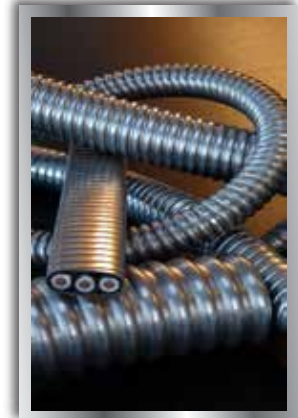


ARMoured CABLE MACHINERY

INTERLOCK • FLEX • UMBILICALS • ESP • CONDUIT • TAPING

CT1 INTERLOCK ARMOURING MACHINES

Calmec CT1 Flexible Armouring Machines are the most advanced single strip armouring machines available. These high speed machines are designed for the production of interlocked armor in a continuous operation. They produce round armored cables, flat down-well pump or ESP (electrical submersible pump) cables, as well as interlocked armour & conduit without cables.



SIMPLE... A methodology for conventional single strip machines designed to provide an accurate and repeatable manufacturing process.

- Easy setup of the machine parameters & tooling
- Less Maintenance
- No Slip Rings
- No Gear Boxes
- No Differentials

...YET SOPHISTICATED

RECIPE DRIVEN HMI SETTINGS

Our Armouring machines are sophisticated in that they are programmed to provide all process parameters. Through the touch screen interface all process parameters, including tooling setups for each product type and size, are displayed with the push of a button.

TRUE TRIPLE DRIVE SYSTEM

Three independent, low power consumption motors for the:

- Main Spindle
- Strip Feed
- Strip Tension

Perfect speed match on all three drives, plus the Cater Puller drive, during acceleration and deceleration.



Calmec Precision Limited
1400 Bonhill Road
Mississauga, ON, Canada
011-1-905-677-7976
sales@calmec.com
www.calmec.com

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ELECTRIC STRIP TENSION CONTROL

- Accurate & constant electrical strip tension control
- No wear parts
- AC Drive runs in regenerative mode pumping power back into the system
- Full display of pad level with low level alarms & run time data
- Automatic tension adjustment based on machine speed, material type & pad size
- Broken strip detection with automatic ramp down

HIGH PRODUCTION SPEEDS

MACHINE MODEL	NOMINAL SIZE	MAX. MACHINE SPEED	MAX. LINE SPEED	STRIP WIDTH RANGE
CT1-32	1 1/4" (32mm)	1300 RPM	35 feet/minute	3/8" - 1/2"
CT1-50	2" (50mm)	1200 RPM	35 feet/minute	3/8" - 1/2"
CT1-100	4" (100mm)	1000 RPM	40 feet/minute	1/2" - 3/4"
CT1-125	5" (125mm)	900 RPM	32 feet/minute	1/2" - 1"

Plug'n'Play tooling, along with adjustable and balanced head angles, provides for maximum production speeds with less downtime.



Bench set tooling fixture provides off line setup. Swivel tooling assemblies provide fast & easy setup.



RECIRCULATING COOLANT & LUBRICANT SYSTEM

- Spray mist lubrication of tooling
- Manual and optional automatic adjustments of misting levels
- Self-contained lubrication system, with recirculation, settling tank, and filtration
- Liquid level sensors with alarms
- Visual inspection of lubricant level, with easy access for cleaning and flushing
- Filtermist collection of excess spray mist at the tooling head



PNEUMATIC CHUCK

Combined with accurate electrical tension control, the strip pay-off also has a pneumatic chuck, which automatically adjusts for the pad expansion as the strip is consumed.

- No stopping for adjustments
- No strip breaks because of a loose pad
- Easy pad loading

A COMPLETE SOLUTION

To complement the CT1 Armoring Machine, CALMEC manufactures a complete range of auxiliary equipment for a full Engineered Armoring Solution.

