

ZELTWANGER Fin Mill

Highly efficient heat transferring air fins are the core component of high performance heat exchangers. Intelligent and pre-developed systems based on standardized processes and architectures are our recipe for a high-quality ZELTWANGER fin mill machine.

The intelligent technology from ZELTWANGER ensures even more efficiency: A 100% inline height and density control during production raises quality assurance to a new level. An integrated louver angle measurement system complements this system additionally. The high-precision fin manufacturing system can meet the requirements for complex fin geometries and extremely high fin densities. The Integration of manufacturer-independent form roller head stands is possible as standard also the regrinding service of used fin form rolls.

FIELDS OF APPLICATION

- + Low-temperature cooler
- + Condenser
- + Evaporator
- + Radiator
- + Indirect - charge air coolers
- + Heater cores
- + Heat-pump-heater
- + Charge air coolers
- + R-744 a/c CO₂ systems

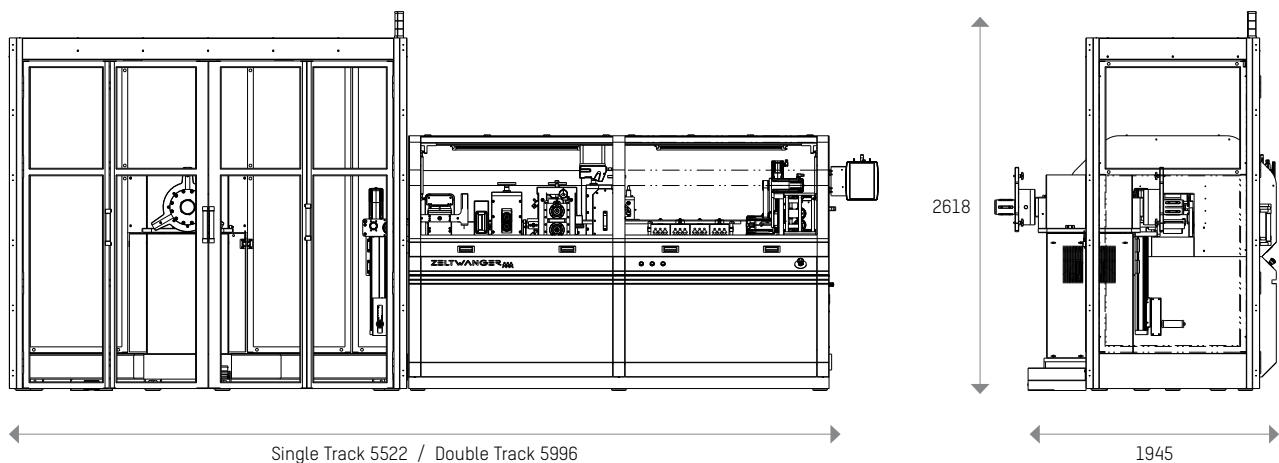
BENEFITS

- + Compact design with integrated control cabinet
- + All process settings are controlled via the HMI
- + Horizontal flying guillotine as a cutting unit
- + High dynamic cutting unit
- + Automatic coil strip edge control
- + Universal form roller head stand adaption as standard
- + Automatic speed & spray wide dependent oil lubrication
- + Inline height and density FIN measurement system
- + Integrated louver angle measurement system
- + Variable production direction
- > 50% smaller footprint & self-sufficient system
- > no manual operator settings necessary
- > No start-stop & length fluctuations
- > 180 cuts/min single track with high density fins
- > Accuracy of ± 0.05 mm at 6.5 m/s
- > Manufacturer-independent form roller head stand use
- > Optimized oil consumption for excellent brazing results
- > 100% quality control
- > No falsification of the results by external interventions
- > Maximum flexibility



SPECIFICATIONS

Layout	Single Track & Double Track
Fin typ	Corrugated fins; flat fins; turbulators; oil coolers
Strip material	Aluminium, Stainless steel, Copper
Strip width	10mm - 110 mm
Cuts/min	180 fins/min (Single Track) / 360 fins/min (Double Track)
Strip speed	Max 6.5 m/s
Changeover	Max. 10 min with 1 setter
Optional extension	Evaporator Core Builder, Heater Core Builder, Condenser Core Builder etc.



Further ZELTWANGER technologies:



Laser Application

Core Builder

Leak Testing

Automation

With strong partners to success:



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