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.
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.

What once started as a Tubeformer manufacturing company has transformed into a fully-fledged organization that encompasses the entire range of 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 subsidiary in North America plus a global network of sales partner we provide local expertise and underline Spiro®’s global holistic approach.

Spiro® stands for state-of-the-art machinery and world class service and support built on long-standing collaboration with our customers.

Why? Because:

Your Trust is Our Drive - since 1956.
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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 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 Configuration Options

<table>
<thead>
<tr>
<th></th>
<th>STANDARD</th>
<th>PRO</th>
<th>HEAVY GAUGE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diameter</strong></td>
<td>80 - 1600 mm (3” - 64”)</td>
<td>80 - 1600 mm (3” - 64”)</td>
<td>80 - 1600 mm (3” - 64”)</td>
</tr>
<tr>
<td><strong>Strip Thickness</strong></td>
<td>Galvanized steel 0.4 - 1.3 mm (0.016” - 0.051”)</td>
<td>Galvanized steel 0.4 - 1.3 mm (0.016” - 0.051”)</td>
<td>Galvanized steel 0.4 - 1.7 mm (0.016” - 0.066”)</td>
</tr>
<tr>
<td>(The smaller Ø cannot be made with thick material)</td>
<td>Stainless steel 0.4 - 0.6 mm (0.016” - 0.024”)</td>
<td>Stainless steel 0.4 - 0.8 mm (0.016” - 0.031”)</td>
<td>Stainless steel 0.4 - 1.0 mm (0.016” - 0.039”)</td>
</tr>
<tr>
<td></td>
<td>Aluminum 0.4 - 1.3 mm (0.016” - 0.051”)</td>
<td>Aluminum 0.4 - 1.3 mm (0.016” - 0.051”)</td>
<td>Aluminum 0.4 - 1.7 mm (0.016” - 0.066”)</td>
</tr>
<tr>
<td><strong>Performance Tested /Guaranteed</strong></td>
<td>0.5 mm (0.020&quot;) thickness – 100 mm (4&quot;) diameter – 180 Ducts/hour</td>
<td>0.5 mm (0.020&quot;) thickness – 100 mm (4&quot;) diameter – Up to 250 Ducts/hour with SSC</td>
<td>0.5 mm (0.020&quot;) thickness – 100 mm (4&quot;) diameter – 180 Ducts/hour</td>
</tr>
<tr>
<td>(Based on duct of 3 m length)</td>
<td>0.7 mm (0.028&quot;) thickness – 500 mm (20&quot;) diameter – 53 Ducts/hour</td>
<td>0.7 mm (0.028&quot;) thickness – 500 mm (20&quot;) diameter – Up to 85 Ducts/hour</td>
<td>0.7 mm (0.028&quot;) thickness – 500 mm (20&quot;) diameter – 53 Ducts/hour</td>
</tr>
<tr>
<td></td>
<td>0.9 mm (0.035&quot;) thickness – 1250 mm (50&quot;) diameter – 23 Ducts/hour</td>
<td>0.9 mm (0.035&quot;) thickness – 1250 mm (50&quot;) diameter – Up to 40 Ducts/hour</td>
<td>0.9 mm (0.035&quot;) thickness – 1250 mm (50&quot;) diameter – 23 Ducts/hour</td>
</tr>
</tbody>
</table>

### 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 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
UNIQUE FEATURES
Configurable to your own needs

- **Spiro® Speed Carrier (SSC)**
  - Increases production capacity up to 30%

- **Vertical Decoiler DCV-1000**
  - Standard decoiler with max. 1000 kg loading capacity

- **Cassette System**
  - Fast set-up and ergonomic

- **Form Roll Unit (FRU)**
  - Standard unit with highest steel quality rollers

- **Slitter Model H**
  - Superior cutting / minimized maintenance / easy set-up

- **Quick-lock System**
  - Optional fast change of forming heads

- **Automatic Corrugation Unit**
  - Produce ducts with smooth inside surface at the ends but reinforced with corrugation

- **Standard Corrugation Unit**
  - Reinforce your ducts with dimensions >250mm

- **Drive Configuration**
  - Different configurations to empower the production capacities

- **Individual Engraving / Fixed Lockseam**
  - For marketing purposes / For assured duct quality

- **Post-tensioning Application**
  - Special duct application for construction industry

- **Spiro® Connect**
  - Digitalize your production planning

**Collapsing pressure for duct SR**

<table>
<thead>
<tr>
<th>Diameter Ø</th>
<th>80</th>
<th>100</th>
<th>125</th>
<th>160</th>
<th>200</th>
<th>250</th>
<th>315</th>
<th>400</th>
<th>500</th>
<th>630</th>
<th>800</th>
<th>1000</th>
<th>1250</th>
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<tbody>
<tr>
<td>0.45</td>
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<td>0.8</td>
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<td>0.9</td>
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</tr>
</tbody>
</table>

**Negative Pressure [kPa]**

- **Without stiffening corrugations**
  - 40.0°
  - -21.4
  - -17.0
  - -11.7
  - -7.2
  - -4.3
  - -6.0
  - -3.9
  - -4.0
  - -3.8
  - -3.2
  - -1.0
  - -0.8

- **With stiffening corrugations**

*Collapse not achieved
**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.

**Unique Features**

- 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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter Range</td>
<td>80 - 2500 mm (3&quot; - 100&quot;)</td>
</tr>
<tr>
<td>Strip Thickness</td>
<td>0.4 - 2.0 mm (0.016&quot; - 0.079&quot;) galvanized steel</td>
</tr>
<tr>
<td></td>
<td>0.4 - 1.3 mm (0.016&quot; - 0.051&quot;) stainless steel</td>
</tr>
<tr>
<td></td>
<td>0.4 - 2.0 mm (0.024&quot; - 0.079&quot;) aluminium</td>
</tr>
<tr>
<td>Cutting System</td>
<td>High Performance Slitter Model H and/or Plasmacutter</td>
</tr>
<tr>
<td>Other Applications</td>
<td>Voidforming / Mining ventilation / Jacketing</td>
</tr>
<tr>
<td>Basic Machine</td>
<td>Heavy duty frequency controlled main drive</td>
</tr>
<tr>
<td></td>
<td>Hydraulically operated clinching roller</td>
</tr>
<tr>
<td></td>
<td>Automatic length measuring system</td>
</tr>
<tr>
<td></td>
<td>Motorized angle adjustment</td>
</tr>
<tr>
<td></td>
<td>Hydraulically controlled drive roller pressure</td>
</tr>
<tr>
<td>Performance Tested / Guaranteed (duct of 3 m length)</td>
<td>0.5 mm (0.020&quot;) thickness – 100 mm (4&quot;) diameter – 180 Ducts/hour</td>
</tr>
<tr>
<td></td>
<td>0.7 mm (0.028&quot;) thickness – 500 mm (20&quot;) diameter – 53 Ducts/hour</td>
</tr>
<tr>
<td></td>
<td>0.9 mm (0.035&quot;) thickness – 1250 mm (50&quot;) diameter – 23 Ducts/hour</td>
</tr>
<tr>
<td></td>
<td>1.25 mm (0.049&quot;) thickness – 1600 mm (64&quot;) diameter – 19 Ducts/hour</td>
</tr>
<tr>
<td></td>
<td>2.0 mm (0.079&quot;) thickness – 2000 mm (80&quot;) diameter - 15 Ducts/hour, with corrugation</td>
</tr>
</tbody>
</table>
DECOILER DCH-3000

The DCH-3000 decoiler is a horizontal decoiler for up to 3 coils. The design allows a quick 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.

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Max. Coil Weight</th>
<th>Max 3 Coils - 1000 kg each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Speed</td>
<td>100 m/min.</td>
<td></td>
</tr>
<tr>
<td>Coils Dimensions</td>
<td>Inside diameter min. 508 mm (20&quot;)</td>
<td></td>
</tr>
<tr>
<td>Outside Diameter</td>
<td>Max. 1400 mm (55&quot;)</td>
<td></td>
</tr>
<tr>
<td>Strip Thickness</td>
<td>0.4 - 1.6 mm (0.016” - 0.063&quot;)</td>
<td></td>
</tr>
<tr>
<td>Strip Width</td>
<td>Max. 150 mm (6&quot;)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>750 Kg</td>
<td></td>
</tr>
</tbody>
</table>

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.

FORMING HEADS

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

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

- **Lower Heating / Cooling Energy Use**
  - E [kWh]
  - Lower energy consumption
  - Lower maintenance costs

- **Lower Fan Energy Use**
  - E [kWh]
  - Lower energy consumption
  - Lower maintenance costs

- **Lower Air Leakage**
  - Lower air leakage
  - Lower energy consumption

- **Less Material Cost / Shorter Installation Time**
  - Lower material cost
  - Shorter installation time

**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

**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

**Jacketing**

- 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**

- 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
CURVECUTTER / PLASMACUTTER

CUTTING

ROLLFORMER

ROUNDING

SPOTWELDER / STITCHWELDER

WELDING

SPIRO® SHAPER / FITTINGSHAPER

SEALING

AEM 400 PRO / GORELOCKER

FLANING & CLOSING

BEND & FITTING PRODUCTION
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.

**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

---

**Technical Data**

<table>
<thead>
<tr>
<th>PLASMACUTTER</th>
<th>FLORETT</th>
<th>CUTLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Work Area</strong></td>
<td>1500 x 3000 mm (5’ x 10’)</td>
<td>1500 x 6000 mm (5’ x 20’)</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>300 segments/hour - size 315 mm/90°</td>
<td>240 segments/hour - size 315 mm/90°</td>
</tr>
<tr>
<td>** Traverse Speed**</td>
<td>40 m/min. (131 fpm) both X- and Y-axis</td>
<td>&gt;22 m/min (&gt;72 fpm)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>4 kVA / 380-480V / 50 or 60Hz / 3-phases</td>
<td>60 Amp</td>
</tr>
</tbody>
</table>

---

**PLASMACUTTER FLORETT**

**Unique Features**

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

---

**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**

**Unique Features**

- 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!

**Unique Features**

» 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Sheet Width</td>
<td>1500 mm (60&quot;)</td>
</tr>
</tbody>
</table>
| 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)            |
| Elbow 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 Gorelocker family.

Unique Features
- 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter Range</td>
<td>100 - 1000 mm (4&quot; - 40&quot;)</td>
</tr>
<tr>
<td>Maximum Width of Blank</td>
<td>800 mm (31&quot;) (depending on thickness &amp; Ø)</td>
</tr>
</tbody>
</table>
| 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 throughout 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**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding Length</td>
<td>50 mm - 1000 mm (2” - 40”)</td>
</tr>
<tr>
<td>Diameter Range</td>
<td>75 - 1000 mm (3” - 40”)</td>
</tr>
<tr>
<td>Material Thickness</td>
<td>0.4 - 1.0 mm (0.016” - 0.039”)</td>
</tr>
<tr>
<td>Overlap</td>
<td>6 mm (0.24”) for 1000</td>
</tr>
<tr>
<td>Wire Diameter</td>
<td>2 mm (0.078”)</td>
</tr>
<tr>
<td>Adjustable Welding Speed</td>
<td>2 - 15 m/min. (6.6 - 49.2 fpm)</td>
</tr>
<tr>
<td>Maximum Output</td>
<td>700 segments/hour - size 315 mm/90°</td>
</tr>
</tbody>
</table>

**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”!
Combine the Fittingshaper 1250 & Spiro® Shaper to achieve the full dimension range of rubber gasket on your fittings!

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.

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

Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter Range</td>
<td>125 - 1250 mm (5” - 50”)</td>
</tr>
<tr>
<td>Material Thickness</td>
<td>0.5 - 0.9 mm (0.020” - 0.035”) galvanized steel</td>
</tr>
<tr>
<td></td>
<td>0.5 - 0.8 mm (0.020” - 0.031”) stainless steel</td>
</tr>
<tr>
<td>Hydraulic System</td>
<td>All drives &amp; movements</td>
</tr>
<tr>
<td>Power Supply</td>
<td>5 kVA / 400V / 50 Hz (other voltage on request)</td>
</tr>
<tr>
<td>Maximum Output</td>
<td>2-gaskets (Ø300 mm) in less than 2 minutes</td>
</tr>
</tbody>
</table>

Combine the Fittingshaper 1250 & Spiro® Shaper to achieve the full dimension range of rubber gasket on your fittings!
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)

**Double lip gasket**

Double lip gasket ensures tightness class D
GORELOCKER COMBI-T

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.

Unique Features
» 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

<table>
<thead>
<tr>
<th>Diameter Range</th>
<th>125 - 1250 mm (5” - 50”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness</td>
<td>0.4 - 1.5 mm (0.016” - 0.059”) galvanized steel</td>
</tr>
<tr>
<td></td>
<td>0.4 - 1.0 mm (0.016” - 0.039”) stainless steel</td>
</tr>
<tr>
<td></td>
<td>0.4 - 1.5 mm (0.016” - 0.059”) aluminium</td>
</tr>
<tr>
<td>Flanging Speed</td>
<td>Max. 120 m/min. (394 fpm)</td>
</tr>
<tr>
<td>Maximum Output</td>
<td>40 bends/hour (4 segments – Ø 200 mm bend)</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>3 x 400 V / 50 Hz / 4 kVA (other connections on request)</td>
</tr>
</tbody>
</table>
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: Recommended configurations, max Ø range per machine is 80mm
  - 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: Recommended configurations, max Ø range per machine is 80mm
  - 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of Arm</td>
<td>400 mm (15&quot;)</td>
</tr>
<tr>
<td>Minimum Tube Diameter</td>
<td>100 mm (4&quot;)</td>
</tr>
<tr>
<td>Maximum Material Thickness</td>
<td>Galvanized steel 2 x 1.5 mm (2 x 0.059&quot;)</td>
</tr>
<tr>
<td></td>
<td>3 x 1.0 mm (3 x 0.039&quot;)</td>
</tr>
<tr>
<td></td>
<td>Stainless steel 2 x 0.8 mm (2 x 0.031&quot;)</td>
</tr>
<tr>
<td>Capacity</td>
<td>60 stroke/min.</td>
</tr>
<tr>
<td>Pre Stroke</td>
<td>52 mm (2&quot;)</td>
</tr>
<tr>
<td>Press Stroke</td>
<td>8 mm (0.31&quot;)</td>
</tr>
<tr>
<td>Total Stroke</td>
<td>60 mm (2.4&quot;)</td>
</tr>
<tr>
<td>Air Supply</td>
<td>6 bar</td>
</tr>
</tbody>
</table>

SPOTWELDER

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

### Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding Power</td>
<td>Max. 55 kVA</td>
</tr>
<tr>
<td>Diameter Range</td>
<td>75 - 1000 mm (3&quot; - 40&quot;)</td>
</tr>
<tr>
<td>Air Pressure</td>
<td>6 Bar</td>
</tr>
<tr>
<td>Stroke of Electride</td>
<td>10 - 60 mm (0.39&quot; - 2.36&quot;)</td>
</tr>
<tr>
<td>Depth of Arm</td>
<td>380 - 700 mm (14.36&quot; - 27.55&quot;)</td>
</tr>
<tr>
<td>Maximum Output</td>
<td>200 segments/hour - size 315 mm/90°</td>
</tr>
</tbody>
</table>

ROLLFORMER RME / ROLLFORMER 1270

Rollformer to make round-shaped metal parts.

### Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>RME</th>
<th>1270</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rollformer</td>
<td>RME (0.047&quot;)</td>
<td>1270 (0.047&quot;)</td>
</tr>
<tr>
<td>Material Thickness</td>
<td>1280 mm (50&quot;)</td>
<td>1270 mm (50&quot;)</td>
</tr>
<tr>
<td>Roller Length</td>
<td>100 - 1000 mm (4&quot; - 40&quot;)</td>
<td>100 - 1000 mm (4&quot; - 40&quot;)</td>
</tr>
<tr>
<td>Working Diameter</td>
<td>60 mm (2.36&quot;)</td>
<td>68 mm (2.67&quot;)</td>
</tr>
<tr>
<td>Roll Diameters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working Mode</td>
<td>Dual-Speed</td>
<td>Single-Speed</td>
</tr>
<tr>
<td>Maximum Output</td>
<td>400 segments/hour - size 315 mm/90°</td>
<td>250 segments/hour - size 315 mm/90°</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness</td>
<td>Max. 1.7 mm (0.067&quot;) — mild steel</td>
</tr>
<tr>
<td>Arm Length</td>
<td>250 mm (10&quot;)</td>
</tr>
<tr>
<td>Diameter</td>
<td>63 mm (2.48&quot;) (Rolls)</td>
</tr>
<tr>
<td>Working Speeds</td>
<td>6 m/min. (20 fpm) or 12 m/min. (39 fpm)</td>
</tr>
</tbody>
</table>
FROM ROUND TO FLAT OVAL

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

<table>
<thead>
<tr>
<th></th>
<th>Size</th>
<th>Tube Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Width</td>
<td>Max. 1220 mm (48&quot;)</td>
<td>3000 mm (10&quot;)</td>
</tr>
<tr>
<td>Tube Length</td>
<td>150 x 435 mm - 915 x 2650 mm (6&quot; x 7&quot; - 36&quot; x 106&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Material Width</th>
<th>Material Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Max. 1220 mm (48&quot;)</td>
<td>Max. 1.0 mm (0.039&quot;)</td>
</tr>
<tr>
<td>Tube Length</td>
<td>3000 mm (10&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

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

**Technical Data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processable Sheet Thickness</td>
<td>0.5 - 1.25 mm (0.020” - 0.049”) on request up to 1.5 mm (0.059”)</td>
</tr>
<tr>
<td>Max. Coil Width</td>
<td>1500 mm (60”)</td>
</tr>
<tr>
<td>Max. Coil Weight</td>
<td>Standard 5 tons</td>
</tr>
<tr>
<td>Duct Dimension for Box Sections</td>
<td>Min. 125 x 125 mm (4.9” - 4.9”) / Optional: 100 x 100 mm (4” x 4”)</td>
</tr>
<tr>
<td>Capacity</td>
<td>Up to 5-10 tons/day</td>
</tr>
</tbody>
</table>

**INTEGRATED FLANGE OPTIONS**

- **Plain Flange** (Drive Cleat)
- **TDF Flange**
- **TDC Flange**
- **SPC Flange 20/30**

*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!*
UNIQUE MODULAR SYSTEM
Configurable to your own needs

Up to 6 decoilers (5 or 7 tons)
Sheet Selector Unit
Automatic Hydraulic Notching Unit
Standard Roller Shear Slitting Unit
Automatic Roller Shear Slitting Unit
Automatic Slitting Unit & Punching System Combined
Automatic Punching System for Tie Rod
Crosscut Pittsburgh Unit
Rollforming Unit for Selected Integrated Flange System
Automatic Folding (& Closing) Unit
Heavy Duty Shear for >1.5mm
Spiro® Control System

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**

<table>
<thead>
<tr>
<th>Rollforming Machine</th>
<th>20</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheet Thickness</td>
<td>0.5 - 0.9 mm galvanized steel</td>
<td>0.8 - 1.2 mm galvanized steel</td>
</tr>
<tr>
<td>Min. Blank Length</td>
<td>230 mm</td>
<td>230 mm</td>
</tr>
<tr>
<td>Max. Working Speed</td>
<td>18 m/min</td>
<td>18 m/min</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th></th>
<th>20</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processable Sheet Thickness</td>
<td>0.5 - 1.2 mm</td>
<td>0.5 - 1.2 mm</td>
</tr>
<tr>
<td>Max. Working Speed</td>
<td>8 m/min</td>
<td>8 m/min</td>
</tr>
<tr>
<td>Tooling</td>
<td>2 set of rollers included, TDC or TDF + clips</td>
<td>2 set of rollers included, TDC or TDF + clips</td>
</tr>
</tbody>
</table>

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
- Hardened rollers for long lifetime

**Technical Data**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Sheet Width</td>
<td>2500 mm</td>
<td></td>
</tr>
<tr>
<td>Processable Sheet Thickness</td>
<td>0.4 - 1.2 mm, galvanized steel</td>
<td></td>
</tr>
<tr>
<td>Max. Working Speed</td>
<td>15 m/min</td>
<td></td>
</tr>
</tbody>
</table>
LOCKFORMING MACHINE 16’S GAUGE
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”)

Technical Data
- Material Thickness: 0.7 – 1.6 mm (0.028” – 0.063”) galvanized steel
- Pittsburgh pocket size: 12.5 mm (0.49”)

FLANING 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

Technical Data
- Diameter Range: Up to 15 mm (0.59”) high angled flange
- Material Thickness: 0.7 – 1.6 mm (0.028” – 0.063”) galvanized steel

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

Technical Data
- Working Length: 2000 mm
- Max. Thickness: 1.25 mm
- Min. Duct Square: 150 x 150 mm
- Min. Radius on 90° Bends: 300 mm
- Max. Working Speed: 15 m/min
*All sizes of Pittsburgh locks can be operated on request

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.

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

Technical Data
- Material Thickness: 0.5 - 1.0 mm (0.020” – 0.039”) galvanized steel
- Speed: Max. 15 m/min. (49 fpm)
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.

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

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
**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**

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

### TUBEFORMER 1602 PACKAGES

#### Package Contents

**Formroller Unit No.1A/1N**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formroller set no. 1 (Complete)</td>
<td>1</td>
</tr>
<tr>
<td>Roller axle 0.5 - 137 mm</td>
<td>6</td>
</tr>
<tr>
<td>Upper Guide Roller (Complete)</td>
<td>1</td>
</tr>
<tr>
<td>Shaft guide roller</td>
<td>1</td>
</tr>
<tr>
<td>Ball bearing skf 6203-2rs1</td>
<td>16</td>
</tr>
<tr>
<td>Countersunk unbraco screw M6 (1A)</td>
<td>16</td>
</tr>
<tr>
<td>Collar m6 (1N)</td>
<td>12</td>
</tr>
<tr>
<td>Spring retaining ring D-30x1.50 (1A)</td>
<td>12</td>
</tr>
<tr>
<td>Axle nut km6 (1N)</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Package Contents

**Formroller Unit No. 3**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formroller set no. 3</td>
<td>1</td>
</tr>
<tr>
<td>Roller axle 0.9 - 137 mm</td>
<td>6</td>
</tr>
<tr>
<td>Upper Guide Roller (Complete)</td>
<td>1</td>
</tr>
<tr>
<td>Shaft guide roller</td>
<td>1</td>
</tr>
<tr>
<td>Ball bearing skf 6203-2rs1</td>
<td>16</td>
</tr>
<tr>
<td>Countersunk unbraco screw m6</td>
<td>16</td>
</tr>
<tr>
<td>Spring retaining ring D-30x1.50</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Package Contents

**Formroller Unit No. 4**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formroller set no. 4</td>
<td>1</td>
</tr>
<tr>
<td>Roller axle 1.2 - 140 mm</td>
<td>6</td>
</tr>
<tr>
<td>Upper guide roller 140 mm (complete)</td>
<td>1</td>
</tr>
<tr>
<td>Shaft guide roller</td>
<td>1</td>
</tr>
<tr>
<td>Ball bearing skf 6203-2rs1</td>
<td>16</td>
</tr>
<tr>
<td>Countersunk unbraco screw m6</td>
<td>16</td>
</tr>
<tr>
<td>Spring retaining ring D-30x1.50</td>
<td>12</td>
</tr>
</tbody>
</table>

### GUIDEPLATE PACKAGES

#### Package Contents

**Guideplate Lower / Guideplate Upper**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guideplate Lower</td>
<td></td>
</tr>
<tr>
<td>Lower front guide plate</td>
<td>1</td>
</tr>
<tr>
<td>Lower rear guide plate</td>
<td>1</td>
</tr>
<tr>
<td>Guideplate Upper</td>
<td></td>
</tr>
<tr>
<td>Upper front guide plate</td>
<td>1</td>
</tr>
<tr>
<td>Upper rear guide plate</td>
<td>1</td>
</tr>
</tbody>
</table>

### DRIVE ROLLER (FULL TUBEFORMER 1602) PACKAGE

#### Package Contents

**Drive Roller Package**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive roller upper std</td>
<td>1</td>
</tr>
<tr>
<td>Lower drive roller std</td>
<td>1</td>
</tr>
<tr>
<td>Axle upper drive roller (complete)</td>
<td>1</td>
</tr>
<tr>
<td>Axle lower (complete)</td>
<td>1</td>
</tr>
<tr>
<td>Axle encoder upper drive roller</td>
<td>1</td>
</tr>
<tr>
<td>Flexi coupling 6/8 mm</td>
<td>1</td>
</tr>
<tr>
<td>Skf 6210-2rs1</td>
<td>1</td>
</tr>
<tr>
<td>Skf 6212-2rs1</td>
<td>1</td>
</tr>
<tr>
<td>Skf 6011-2rs1</td>
<td>1</td>
</tr>
<tr>
<td>O-rings</td>
<td>3</td>
</tr>
<tr>
<td>O-rings</td>
<td>1</td>
</tr>
<tr>
<td>Loctite 641 10ml</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Package Contents

**Drive Roller Package Continued**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing housing upper</td>
<td>1</td>
</tr>
<tr>
<td>Bearing housing outside</td>
<td>1</td>
</tr>
<tr>
<td>Bearing cover outside without encoder</td>
<td>1</td>
</tr>
<tr>
<td>Bearing cover motor side</td>
<td>1</td>
</tr>
<tr>
<td>Bearing housing motor side</td>
<td>1</td>
</tr>
<tr>
<td>Cylinder head screw m8x25-12,9 din 912</td>
<td>12</td>
</tr>
<tr>
<td>Countersunk screw isk m8x20</td>
<td>4</td>
</tr>
<tr>
<td>Adjusting screw</td>
<td>2</td>
</tr>
<tr>
<td>Countersunk unbraco screw m4x12</td>
<td>4</td>
</tr>
</tbody>
</table>
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.

**Create .txt file**
- Can be created with any additional software e.g. CamDuct / Any text file is possible to upload & download e.g. CSV, TXT etc.

**Machine HMI**

**DOWNLOAD via Network or USB**
- Receive Report

**UPLOAD via Network or USB**
- Create .txt file

**SPIRO® ACCESS**
- Direct online Remote helpdesk*
- Fast support anywhere on the world
  * All machines with the Spiro® Control System / Any VNC Viewer can be used

**SPIRO® T BOX**
- Deeper troubleshooting and software update for your machine (Internet access required)
SPIRO® TUBEFORMER LEGACY

1956
- Tubeformer 300
- Tubeformer 200
1959
- Tubeformer 401
- Tubeformer 403 B
1963
- Tubeformer 600
1969
- Tubeformer 800
1971
- Tubeformer 700
1976
- Tubeformer 1600
1980
- Tubeformer 2002
- Tubeformer MR
- Tubeformer JR
1984
- Tubeformer MRX
1989
- Tubeformer JRX 1212
1990
- Tubeformer JRX 1210
1992
- Tubeformer JRX 1610
1994
- Tubeformer 2525
1996
- Tubeformer 1613
1998
- Tubeformer 1602
2002
- Tubeformer 2020
2008
- Tubeformer PRO
2009
- Tubeformer SMART
2013
- Tubeformer X-20
2017
- Tubeformer 1602 modular edition
2019
- Spiro® Connect for Tubeformer 1602/2020

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