

ALO 198T QUICK QUENCH



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The quick quench system consists of a blower and a cooling unit build in stainless steel. The quick quenching of the hot band is done by high volume of cool protective gas (N₂) pumped by a high velocity pump. The gas is circulated in a closed loop system to avoid colorization or scale on the band. The hot gas is effectively cooled in a gas/water heat exchanger tank.

Blower unit

The blower head is equipped with blocks of gas nozzles that can be adjusted to match different band widths to optimize the quenching effect. The unit are equipped with a filter and are easy to open for service. The blower unit should be connected to the furnace muffle and are allowed to move on guides to self-compensate length vice for temperature related movements. It also allows larger side movements for service purpose.

HIGHLIGHTS

- The system can be integrated to any existing hardening system where quick quenching of bands are needed
- The system monitors airflow, water temps, in and outgoing gas temps giving a good overview of the process
- Bands are quenched only with high velocity protective gas and no contact against the bands
- Air pump can be regulated by means of a frequency controller to tune and keep electrical consumption low

TECHNICAL SPECIFICATION:

Band width:	12 - 80 mm	(other widths on request)
Band thickness:	0.9 - 1.6 mm	
Quench effect:	15-30 kW depending on system setting	
Voltage:	400 VAC, 3-phase, 50 - 60 Hz direct earthed system	
Power consumption average:	3,5 kVA	Power consumption max: 9 kVA
The system requires an external coolant water source as well as an external protective gas source		

Other customer requirements may be discussed between customer and ALO.