

**XLNt
TUNNEL KILN FOR FIRING AND RE-FIRING SANITARY FITTINGS**

**GANGWAY AND
WALLS:**

- The upper level can be easily reached safely, also when carrying light loads (maintenance). A series of devices on the walls tell the operator if everything is ok (green light) or if there are problems (red light). The particular geometry of the side “panels”, as well as covering and protecting the equipment of the combustion system, transmits the heat upwards, exploiting the effect of the natural ventilation.

FANS:

- The noise of the fans is reduced in intensity and frequency by suitable sound-absorbent screens.

FLUE GAS SUCTION:

- The flue gases are extracted through transversal hoods in the crown that favour the heat exchange, optimising the control of the internal pressure, completely extracting the waste gases.

COMBUSTION:

- Each burner is equipped with a filter at the air inlet and filter at the gas inlet to protect the product from any pollutant particles. With more burners there is always an optimal heat distribution also in a very big internal space like that in the tunnel now it is 4 metres wide.

COOLING:

- In fast and final cooling, the geometry of the chamber, studied with fluid dynamics analyses, combined with the effects of the upstream and downstream suction, favours the homogeneous cooling due to the natural convective motion.

PRE-FIRING:

- This starts in the first modules, heating the raw pieces gradually, avoiding sudden temperature variations.

RAILS:

- The rails are incorporated in the structure so the path of the cars is always defined to the last millimetre in the distance with respect to the walls.

XLNt can fire pieces with different characteristics, dimensions and mix at the same time; you can program firing and re-firing in the same cycle.

PRODUCTION DATA RELEVANT TO TWO KILN LENGTHS

	XLNt 340	XLNt 400
Internal kiln width	3450 mm	4000 mm
Useful car width	3235 mm	3845 mm
Car length	1400 mm	1400 mm
Useful car length	1385 mm	1385 mm
Useful loading height	800-1100 mm	800-1100 mm
Useful car area	4,48 m ²	5,32 m ²
Average car load	26 pieces	30 pieces
Kiln length	60-110 m	90-120 m
Maximum temperature of the structure	1350 °C	1350 °C
Maximum working temperature	1250 °C	1250 °C
Indicative firing cycle	10-14 h	10-14 h
Indicative specific consumption	1100-1300 Kcal/Kg	1100-1300 Kcal/Kg

The lengths of the kilns in the table are merely indicative and refer to existing machines.
It is possible to customise the length of the kiln on the basis of the layout, to meet the client's requests.