

Burr OAK Tool Inc.

Horizontal Progressive Expander

The Oak horizontal progressive expander 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 very versatile, and can be set up for different coil configurations in just a few minutes. They are also capable of providing very high expansion forces for expanding stainless steel and other exotic tubing materials.



Expander | Horizontal Progressive

PRODUCTION

Expansion and Retraction Rate:

100 ft/min. X Number of cylinders used (up to 7 cylinders per cycle)

FOOTPRINT

78" Wide

Max coil length + 10 ft. Long

WEIGHT

1,500 KG

Foundation information supplied upon request

AIR

8 CFM @ 80 PSI

POWER

Phase: 3, Continuous
Amps: 52, KW: 27, Control: 24 VDC
Voltage Range: 380-415
50 Hz

OR

Phase: 3, Continuous
Amps: 41, KW: 25, Control: 24 VDC
Voltage Range: 440-500,
60 Hz



Economic Advantages

- Less expensive to purchase than Vertical Expanders, but with tradeoff of lower production due to expansion of a few tubes at a time rather than full coil (2-7 tubes)
- Efficient -Minimal setup time
- Fast expansion speeds – 100 fpm typical is double the speed of Vertical Expanders



Technical Advantages

- No trimming or end-forming of tube after expansion due to hydraulic collet actuation
- Use for long tubes up to 18 feet vs. 12 feet max for Vertical Expanders
- Flexible – capable of expanding a wide variety of materials including stainless steel and cupru-nickel



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

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