

Last Minute Burner (LMB)



MAPEKO
economical preheating

Product-Information 4

Principle of operation

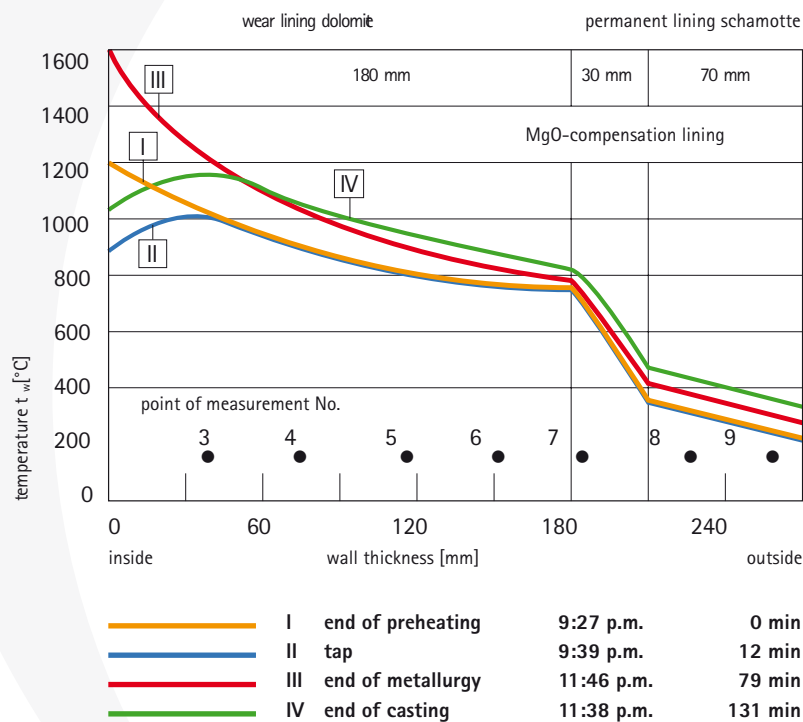
The ladle is heated immediately before tapping either by a high capacity oxygen burner (with or without water cooling) or the well-known Long Flame Burner.

The following example is a typical temperature curve in the brickwork of a ladle from the end of preheating until the end of casting.

The temperature curves I and II clearly show that in order to optimize energy efficiency the time from the start of tapping until the end of preheating must be kept as short as possible.

The ladle transfer times are very often determined by logistical constraints. Therefore other solutions must be found to avoid cooling of the ladle in the car, i.e. while waiting at the tapping position.

measured and calculated temperature of the wall for the new lined ladle



The diagram shows that from the end of preheating until tapping 12 min elapse. This short time is sufficient for the surface temperature to sink by approx. 300°C. The resulting heat loss must be compensated by an accordingly high tapping temperature.

The MAPEKO LAST MINUTE BURNER provides the following advantages:

- Lower tapping temperature (3 - 7°C)
- Shorter tap-to-tap time
- Less electrode consumption
- Less lining wear