

®





Spiro International S.A. is the undisputed world leader in the development and manufacture of machines for the production of air duct systems required in the HVAC and sheet metal industry.



Your Trust Is Our Drive Since 1956

SINCE 1956

Our business principle is to support the improvement of indoor air quality by providing machines and solutions used to produce economical and environmentally-friendly air duct systems.

Spiro International S.A. is the undisputed world leader in the development and manufacture of machines for the production of air duct systems required in the HVAC and sheet metal industry.

As the inventor of the spiral duct machine - the so-called Tubeformer - we have built a sound reputation in the HVAC and sheet metal industry over the last six decades. With thousands of high-quality sheet metal machines delivered across the globe we have developed a strong relationship with our customers - worldwide. round and rectangular ducting equipment, as well as customized solutions for the ventilation industry. Headquartered in Bösingen, Switzerland, Spiro[®] offers direct access to our competence centre where our machines can be seen in action

> or inspected prior to shipment, as well as gain insight to our R&D centre. Moreover, with our subsidary in North America plus a global network of sales partner we provide local expertise and underline Spiro[®]'s global holistic approach.

Telationship with our customers - wondwide.Spiro® stands for state-of-the-art machineryWhat once started as a Tubeformer manufacturing
company has transformed into a fully-fledged
organization that encompasses the entire range of
why? Because:Spiro® stands for state-of-the-art machinery

organization that encompasses the entire range of Why? Because: **Your Trust is Our Drive - since 1956.**

Spiro[®] - The Invention



Spiro[®] - Global Presence



Spiro[®] - Your Partner





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TUBEFORMER 1602/3600 - MODULAR EDITION The world's most sold Tubeformer has been reinvented!

The prestigious Tubeformer 1602 / 3600 has been widely recognized in the HVAC and sheet metal industry as the spiral duct machine with outstanding quality, reliability, and performance-driven approach.

As the inventor of the spiral duct technology Spiro[®] launched a new modular Tubeformer concept for HVAC application. The new design aims at custom-tailored configurations suitable for individual production demands and greater functionality flexibility for future expansions.

Assemble the machine according to your needs when it comes to output (speed configurations), strength (material thickness configurations), and range (dimension configurations)!



"The world's best tubeformer revolutionized an entire industry"

The new touch screen based Spiro[®] Control System manifests an operation- and production friendly design coupled with many features, including the newly developed optional Spiro[®] Connect function for enhanced production efficiency.

Tubeformer Conf	iguration Options		
	STANDARD Standard speed with standard drive configuration	PRO High speed with enhanced drive configuration for increased output	HEAVY GAUGE Increased torque with heavy gauge package to maximize power
Diameter	80 - 1600 mm (3" - 64")	80 - 1600 mm (3" - 64")	80 - 1600 mm (3" - 64")
Strip Thickness (The smaller Ø cannot be made with thick material)	Galvanized steel 0.4 - 1.3 mm (0.016"- 0.051") Stainless steel 0.4 - 0.6 mm (0.016"- 0.024") Aluminium 0.4 - 1.3 mm (0.016"- 0.051")	Galvanized steel 0.4 - 1.3 mm (0.016"- 0.051") Stainless steel 0.4 - 0.8 mm (0.016"- 0.031") Aluminium 0.4 - 1.3 mm (0.016"- 0.051")	Galvanized steel 0.4 - 1.7 mm (0.016"- 0.066") Stainless steel 0.4 - 1.0 mm (0.016"- 0.039") Aluminium 0.4 - 1.7 mm (0.016"- 0.066")
Performance Tested /Guaranteed (Based on duct of 3 m length)	0.5 mm (0.020") thickness – 100 mm (4") diameter – 180 Ducts/hour 0.7 mm (0.028") thickness – 500 mm (20") diameter – 53 Ducts/hour 0.9 mm (0.035") thickness – 1250 mm (50") diameter – 23 Ducts/hour	0.5 mm (0.020") thickness – 100 mm (4") diameter – Up to 250 Ducts/hour with SSC 0.7 mm (0.028") thickness – 500 mm (20") diameter – Up to 85 Ducts/hour 0.9 mm (0.035") thickness – 1250 mm (50") diameter – Up to 40 Ducts/hour	0.5 mm (0.020") thickness – 100 mm (4") diameter – 180 Ducts/hour 0.7 mm (0.028") thickness – 500 mm (20") diameter – 53 Ducts/hour 0.9 mm (0.035") thickness – 1250 mm (50") diameter – 23 Ducts/hour
Features	Automatic length measurement system Large state-of-the-art Touch Screen panel with superior user interface Cutting System: Smooth and noiseless cut with hydraulic Slitter Model H Spiro [®] Connect Function prepared	Automatic length measurement system Large state-of-the-art Touch Screen panel with superior user interface Cutting System: Smooth and noiseless cut with hydraulic Slitter Model H Spiro [®] Connect Function included Automatic angle adjustment function included	Automatic length measurement system Large state-of-the-art Touch Screen panel with superior user interface Cutting System: Smooth and noiseless cut with hydraulic Slitter Model H Spiro [®] Connect Function included Automatic angle adjustment function included
Other Applications	Post-Tensioning	Post-Tensioning	Post-Tensioning







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UNIQUE FEATURES

Configurable to your own needs



100

0.45

-21.4

100

80

0.45

Diameter Ø

standard t

Ο

10

20

30

40 -40.4*

50

60

80

[kPa]

Diameter Ø

Sheet metal thickness

Negative

Pressure

125

0.45

-17.0

*Collapse not achieved

125

160

0.5

-11.7

160

200

250

315

500

630

800

400

1000

1250



BEFORMERS

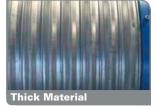
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TUBEFORMER 2020

The Spiro[®] Tubeformer 2020 model is the strongest and most powerful spiral duct machine in the industry!

The unique design was created to match the demand of special HVAC projects but also to address the needs of unique spiral duct applications used in other fields, predominantly in the industrial construction sector and mining industry.







- » Covers the complete range of international standard sizes up to 2500 mm diameter
- » Unique thick material capacity with up to 2 mm for galvanized steel
- » Reinforced mechanical transmission for heavy duty application

Technical Data	
Diameter Range	80 - 2500 mm (3" - 100")
Strip Thickness	0.4 - 2.0 mm (0.016"- 0.079") galvanized steel 0.4 - 1.3 mm (0.016"- 0.051") stainless steel 0.4 - 2.0 mm (0.024"- 0.079") aluminium
Cutting System Slitter - Smooth and Noiseless Cut	High Performance Slitter Model H and/or Plasmacutter
Other Applications	Voidforming / Mining ventilation / Jacketing
Basic Machine	Heavy duty frequency controlled main drive Hydraulically operated clinching roller Automatic length measuring system Motorized angle adjustment Hydraulically controlled drive roller pressure
Performance Tested / Guaranteed (duct of 3 m length)	0.5 mm (0.020") thickness – 100 mm (4") diameter – 180 Ducts/hour
	0.7 mm (0.028") thickness – 500 mm (20") diameter – 53 Ducts/hour
	0.9 mm (0.035") thickness – 1250 mm (50") diameter – 23 Ducts/hour
	1.25 mm (0.049") thickness – 1600 mm (64") diameter – 19 Ducts/hour
	2.0 mm (0.079") thickness – 2000 mm (80") diameter - 15 Ducts/hour, with corrugation





(Connect)

DECOILER DCH-3000

The DCH-3000 decoiler is a horizontal decoiler for up to 3 coils. The design allows a guick change over time and serves to cope with thick material. This unique decoiler performs perfectly in line with the Tubeformer at maximum speed on any duct size.

Technical Data	
Max. Coil Weight	Max. 3 Coils - 1000 kg each
Max Speed	100 m/min.
Coil Dimensions	Inside diameter min. 508 mm (20")
Outside Diameter	Max. 1400 mm (55″)
Strip Thickness	0.4 - 1.6 mm (0.016" - 0.063")
Strip Width	Max. 150 mm (6′′)
Weight	750 Kg



SPIRO[®] SPEED CARRIER (SSC)

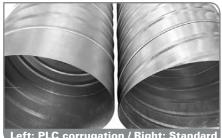
The Spiro[®] Speed Carrier increases production capacity and automatizes your process significantly. The combination of the duct Speed Carrier with the Slitter Model H results in an up to 30% higher performance rate. The duct Speed Carrier handles the full ranges of dimensions - Ø 80 - 2000 mm and can be retrofitted on most Spiro[®] Tubeformers.

Unique Features

- » Possible to retrofit most Spiro[®] Tubeformers
- » Increases production capacity
- » Ensures careful duct handling / No Buckles
- » Automates your process
- » Available in 3 meters
- » Multiple carrier solution available

AUTOMATIC CORRUGATION UNIT

Spiro®'s uniquely featured "Controlled corrugation unit" enables you to produce ducts with a smooth inside surface at the ends but still reinforced with the corrugation. The result is a duct with considerable less amount of leakage and maintained rigidity.



eft: PLC corrugation / Right: Standard

FORMING HEADS

Original Spiro[®] forming heads are made out of high guality aluminium and vitally contribute to consistently produce premium ducts.

Technical Data

DINØ / SMACNA	Inside Diameter (mm)	Outside Diameter (inch)
Diameter	80 / 90 / 100 / 125 / 160 / 180 / 200	3/4/5/6/7/8
Diameter	224 / 250 / 280 / 300 / 315 / 355 / 400	9/10/11/12/14/16
Diameter	450 / 500 / 560 / 600	18 / 20 / 22 / 24
Diameter	630 / 710 / 800	26 / 28 / 30 / 32
Diameter	900 / 1000 / 1120 / 1250	34 - 50
Diameter	1400 / 1500 / 1600	56 - 62
Diameter	1800 / 1900 / 2000	70 - 78
Diameter	2100 / 2300 / 2500	82 - 100



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U-BRACKET

The smart way to save time, material and money.

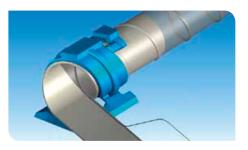
Equip your critical corrugated forming head sizes with a Spiro[®] U-bracket to prevent an arduous change-over procedure. More importantly, you no longer need to invest your time in repositioning the corrugation and as a result you save substantially on material cost.

SEAM SEAL SOLUTION

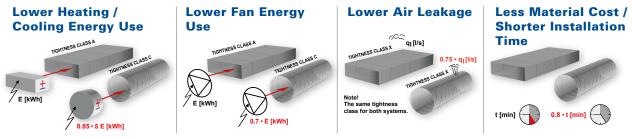
Seam Seal Duct Solution on your Spiro[®] Tubeformer!

Equip your Spiro[®] Tubeformer with a seam seal duct solution. This optional tool serves to provide your customers with a duct solution that is very effective at stopping leakage of vegetable oils and greases, as well as most petroleum products including white spirit.





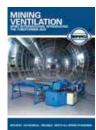
ADVANTAGES OF SPIRAL DUCTWORK



OTHER APPLICATIONS

Mining Ventilation

For the fast and reliable production of heavy duty manufactured steel ducts.



- » Ducts can be manufactured on-site
- » Up to 12 meters in length
- » Fully automated production
- » Low maintenance costs
- » Duct diameter from 80 2500 mm
- » Material thickness up to 2.0 mm
- » Meets all mining standards

Jacketing Jacketed piping

Jacketed piping features a core pipe which is completely surrounded by a jacket pipe.

- Pre-insulated pipes are commonly used for water piping systems and different types of energy applications (district energy)
- Insulation is usually carried out with polyurethane foam and the outer casing material is galvanized or stainless steel which will withstand extreme climatic conditions

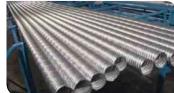
Post-Tensioning



Voidforming

Tubes for concrete structures. Spiro[®] Voidforming tubes meet the requirements of concrete structures for a highly rigid but light sheet-metal tube that can withstand being embedded without deformation

- Voidformers withstand reinforcement loads and transportation as well as fast casting
- Voidformers are sealed with end cones that are supplied fitted to the tubes



- Post-Tensioning is another Tubeformer application used in the building industry, mainly for bridges, high rise buildings, and power plant buildings.
 - Duct production with galvanized steel between 0.4 mm - 0.6 mm thickness
 - » Duct diameter from 40 160 mm
 - » Up to 12 meters in length
 - Saving raw material because of usage of strip width 78 mm



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SPIRO[®] PLASMACUTTERS

Spiro[®] has been renowned for advanced plasma cutting systems since 1992. The sound reputation stems from continuous development and redesign efforts to maintain the leading edge technology, including the self-developed Spiro[®] Control System, high-quality mechanical components combined with Hypertherm as the leading powermax unit, as well as the compatibility with the HVAC CamDuct software.

Technical Data		
PLASMACUTTER	FLORETT	CUTLASS
Work Area	1500 x 3000 mm (5' x 10')	1500 x 6000 mm (5' x 20')
Output	300 segments/hour - size 315 mm/90°	240 segments/hour - size 315 mm/90°
Traverse Speed	40 m/min. (131 fpm) both X- and Y-axis	>22 m/min (>72 fpm)
Power Supply	4 kVA / 380-480V / 50 or 60Hz / 3-phases	60 Amp

PLASMACUTTER FLORETT

Unique Features

- » Spiro[®] HS Controller v.3
- » 50% faster traverse speed
- » Total production time reduced up to 20%
- » Enforced high precision linear unit for the torch
- » Belt driven technology

PLASMACUTTER CUTLASS

Unique Features

- » Spiro[®] HS Controller v.3
- » Enforced high precision linear unit for the torch
- » Step forward/backward function
- » Free mode, select any part or contour
- » Optimized sheet utilization
- » Remote Internet access for technical support

SPIRO[®] HS CONTROLLER V.3



- » Step forward/backward function
- » Free mode, select any part or contour
 - » Optimized sheet utilization
- » Remote Internet access for technical support



PLASMACUTTER CARTRIDGE FILTERING UNIT

Equip your Plasmacutter with a filtering unit to achieve a clean environment in your workshop and to ensure that the dust emissions are always guaranteed < 2 mg/m3.

The perfectly filtered air could be ejected in the working area (in accordance with the local regulations) or directed into an exhaust chimney.

The filtering unit prevents dust and metal particles to be exposed to the surrounding environment and thus contributes to an ecological responsible working approach while ensuring employee-friendly working conditions.



Unique Features

- » Ensures Smoke-Free Environment
- » Produces Clean Air for Employees
- » Energy Saving Friendly

PLASMAFEEDER

Equip your workshop with a Spiro[®] Plasma Feeder.

Use the Plasma Feeder to increase your productivity and save material. Supply your Plasmacutter directly from a coil line (2 or 4 decoilers), including sheet selector!

- » Increase your Productivity
- » Save Material
- » Comes with 2 or 4 Decoilers
- » Includes Sheet Selector







CURVECUTTER DELTA 1500

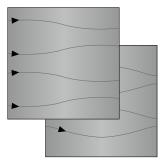
This machine is specially designed for cutting out segments of highest accuracy from a blank (i.e. bends, flat oval bends and domes). The Curvecutter Delta 1500 is a suitable machine for a high production line together with the Spiro[®] Rollformer, Stitchwelder and Gorelocker.



Unique Features

- » Select from a wide range of programs ranging from 100 to 1500 mm diameter
- » Simple input for circular or flat-oval bends, angle cuts and other customized items
- » Accurate cutting of segments with high repeatability due to high-tech servo motors
- » No burrs and no hardening of the edge as a result of cutting with 4 roller-shears
- » Efficiency: 1 elbow 200 mm with 4 segments is cutting in 1 path within 15 seconds
- » Output: 560 segments/hour size 315 mm/90°

Technical Data	
Maximum Sheet Width	1500 mm (60")
Material Thickness	0.4 - 1.1 mm (0.016"- 0.043") galvanized steel 0.4 - 0.6 mm (0.016"- 0.024") stainless steel 0.5 - 1.1 mm (0.020"- 0.043") aluminium
Cutting Speed	2 - 10 m/min. (6 - 32 fpm)
Segment Angle	5 - 46° (in steps of 1/10 degree)
Elbovv Diameter	100 - 1500 mm (in steps of 1 mm) (4"- 60")
Number of Cutters	1 - 4 (selectable on control panel)



ROLLFORMER AR 800

The Rollformer AR 800 represents a new generation of Rollformers. Built to support high-speed production of round-shaped metal parts and perfectly complements the Spiro[®] Stitchwelder and Litelocker family.

- Designed for fast and automatic rolling of bend segments, T-pieces, connectors etc.
- The Rollformer can be operated in combination with the Stitchwelder allocating only 1 operator for both machines
- » Equipped with remote control
- » Automatic feeding table



Technical Data	
Diameter Range	100 - 1000 mm (4"- 40")
Maximum Width of Blank	800 mm (31") (depending on thickness & \emptyset)
Material Thickness	0.4 - 1.0 mm (0.016" - 0.039") galvanized steel 0.4 - 0.6 mm (0.016" - 0.024") stainless steel 0.4 - 1.0 mm (0.016" - 0.039") aluminium
Maximum Output	1200 segments/hour - size 315 mm/90°
Power Supply	1.5 kVA / 400V / 50 Hz (other voltage on request)



STITCHWELDER *PRO* 2.0

The latest edition of our market leading welding solution, equipped with a brand new state of the art control system, improved control of the welding process, easy and fast setup, latest generation of mercury free welding rollers with extended lifetime that comply with the European Union Regulation (EC) No 1102/2008.

The Stitchwelder *PRO* 2.0 is designed to give a perfect air-tight seam thru out the whole welding length. It has built its world class reputation upon well documented consistency and reliability.

Unique Features

- » Highest welding speed in the industry
- » Mercury free welding rollers
- » Spiro[®] Control System, easy recipe management, load, save or backup with just a click
- » Prepared for Spiro[®] Connect (PC connection)
- » Automatic Pressure setting from the panel, no mechanical adjustments



- » Unique two-step function for easy handling of long or large items
- » Unique setting of both start and end current for optimized welding result
- » Upgraded speed setting with optimized setting for continuous and length of each stitch

Technical Data	
Welding Length	50 mm - 1000 mm (2" - 40")
Diameter Range	75 - 1000 mm (3"- 40")
Material Thickness	0.4 - 1.0 mm (0.016" - 0.039")
Overlap	6 mm (0.24") for 1000
Wire Diameter	2 mm (0.078")
Adjustable Welding Speed	2 - 15 m/min. (6.6 - 49.2 fpm)
Maximum Output	700 segments/hour - size 315 mm/90°









SPIRO[®] MERCURY FREE SOLUTION

Upgrade your Spiro[®] Stitchwelder with a mercury free cooling solution kit to fulfill the European Union "REGULATION (EC) No 1102/2008"!







FITTINGSHAPER 1250

The Fittingshaper contributes vitally to reduce the leakage rate in the ventilation system, resulting in reduced energy consumption costs!

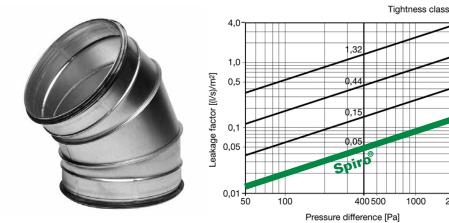
The Fittingshaper is a flexible machine made for mounting rubber gaskets to fittings in small volumes but with many different sizes.

> Patent No.: US 6,598,285 B1 Patent No.: US 6,170,883 B1

Technical Data	
Diameter Range	125 - 1250 mm (5"- 50")
Material Thickness	0.5 - 0.9 mm (0.020"- 0.035") galvanized steel 0.5 - 0.8 mm (0.020"- 0.031") stainless steel
Hydraulic System	All drives & movements
Power Supply	5 kVA / 400V / 50 Hz (other voltage on request)
Maximum Output	2-gaskets (Ø300 mm) in less than 2 minutes

Unique Features

- » Fast and easy installation
- » Factory fitted gasket without any loose parts
- » Temperature resistant from -30°C to +100°C
- » Withstands positive pressure - 3000Pa



1000

в

С

D

2000

The full range of reducers, couplings and bends can be equipped with the self sealed system

SPIRO[®] SHAPER

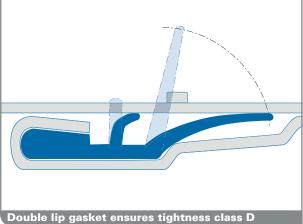
The Spiro[®] Shaper stands out with the efficiency to mount gaskets in a fast and accurate fashion on fittings. The focus on smaller diameter range (100 - 500 mm) results in a high output volume combined with consistency due to the precise machine set-up.

Moreover, the Spiro[®] Shaper can produce a rolled edge on non-gasket products. In addition, the machine handles any type of fittings (e.g. saddle, bends, T-pieces). Also, to optimize the leakage tightness, Spiro[®] implemented 5 different widths of rubber gaskets, covering the entire dimension range.



Technical Data	
Diameter Range	100 – 500 mm (4"- 20")
Material Thickness	0.5 - 0.9 mm (0.020"- 0.035") galvanized steel 0.5 - 0.8 mm (0.020"- 0.031") stainless steel
Power Supply	400V / 50Hz / 3 Phases (other voltage on request)
Pneumatic Connection	7 bar, 200 l/min. (as required minimum)
Maximum Output	4-6 pcs/min. of 2-gasket fittings (Ø160 mm)





GORELOCKER COMBI-T

00

High production Gorelocker produce standing lockseam elbows and reducers. The high flexibility is achieved by means of 2 separate workstations: a flanging station and seam closing station. Thus the machine is always ready for operation without time-consuming conversion. The standing seam reduces welding to just one longitudinal seam and improves rigidity.

- » Dual working station
- » Maximum flexibility with no equipment change
- » Constant quality / High production speed
- » High capacity with material thickness up to 1.5 mm
- » Virtually no maintenance, no lubrication necessary
- » High quality parts and all rotating tools are made of hardened steel / High quality seams



Technical Data	
Diameter Range	125 - 1250 mm (5" - 50")
Material Thickness	0.4 - 1.5 mm (0.016"- 0.059") galvanized steel 0.4 - 1.0 mm (0.016"- 0.039") stainless steel 0.4 - 1.5 mm (0.016"- 0.059") aluminium
Flanging Speed	Max. 120 m/min. (394 fpm)
Maximum Output	40 bends/hour (4 segments – Ø 200 mm bend)
Electrical Connection	3 x 400 V / 50 Hz / 4 kVA (other connections on request)

AEM 400 PRO

The Automatic Elbow Machine *PRO* offers the fastest and most efficient way of producing Gored elbows. From welded to finished high-quality and tight bend in one single operation.

Totally automatic process without any intervention from the operator, safe and easy.





Unique Features

- » Choose 4 or 5 segment edition (22.5° or 30° angle)
- » State-of-the-art Touch screen HMI
- » 100% automatic working process, no hands on operation
- » Constant quality process and 0 scrap
- » Makes a rigid and fix high quality lock seamed bend
- » Works perfectly with pre-assembled gaskets, for type D production

Technical Data Type A	
Segments	4pcs for 90° elbow (segment angle 30°)
Elbow angles	30° / 60° / 90°
Diameter Range: <i>Recommended configurations,</i> <i>max Ø range per machine is 80mm</i>	A1: Ø100 - 125 - 160mm A2: Ø150 - 180 - 200mm A3: Ø250 - 300 - 315mm A4: Ø355 - 400mm
Material Thickness	0.5 - 0.7mm galvanized steel

Technical Data Type B	
Segments	5pcs for 90° elbow (segment angle 22.5°)
Elbow angles	45° / 90°
Diameter Range: <i>Recommended configurations,</i> <i>max Ø range per machine is 80mm</i>	B1: Ø100 - 125 - 160mm B2: Ø150 - 180 - 200mm B3: Ø250 - 300 - 315mm B4: Ø355 - 400mm
Material Thickness	0.5 - 0.7mm galvanized steel

Time to increase your productivity and to save cost? Contact us today to find out more.







Rolled and welded can* Gored Elbow

*automatic rounding and welding equipment is also provided by Spiro®

LITELOCKER

The Spiro[®] Litelocker is a sturdy and advanced button lock machine. It enables up to 3 plates of sheet metal to be firmly joined together (cold forming) without incurring any damages to the sheet metal surface. The press force is made by using a pneumo-hydraulic system. The result is a high quality joint solution that eliminates the need for screws & rivets and requires no coating treatment due to no corrosion.

Unique Features

- » No heating of material
- » No need to make holes for rivets
- » Low energy consumption and minimal maintenance
- » No damage to galvanized or prepainted surfaces
- » Usable for all kind of connections (rectangular and round)
- » Low maintenance costs and noise level

Technical Data	
Length of Arm	400 mm (15")
Minimum Tube Diameter	100 mm (4")
Maximum Material Thickness	Galvanized steel 2 x 1.5 mm (2 x 0.059") 3 x 1.0 mm (3 x 0.039") Stainless steel 2 x 0.8 mm (2 x 0.031")
Capacity	60 stroke/min.
Pre Stroke	52 mm (2")
Press Stroke	8 mm (0.31")
Total Stroke	60 mm (2.4")
Air Supply	6 bar





Various types of dies and punches

RME

Max. 1.2 mm (0.047")

1280 mm (50")

100 - 1000 mm (4" -40")

60 mm (2.36")

Dual-Speed

400 segments/hour size 315 mm/90°

SPOTWELDER

Spotwelder for welding of fittings, where the Stitchwelder cannot be used.



ROLLFORMER RME ROLLFORMER 1270

Rollformer to make roundshaped metal parts.

Technical Data

Material Thickness

Working Diameter Roll Diameters

Maximum Output

Rollformer

Roller Length

Working Mode



1270

Max. 1.2 mm (0.047")

1270 mm (50") 100 - 1000 mm (4" -40")

68 mm (2.67")

Single-Speed 250 segments/hour size 315 mm/90°

Technical Data	
Welding Power	Max. 55 kVA
Diameter Range	75 - 1000 mm (3" - 40")
Air Pressure	6 Bar
Stroke of Electride	10 - 60 mm (0.39" - 2.36")
Depth of Arm	380 - 700 mm (14.96" - 27.55")
Maximum Output	200 segments/hour - size 315 mm/90°

EDGEFORMER SME 63

The Edgeformer has an arm length of 250 mm and includes 7 sets of rolls with different available profiles, underlining the high-quality machine parts.



	Technical Data	
	Material Thickness	Max. 1.7 mm (0.067") mild steel
1	Arm Length	250 mm (10")
	Diameter	63 mm (2.48") (Rolls)
	Working Speeds	6 m/min. (20 fpm) or 12 m/min. (39 fpm)



OVALIZER 36/10

The Ovalizer transforms smooth and corrugated round spiral ducts into flat-oval ducts. Machine control is by PLC and the Ovalizer is equipped with superior hydraulic unit to ensure the required force.



Technical Data	
Size	150 x 435 mm - 915 x 2650 mm (6" x 7" - 36" x 106")
Tube Length	3000 mm (10')

ROVAL ROLLER 48/20

Roval-Roller shapes round and flat-oval segments and reducers as well as many other forms common to the sheet-metal industry. With its programmable controller, it is designed to duplicate shapes at the high level of accuracy critical for mating parts.

Technical Data	
Material Width	Max. 1220 mm (48")
Material Thickness	Max. 1.0 mm (0.039")



Advantages Of Oval Ductwork

- » Better Airflow
- » Easier to Install
- » Less Joints
- » Less Hangers
- » Often Requires Less Space
- » Corrugation For Added Strength
- » Modern Design



Oval Ducts



Oval Fittings

SPIRO[®] DUCTLINE

This powerful Ductline offers the highest output with a minimum of floor space required. As standard it's delivered with the Spiro[®] state-of-the-art control system. This high performing Ductline has a fully hydraulic drive system which offers maximum force, strength and endurance.



Unique Features

- » Touch screen controller with genuine Spiro[®] user interface
- » Programs for L-sections, U-ducts, fully wrapped ducts or plain sheet
- » Z-Profile (Trapez-Profile and bead as option)
- » Fully hydraulic feeding, shear and folding unit
- » Stand-alone encoder for higher accuracy
- » Smallest footprint in the industry

Unique modular approach to boost your Spiro[®] Ductline into a fully automatic rectangular duct forming line with integrated flanges expand gradually or at once, you decide!

Technical Data	
Processable Sheet Thickness	0.5 - 1.25 mm (0.020" - 0.049") on request up to 1.5 mm (0.059")
Max. Coil Width	1500 mm (60")
Max. Coil Weight	Standard 5 tons
Duct Dimension for Box Sections	Min. 125 x 125 mm (4.9" - 4.9") / Optional: 100 x 100 mm (4" x 4")
Capacity	Up to 5-10 tons/day

INTEGRATED FLANGE OPTIONS



TDF Flange





SPC Flange 20/30

UNIQUE MODULAR SYSTEM

Configurable to your own needs















Automatic Slitting Unit & Punching System Combined





Crosscut Pittsburgh Unit







Heavy Duty Shear for >1.5mm



Unique Modular Solution Compact or Fully Integrated - You Decide! Future Module Integration Always Possible Latest Spiro[®] Technology

20 & 30 ROLLFORMING MACHINE

This 19 station Rollforming Machine creates a rigid SPC flange from hand fed blanks using material from the duct wall.



Unique Features

- » Dual tooling included
- » Main drive with triple heavy duty chains
- » Double stitching stations with off-set
- » Quick release trolley system for extra short pieces
- » Exit straightening roll to correct any vertical bow



Technical Data		
Rollforming Machine	20	30
Sheet Thickness (Flanges)	0.5 - 0.9 mm galvanized steel	0.8 - 1.2 mm galvanized steel
Min. Blank Length	230 mm	230 mm
Max. Working Speed	18 m/min	18 m/min

TDC/F ROLLFORMING MACHINE

This 14 station Rollforming Machine makes a rigid TDC or TDF flange from hand fed blanks using material from the duct wall. The machine is dual sided and produce clips on the second side.

Technical Data	
Processable Sheet Thickness	0.5 - 1.2 mm
Max. Working Speed	8 m/min
Tooling	2 set of rollers included, TDC or TDF + clips



PROFILING MACHINE TPM 2500

Machine for making reinforcement beads evenly spread throughout the whole width of the blank. Choose one out of three possible types of reinforcement patterns (i.e. Z, Trapez, or Bead).

Unique Features

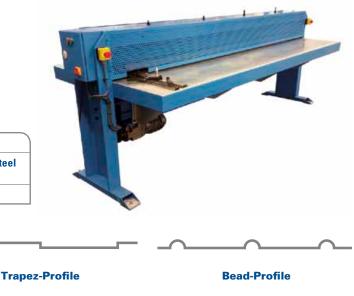
- » Easy adjustable side guide
- » Enforced overhead beam

Z-Profile

» Hardened rollers for long lifetime

Technical Data	

Max. Sheet Width	2500 mm
Processable Sheet Thickness	0.4 - 1.2 mm, galvanized steel
Max. Working Speed	15 m/min

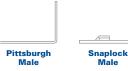


LOCKFORMING MACHINE 16'S GAUGE

Pittsburg

Female

This powerful Pittsburgh machine comes with 16's Pittsburgh rolls male and female as standard.



Unique Features

» Automatic gauge compensation to ensure tight definition of the seam throughout the complete range of 0.7 – 1.6 mm (0.028" – 0.063")

Pittsburgh	
gh Snaplock Female Technical Data	
Material Thickness	0.7 – 1.6mm (0.028" – 0.063")

galvanized steel

S mm (0.028" – 0.063") (Pittsburgh pocket size 12.5mm (0.49")

FLANGING MACHINE 16'S GAUGE

This 16's gauge Flanging Machine easily turns up 90° flanges on radius and straight parts and is equipped to make a straight angle flange for Pittsburgh as standard.

Unique Features

- » Makes a consistent height flange
- » Lock back function for easy removal of work piece
- Easy to operate with spring loaded follower roll and height pin

FOLDMASTER

The semi-automatic Foldmaster Seam Closing Machine TS C 2000 makes it fast and easy to close an already prepared Pittsburgh seam on rectangular ducts and fittings. Airtight and noise free!

Unique Features

- Closes Pittsburgh lock on bends and straight ducts at a speed of up to 15 m/min
- » Easy to work easy service
- » Noise-free operation
- » Airtight lock

SMART-CLOSER

The fast and easy way to produce the highest quality duct work. NEW - Upgrade your Smart-Closer with an automatic mastic kit solution to create a tight seam for your rectangular duct system.

- » For seaming rectangular and square ducts
- » Operation start by foot pedal
- » Full length duct support
- » No need for lock-forming or flanging







SPIRO[®] CARE CONTRACT

The Spiro[®] Care Contract guarantees an annual inspection on your Spiro[®] machines, as well as a recommendation on how to optimize your investment through a service, repair, and/or upgrade with original Spiro[®] parts. In addition, your operators can profit from tips and feedbacks with respect to the best usage and maintenance of your Spiro[®] machinery to prevent breakdowns and continuously achieve a high output quality.





Special discount on spare parts and work Warranty on spare parts Priority service on breakdown Condition report on your machine Remote technical support free of charge

1. Spiro[®] Care Contract Exclusives

- » 30 day net payment conditions after paid contract, up to CHF 5'000
- » Prioritised support/shipment of parts when breakdown
- » Remote technical support, free of charge
- » Certificate certified Spiro[®] producer
- » When order spare parts according engineers inspection quote, latest 30 days after inspection, with a minimum of CHF 5'000, labour cost included

2. Special discount

» The Customer is entitled to a discount of 15% on spare part orders and work

3. Inspection visit

- The Customer is entitled to one inspection at one facility every 12 months by a Spiro[®] Engineer on the machine(s) bought from Spiro[®] (Spiro[®] make the schedule and plan the inspection)
- > The purpose is to inspect the condition of the Customer's machine(s) and give advice of required maintenance
- This inspection is estimated to take between 2 to 8 hours, depending on the amount of machines at the Customers facility
- » The Customer will receive a protocol in writing following the inspection

4. Warranty on spare parts

> When a spare part is exchanged by a Spiro[®] Engineer on the machine, Spiro[®] then provides a 6 month warranty at that spare part

SPARE PARTS PACKAGES

Convenient spare parts packages guaranteeing that your Spiro[®] Tubeformers are equipped with original Spiro[®] spare parts and ensuring a continuous smooth production.

SILVER PACKAGE

25% DISCOUNT



Package Contents Tubeformers; X-20 & SMART	
Item	Qty
Rubber wiper	6 m
Folding finger	5
Flange roller standard complete (flange rollers, protection seals, adjusters, bearings)	2
Support roller	2
Clinching rollers 0.4 - 0.6 mm & 0.7 - 1.0 mm	1 of each
Cutting knife standard upper & lower	1 of each

Package Contents Tubeformers; 2002, JRX, 1602, <i>PRO</i> & 2020	
ltem	Qty
Rubber wiper	6 m
Folding finger	5
Flange roller standard complete (flange rollers, protection seals, adjusters, bearings)	2
Support roller	2
Clinching rollers 0.4 - 0.6 mm & 0.7 - 1.0 mm	1 of each
Cutting knife standard	2

TUBEFORMER 1602 PACKAGES

Package Contents Formroller Unit No.1A/1N	
Item	Qty
Formroller set no. 1 (Complete)	1
Roller axle 0.5 - 137 mm	6
Upper Guide Roller (Complete)	1
Shaft guide roller	1
Ball bearing skf 6203-2rs1	16
Countersunk unbraco screw M6 (1A)	16
Collar mb6 (1N)	12
Spring retaining ring D-30x1.50 (1A)	12
Axle nut km6 (1N)	12

Package Contents Formroller Unit No. 3	
Item	Qty
Formroller set no. 3	1
Roller axle 0.9 - 137 mm	6
Upper Guide Roller (Complete)	1
Shaft guide roller	1
Ball bearing skf 6203-2rs1	16
Countersunk unbraco screw m6	16
Spring retaining ring D-30x1.50	12

Package Contents Formroller Unit No. 4	
Item	Qty
Formroller set no. 4	1
Roller axle 1.2 - 140 mm	6
Upper guide roller 140 mm (complete)	1
Shaft guide roller	1
Ball bearing skf 6203-2rs1	16
Countersunk unbraco screw m6	16
Spring retaining ring D-30x1.50	12

GUIDEPLATE PACKAGES

Package Contents Guideplate Lower / Guideplate Upper	
Item	Qty
Guideplate Lower	
Lower front guide plate	1
Lower rear guide plate	1
Guideplate Upper	
Upper front guide plate	1
Upper rear guide plate	1





DRIVE ROLLER (FULL TUBEFORMER 1602) PACKAGE

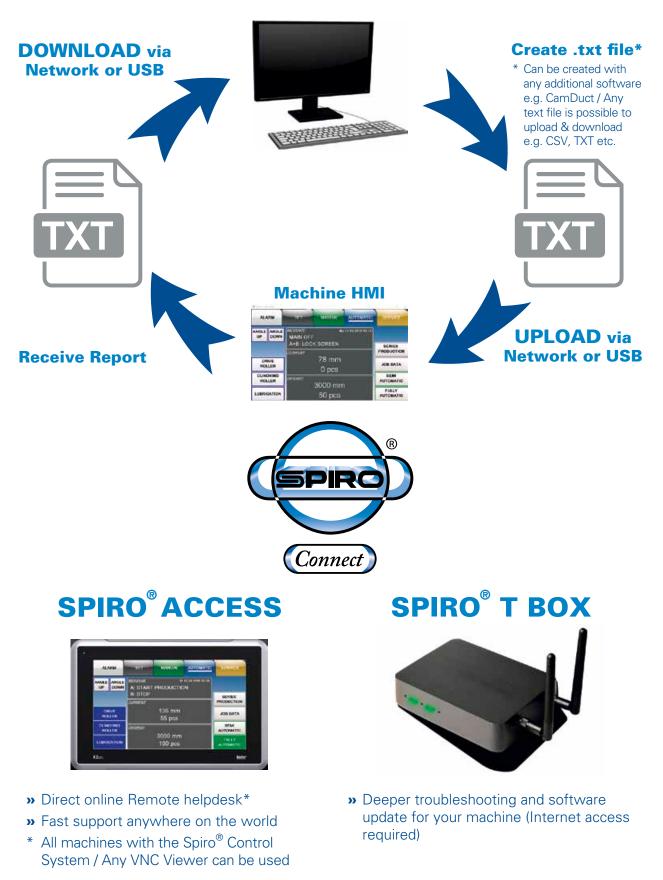
Package Contents Drive Roller Package	
Item	Qt
Drive roller upper std	1
Lower drive roller std	1
Axle upper drive roller (complete)	1
Axle lower (complete)	1
Axle encoder upper drive roller	1
Flexi coupling 6/8 mm	1
Skf 6210-2rs1 Skf 62212-2rs1 Skf 6011-2rs1	1 1 4
O-rings O-rings	3 1
Loctite 641 10ml	1



Package Contents Drive Roller Package Continued	
Item	Qty
Bearing housing upper	1
Bearing housing outside	1
Bearing cover outside without encoder	1
Bearing cover motor side	1
Bearing housing motor side	1
Cylinder head screw m8x25-12,9 din 912	12
Countersunk screw isk m8x20	4
Adjusting screw	2
Countersunk unbraco screw m4x12	4

SPIRO[®] CONNECT

Spiro[®] is innovative and evolves over time - we offer the optimal digital add-on option! Connect your computer with the latest generations of our Ductline and Tubeformer 1602/2020 machines. More Spiro[®] machines (Shaper, Curvecutter Delta 1500, Stitchwelder Pro 2.0, AEM 400 PRO) available on request.



SPIRO® TUBEFORMER LEGACY

1956	1956 1957	Tubeformer 300 Tubeformer 200	
1960	1959 1959	Tubeformer 401 Tubeformer 403 B	
1965	1963	Tubeformer 600	
1970	1969	Tubeformer 800	
	1971	Tubeformer 700	
1975 -	1976	Tubeformer 1600	
1980	1980 1980 1980 1982	Tubeformer JR	
1985	1984	Tubeformer MRX	
1990	1989 1990 1992	Tubeformer JRX 1212 Tubeformer JRX 1210 Tubeformer JRX 1610	
1995	1994 1996	Tubeformer 2525 Tubeformer 1613	
2000	1998	Tubeformer 1602	
	2002	Tubeformer 2020	
2005 -	2008 2009	Tubeformer <i>PRO</i> Tubeformer <i>SMART</i>	
2010	2013	Tubeformer X-20	
2019	2017 2019	Tubeformer 1602 <i>modula</i> Spiro [®] Connect for Tubefo	





Spiro[®] In-house Design CE-Certified and EMC directive: Compliance verified Patented Solutions Spare Parts: 20 year availability 2 Year Warranty Support: Whenever, wherever, forever! Know How: More than 60 years experience!



We welcome you to visit our competence centre to see the machines in action.



Spiro International S.A. Industriestrasse 173 CH-3178 Bösingen Switzerland www.spiro.ch



Spiral-Helix 500 Industrial Drive Bensenville IL. 60106 www.spiral-helix.com







MACHINES - info@spiro.ch

Spiro[®] can provide you with a complete set of superior quality machines for the production of air duct systems.



SERVICES - service@spiro.ch

Spiro[®] has the experience, in depth knowledge, support and aftermarket services that ensure your production is continuous and efficient.



SPARE PARTS - parts@spiro.ch

Spiro[®] offers an extensive range of quality spare parts and consumables. Consult our spare parts catalogue or website for a selected choice.

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