

UNIMAK SHUTTLE KILNS

Unimak Shuttle kilns are unique to the market and provide industry leading fuel efficiency.

Our temperature control system is based on the venturi principle.

Fuel efficiency is achieved thanks to a combination of design features that Unimak has developed to give maximum benefit to our objectives and targets:

Burner design is specially selected to give the optimum velocity and power for our heating objectives.

Combustion air supply dynamics are calculated to accentuate the burner venturi affect.

Combustion control equipment is selected to provide the maximum flexibility to reach our goals of homogeneous temperature control.

A waste gas and pressure control system is utilised that compliments the venturi affect created from the combustion system.

Refractory and insulation features of the kiln and the kiln cars provide further enhancement of the circulation of a homogenous atmosphere around the product.

Dedicated software programming has been developed to provide precise control of the equipment.

A SCADA system is used to monitor and record all critical data during each firing cycle, this provides the opportunity to analyse the complete control system and make adjustments to achieve optimum performance and efficiency of the kiln.