

## Specifications:

### Standard Bale Size

Height: 12 – 23" (304 – 584 mm)  
Width: 16 – 40" (406 – 1016 mm)

### Strapper Speed (typical)

Wire feed: 3 seconds  
Wire tension and twist: 3.5 seconds  
(bale size, wire patterns and conveyor details dictate final speeds)

### Wire Size (range)

13 - 13.5 awg (2.32 - 2.18mm) Heavy Duty is standard  
12 - 15 awg (2.67 – 1.82mm ) optional ranges

Machine Weight (dry): 1,390lbs (612kgs)  
Noise level: 90-95 dba at 1 meter.  
Solenoids, Switches and Sensors: 24VDC

## Requirements

Models 61B012 conveyor and 50B019 coil cart.

Machine grade wire: see Cranston specification CS003

### Pneumatic supply:

.1 scfm (2.8l/m) @ 60psi (4.2 bar)

### Electrical supply:

Motor: 575V/460V, 3 phase  
Control: 220V/110V, 1 phase  
(electrical interface via umbilical cords from adjacent conveyor)

Appropriate control interlocks.

## Included Features:

- EZ thread wire entry system
- SAE and JIC fittings on pressure side of Hydraulics
- Auto oiler
- Air Jet Kit (Knotter jets and handheld air gun)
- Out of wire sensor and beacon light
- Swing arm for operator interface
- Conveyor control w/selectable wire positions (FWD only)

## Typical Options:

- Test stand (electrical source for off line testing)
- Test bale (substitute product for off line testing)
- Retracting wire guides
- Laptop with software
- External programmer port
- Auto reversing conveyor control
- Push button Controls
- SAE Tool Kit
- Crossover wire entry (requires additional items)
- Custom product sizes
- Custom components
- Custom voltages
- Custom paint finishes
- CSA Electrical components
- CE certification

## Alternate Models



**Series 987EP**  
Electric - Pneumatic  
Wire strapping system



**Series 1500 Rap Press,**  
Wrapper Gluing System



**Series 2005 Rap Strap,**  
Paper Strapping System



## FOR FURTHER DETAILS CONTACT: Cranston Machinery Co., Inc.

2251 SE Oak Grove Blvd., Oak Grove, OR. 97267  
Phone: 503-654-7751 Fax: 503-654-6172

[www.cranston-machinery.com](http://www.cranston-machinery.com)

All products and services are covered by Cranston standard terms and conditions, including limits of liability and warrantee effective at the time of sale. Available upon request.

Technical Specification T024 090808

**CRANSTON**  
**MACHINERY CO. INC.**

## Automatic Wire Strapper

Series 986  
Hydraulically powered



**On Board Hydraulics!**  
**Unbeatable Quality!**

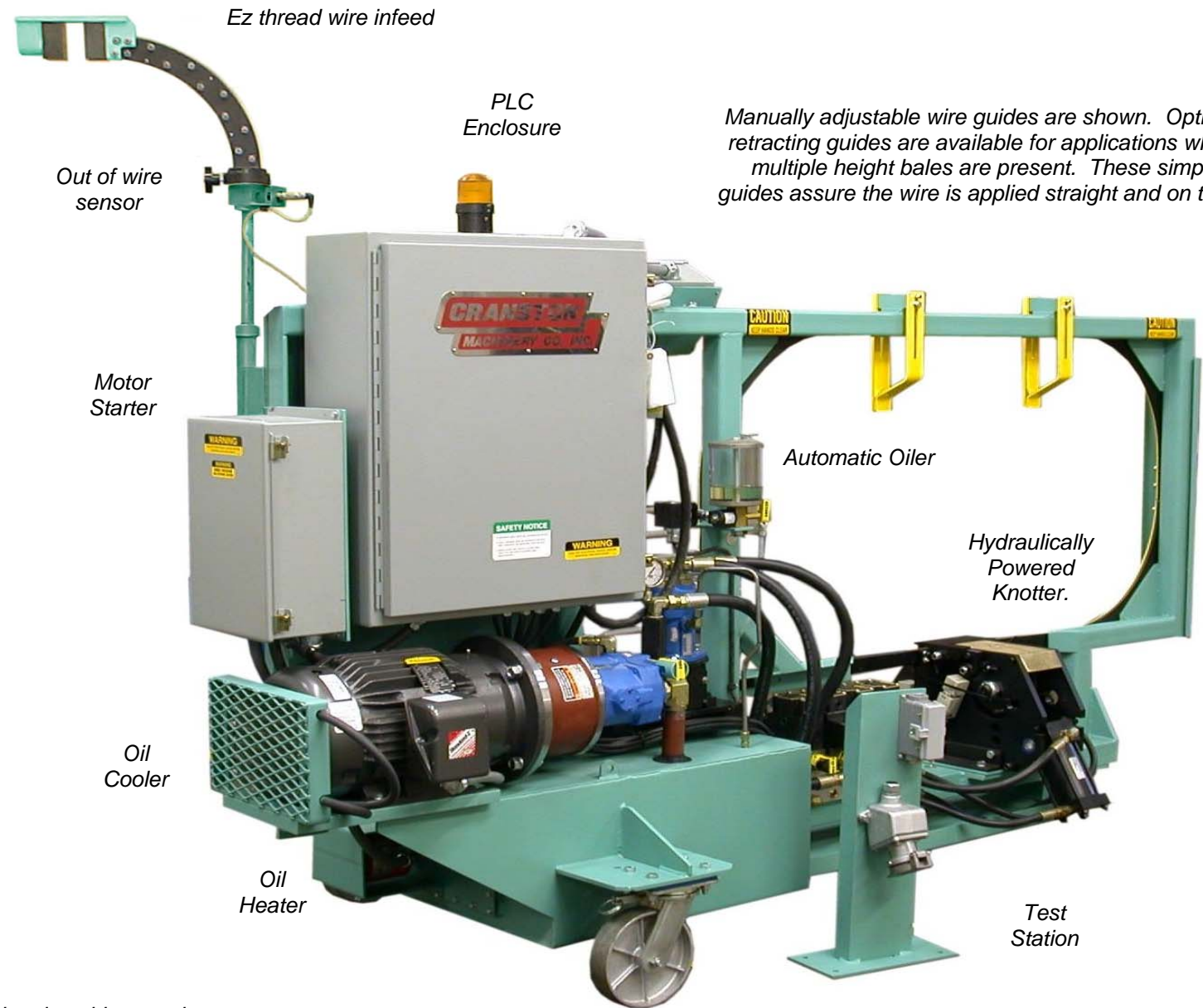
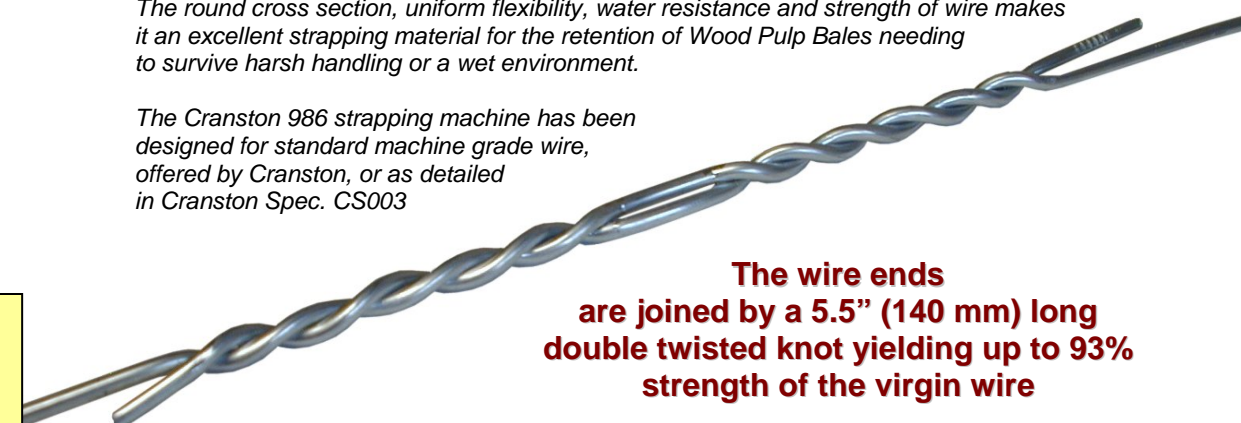
*From the worlds leader in  
Automatic Wire Strapping Equipment*

# Automatic Machine Grade Wire

The round cross section, uniform flexibility, water resistance and strength of wire makes it an excellent strapping material for the retention of Wood Pulp Bales needing to survive harsh handling or a wet environment.

The Cranston 986 strapping machine has been designed for standard machine grade wire, offered by Cranston, or as detailed in Cranston Spec. CS003

**The wire ends are joined by a 5.5" (140 mm) long double twisted knot yielding up to 93% strength of the virgin wire**



Manually adjustable wire guides are shown. Optional retracting guides are available for applications where multiple height bales are present. These simple guides assure the wire is applied straight and on target

At the heart of the Cranston 986 wire strapper, is the industries most robust and reliable Knotter head. The 900 series head has proven itself worthy of this title for over 25 years and offers features such as a double sided gripper, 8 sided cutter insert and proximity switches with LED indicators.

Wire Size:	Weight:	Consumption:
Economy: 15 awg (1.83 mm) Heavy duty: 13.5 awg (2.18 mm)	Typical coil weight: 1800 lb (816 kg)	Economy = 5,450 bales / 1800 lb (816 kg) Heavy duty = 3,821 bales / 1800 lb (816 kg)
Yield:	Break Strength:	Typical bale 30" (762 mm) x 30" (762 mm) x 15" (381mm) with a 2x1 strap pattern  Actual bales per wire stand will depend on the number of wire strappers in the packaging line.
Economy = 72.3 ft/lb (48.6 M/kg) Heavy duty = 50.69 ft/lb (34.1 M/kg)	Economy = 595 lb (270 kg) Heavy duty = 845 lb (383 kg) (145K psi (10.2K kg/cm2) tensile wire)	

## The 986 System

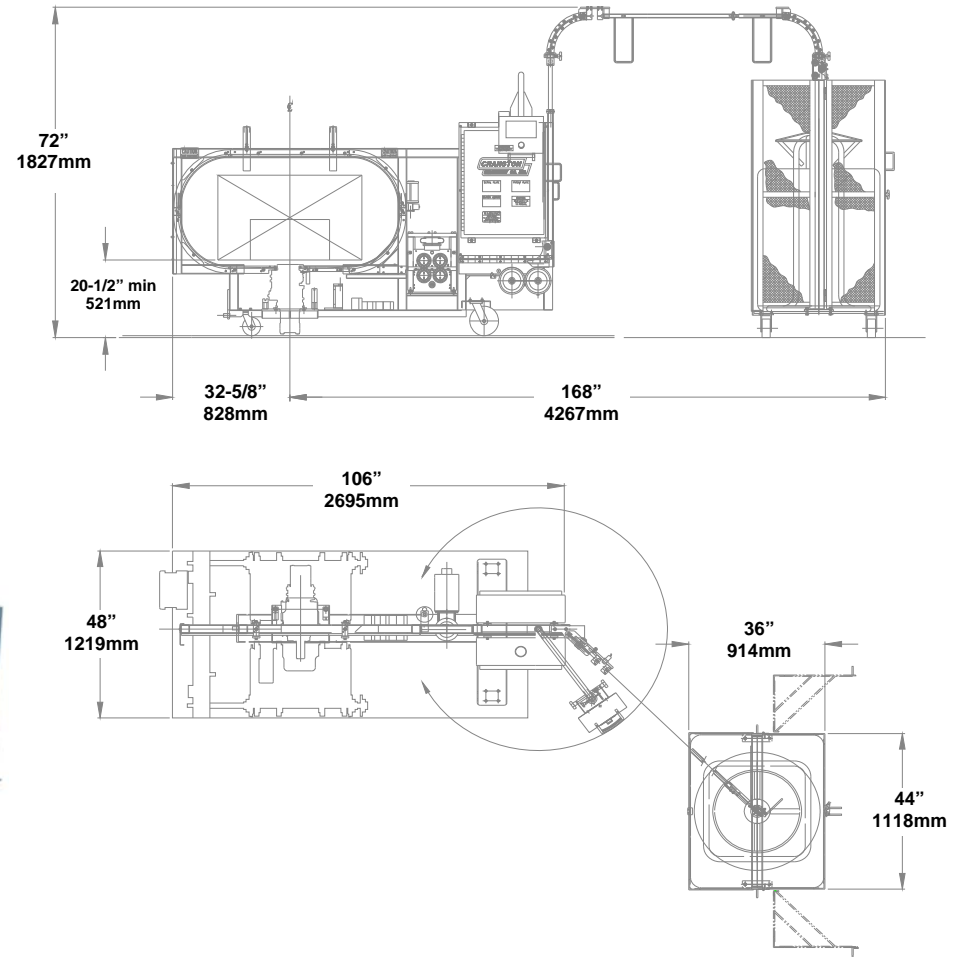
A complete Cranston Wire Strapping station consists of the following elements and can be equipped to accept bale flow from either direction. Auto-reverse operations are also available.

- 986 Wire Strapper.
- 61B012 Strapping Conveyor.
- 50B019 Coil cart.

## PLC Controls

Cranston's standard scope includes an Allen Bradley Micrologix PLC, motor starter (strapper only), Panel view 600+ touch screen with swing arm and Level 1 diagnostics. All specified strapping machine & conveyor functions are included. **Interlocks are required.**

- Available Options
- AB Compact logix,
  - Siemens S7-300
  - Mitsubishi Q02
  - Built in Ethernet communications
  - Alarm history with date and time



Each hydraulic circuit is independently controlled via the PLC and modular valves. Indicator lights are provided on the solenoids.



The Wire Drive's 4 drive wheels (dual pinch points) assure superior traction for fast feeds and crisp tensioning. The 986's wire drive unit is powered by a hydraulic motor and is opened and closed by a hand lever.

Optional pushbutton shown. Box can be relocated to either side of machine.

