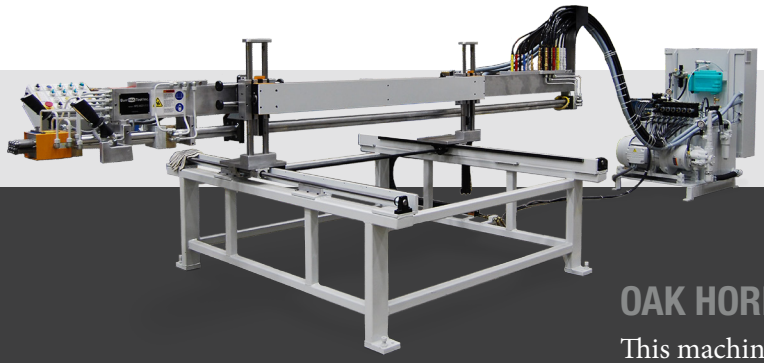
OAK HORIZONTAL EXPANDER

Flexible Expansion at a Modest Price



OAK HORIZONTAL EXPANDER

This machine uses small bore hydraulic cylinders to expand heat exchange coils with little damage. Tension expanding either straight lengths or both legs of hairpin tubes provides uniform results with no fin damage.

These machines are versatile and can be set up for different coil configurations in just a few minutes. They are also capable of providing high expansion forces for expanding stainless steel and other exotic tubing materials.

PRODUCTION

70’ (21 m) / min.
(single hairpin running light wall copper)
Additional cylinders will reduce the speed

FOOTPRINT

Support Table:
≈ 78” (1.98 m) wide x 66”(1.7 m) long

Max coil length:
20’ (6 m) long

WEIGHT

≈ 3,300 lbs (1,500 kg)

AIR

8 ft^3/min at 80 psi
(0.23 m^3/min at 5.6 bar)

POWER

Requirements for 3-4 tube HPE
Average 13 kW @ .80/.82 PF
24 VDC Controls

Burr OAK Tool

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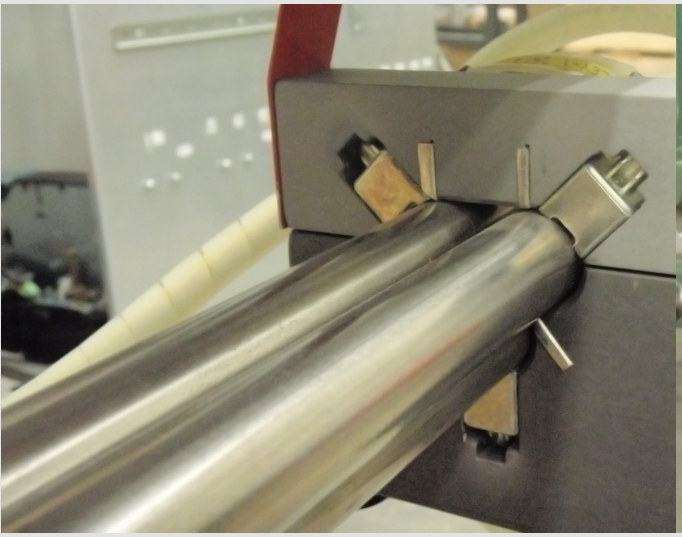

PATTERNS

16 mm or ⅝” minimum distance between tubes

EXPANSION

From 1 to 7 cylinders

TUBE SIZES

8 mm (.312”) to
25.4 mm (1”)

TUBE MATERIALS

Copper

Aluminum

Stainless Steel

Cupronickel

Economic Advantages

- Less expensive than vertical expanders.
- Minimal setup time.
- Fast expansion speeds of 70’/min (21 m/min).

Technical Advantages

- No trimming or end-forming of tube after expansion due to hydraulic collet actuation.
- Use for long tubes up to 20’ (6 m) vs. 12’ (3.65 m) max for vertical expanders.
- Capable of expanding a wide variety of materials including stainless steel and cupronickel.

User Advantages

- Ideal for diagonal hairpins; no need to rotate machine to align with tubes.
- Simpler to operate than competitive horizontal expanders due to support table, automatic lubrication and less setup time.