



SPIRAL DUCT MACHINE

Compact spiral duct production. Built for flexibility.

SIDEKICK ADVANTAGE

The SideKick combines heavy-duty construction with a compact, portable design, simple operation and variable speed control. Material forms on the outside of the Helix head to help reduce scrap, while micro-drop lubrication keeps the exterior of the pipe oil-free and ready for paint.

KEY NOTES

Patented Dimple-Lock Seaming

Helps eliminate seam slippage by locking the four plies together at opposing points.

Micro-Drop Lubrication

Uses minimal lubrication over the Helix mandrel, keeping the exterior of the duct dry and clean.

Photo-Eye Length Control

Non-contact photo eyes slow and stop production at the selected spiral length.

Flexible Production

Produces smooth wall, single bead, double bead, Diamond Plate, Nubbins and perforated spiral.

Compact. Portable. Productive.

- Small-footprint design
- Portable with user-friendly controls
- Quick-change lightweight Helix heads

TECHNICAL SPECIFICATIONS

Production diameter	4 in. - 36 in.
Mild steel	26 ga - 22 ga
Stainless steel	Up to 24 ga
Maximum speed	180 lineal ft/min
Coil I.D. / O.D.	20 in. / 46 in.
Strip width - 3 to 7 in.	2.95 in.
Strip width - 8 to 48 in.	5.875 in.
Main drive motor	7 HP, 220 V, 3 phase
Cut-off motor	3 HP, 220 V, 3 phase
Machine dimensions	78 in. x 96 in.*

*Less run-out table

MATERIAL CAPABILITY

Galvanized, satin coat (paint grip), aluminum, polyvinyl coated, stainless steel and pre-painted metal. The SideKick also supports light-gauge specialty metals including copper and brass.

DIMPLE-LOCK SEAMING ROLLS

The patented seaming rolls form the groove that receives the four plies of metal, then lock the plies together with dimples positioned on opposite edges. This helps prevent the metal from sliding within the seam when spiral is cut or openings are made for diffusion. Welding is not required to keep the seam from pulling apart when ovalizing spiral.

MICRO-DROP LUBRICATION

Because spiral is produced on the outside of the mandrel, lubrication is not required on the exterior of the duct. Minimal lubrication is used during forming, leaving the outside dry and reducing the need for draining, washing or additional cleanup before painting.

PRODUCTION SYSTEM

- Single uncoiler integrated into the machine structure.
- Prepared for simple installation of an optional second uncoiler.
- Standard single roll-out table for 10 ft lengths; additional table available for longer lengths.
- Non-contact photo-eye system ramps speed down and stops at the measured length.

SPECIALTY METALS

- Copper and brass can be produced as thin as .021 in. (26 ga). Aluminum can be produced using .032 in. material; 5052 grade is recommended.
- Light-gauge stainless steel can be produced with a scratch-free exterior.
- Impressions and reinforcement beads can be formed without scratching the exterior.

DESIGN OPTIONS

SMOOTH WALL

SINGLE BEAD

DOUBLE BEAD

DIAMOND PLATE

NUBBINS

PERFORATING

BUILT FOR HVAC FABRICATORS

SideKick Spiral Duct Machines are suited to shops beginning in-house spiral production as well as established fabricators looking to broaden their material and design capabilities. Impression designs can also be used for oval spiral while maintaining the formed pattern.

Expand what your shop can produce.

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