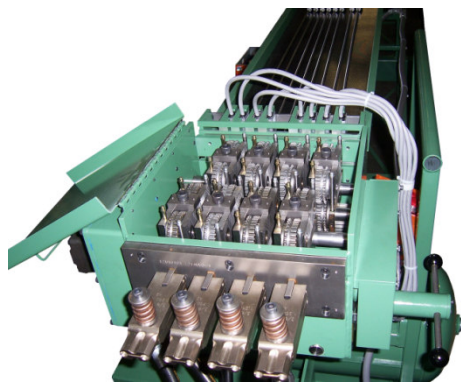


# MODEL OCT Octpander

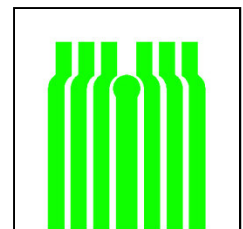


TUBE END  
CLAMPING JAWS



The Model **OCT-3 (4) OCTPANDER** was developed to provide a happy medium for producers of the larger commercial and industrial-type coils. It is a further development of the expansion principle employed by the TRIDAN FLEXPANDER. The OCTPANDER will provide the same quality of product output, while increasing the productive output by four to five times that of the FLEXPANDER.

Tridan International, Inc.  
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Danville, Illinois 61832 U.S.A.  
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Tube Expansion

*Customer Driven Designs*

# TRIDAN MODEL OCT

The OCTPANDER provides manufacturer's of large heat transfer coils a lower cost and efficient means of expanding their coils. While large multi-rod horizontal expander can expand large coils in one cycle, they involve both a larger capital investment and costly time-consuming setup procedures. Other tube expansion methods, such as hydrostatic and hydro-propulsive expansion, although adequate for some coil manufacturers, have disadvantages. Problems such as inconsistent tube-to-fin bond, ruptured tubes, and the extra cost for secondary cleaning and/or drying of the coil tube interiors tend to limit their use.

The TRIDAN Model OCT-3(4) OCTPANDER is a hydraulically powered incremental-type horizontal mechanical tube expander designed for the expansion of heat transfer coils, which use straight tube and return bend construction. It is designed to expand up to eight (8) tubes per cycle (dependent upon center-to-center dimension) made of copper or aluminum, and other thin wall materials having outside diameters between 3/8" (9.53mm) and 3/4" (19.1mm). *Note that since the OCTPANDER expands multiple tubes during its operational cycle with these tube centers being co-linear in the same row, hairpin tube construction cannot be used.*

The OCTPANDER is designed to accommodate a broad range of changeable expander tooling. The tooling components for the OCTPANDER consist of the Clamp Jaw Assemblies, the Rear Rod Guide Plate, the Expander Rods, the Expander Tips or bullets, and the Expander Rod Stops.

## TECHNICAL SPECIFICATIONS

Tube Diameters - Model OCT-3 Model OCT-4	3/8" through 3/4" (9.53/19.05mm) 1/2" through 3/4" (12.7/19.05mm)
Tube Materials	Copper, Aluminum, and other thin-wall Materials
Maximum Tubing Wall Thicknesses (These values are conservative - contact TRIDAN for specific requirements.)	.030"(0.76mm) - Copper, 1/4 to 1/2 Hard .045"(1.14mm) - Aluminum, 1/4 to 1/2 Hard .025"(0.64mm) - Cu-Ni 10%, Red Brass, or Mild Steel, Annealed
Tubes Expanded per Operating Cycle: Eight (8) for Center-to-Centers	1.000" through 1.750" (25.4/44.5mm) Contact Tridan for other requirements.
Maximum Finned Length Expandable	159" (404cm) - Model OCT-3 (4) -13 255" (648cm) - Model OCT-3 (4) -21 348" (884cm) - Model OCT-3(4) -29 444" (1128cm) - Model OCT-3 (4) -37
Minimum Tube Extension Outside End Sheet Required for Clamping	1/2"(12.7mm) for All Diameters, except 3/4"(19.01mm) which requires 3/4".
Maximum Width of Adjacent End Sheet Flange Required for Clamping	1.375"(34.9mm)
Expansion Speed - 60Hz Power Supply - 50Hz Power Supply	50 to 60 Ft/Min (15.2/18.3 Mtr/Min) 42 to 50 Ft/Min (12.8/15.2 Mtr/Min)
Setup and Changeover Times	Complete Change - 60 Minutes Center-to-Center Change - 45 Minutes Outside Diameter Change - 40 Minutes Wall Thickness Change - 25 Minutes

