ZELTWANGER Fin Mill

USPS AND BENEFITS OF ZELTWANGER FIN MILL

Process	USPs and Benefits
Double-head decoiler	+ Exact calculation of inline coil diameters without additional sensors -> Maximum utilization of raw materials
	 + Speed-dependent residual cycle time calculation -> Optimized capacity and process planning + Tool-less strip width adjustment -> Setup times reduced by 50%
	 Preumatic tensioning -> Maximum functional reliability and optimized tensioning force for all materials
	+ Barcode scanner -> Comparison of materials and tools for maximum setup reliability
	+ Label printer -> Recording of residual quantity and material feedback for constant transparency in the warehouse
Tension controller	+ Slip-free control -> For uniform corrugated fin height
	+ Visualization of effective force -> Detailed, reproducible system information
	+ Digital interface to the core builder as control loop -> For fully automatic adjustment at the core builder
Web edge control	+ Angle compensation of up to ±5° -> Maximum flexibility
	 + Web edge control in tolerance range of ±0.05 mm at 6.5 m/s -> Maximum performance with extremely high accuracy + No type-specific setup parts -> Setup is omitted completely

ZELTWANGER Thermomanagement GmbH & Co. KG

lm Steinig 75 72144 Dußlingen Germany

- **\$** +49 7072 92897-701
- thermomanagement@zeltwanger.de
- 💻 www.zeltwanger.com



ZELTWANGER Fin Mill

Oiling	 Oiling based on speed and fin width via one-time configuration on the HMI -> Potential errors reduced to a minimum Pressure reservoir-free oiling -> No mist formation and no suction necessary Automatic oil quantity & spray width adjustment via type selection -> Always the right oil quantity on the conveyor Individual filling options -> Maximum flexibility
Slitting Unit	 + No change parts -> Setup is omitted completely + Double-sided carbide disk -> Doubles the service life
Fin form roll	 Type-dependent RFID tool query -> Potential errors reduced to a minimum Comparison of material with the coil used via a barcode scanner system -> Potential errors reduced to a minimum Quick tensioning system -> Setup times reduced by 80% Quick coupling system -> Setup times of just a few seconds Universal form roller head stand adaption as standard -> Maximum flexibility for tool selection Wrap-around protection -> Highest safety requirements for type-specific tools Connection for pneumatic cleaning system -> For maximum tool service life
Gathering roll	 Independently driven gathering roller and forming roller -> Compensation of different numbers of teeth and speeds possible Wrap-around protection and safety enclosure -> Highest safety requirements for workers and type-specific tools Type change via gathering disk pack -> Reduces setup times to a minimum
Pullout station	 + Position adjustment and infeed via HMI -> No need to intervene in running process + Individually driven pullout wheels -> Individual speeds possible to compensate for curvatures + Drawing wheel change without tools -> Setup times reduced to a minimum + 2-step drawing system -> For maximum quality assurance
Force sensor brake	 Position and force control via HMI in running process -> No need to intervene in running process Reproducible setting via type-specific force values (recipe data) -> Self-adjusting process

ZELTWANGER Thermomanagement GmbH & Co. KG

lm Steinig 75 72144 Dußlingen Germany +49 7072 92897-701
 thermomanagement@zeltwanger.de
 www.zeltwanger.com

Further information:



ZELTWANGER Fin Mill

Cutting unit	 Horizontal flying cut -> No start/stop, no variations in length, increased process reliability, no loop formation Exact cutting position in the valley possible even with maximum corrugated fin density -> Maximum quality assurance Highly dynamic cutting unit -> 180 cuts/min single-track Uniform speed of the feed fin scroll -> No need for dynamic acceleration & deceleration Guillotine and anvil made of special material -> For longer service lives Anvil can be used 4x and is regrindable -> Increases the service life 4-fold
HMI	 Card reader -> Various user levels possible Direct operator intervention no longer necessary -> All process settings can be made via the HMI No manual intervention for pressure sensor brakes and drawing level setting -> Maximum worker safety Intuitive operator guidance -> Reduces malfunctions and downtimes Mobile panel -> Maximum flexibility Linking of several systems possible
General system	 Compact design with integrated control cabinet -> Stand-alone system, requires 50% less space Throughput possible from both sides -> Maximum flexibility Flat band speed max. 6.5 m/s -> Lower manufacturing costs through increased performance Integrated louver angle measurement -> Maximum quality assurance Inline fin height and density measurement -> Maximum quality assurance RFID tool coding -> Eliminates potential for false setup Digital system information -> Setup instructions, machine documentation, system information, etc. Universal interface for third-party systems -> Simple integration in existing heat exchanger lines

ZELTWANGER Thermomanagement GmbH & Co. KG

lm Steinig 75 72144 Dußlingen Germany +49 7072 92897-701
 thermomanagement@zeltwanger.de
 www.zeltwanger.com

Further information:

