

OVAL^{INTL.}

OVALMATIC®

MODEL

E9700

UNITYER®

A series of dark green, wavy, concentric lines that curve upwards from the bottom left towards the right side of the page, creating a sense of motion and depth.

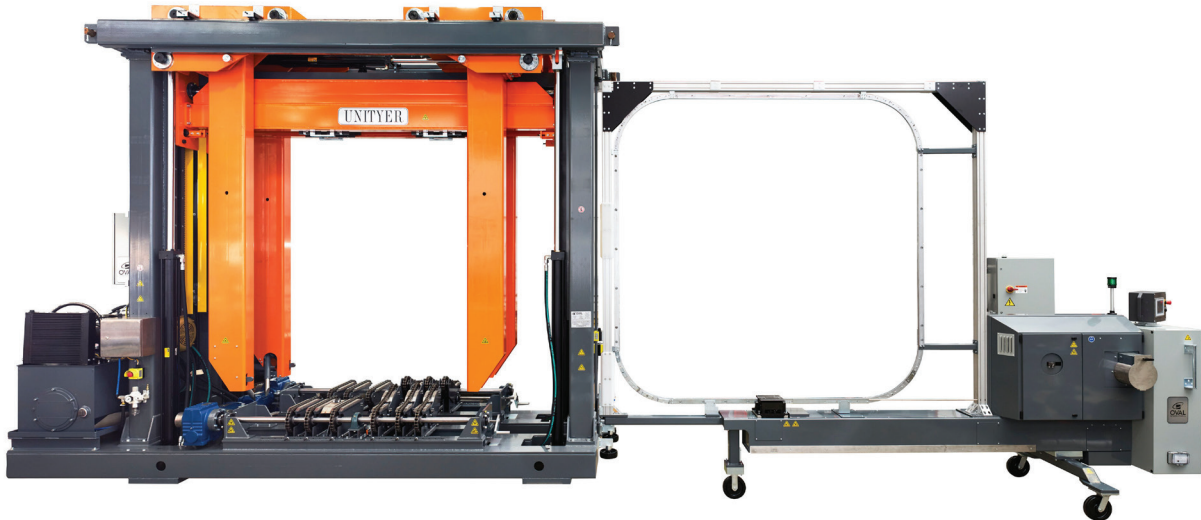
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FEATURES AND BENEFITS

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ALL ELECTRIC WIRE TYING MACHINE

Reduces potential problems and the environmental concerns of hydraulics

ROTATING DISC ACCUMULATOR

High speed, accurate management of wire- virtually eliminates 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

SEPARATING MACHINES

Tying machine is easily separated from Compacting Station for easy access and maintenance allowing a standby machine to be used

ROTATING DISC ACCUMULATOR

- Provides complete control of wire feed and tensioning and accumulated wire
 - Low cycle time
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STANDARD SPECIFICATIONS

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TYING WIRE RECOMMENDED	Ovalmatic® Quality Unitizing Wire
CONVEYOR	Chain conveyor-powered forward/reverse, 9 MPM (30 FPM)
HYDRAULICS	Self contained hydraulic power unit using Parker directional valves and Parker axial piston pump
ELECTRICAL SERVICE	UNITYER TYING MACHINE. 208-575 VAC, 3 PH, 50/60 Hz, 5KVA COMPACTING STATION. 208-575 VAC, 3 PH, 50/60 Hz Excluding conveyor and hydraulic unit power requirements
ELECTRICAL MOTORS	FEED/TENSION. 3.7 kW (5 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 Tying machine motors are controlled by KEB closed loop vector drives CONVEYOR DRIVE. (2) 1.5 kW (2 HP) 208-575 VAC 3 PH, 50/60Hz reversible SEW gear motor HYDRAULIC UNIT. 7.5 kW (10 HP) SEW pump motor, 0.4 (0.5 HP) heat exchange motor, 1.5 kW tank heater All motors are supplied with equipment. Variable frequency conveyor drives, hydraulic unit motor starters and tank heater contactor are customer supplied.
ELECTRICAL INTERLOCKS	Siemens Profibus OPTIONAL. Allen Bradley Ethernet IP ControlNet or Discrete I/O 120VAC or 24VDC
ELECTRICAL CONTROL	Siemens S7 Series PLC CONTROL VOLTAGE. 24 VDC Tying machine motors are controlled by KEB closed loop motion control drives OPTIONAL. Allen Bradley Control Logix PLC with PanelView Plus Touchscreen
ELECTRICAL COMPONENTS	All components meet CE/UL/CSA standards
ELECTRICAL WIRING	PROXIMITY SWITCHES WITH CONNECTORS. 0.21 - 0.33 mm ² (24-22 AWG) stranded cable STANDARD. 0.52 mm ² - 1.31 mm ² (20 - 16 AWG) stranded cable PRIMARY. 5.26 mm ² (10 AWG) stranded cable
COMPACTING FORCES	TOP COMPACTOR. 10,885 kg (24,000 lbs.) SIDE COMPACTOR. 1,815 kg (4,000 lbs.)
COOLING	Air/oil
PNEUMATICS	Required for auto air blast, electrical enclosure cooling 5.5-6.9 Bar, 1,130 L/min. (80-100PSIG, 40 SCFM) Minimum Filtration Requirements. Particulate filtration to 5 microns with moisture removal and oil removal to 1PPM. Instrument air strongly recommended.
MACHINE WEIGHT	TYING STATION. 1,180 kg (2,600 lbs.) COMPACTING STATION. 10,890 kg (24,000 lbs.) including hydraulic unit
MACHINE HEIGHT	3,845 mm (151 in.) at 585 mm (23 in.) minimum conveyor height, the overall height is determined by unit size and conveyor height
MACHINE WIDTH	6,180 mm (243 in.) tying unit engaged
CONVEYOR GAP	1372 mm (54 in.)



THE TIES THAT BIND

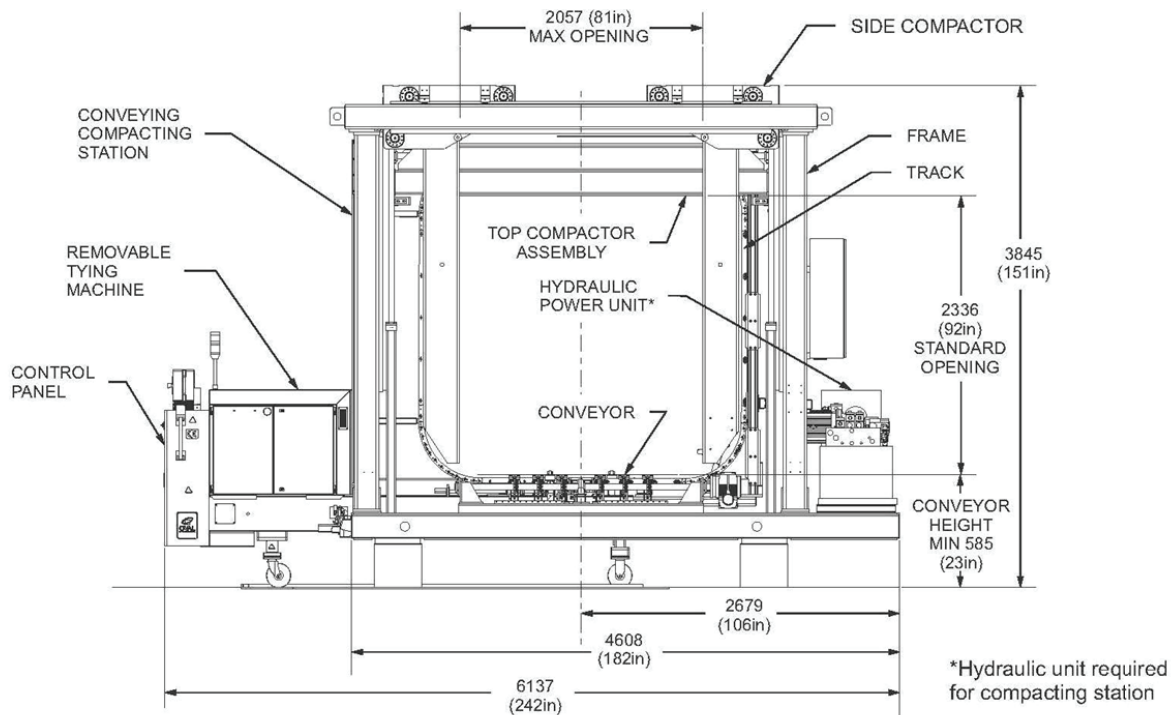
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STANDARD ARRANGEMENT

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OVALMATIC® COMPONENTS

The core of the Unityer® is built on five Ovalmatic® components

1. Feed and Tension Assembly
2. Twister Assembly
3. Track Assembly
4. Frame Assembly
5. Control Assembly

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

ALL ELECTRIC DESIGN

All tying functions are electronically driven using AC vector drives technology.

1. Automatic Wire Threading
2. Feeding
3. Tensioning
4. Accumulation
5. Gripping

COMPACTORS

1. Side Compactors
2. Top Compactors