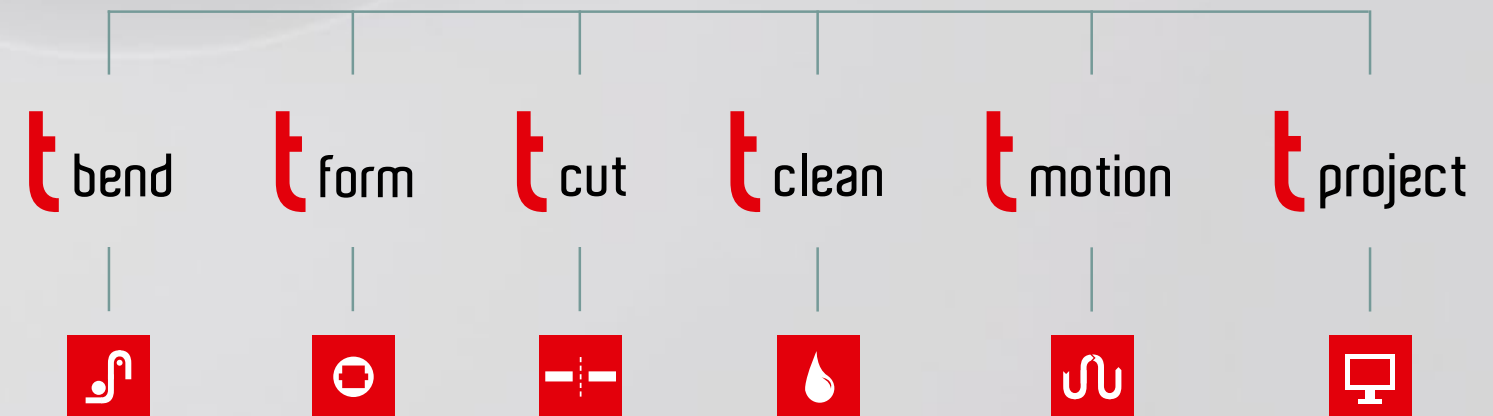
Your ideas are our challenge.



transfluid®
tube processing machines

You have an idea.

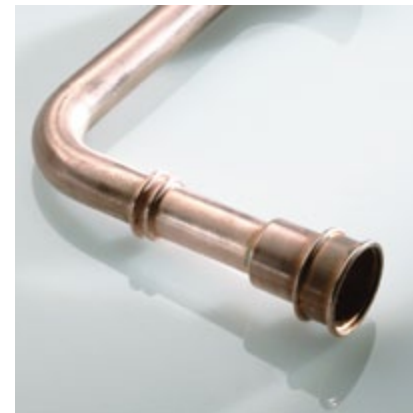
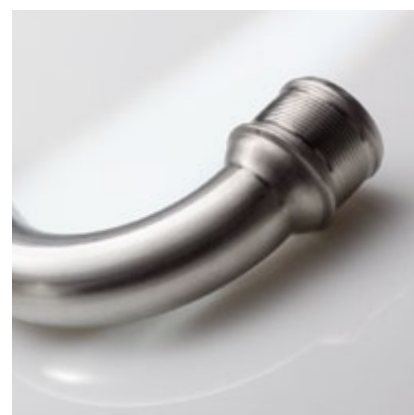
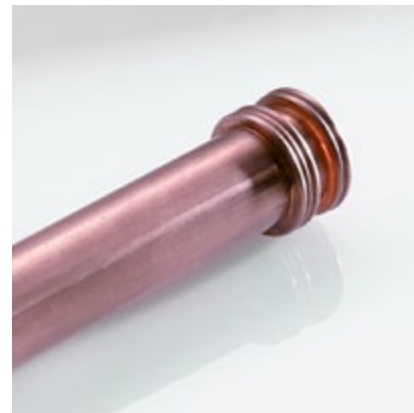
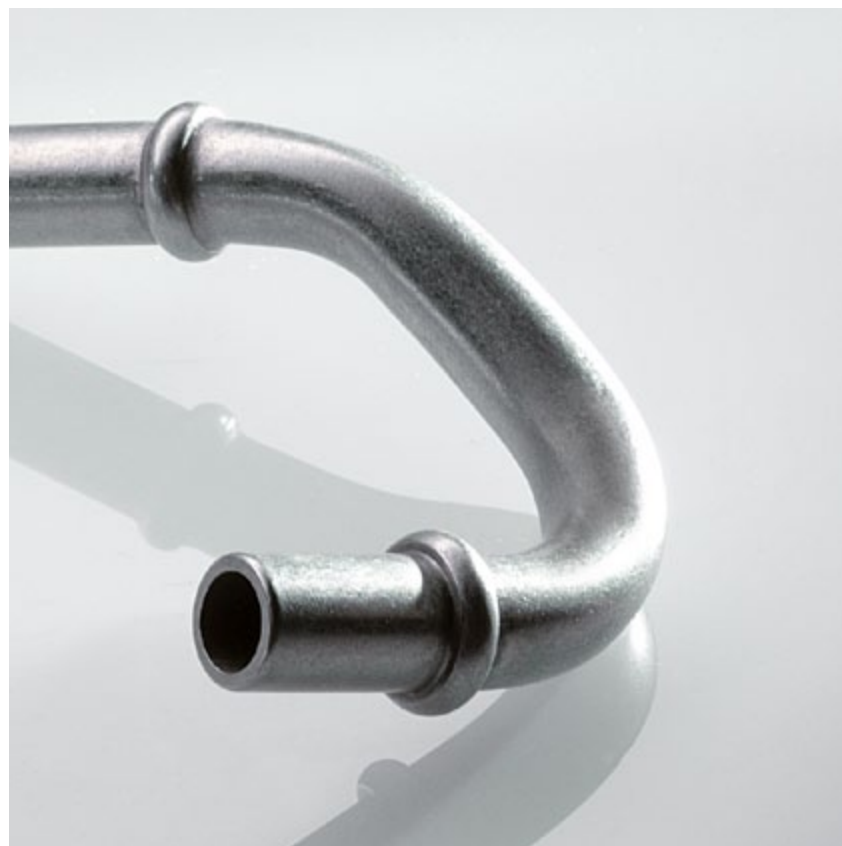
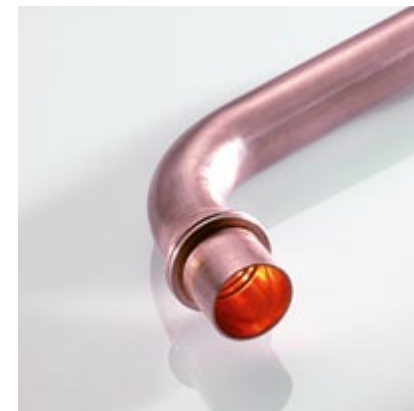
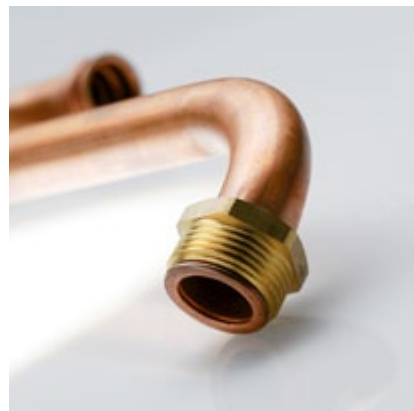
Find the machine you need
right here.



For the variety of your products.

Put your ideas into practice –
with transfluid®.

Individual solutions
for any challenge.



Tube bending machines

transfluid® tube bending technology:

For tube bending
without limits.



DB 2090-CNC-SE

Servo-electrical driven mandrel bending machine
with four stack dies up to 90 mm tube diameter





Mobile bending machines

MB 642	6–42 mm Ø
MB 2060	6–60 mm Ø
MB 3080	30–80 mm Ø
MB 30115	30–115 mm Ø
MB 30168	30–168 mm Ø

Uncompromising, versatile and simply good: Whether you need a pure bending machine or the MB 642 with optional functionality for pipefitting on site Internal or external deburring, assembly unit for all conventional connection systems (cutting rings, flaring connections, etc.), also circular metal saw.

Any integrated or add-on equipment is also available as stand-alone device.



Fitted cutting ring and flaring connection system



MB 642

Mobile bending machine with integrated tube deburring and cutting ring pre-assembly system



Compact mandrel bending machines

DB 642K	6–42 mm Ø
DB 2060K	20–60 mm Ø
DB 2076K	20–76 mm Ø
DB 20101K	20–101 mm Ø

Compact, powerful, economical: Our fully hydraulic mandrel bending machine offers excellent bend quality and is very easy to operate. Optionally with hydraulic saw, deburrer and cutting ring pre-assembly.



Off set bend device



With optional hydraulic saw

Equipment options:

- » Radii from 1.5 x to 2.5 x D
- » load lengths from 1 500 to 6 000 mm
- » digital angle pre-selection of up to eight bending angles



DB 642 K

With integrated hydraulic saw, tube deburrer and cutting ring pre-assembly





Stationary mandrel bending machines

DB 630ST	6–30 mm Ø
DB 650ST	6–50 mm Ø
DB 2076ST	20–76 mm Ø
DB 2090ST	20–90 mm Ø

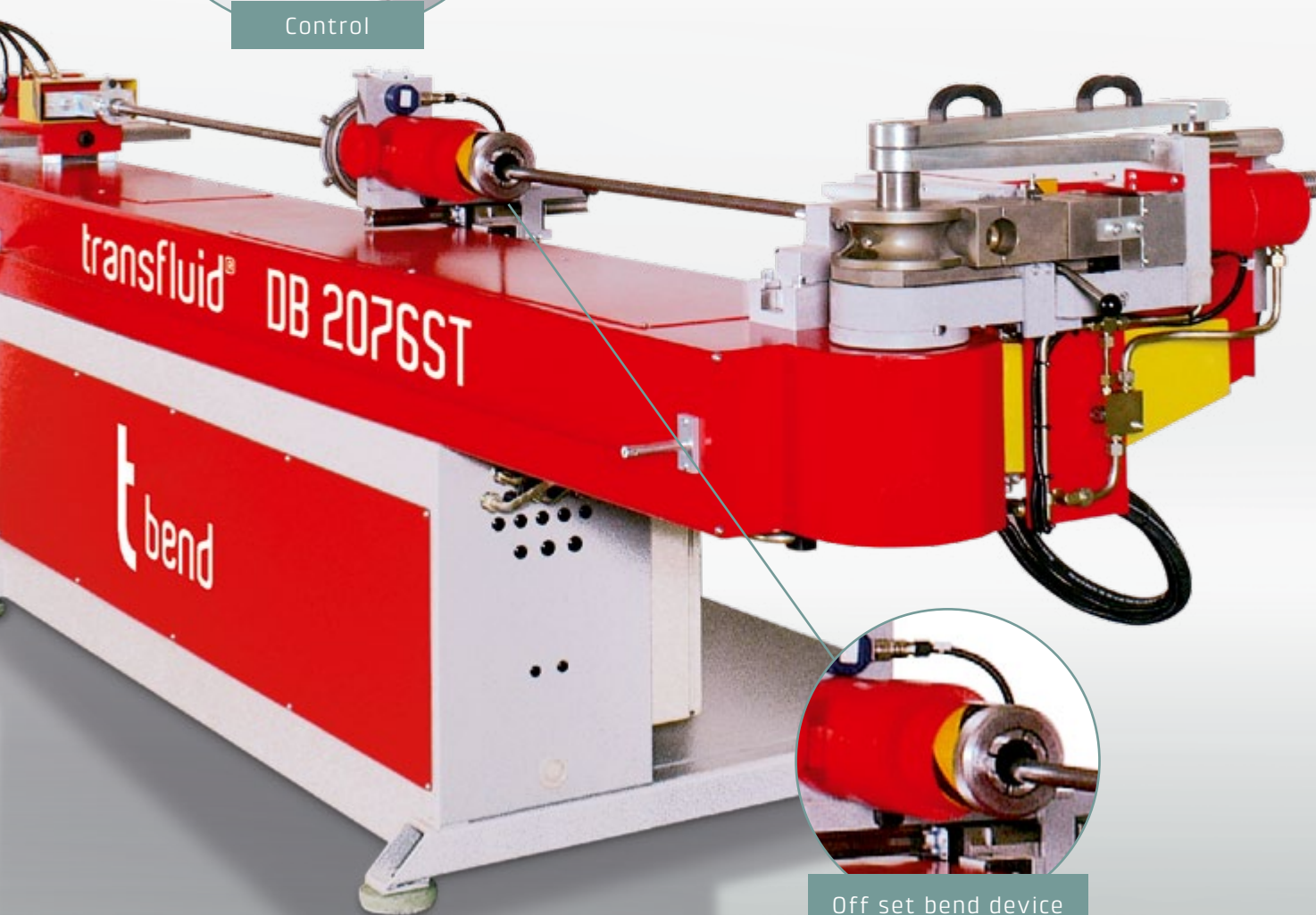
Simple and powerful for impressive bending results: Our semi-automatic bending machines for small and medium series production allow bending without limitations. With accessories to suit your requirements.

Equipment options:

- » Radii from 1.5 x to 2.5 x D
- » load lengths from 3.000 to 6.000 mm
- » angle pre-selectable via touch panel
- » input data saving
- » off set bend device
- » digital displays



Control



Off set bend device



DB 2076ST

Semi-automatic mandrel bending machine for tube diameters up to 76 mm





Fully automatic CNC controlled mandrel bending machine



CNC control operator panel



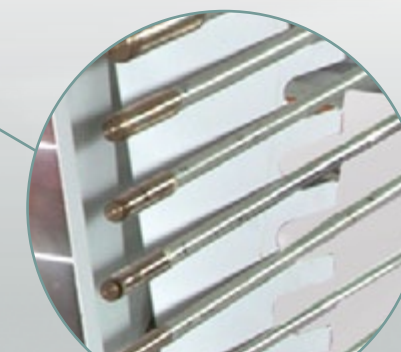
Accurate, powerful and fast, with easy to operate and freely programmable CNC touch panel control. The compact, state of the art design of our transfluid® CNC bending machines offers you unlimited freedom of bending. Extremely short set up times offer maximum flexibility. Fully or partially electrically powered, these machines meet the most exacting demands.

Individual customisation creates optimal benefit for top results.

Equipment options:

- » multiple bending levels
- » push bending
- » centerline booster
- » automatic loading,
seam detection and positioning

DB 415-CNC	4–15 mm Ø	partially / fully electrical
DB 622-CNC	6–22 mm Ø	partially / fully electrical
DB 630-CNC	6–30 mm Ø	partially / fully electrical
DB 642-CNC	6–42 mm Ø	partially / fully electrical
DB 2060-CNC	20–60 mm Ø	partially / fully electrical
DB 2090-CNC	20–90 mm Ø	partially / fully electrical



Mandrel rack (add-on equipment)

» DB 2060-CNC-UE

Fully electrically powered machine for tube diameters up to 60 mm



CNC mandrel bending machines for large tube diameters

These machines are for large diameter tubes, providing impressive stability and power.

Tubes made of all types of material, with thin or thick walls and with radii of 1.5 x pipe diameter or smaller may be accurately processed. This is made possible by sophisticated machine and control technology. Extremely short set-up times – less than 10 minutes – improve both flexibility and economy.

DB 40120-CNC	20–120 mm Ø	partially / fully electrical
DB 40139-CNC	40–140 mm Ø	partially electrical
DB 40168-CNC	40–168 mm Ø	partially electrical
DB 40220-CNC	40–220 mm Ø	partially electrical
DB 60275-CNC	60–275 mm Ø	partially electrical
DB 80330-CNC	80–325 mm Ø	partially electrical



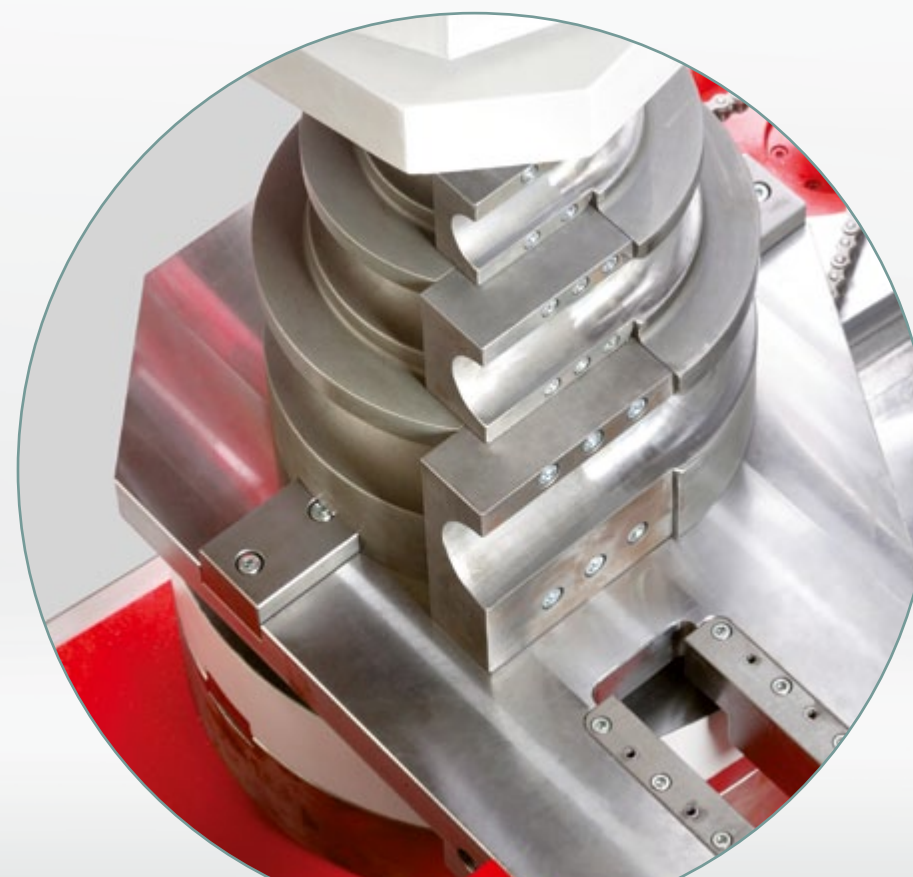
DB 40220-3A-CNC

Mandrel bending machines for tubes up to 220 mm, both thin walled and for wall thicknesses up to 20 mm, with very simple tool changing system



Equipment options for all transfluid® CNC pipe bending machines

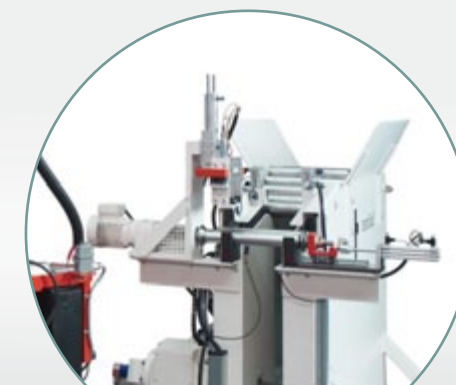
A centreline booster ensures minimum wall thinning and short clamping lengths. Flange connections may be welded onto the pipe prior to bending. This translates to extreme efficiency improvements. Automatic retooling systems offer optimised and tailored bending processes.



Multi-level bending



Automatic tool changer








Automatic loading, with seam detection



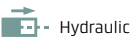


Mobile bending machines

Machine model	MB 642	MB 2060	MB 3080	MB 30115	MB 30168
Max. capacity steel tube St 37 (mm)	38 x 6 / 42 x 4	60,3 x 15	88,9 x 20	115 x 20	168 x 20
Max. capacity stainless steel tube St 52 (mm)	38 x 5 / 42 x 3	60,3 x 12,5	88,9 x 15	115 x 15	168 x 15
Max. radius (mm)	between 2xD and 3xD	between 2xD and 3,5xD	between 2xD and 3,5xD	between 2xD and 3,5xD	between 2xD and 4xD
Power (kW)	2	3	5	7	7,5
Weight (kg)	85	350	1000	2000	3500
L x W x H (mm)	850 x 500 x 1100	1000 x 1000 x 1200	1800 x 1350 x 1200	2000 x 2000 x 1100	3600 x 2250 x 1500
Bending direction	max. 150°	max. 150°	max. 150°	max. 150°	max. 150°
Bending drive					
Available equipment options					
Tube deburrer	✓	✗	✗	✗	✗
Cutting ring pre-assembly	✓	✗	✗	✗	✗
37° flares	✓	✗	✗	✗	✗
Saw	✓	✗	✗	✗	✗

Assembly equipment

Machine model	HA 642	RE 642	RE 2060
Max. capacity steel tube (mm)	6–42	6–42	20–60
Steel pipe	1/4–1 1/4"	1/4–1 1/4"	1/2"–2"
Power (kW)	1,1	0,55	0,75
Weight (kg)	75	28	40
L x W x H (mm)	650 x 450 x 500	300 x 400 x 250	500 x 600 x 300
Available equipment options			
cutting ring pre-assembly system	✓	✗	✗
37° flares	✓	✗	✗















Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.

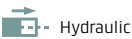


Compact mandrel bending machines

Machine model	DB 642 K	DB 2060 K	DB 2076 K	DB 20101 K
Max. capacity steel tube (mm)	42 x 5,0	60 x 6,0	76,1 x 3,0	101,6 x 3,5
Max. capacity stainless steel tube (mm)	42 x 3,0	60 x 4,0	76,1 x 2,0	101,6 x 2,0
Steel pipe	1 1/4" SCH 80	2" SCH 80	2 1/2" SCH 10	3 1/2" SCH 10
Square section (mm)	25 x 3,2	50 x 4,0	50 x 5,0	80 x 4,0
Rectangular (mm) – bending axis A	35 x 25 x 3,2	40 x 60 x 2,0	40 x 60 x 3,0	60 x 80 x 5,0
Rectangular (mm) – bending axis B	25 x 35 x 3,2	60 x 40 x 2,0	60 x 40 x 3,0	80 x 60 x 5,0
Max. radius (mm)	85	150	150	205
Section modulus (cm³)	4,8	12,1	12,1	26,2
Usable length (mm)	3048	3048	3048	3048
Extension usable length (mm)	4572/6096	4572/6096	4572/6096	4572/6096
Bending speed (°/sec.)	13	10	10	10
Bending axis repeatability (°)	+/-0,1	+/-0,1	+/-0,1	+/-0,1
Power (kW)	3	3	3	8
Weight (kg)	1000	1250	1250	3700
L x W x H (mm)	4380 x 900 x 1550	4450 x 900 x 1580	4450 x 900 x 1580	5000 x 1400 x 1500
Bending direction				
Bending drive				
Ancillary axes drive				
Available equipment options				
Off-set bend device	✓	✓	✓	✓
Length stop	✓	✓	✓	✓
Digital display of the length and rotation	✓	✓	✓	✓
Usable length extension	✓	✓	✓	✓
Controlled mandrel with drawal	✓	✓	✓	✓
Mandrel lubrication	✓	✓	✓	✓
Following pressure die	✗	✗	✓	✓
Radius extension	✗	✗	✗	✗



Right



Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.





Stationary mandrel bending machines

Machine model	DB 630 ST	DB 650 ST	DB 2076 ST	DB 2090 ST
Max. capacity steel tube (mm)	30 x 2,0	50 x 3,0	76,1 x 3,0	88,9 x 5,0
Max. capacity stainless steel tube (mm)	30 x 1,5	50 x 2,0	76,1 x 2,0	88,9 x 3,0
Steel pipe	3/4" SCH 10	1 1/2" SCH 10	2 1/2" SCH 10	2 1/2" SCH 40
Square section (mm)	20 x 2,5	35 x 2,5	60 x 2,5	75 x 3,0
Rectangular (mm) – bending axis A	25 x 30 x 2,5	25 x 40 x 2,0	60 x 40 x 3,5	75 x 50 x 4,0
Rectangular (mm) – bending axis B	30 x 25 x 2,5	40 x 25 x 2,0	40 x 60 x 3,5	50 x 75 x 4,0
Max. radius (mm)	75	125	190	225
Section modulus (cm³)	1,2	5	12,1	26,2
Usable length (mm)	4572	4572	4572	4572
Extension usable length (mm)	6096	6096	6096	6096
Bending speed (°/sec.)	42	36	29	18
Bending axis repeatability (°)	+/-0,1	+/-0,1	+/-0,1	+/-0,1
Power (kW)	4	9	11	19
Weight (kg)	2000	2300	3950	6000
L x W x H (mm)	6300 x 1400 x 1300	6300 x 1400 x 1350	7000 x 1700 x 1500	7300 x 2000 x 1500
Bending direction				
Bending drive				
Ancillary axes drive				
Available equipment options				
Off-set bend device	✓	✓	✓	✓
Length stop	✓	✓	✓	✓
Digital display of the length and rotation	✓	✓	✓	✓
Usable length extension	✓	✓	✓	✓
Controlled mandrel withdrawal	✓	✓	✓	✓
Mandrel lubrication	✓	✓	✓	✓
Following pressure die	✓	✓	✓	✓
Radius extension	✓	✓	✓	✓

Right or left

Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.



Fully automatic CNC controlled mandrel bending machine

Maschinen-Typ	DB 415-CNC	DB 415-CNC-VE	DB 415-CNC-R/L	DB 622-CNC	DB 622-CNC-VE	DB 622-CNC-R/L
Max. capacity steel tube (mm)	15 x 1,5	15 x 1,5	15 x 1,5	22 x 2,0	22 x 2,0	22 x 2,0
Max. capacity stainless steel tube (mm)	15 x 1,0	15 x 1,0	15 x 1,0	22 x 1,5	22 x 1,5	22 x 1,5
Steel pipe	1/4" SCH 10	1/4" SCH 10	1/4" SCH 10	1/2" SCH 10	1/2" SCH 10	1/2" SCH 10
Square section (mm)	10 x 1,5	10 x 1,5	10 x 1,5	16 x 1,5	16 x 1,5	16 x 1,5
Max. radius (mm)	40	40	40	55	55	55
Section modulus (cm³)	0,2	0,2	0,2	0,5	0,5	0,5
Usable length (mm)	2000	2000	2000	2000	2000	2000
Extension usable length (mm)	3000	3000	3000	3048	3048	3048
Bending speed (°/sec.)	480	480	480	300	300	300
Speed of front feed (mm/sec.)	2000	2000	2000	1800	1800	1800
Speed of rotation (°/sec.)	650	650	650	600	600	600
Bending axis repeatability (°)	+/-0,05	+/-0,05	+/-0,05	+/-0,05	+/-0,05	+/-0,05
Longitudinal repeatability (mm)	+/-0,05	+/-0,05	+/-0,05	+/-0,05	+/-0,05	+/-0,05
Rotational repeatability (°)	+/-0,05	+/-0,05	+/-0,05	+/-0,05	+/-0,05	+/-0,05
Power (kW)	6	6	6	13	13	13
Weight (kg)	1500	1500	1500	2100	2100	3000
L x W x H (mm)	3375 x 1200 x 1450	3375 x 1200 x 1450	3800 x 1400 x 2200	4200 x 1200 x 1500	4200 x 1200 x 1500	3900 x 1600 x 2200
Bending direction						
Bending drive						
Ancillary axes drive						
Available equipment options						
Radii changer/changing height (mm) 2-level/3-level	25 / 45	25 / 45	25 / 45	40 / 80	40 / 80	40 / 80
Automatic loading	✓	✓	✓	✓	✓	✓
Push bending device	✗	✗	✗	✗	✗	✗
Booster	✗	✗	✗	✗	✗	✗

Right and left

Right or left

Electric
 Pneumatic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.





Fully automatic CNC controlled mandrel bending machine

Machine model	DB 630-3A-CNC	DB 630-CNC	DB 630-CNC-VE	DB 630-CNC-R/L
Max. capacity steel tube (mm)	30 x 2,0	30 x 2,0	30 x 2,0	30 x 2,0
Max. capacity stainless steel tube (mm)	30 x 1,5	30 x 1,5	30 x 1,5	30 x 1,5
Steel pipe	3/4" SCH 40	3/4" SCH 40	3/4" SCH 40	3/4" SCH 40
Square section (mm)	20 x 2,5	20 x 2,5	20 x 2,5	20 x 2,5
Max. radius (mm)	85	85	85	85
Section modulus (cm³)	1,2	1,2	1,2	1,2
Usable length (mm)	3048	3048	3048	3048
Extension usable length (mm)	4572 / 6096	4572 / 6096	4572 / 6096	4572 / 6096
Bending speed (°/sec.)	65	275	275	275
Speed of front feed (mm/sec.)	400	1800	1800	1800
Speed of rotation (°/sec.)	90	550	550	550
Bending repeatability (°)	+/-0,2	+/-0,05	+/-0,05	+/-0,05
Longitudinal repeatability (mm)	+/-0,1	+/-0,05	+/-0,05	+/-0,05
Rotational repeatability (°)	+/-0,1	+/-0,05	+/-0,05	+/-0,05
Power (kW)	10	22	22	22
Weight (kg)	2600	2600	2600	4500
L x W x H (mm)	4700 x 1400 x 1500	5000 x 1200 x 1450	5000 x 1200 x 1450	5200 x 1500 x 2200
Bending direction				
Bending drive				
Ancillary axes drive				

Available equipment options				
Radii changer/changing height (mm) 2-level/3-level	✗	60/120	60/120	60/120
Automatic loading	✗	✓	✓	✓
Push bending device	✗	✓	✓	✓
Booster	✗	✗	✗	✗

Right and left
 Right or left

Electric
 Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.



Fully automatic CNC controlled mandrel bending machine

Machine model	DB 642-3A-CNC	DB 642-CNC	DB 642-CNC-VE	DB 642-CNC-R/L
Max. capacity steel tube (mm)	42 x 4,0	42 x 3,0	42 x 3,0	42 x 3,0
Max. capacity stainless steel tube (mm)	42 x 3,0	42 x 1,5	42 x 1,5	42 x 1,5
Steel pipe	1 1/4" SCH 40	1 1/4" SCH 10	1 1/4" SCH 10	1 1/4" SCH 10
Square section (mm)	25 x 2,5	25 x 2,5	25 x 2,5	25 x 2,5
Max. radius (mm)	105	105	105	105
Section modulus (cm³)	4,25	3,4	3,4	3,4
Usable length (mm)	4572	4572	4572	4572
Extension usable length (mm)	6096	6096	6096	6096
Bending speed (°/sec.)	75	180	180	180
Speed of front feed (mm/sec.)	400	1600	1600	1600
Speed of rotation (°/sec.)	90	450	450	450
Bending axis repeatability (°)	+/-0,2	+/-0,05	+/-0,05	+/-0,05
Longitudinal repeatability (mm)	+/-0,3	+/-0,05	+/-0,05	+/-0,05
Rotational repeatability (°)	+/-0,2	+/-0,05	+/-0,05	+/-0,05
Power (kW)	14	30	30-35	30-35
Weight (kg)	3700	3500	3500	4500
L x W x H (mm)	6500 x 1400 x 1 500	6600 x 1200 x 1500	6600 x 1200 x 1500	7000 x 1600 x 2200
Bending direction				
Bending drive				
Ancillary axes drive				

Available equipment options				
Radii changer/changing height (mm) 2-level/3-level	✗	60/120	60/120	60/120
Automatic loading	✗	✓	✓	✓
Push bending device	✗	✓	✓	✓
Booster	✗	✓	✓	✓

Right and left
 Right or left

Electric
 Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.





Fully automatic CNC controlled mandrel bending machine

Machine model	DB 2060-3A-CNC	DB 2060-CNC	DB 2060-CNC-VE	DB 2060-CNC-R/L
Max. capacity steel tube (mm)	60,3 x 5,0	60,3 x 3,9	60,3 x 3,9	60,3 x 3,9
Max. capacity stainless steel tube (mm)	60,3 x 3,0	60,3 x 2,7	60,3 x 2,7	60,3 x 2,7
Steel pipe SCH 40	2" SCH 40	2" SCH 40	2" SCH 40	2" SCH 40
Square section (mm)	40 x 3,0	40 x 3,0	40 x 3,0	40 x 3,0
Max. radius (mm)	150	150	150	150
Section modulus (cm³)	11,3	9,3	9,3	9,3
Usable length (mm)	4572	4572	4572	4572
Extension usable length (mm)	6096	6096	6096	6096
Bending speed (°/sec.)	35	100	100	100
Speed of front feed (mm/sec.)	400	1400	1400	1400
Speed of rotation (°/sec.)	60	350	350	350
Bending axis repeatability (°)	+/-0,2	+/-0,1	+/-0,1	+/-0,1
Longitudinal repeatability (mm)	+/-0,3	+/-0,1	+/-0,1	+/-0,1
Rotational repeatability (°)	+/-0,2	+/-0,1	+/-0,1	+/-0,1
Power (kW)	20	30–35	30–35	30–35
Weight (kg)	5300	6000	7600	9100
L x W x H (mm)	7000 x 1700 x 1500	7000 x 1800 x 1500	9700 x 1600 x 1800	9700 x 1600 x1 800
Bending direction				
Bending drive				
Ancillary axes drive				
Available equipment options				
Radii changer/changing height (mm) 2-level/3-level		80/160	80/160	80/160
Automatic loading				
Push bending device				
Booster				

Right and left

Right or left

Electric
 Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.



Fully automatic CNC controlled mandrel bending machine

Maschinen-Typ	DB 2090-3A-CNC	DB 2090-CNC	DB 2090-CNC-VE
Max. capacity steel tube (mm)	88,9 x 5,0	88,9 x 3,05	88,9 x 3,05
Max. capacity stainless steel tube (mm)	88,9 x 2,0	88,9 x 2,11	88,9 x 2,11
Steel pipe	3" SCH 10	3" SCH 10	3" SCH 10
Square section (mm)	50 x 2,5	50 x 2,5	50 x 2,5
Max. radius (mm)	225	225	225
Section modulus (cm³)	26,7	17,4	17,4
Usable length (mm)	4572	4572	4572
Extension usable length (mm)	6096	6096	6096
Bending speed (°/sec.)	21	80	80
Speed of front feed (mm/sec.)	300	1000	1000
Speed of rotation (°/sec.)	45	250	250
Bending axis repeatability (°)	+/-0,2	+/-0,1	+/-0,1
Longitudinal repeatability (mm)	+/-0,3	+/-0,1	+/-0,1
Rotational repeatability (°)	+/-0,2	+/-0,1	+/-0,1
Power (kW)	25	35	35
Weight (kg)	6200	7400	8500
L x W x H (mm)	7300 x 1700 x 1500	7000 x 1800 x 1500	9700 x 1700 x 1600
Bending direction			
Bending drive			
Ancillary axes drive			
Available equipment options			
Radii changer/changing height (mm) 2-level/3-level		90/180	90/180
Automatic loading			
Push bending device			
Booster			

Right and left

Right or left

Electric
 Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.





CNC mandrel bending machines for large tube diameters

Machine model	DB 40120-3A-CNC	DB 40120-CNC	DB 40120-CNC-VE	DB 40139-3A-CNC
Max. capacity steel tube (mm)	120 x 4,0	120 x 4,0	120 x 4,0	140 x 6,0
Max. capacity stainless steel tube (mm)	120 x 3,0	120 x 3,0	120 x 3,0	140 x 4,0
Steel pipe SCH 10	4" SCH 10	4" SCH 10	4" SCH 10	5" SCH 40
Square section (mm)	...	...	...	...
Max. radius (mm)	300	300	300	350
Section modulus (cm³)	41,7	41,7	41,7	82,6
Usable length (mm)	6096	6096	6096	6096
Extension usable length (mm)	...	...	...	...
Bending speed (°/sec.)	15	30	30	10°
Speed of front feed (mm/sec.)	300	800	800	300
Speed of rotation (°/sec.)	45	75	75	40
Bending axis repeatability (°)	+/-0,2	+/-0,1	+/-0,1	+/-0,2
Longitudinal repeatability (mm)	+/-0,5	+/-0,1	+/-0,1	+/-0,5
Rotational repeatability (°)	+/-0,2	+/-0,1	+/-0,1	+/-0,2
Power (kW)	40	45	45	40
Weight (kg)	14200	14200	14200	17200
L x W x H (mm)	8900 x 2300 x 1800	9000 x 2200 x 1850	9000 x 2200 x 1850	8900 x 2600 x 1900
Bending direction	↺ | ↻	↺ | ↻	↺ | ↻	↺ | ↻
Bending drive	🔧	🔧	⚡	🔧
Ancillary axes drive	🔧	🔧	⚡	🔧
Available equipment options				
Radii changer/changing height (mm) 2-level/3-level	...	180 / 360	180 / 360	...
Automatic loading	✗	✓	✓	✗
Push bending device	✗	✓	✓	✗
Booster	...	✓	✓	...

... On request
↺ | ↻ Right or left

⚡ Electric
🔧 Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.



CNC mandrel bending machines for large tube diameters

Machine model	DB 40168-3A-CNC	DB 40220-3A-CNC	DB 60273-3A-CNC	DB 80330-3A-CNC
Max. capacity steel tube (mm)	170 x 8,0	220 x 12,0	273 x 16,0	325 x 20,0
Max. capacity stainless steel tube (mm)	170 x 6,0	220 x 10,0	273 x 14,0	325 x 18,0
Steel pipe SCH 10	6" SCH 40	8" SCH 80	10" SCH 80	12" SCH 80
Square section (mm)	...	...	...	...
Max. radius (mm)	425	700	820	950
Section modulus (cm³)	160,4	394	799	1402,8
Usable length (mm)	6096	6096	6096	6096
Extension usable length (mm)	...	...	...	...
Bending speed (°/sec.)	7	5	3	2
Bending speed (°/sec.)	300	300	250	200
Speed of rotation (°/sec.)	40	20	20	15
Bending axis repeatability (°)	+/-0,2	+/-0,3	+/-0,3	+/-0,3
Longitudinal repeatability (mm)	+/-0,5	+/-0,5	+/-0,5	+/-0,5
Rotational repeatability (°)	+/-0,2	+/-0,3	+/-0,3	+/-0,3
Power (kW)	60	85	90	90
Weight (kg)	23200	38700	55200	68000
L x W x H (mm)	9500 x 3000 x 2100	10500 x 4750 x 2400	11200 x 5400 x 2450	12300 x 6100 x 2450
Bending direction	↺ | ↻	↺ | ↻	↺ | ↻	↺ | ↻
Bending drive	🔧	🔧	🔧	🔧
Ancillary axes drive	🔧	🔧	🔧	🔧
Available equipment options				
Radii changer/changing height (mm) 2-level/3-level	...	...	...	...
Automatic loading	✗	✗	✗	✗
Push bending device	✗	✗	✗	✗
Booster	...	...	...	...

... On request
↺ | ↻ Right or left

🔧 Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.



We are partners.

We will help you bend your idea
into its proper shape.

Our work is to give and take. Our partnership with our staff and suppliers is what drives us. And our customers. Your ideas are our challenges. We can offer in return: Our knowledge of technologies enabling solutions and a future.

We are progress.

We think ahead. That is what drives
our customers forward.

Innovation is our life, since progress is impossible without. As a technology leader, our passion and consummate objective is innovation.

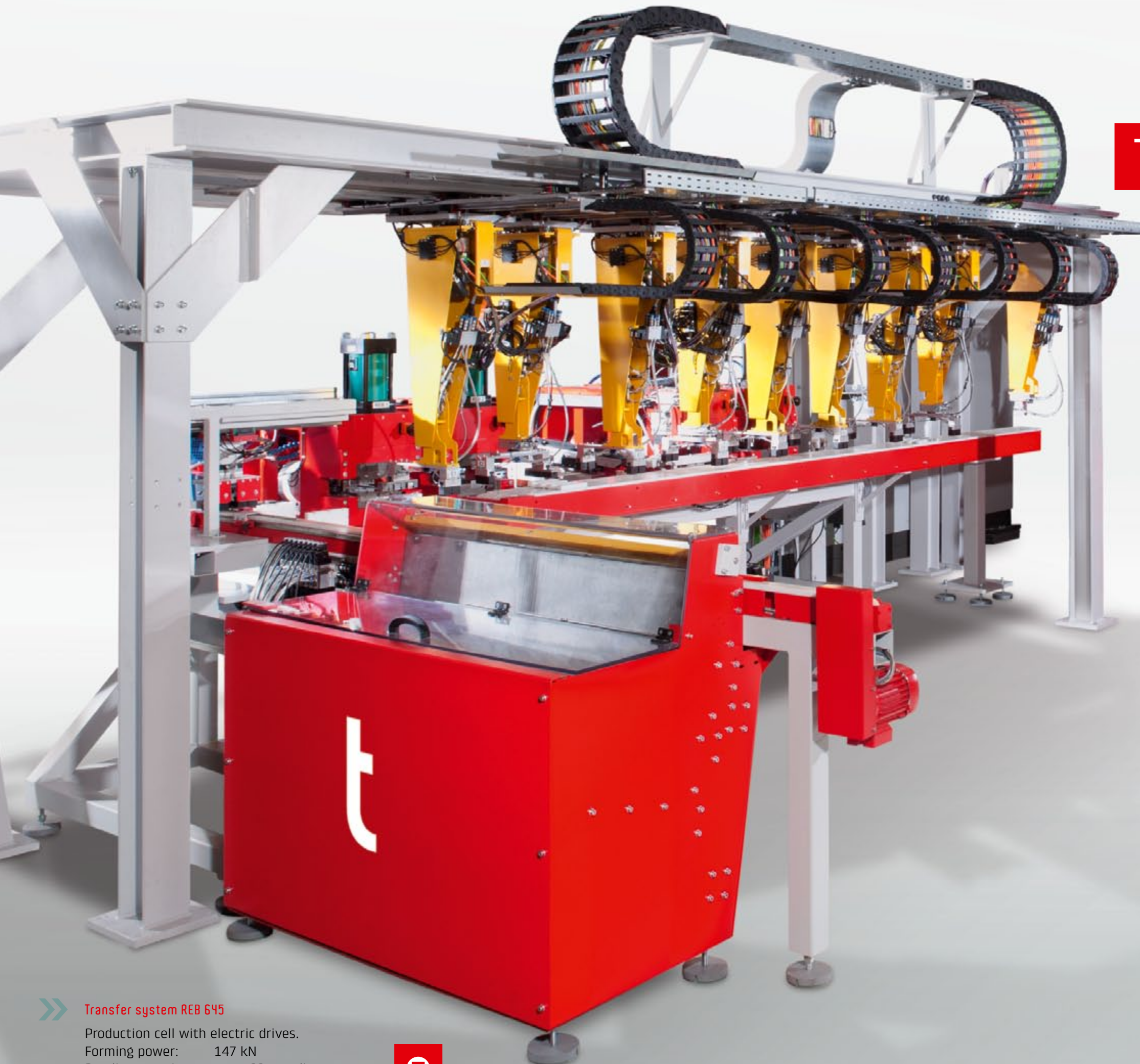
To further your objectives.



Tube forming machines

transfluid® forming technology:

Where shape is a question
of standards.



Transfer system REB 645

Production cell with electric drives.

Forming power: 147 kN

Bending capacity: up to 22 mm diameter

Cycle time: 4 seconds





Axial forming machines

Accurate, fast and versatile: our type REB axial forming machines. They offer extreme forming, complex geometries and fast tool changing. A servo motor positions the tools in sequence horizontally or vertically. Almost all demands may be met with up to six forming stages and additionally clamping unit. Rotary forming stations may be integrated for specific forming tasks.

Operation is via a touch panel with integrated data storage. Machine parameters and specific processing sequences may be managed here. transfluid® can also optionally equip these machines with electrical or hydraulic NC drives. For extremely short cycling times, these forming processes may also be performed step by step in transfer systems.

REB 420	4–20 mm Ø	Forming power 64 kN
REB 632	6–32 mm Ø	Forming power 98 kN
REB 645	6–45 mm Ø	Forming power 147 kN
REB 660	6–60 mm Ø	Forming power 240 kN
Customised		Forming power up to 1.300 kN



» **REB 632-SRM**
Detail view of an axial forming machine with four forming stages and additional clamping unit.



Rotary forming machines Type SRM

Our rolling technology offers you completely new forming options. The method is particularly well suited for the creation of contours with sharp edges for sealing elements and for perfect surfaces. All the drives in these machines are servo-electric and with

CNC control if required. This allows forming independent of tooling. All the parameters and settings are stored. This eliminates elaborate adjustments, saving you time. The machines are capable of forming outside to inside or vice versa, inside to outside.

SRM 622	4–22 mm Ø
SRM 1550	15–50 mm Ø
SRM 40115	40–115 mm Ø
SRM 50176	50–176 mm Ø



Rolling head



Rotary formed hose connection

» **SRM 622**
Bead rolling machine for tubes up to 22 mm





Rotary forming machines Type UMR

UMR 628	6 – 28 mm
UMR 642	6 – 42 mm
UMR 30115	30 – 115 mm
UMR 40220	40 – 220 mm
UMR 60325	60 – 325 mm

This machine will create a perfect sealing surface on flares between 20° and 90° and clamping lengths of approx. 1 x D. Flares up to 90° are produced in a single work step. Tool changing is extremely quick. Given the appropriate tools, the machine can also close pipe ends.

The forming machine for pipe diameters up to 325 mm can work almost independent of tooling, based on a free programmable controlled forming cone.

» Perfect quality flange connections are simple to produce with these machines.



» **UMR 60325**
Forming machine for the production of flares up to 90°



Combination machines

To meet your individual requirements, we can combine different advantages of our processing methods, especially axial and rotary forming. We can offer both either in the same machine or as a transfer plant carrying out the processes in sequence.



Tool magazine with forming tools and rotary forming unit

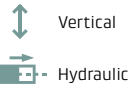


» **REB 645-5 SRM 622**
Combination machine with five axial forming stages and a rotary forming unit



Axial forming machines

Machine model	REB 420	REB 632	REB 645	REB 660
Max. capacity steel tube (mm)	20	32	45	60
Forming force (kN)	64	98	147	240
Forming length (mm)	60	80	90	180
Clamping force (kN)	64	98	147	240
Clamping force of additional clamping unit (kN)	39	64	98	147
Clamping length	80	150	180	200
Clamping	↕	↕	↕	↕
Cycle time of basic machine (sec.)	3	4	6	9
Cycle time for each additional stage (sec.)	2	3	4	5
Cycle time for additional clamping unit (sec.)	3	3	4	5
Power (kW)	5,5	7,5	10	15
Weight (kg)	1000	1500	2200	3200
L x W x H (mm)	2200 x 1410 x 1900	2300 x 2000 x 1900	2500 x 2200 x 2000	2500 x 3000 x 2000
Drive				
Available equipment options				
Drive	⚡	⚡	⚡	✖
Additional forming stages	✓	✓	✓	✓
Automatic starting function	✓	✓	✓	✓
Safety cover	✓	✓	✓	✓
Micro lubrication system	✓	✓	✓	✓



⚡ Electric

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.



Rotary forming machines Type SRM

Machine model	SRM 622	SRM 1550	SRM 401115	SRM 50176
Max. capacity steel tube (mm)	4–22	15–50	40–115	50–176
Max. wall thickness (mm)	1	1,5	2	3
Steel pipe	3/16–1/2"	5/8–1 1/2"	1 3/4–4"	6"
RPM	300–1000	100–500	80–280	60–180
Cycle time adjustable (sec.)	4–10	8–14	15–50	15–60
Forming length (mm)	40	80	100	120
Clamping length	1,0 x D	1,0 x D	1,0 x D	1,0 x D
Clamping	↕	↕	↕	↕
Power (kW)	8	10	14	22
Weight (kg)	1100	2200	5500	8200
L x W x H (mm)	1700 x 900 x 1800	2300 x 1000 x 2000	2400 x 1200 x 1800	3150 x 1500 x 1800
Available equipment options				
CNC control	✓	✖	✖	✖
Automatic starting function	✓	✓	✓	✓
Safety cover	✓	✓	✓	✓
Circulating lubrication	✓	✓	✓	✓
Micro lubrication system	✓	✓	✓	✓

↕ Vertical

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.





Rotary forming machines

Type UMR

Machine model	UMR 628	UMR 642	UMR 30115	UMR 40220	UMR 60325
Max. capacity steel tube (mm)	6–28	6–42	30–115	40–220	60–325
Wall thickness (mm)	2,5	4	4	6	8
Steel pipe	1/4–3/4"	1/4–1 1/4"	1 1/4–4"	2–8"	2 1/2–12"
RPM	603	200	170	140	70
Cycle time adjustable (sec.)	4–10	4–15	10–45	15–60	20–90
Forming length (mm)	15	25	50	70	80
Clamping length	1,0 x D	1,0 x D	1,0 x D	1,0 x D	1,0 x D
Clamping	↕	↔	↔	↔	↕
Power (kW)	1,3	4,5	8,5	14	20
Weight (kg)	750	1000	1500	1750	8000
L x W x H (mm)	1000 x 700 x 1600	1100 x 900 x 1700	1400 x 1100 x 1900	2500 x 1300 x 1900	3200 x 1600 x 2500
Available equipment options					
Automatic release	✓	✓	✗	✗	✗
Safety cover	✓	✓	✓	✓	✓
Circulating lubrication	✗	✗	✗	✗	✗
Micro lubrication system	✓	✓	✓	✓	✓

↕ Vertical

↔ Horizontal

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.



We are performance.

The sustainability of our solutions
is our customer service.

We offer solutions which are perfectly integrated into your processes. Also offering a service to guarantee you top performance.

We define service as the creation of lasting and effective solutions, not as occupying ourselves with problems. This is what our brand stands for.



Tube cutting machines

transfluid® cutting technology:

Perfect, top precision cutting



RTO 628

Orbital 6–28 mm Ø tube cutting machine,
coil feed with dancer roll and straightening unit





Chipless orbital cutting equipment

Our chipless orbital cutting machines offer you accurate cutting results – allowing you to directly continue processing your tubes. The clean produced cuts allow you to continue any forming directly on the cut

face – without further processing. Since the tubes are tensioned with a size-dependent force during cutting, they will not deform around the cut.

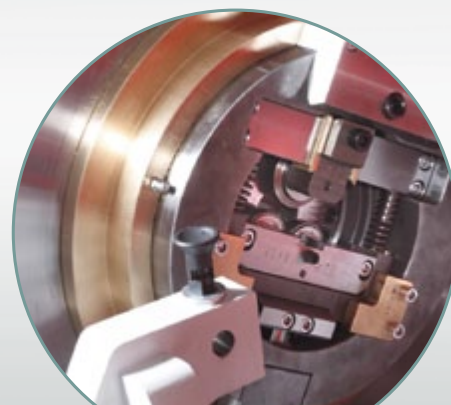


RTO 628

Orbital cutting unit for tubes up to 28 mm with tube loading magazine and ejection unit for five different pipe lengths

Equipment options:

- » Cutting rate up to 1 600 pieces/hour
- » Cut length optimisation to minimize scrap
- » from the coil, with straightening unit or with tube loading magazine
- » controlled multiple ejection of cut lengths

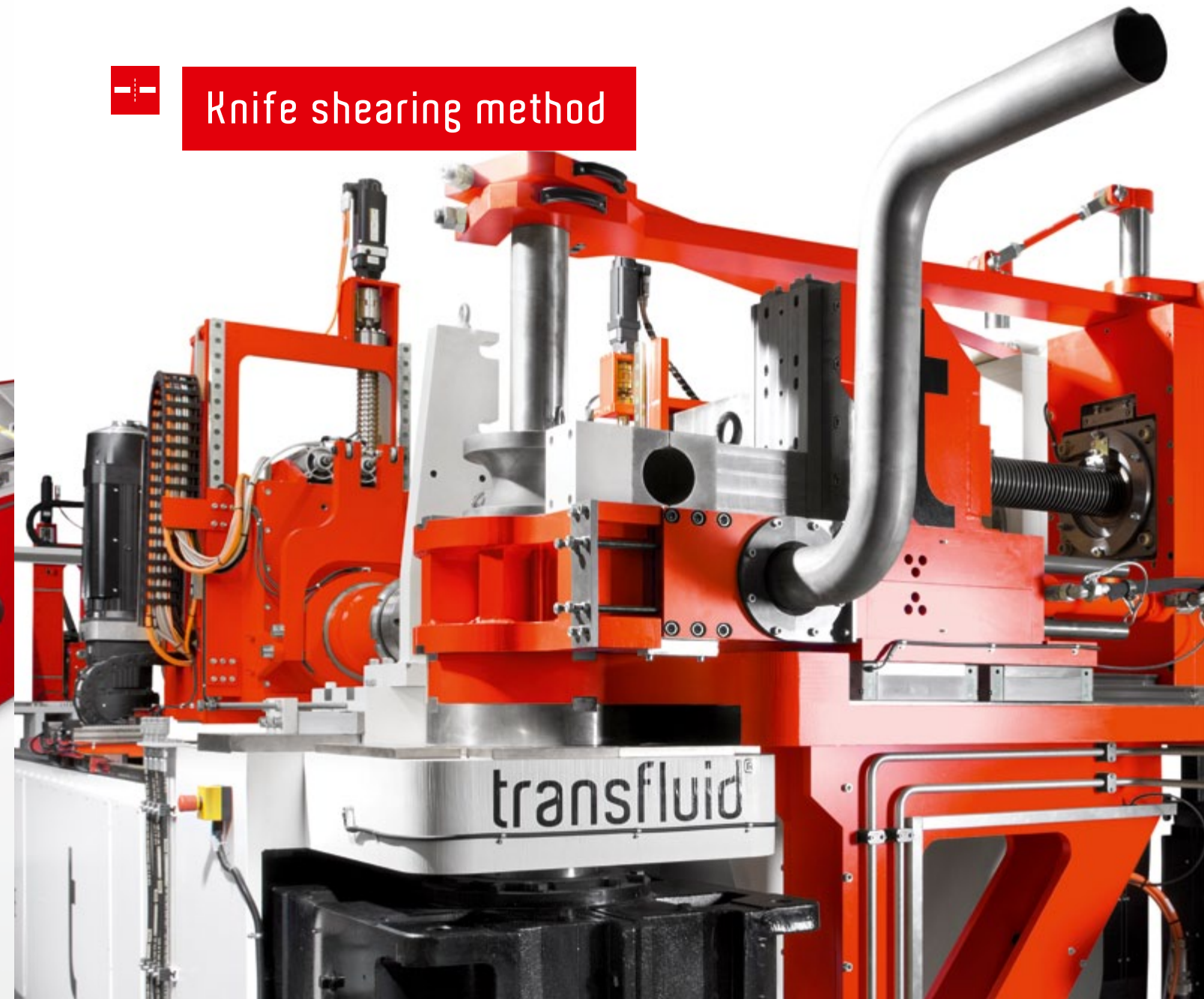


Cutting head detail

RTO 628	6 – 28 mm	orbital cutting method
RTO 2076	20 – 76 mm	orbital cutting method



Knife shearing method



Knife shearing units in a variety of processes




RT 622	6 – 22 mm Knife shearing
RT 1040	10 – 40 mm Knife shearing


Our cutting method is ideal for secondary trimming, allowing precise shearing of the tubes. This creates right angled sharp edged cuts even on extreme pipe geometries. The two chips may be reliably detected in this process. This cutting process may also be used for cutting bent geometries on our bending machines.


Up to three blades may be used if the demands are extreme. The process may furthermore also be optimised with an internal mandrel and modified to enable cutting the tube at an angle.





Tube cutting machine


Machine model	RT 622	RT 1040	RTO 628	RTO 2076
Cutting process				
Cap. Ø (mm)	6–22	10–40	6–28	20–76
Max. wall thickness (mm) – material-dependent	1,5	1,5	2	3
Shortest cutting length (mm) – pull apart	✗	✗	55	150
Shortest cutting length (mm) – through cut	7	7	25	70
Max. cutting length (mm)	∞	∞	∞	∞
Min. straight length after bend (mm)	10	10–20	✗	✗
Length tolerances (mm)	± 0,1	± 0,1	± 0,1	± 0,2
Cycle time (sec.) – depends on material and wall thickness	6	6	2,2–8	6–10
Power (kW)	3	4,5	7,5	15
Weight (kg)	400	550	1700	2500
L x W x H (mm)	1000 x 650 x 1700	1500 x 850 x 1800	2800 x 1030 x 1600	3000 x 1500 x 2000
Drive				
Area of application				
Straight pipes	✓	✓	✓	✓
Bent pipes	✓	✓	✗	✗
Available equipment options				
Automated loading from coil or from a straight stock magazine	✗	✗	✓	✓
Straightening section	✗	✗	✓	✓
Micro lubrication	✓	✓	✓	✓
Automatic unloading	✗	✗	✓	✓

 Chipless circular blade

 With scarfing knife
/ 2 cuchillas metálicas /

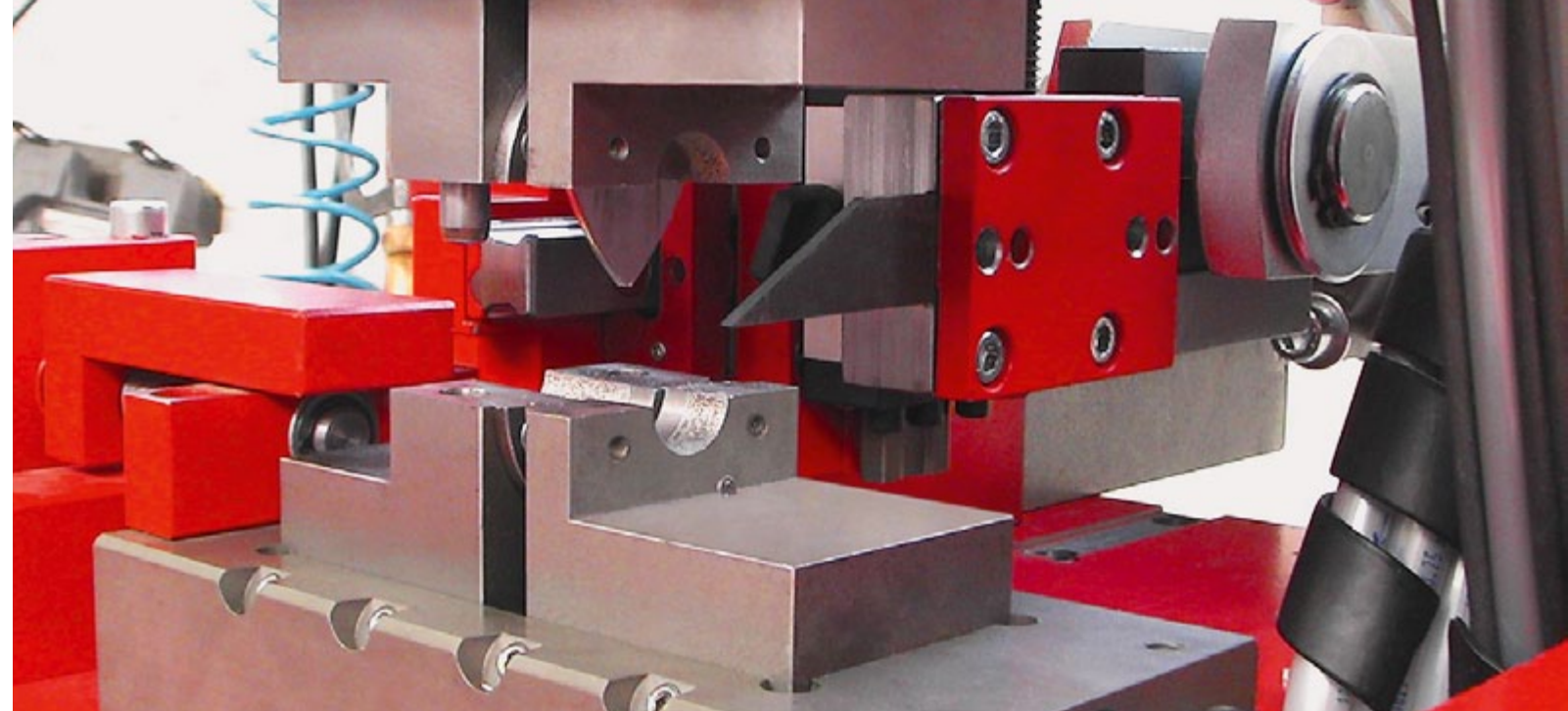
 infinity

 Electric

 Hydraulic

Subject to change without notice.
Weights and dimensions may vary depending on equipment options.

tcut



Why you may rely on us?

Realising your ideas is
what we do best.



We manufacture machines. This is what we are competent at.
Yet we offer our customers more: With our know-how, we
support them to achieve optimal results.

Tube cleaning machines

transfluid® cleaning technology:

for a clean job.



RR 001

Pass-through tube cleaning system:
with ultrasonic pre-cleaning, flushing
section and a drying zone





Tube cleaning systems

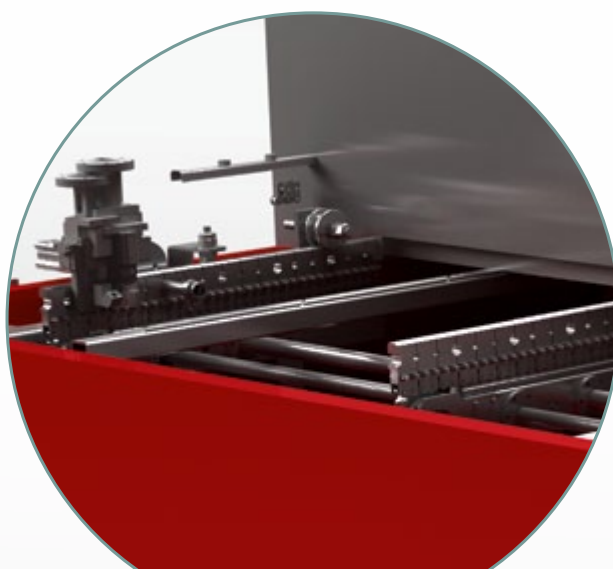
As clean as it gets: Our tube cleaning systems will clean your tubes to perfection.

The simplest and quickest method of cleaning bent tubes is pellet cleaning. The process is very effective for single pieces and small series production.

Various solutions are available for series operation, depending on requirements. Pass-through for straight tubes or in baskets for already bent parts. Pallet transport may also be useful here. Prior ultrasonic cleaning is also possible, depending on the degree of cleanliness required.

Liquid operated cleaning systems may of course also be filled up automatically or they may have a particulate detector. Such systems are designed to suit individual requirements.

DLW	Continuous cleaning system
RR	Basket cleaning system
RL	Single tube cleaning system (liquid)
RR 42	Single tube cleaning (pellets)



Ultrasonic feed-in detail



Single tube cleaning system detail



Automation systems

transfluid® combination machines

for optimal processes



Production cell

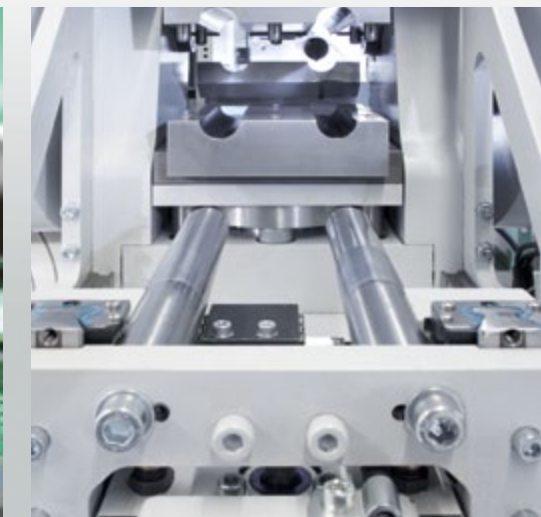
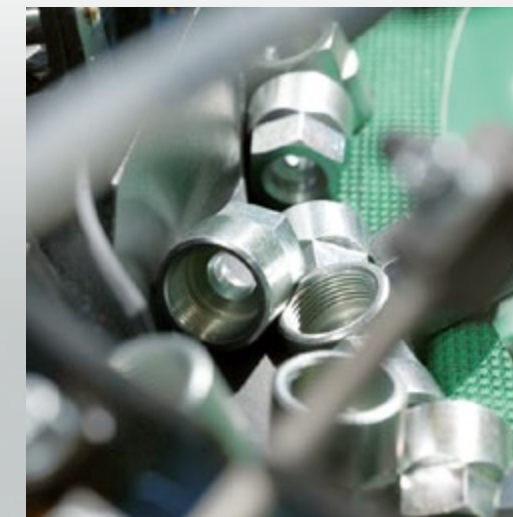
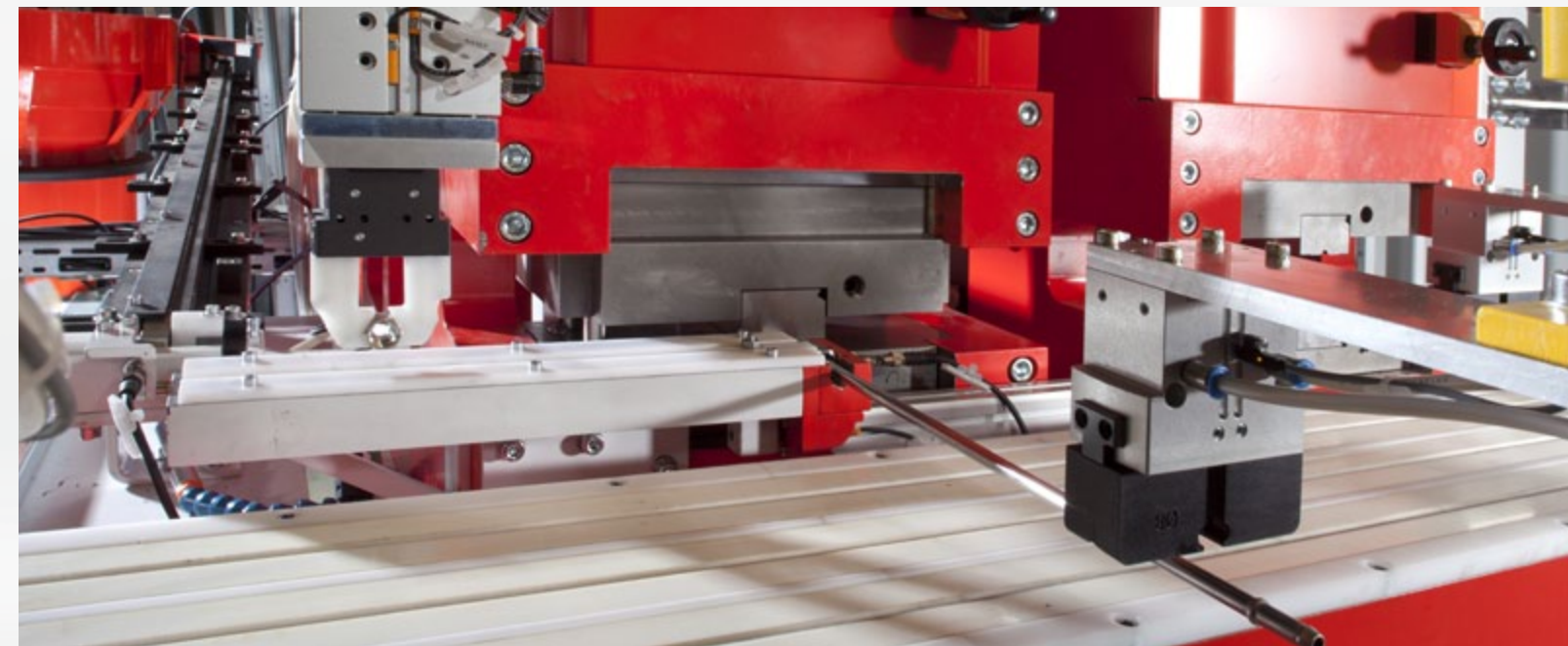
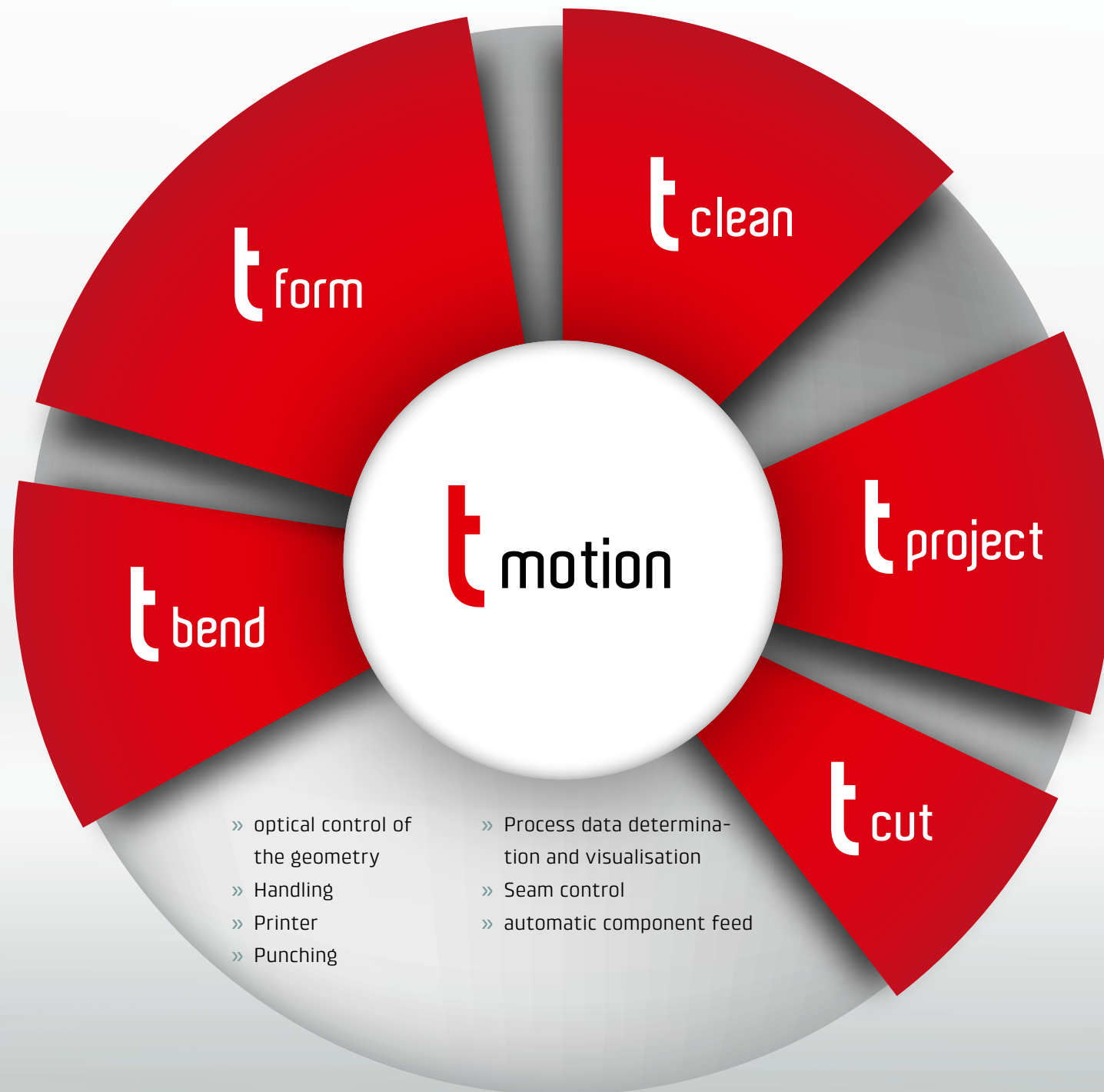
- Tube separation
- Bending
- Forming
- Cutting
- Optical measurement control
- Combination of 4-axis handling system and robots



Flexibly matching
your requirements.

t motion

Not only does automation increase capacity, but it also creates process reliability, ensuring that the quality of the manufactured components is always top notch. Assemble your own production island here: always extremely powerful and accurate.





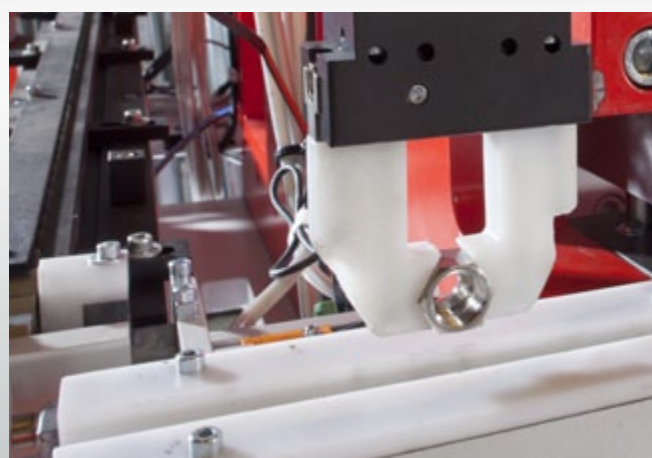
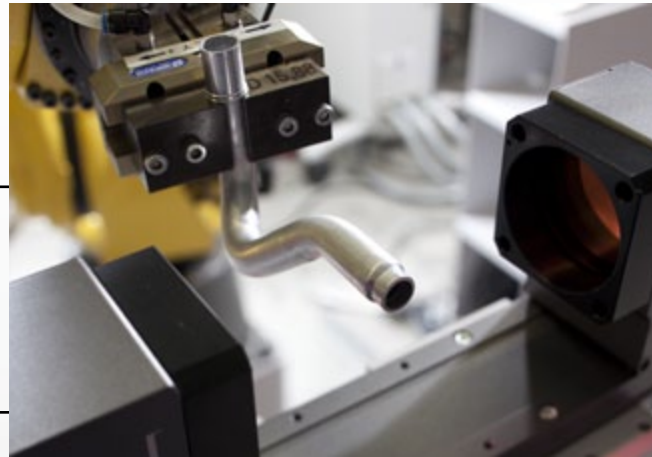
Automation right from the start

On request including:

Product marking, seam detection or optical, non-contact camera control systems for 100% control of geometries or surfaces. Brazing and welding units may be integrated here as well as autofrettage.

We will plan for you:

Complete production cells designed to match your requirements, including the layout designed to optimise the flow of materials.



Automatic in-process tool change

Plug and Produce! Our automated production cells are ready for immediate large scale series production.

The production cells comprise tried and trusted machines in our range, with storage and loading systems, parts feeders or complete handling systems to complement your processes. Linear or via robots – the choice is yours.

» DB 2090-CNC

- Fully electric with CNC bending machines.
- Automatic 8-station tool changer
- Loading magazine
- Seam control
- Handling by robots





Powerful software

Your clever transfluid® solution.

Reliable planning for
perfect results



We offer powerful software as an effective on-line solution to reducing the number of steps towards a finished component – to use with the bending machine and most CAD systems.



Reliable planning:

Apart from the accurate calculation of cut lengths and the documentation of tube data, our tproject software offers especially intuitive reliability of production. This is because the tube geometries may be checked for feasibility already before bending – to avoid collisions in the machine, with tools or other elements.

The clever solution:

For left / right bending machines, the software automatically determines which bend to assign to which head. Length increases due to forming processes are automatically included.

The software also calculates the positioning in case of flanges which have been welded to the pipe on both sides before bending. It stands to reason that the software can also handle free forming processes and multi-level machines.

The solution for tubes.

This is what we stand for.

Stefanie Flaeper

Benedikt Hümmler

Gerd Nöker

Burkhard Tigges

Ludger Bludau



2

Locations

23

Engineers

118

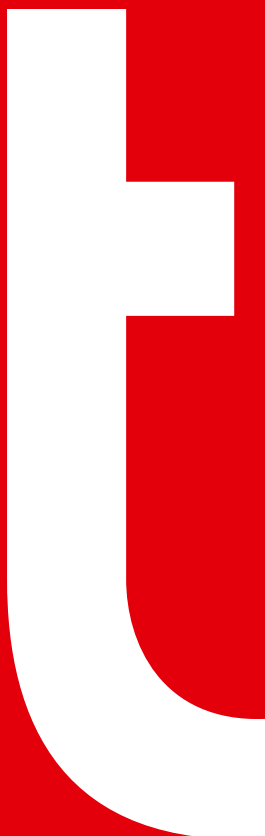
Employees

1988

founded

5600

Machines in the market



transfluid®

Maschinenbau GmbH

Hünegräben 20–22
57392 Schmallenberg

Tel.: +49 29 72 / 97 15–0
Fax.: +49 29 72 / 97 15–11

"Sales & Service"

transfluid® Asia-Pacific

810/4 Soi Tararome II
Sukhumvir Rd.
Klongton-Nur, Wattana
Bangkok 10110
Thailand
Tel.: +66 2 / 714 85 61

info@transfluid.de
www.transfluid.de