

# **OVALMATIC**<sup>®</sup>





# E9700 WIRE TYING MACHINE FEATURES AND BENEFITS



#### **ALL ELECTRIC WIRE TYING MACHINE**

Eliminates potential problems and the environmental concerns of hydraulics

#### **ROTATING DISC ACCUMULATOR**

High speed, accurate management of wirereduces knots and jams

#### **AUTOMATIC WIRE THREADING**

Simply inserting wire into the outer guide starts and completes the feeding sequence

#### **AC VECTOR MOTOR**

- Drives cams in twister head
- Low cycle time

#### **LOW FRICTION TRACK**

The proven low friction passive track design requires no lubricants

#### **ON BOARD PLC**

- Touch panel operator interface built in diagnostics
- Safe 24 Volt DC controls

#### **EASY ACCESS**

Doors and panels allow easy accessibility for inspection and maintenance

#### **NO HYDRAULICS USED**

Eliminating potential leaks and spills

#### **HIGH ARCH MACHINE**

Available for single bale stacks

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### MODEL E9700 WIRE TYING MACHINE STANDARD SPECIFICATIONS

TYING WIRE RECOMMENDED	Ovalmatic® Quality Unitizing Wire
CHAIN CONVEYOR	Powered forward/reverse compatible with various speeds including the historic 27 MP (90 FPM)
ELECTRICAL SERVICE	208-575 VAC, 3PH, 50/60 Hz, 4KVA supply. Excluding conveyor power requirements.
ELECTRICAL MOTORS	FEED/TENSION. 2.2 kW (3 HP) AC SEW gear motor ACCUMULATOR. 0.75 kW (1 HP) AC SEW gear motor TWISTER HEAD. 1.5 kW (2 HP) AC SEW gear motor CONVEYOR DRIVE. (2) 1.5 kW (2 HP) 208-575 VAC, 3 PH, 50/60 Hz, reversible SEW gear motor All motors are supplied with equipment, variable frequency conveyor drives supplied by customer
ELECTRICAL INTERLOCKS	Siemens Profibus Optional Interlocks are available
ELECTRICAL CONTROL	Siemens S7 Series PLC Maple Systems Touchscreen or Siemens Touchscreens <b>CONTROL VOLTAGE.</b> 24 VDC Tying machine motors are controlled by KEB closed loop vector drives. Optional controllers are available.
ELECTRICAL COMPONENTS	All components meet CE/UL/CSA standards
ELECTRICAL WIRING	PROXIMITY SWITCHES. 0.21 - 0.33 mm <sup>2</sup> (24-22 AWG) stranded cable STANDARD. 0.52 - 3.31 mm <sup>2</sup> (20-12 AWG) stranded cable PRIMARY. 5.26 mm <sup>2</sup> (10 AWG) stranded cable
PNUEMATICS	Required for auto air blast Electrical enclosure cooling and wire guide for High Arch Tying Machines. 5.5-6.9 Bar, 1,130 L/min. (80-100PSIG, 40 CFM) <b>MINIMUM FILTRATION REQUIRMENTS</b> . Particulate filtration to 5 Microns with moisture removal and oil removal to 1PPM. Instrument air is strongly recommended.
CONVEYOR GAP	1,372 mm (54 in.)
CONVEYOR WEIGHT	<b>STANDARD TYING MACHINE.</b> 636 kg (1,400 lbs.) per pair <b>HIGH ARCH TYING MACHINE.</b> 727 kg (1,600 lbs.) per pair
CONVEYOR HEIGHT	534 mm (21 in) min.
MACHINE WEIGHT	STANDARD TYING MACHINE. 864 kg (1,900 lbs.) HIGH ARCH TYING MACHINE. 955 kg (2,100 lbs.)
MACHINE HEIGHT	<b>STANDARD TYING MACHINE.</b> 1,328 mm (52 in.) at 534 mm (21 in.) minimum line height <b>HIGH ARCH TYING MACHINE.</b> 3,154 mm (124 in.) at 534 mm (21 in.) minimum line height Other machine track sizes are available.
MACHINE WIDTH	<b>STANDARD TYING MACHINE.</b> 3,508 mm (138 in.) excluding coil carrier <b>HIGH ARCH TYING MACHINE.</b> 3,657 mm (144 in.) excluding coil carrier

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# E9700 WIRE TYING MACHINE STANDARD ARRANGEMENT



### HIGH ARCH ARRANGEMENT





### E9700 WIRE TYING MACHINE COMPONENTS AND ELECTRICAL DESIGN

### **OVALMATIC® COMPONENTS**

The core of the Tying Machine is built on five Ovalmatic<sup>®</sup> components

- 1. Feed and Tension Assemby
- 2. Twister Assembly
- 3. Track Assembly

MODEL

- 4. Frame Assembly
- 5. Control Assembly

### **ALL ELECTRIC DESIGN**

All tying functions are electronically driven using closed loop AC drive technology.

- 1. Automatic Wire Threading
- 2. Feeding
- 3. Tensioning
- 4. Accumulation
- 5. Gripping
- 6. Twisting
- 7. Cutting
- 8. Automatic Wire Clearing

Each of these assemblies is designed to provide maximum accessiblity for inspection and maintenance function.