

Pipe Coil Technology Limited

Semiautomatic Coiling Technology





We offer a wide range of semiautomatic coiling machines to cover most coiling applications from small diameter tube, hose and conduit up to 180mm diameter HDPE pressure pipe. Semiautomatic coilers offer a lower cost alternative to fully automatic coiling machines and will provide the most cost effective equipment solution in applications where coiler utilisation is low, or where one operator can oversee the operation of two or more machines. With all these machines the product is cut by the cutting device at the end of the extrusion line, or by the operator, and is manually attached to the coiler at the start of each coil cycle. Coil packaging, usually a number of straps or tapes, is applied by the operator and the operator is required to unload or assist with unloading of finished coils. These coilers wind the product as it emerges from the extrusion line, automatically following extrusion speed using dancer arm or torque control, and they automatically layer the pipe into the desired coil shape.

Benefits of all our semiautomatic coiling machines;

- /// Efficient one person operation
- /// Robust construction
- /// Compliance with CE, OSHA and UL legislation

Semiautomatic coiling systems for small diameter flexibles

{typically for 10mm to 63mm diameter smooth walled pipe, corrugated pipe or hose}

A range of single and twin head coiling machines covering applications such as;

- /// HDPE pressure pipe
- /// Plumbing pipe
- /// Irrigation & drip irrigation tube
- /// Geothermal pipe, single or tandem coiling
- /// Automotive tube
- /// Medical tube
- /// Industrial hose
- /// Garden hose
- /// Profiles & custom extrusions



Range summary			
Model ref	SPC032SH	SPC060TH	SPC060SH
Coil heads	2	2	1
Pipe size	10 to 32mm	20 to 63mm	20 to 63mm
Coil ID	300 to 800mm	600 to 1500mm	600 to 1500mm
Coil OD	ID + 400	ID + 600	ID + 600
Coil width	50 to 400mm	100 to 500mm	100 to 500mm

Pipe Coil Technology Limited also produce two semiautomatic twin head spooling machines for winding small diameter flexibles onto plastic or plywood spools. These machine feature automatic transfer of product from reel to reel which occurs with minimal change to in-feed speed and are suitable for line speeds up to 250ft/min. Changing reels is the only manual task, with all other functions being performed automatically by the coiler.

Range summary		
Model ref	TS500	TS750
Reel/Coil OD (max)	500mm	750mm
Reel/Coil width	100 to 360mm	100 to 360mm
Reel/Coil weight (max)	20 Kg	30 Kg





Semiautomatic coiling systems for large diameter flexibles

{typically for 40mm to 200mm diameter}

A range of single head semiautomatic coiling machines developed specifically for use with HDPE, PEX and nylon pressure pipe, composite pipes and pre-insulated pipes.

Main features;

- ▄ Wide range of coil head adjustment
- ▄ Integrated coil unload systems with semiautomatic 'one touch' unload sequencing
- ▄ Safe and ergonomic operation
- ▄ Automatic pipe layering
- ▄ Automatic stop at pipe end
- ▄ Wheel mounting to allow easy movement between lines
- ▄ Interchangeable pipe support plates enabling maximum support area across range of coiling diameters
- ▄ Powered wrap arm tucks tail end of pipe into coil for easy strapping and compact coil shape



Add on Technologies;

- ▄ Low ovality technology - reduces pipe ovality in PE and PEX pipes
- ▄ Automatic strapping - automates the application of intermediate and final layer straps

Range summary

Model ref	SPC090SH	SPC125SH	SPC125SHW	SPC180SH	SPC180SHW
Pipe size	40 to 90mm	50 to 125mm	50 to 125mm	63 to 180mm	63 to 180mm
Coil ID	1100 to 1800mm	1250 to 2500mm	1250 to 2500mm	1800 to 3000mm	1800 to 3000mm
Coil OD	ID + 900	ID + 900	ID + 900	ID + 1000	ID + 1000
Coil width	100 to 500mm	220 to 600mm	220 to 880mm	440 to 1000mm	440 to 1800mm
Coil weight (max)	300 Kg	500 Kg	750 Kg	1000 Kg	1750 Kg

All machines are available at varying levels of equipment and automation enabling the most cost effective solution to be specified for each application.



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Why industry leaders choose Pipe Coil Technology Limited

- ❧ We are committed to achieving the highest level of customer satisfaction and to building long term, mutually beneficial, partnerships with our customers
- ❧ We are experts at what we do; understanding customer needs, supplying technically superior solutions on time and in budget and providing excellent after sales support throughout product lifetime.
- ❧ Our project management, engineering and technical sales teams include specialists from the extrusion, oil & gas and automation industries who between them have many years experience in creating, delivering and implementing complex equipment solutions.

Products

For plastic pipe, tube, hose & conduit manufacture:

- ❧ Automatic coiling & packaging technology
- ❧ Semiautomatic coiling technology
- ❧ Off-line, high speed coiling technology
- ❧ Low ovality coiling technology (for HDPE pipe)
- ❧ Drum winding technology
- ❧ Engineered coiling solutions

For wire rope and large diameter cable manufacture:

- ❧ Drum take-up and payoff stands
- ❧ Turntables and spoolers
- ❧ Wire spooling and rewinding

For sub-sea umbilical, flow-line and cable manufacture:

- ❧ Carousels and loading systems
- ❧ Drum handling, moving and spooling equipment
- ❧ Production machinery; S-Z lay machines, rotating taping heads, caterpillar haul-offs, drum take-up & payoff stands
- ❧ Wire spooling and rewinding

For sub-sea umbilical, flow-line and cable installation:

- ❧ Carousels and loading systems
- ❧ Drum handling and spooling equipment
- ❧ Cable guides and transfer equipment

Pipe Coil Technology Limited

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