

ACU-CH 3 Circumferential Strap Removal Robot



ACU-CH3 robot for automatic removal of steel strap applied circumferentially to steel coils is available for both hot and cold rolled coil applications. The unit works fully automatically and eliminates the need for operators to perform the sometimes dangerous task of removing tensioned steel strapping.



The ACU circumferential steel strap robot can remove straps from the centre line of coils and also in the indexing option move along the face of the coil, find the strap, cut it, and remove the strap from the coil. The straps are rolled up to reduce the volume of waste and deposited in a waste bin behind the unit.

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The Signode ACU CH3 circumferential coil strap removal robot has been designed as a modular unit with a range of machine options to suit most customer needs & is designed to take into account the steel industry's current and future needs for improved operational safety for operators and for:

- High production throughputs in continuous coil rolling operations
- Maximum machine up-time to remove 19-32mm steel straps from coils
- Increased flexibility with option modules – creates a system to suit most customers needs
- Improved line capacity and safety - highly consistent strap removal, strap rewinding and disposal
- High safety levels - improved work safety as no personnel needed as fully automatic strap removal
- Lower cost of ownership - with low level and easy service & maintenance

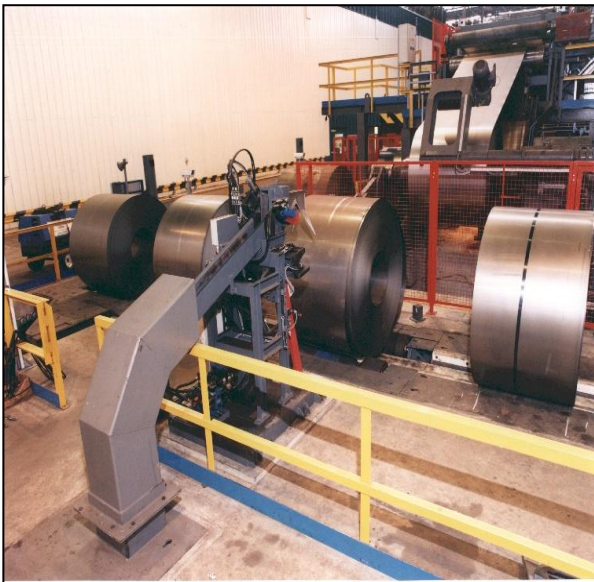
The ACU is prepared as standard with all pneumatic and electrical indexing drives. The standard strap removal head is able to remove seal, seal less and spot-welded straps under tension. The strap cutter and removal head is side-mounted and is free-floating for optimum strap removal, it can accommodate fixed centre line strap removal model or as a mobile unit move along the coil to find multiple straps for cutting.

ACU CH3 Machine Options

- Fixed machine version or indexing model
- Rotating model to serve two coil lines
- Coil handling rotation blocker rollers
- Large or small waste strap bin versions
- Strap waste bin loading crane in both manual and electrical versions
- Machine Safety Guarding Package
- Other PLC Control systems

Technical Specifications

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|--------------------|--------------------|
| • Coil Diameter | 750 mm -2.500mm |
| • Coil Width | 200 mm -2.000mm |
| • Head Stroke | Pneumatic |
| • Strap Dimensions | 19 – 32 mm Steel |
| • Strap Gauge | 0,6- 1,2 mm max. |
| • Controller | Siemens S7-300 |
| • El. Connection | 400V 3Ph 50Hz |
| • Control Voltage | 24 V DC |
| • Consumption | 5 KVA, 150 L/cycle |
| • Machine weight | 2.000 kg approx |



The ACU-CH3 model can be also supplied as moving or revolving model. Waste straps are rolled up by the ACU after cutting and removal from the coil surface in order to reduce their volume and these rolls deposited in a waste scrap container behind the ACU Robot