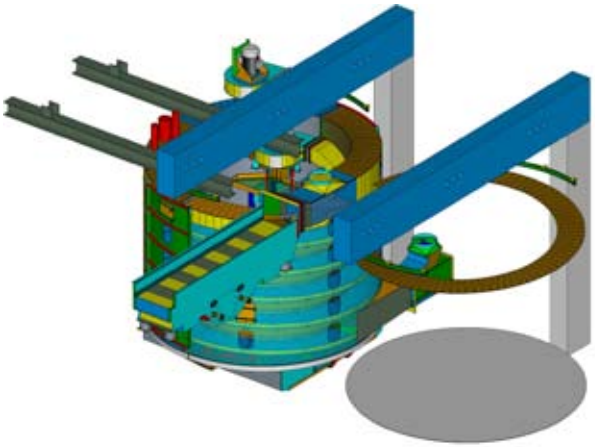
JG.002.08.05.EN

# HELICAL CASTING COOLER

## 3D CAD ENGINEERING



## TRANSPORT

## APPLICATION AND FUNCTION:

Two helical designed casting coolers serve for casting cooling (in this particular case brake discs) arranged in sequence behind a discharging shake-out, delivered by JÖST® as well. Due to vibration parameters, selected accordingly, the castings are conveyed downwards.

The cooling is effected by means of a convection heat exchange in counter flow. This technical solution - by selecting a helical designed casting cooler - grants for this special application the optimum regarding space utilization.

## TECHNICAL DATA AND FACTS:

| | |
|---|---|
| Dimensions: | d = 5.400 mm, h = 4.400 mm |
| Weight: | 24.000 kg |
| helix length: | approx. 70 m |
| Width of the spiral path: | 660 mm |
| Cooling performance: | 150 moulds/h with 80 kg cast iron/each |
| Cooling parameters: | from 600° C --> 100 °C (module 2,0 $cm^3/cm^2$) |
| Cooling air performance: | 20.000 $m^3/h$ supply air; 35.000 $m^3/h$ exhaust air |
| Registered design: | yes |
| Construction: | HICAD / 3D |
| Strength calculation: | FEA method |
| Natural frequency calculation: | FEA method |

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