



ABAX-Moulds for HIGH SPEED CASTING

Productivity, operation and quality of the casting machine depend to a large extent on the efficiency of the mould. High speed of > 4 m/min requires intensive and uniform heat-flux which can be achieved with innovative mould design.

ABAX tubes are designed for maximum heat transfer rate from the meniscus down to the bottom of the tube. The taper-geometry depends on the steel-grades and casting conditions and is designed with the aim of minimizing the gap between the solidifying shell and the copper tube.

The following **HIGH CASTING SPEEDS** can be achieved:

section	mould length	skin-thickness at mould exit	possible casting speed
mm x mm	mm	mm	m/min
130 x 130	800	7,00	4,0 to 4,5
	1000	7,50	5,2 to 5,5
	1200	8,00	4,8 to 6,0
150 x 150	800	9,00	3,5 to 4,2
	1000	9,50	4,5 to 4,7
	1200	10,00	4,5 to 5,0
180 x 180	800	9,50	2,5 to 3,5
	1000	11,00	3,2 to 3,7
200 x 200	800	10,00	2,0 to 3,0
	1000	11,00	2,2 to 3,5

Extra long service-life is achieved with the multilayer **CerMold** plating. This Ni-Co-Cr multilayer structure features high micro hardness and optimum binding strength with the copper base. The lifetime of the CerMold tubes is considerably longer compared to tubes coated with Cr plating.

MAIN ADVANTAGES

- Very high casting speeds due to special **ABAX** taper design
- Reliability due to close quality control of the mould-production process
- All other internal geometries are available on customer request
- Complete technical know-how for casters and secondary metallurgy available

COMPONENTS

In case you need to upgrade your caster, to increase productivity or to solve a problem of billet-quality, we are ready to provide you with the optimum solution in the shortest possible time.