

# Chilled Cast Iron

Material properties are adapted to specific demands of calendering or mixing

Our own grades, e.g.

TUK: calender rolls

TR: fluted rolls, mill rolls

TB: mild chilled cast iron

Depth of hardness up to 30 mm



# Advantages of Chilled Cast Iron

Very cost effective production

Surface hardness from “first heat”, no additional heat treatment necessary

Good thermal behaviour

Small deviation of TIR and cylindricity at operating temperature

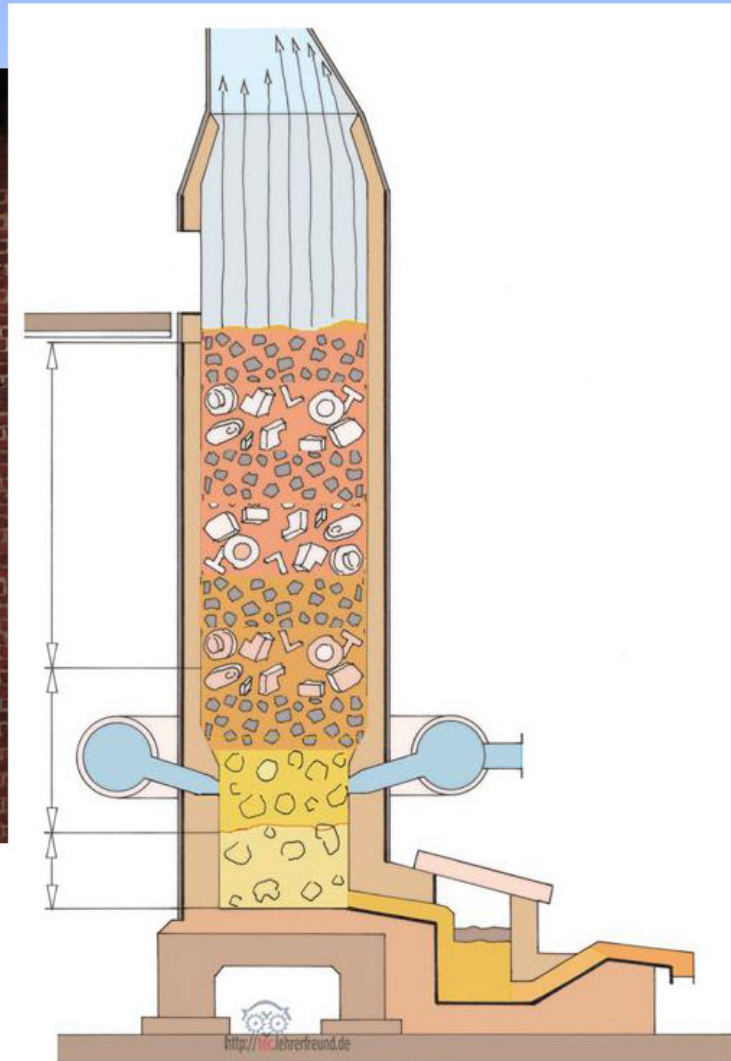
Long lasting operation time

Multiple re-grinding allowance

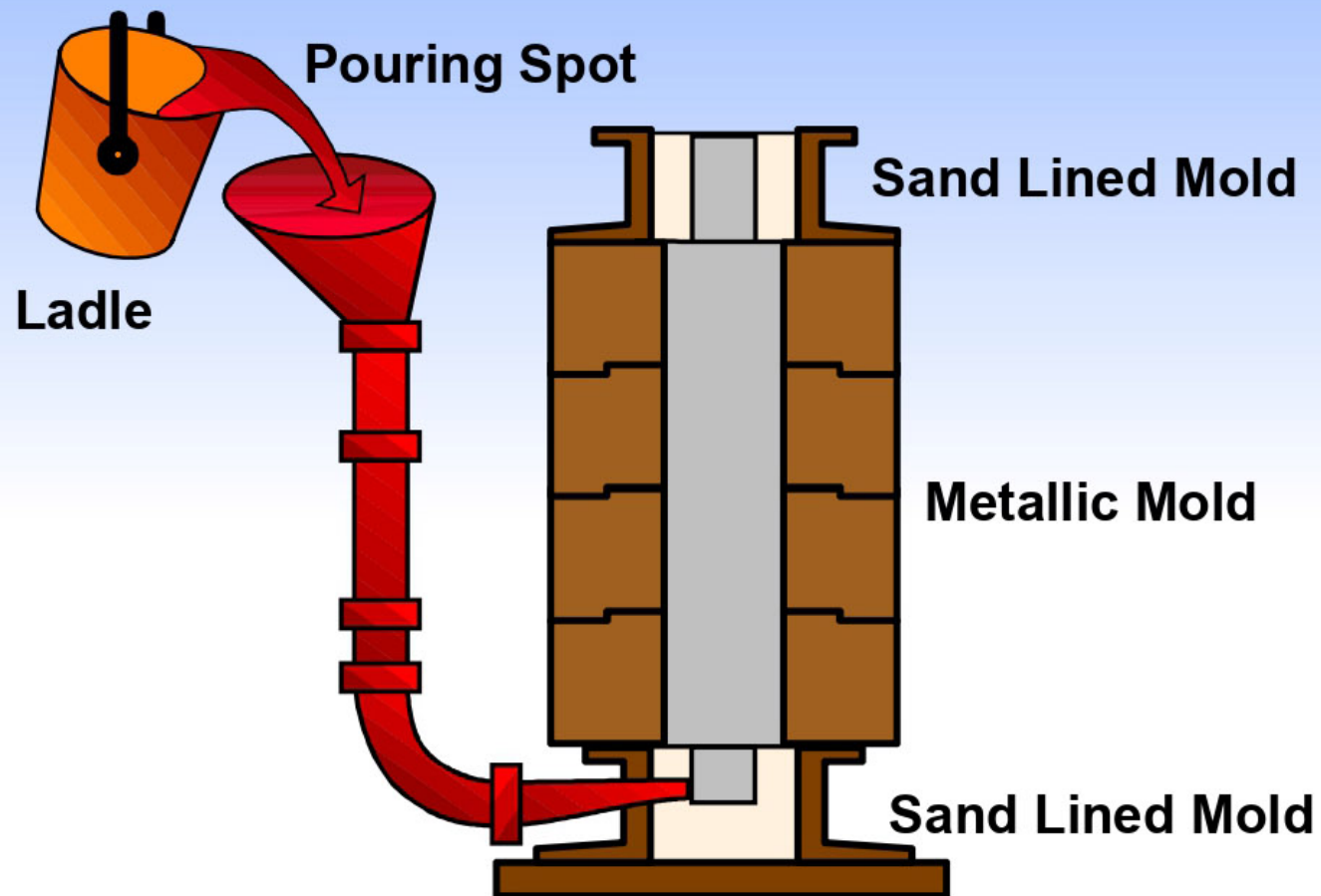
Cored rolls or peripherally drilled rolls



# Cupola Furnace

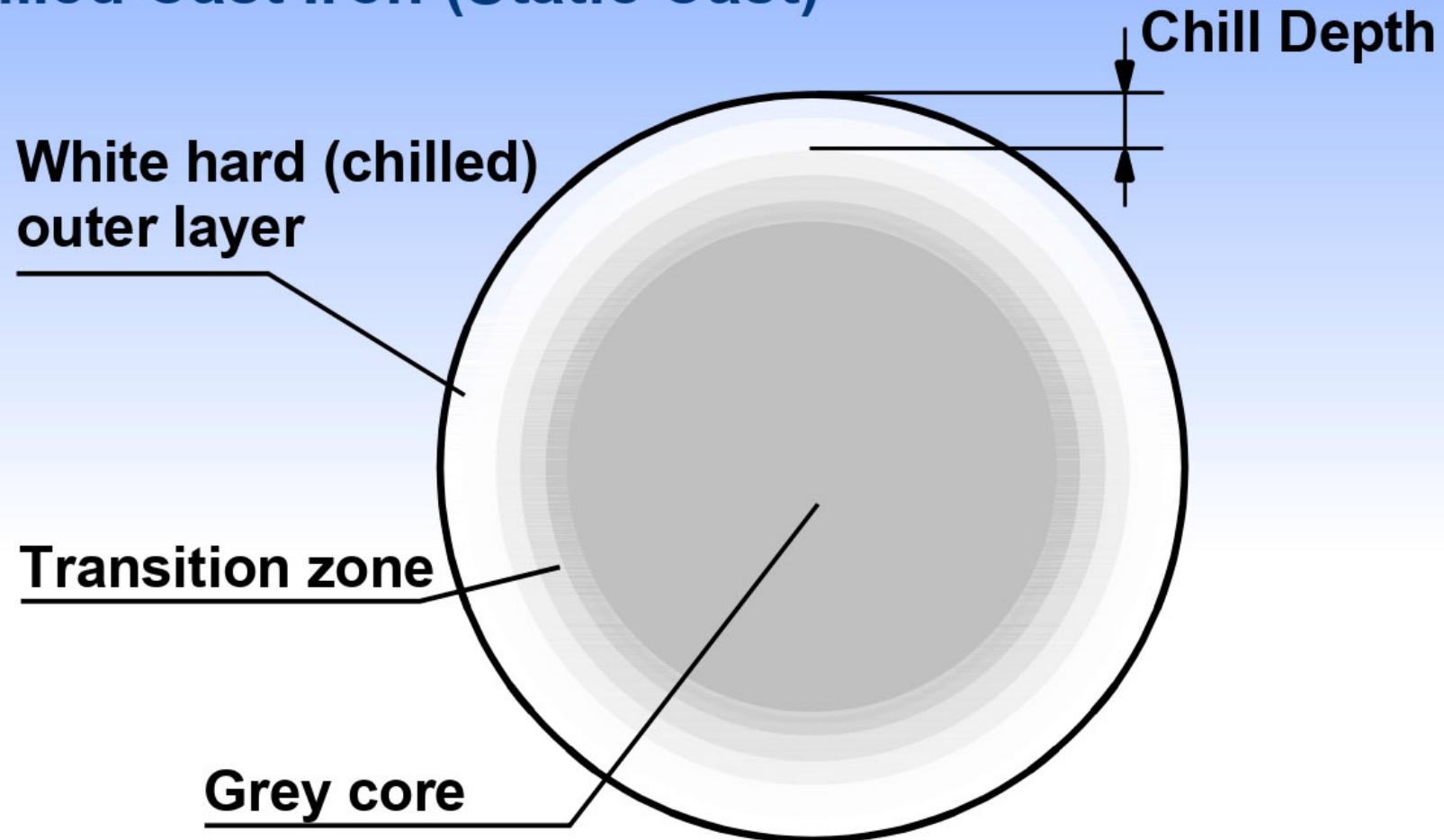


# Static Casting Process





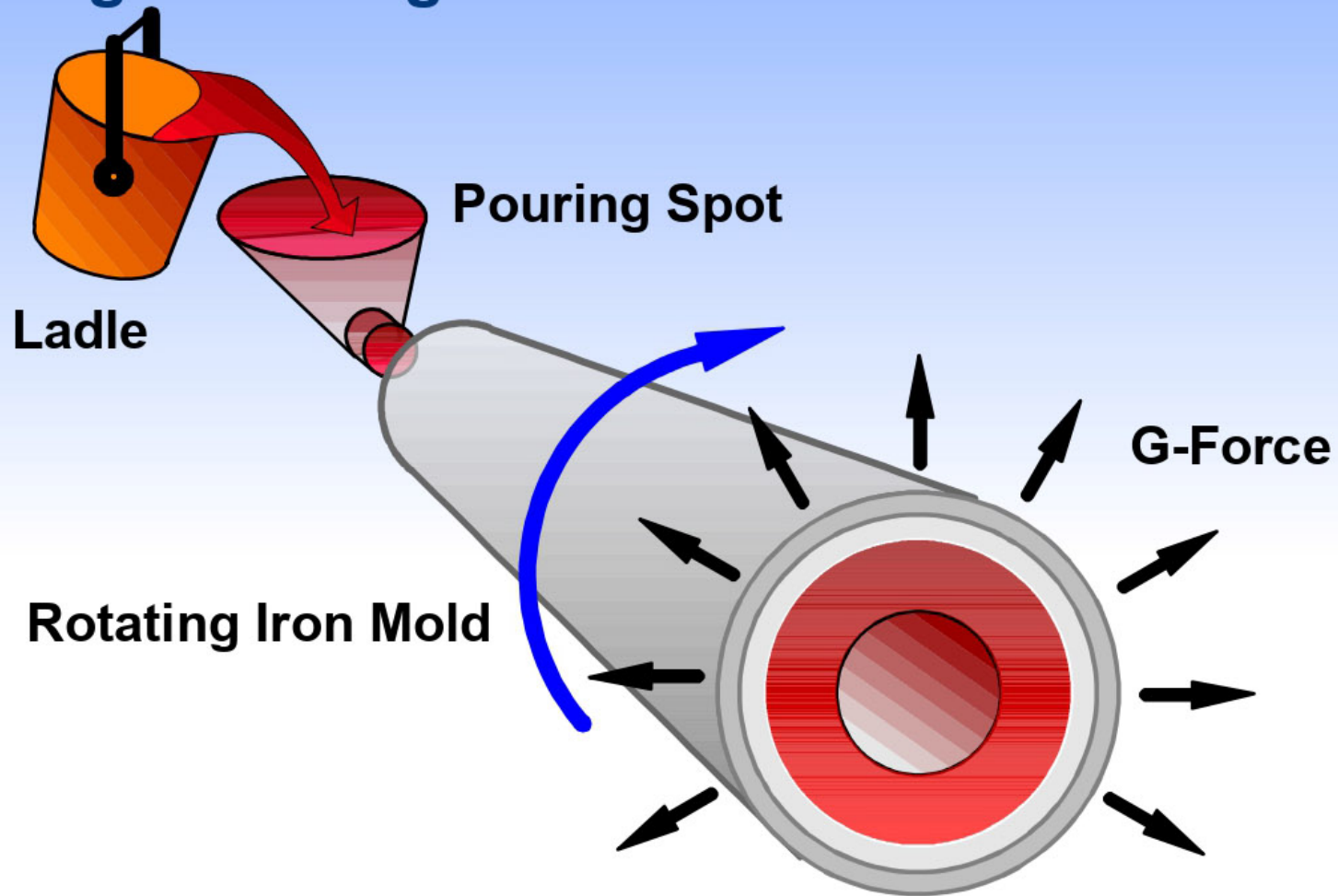
## Chilled Cast Iron (Static Cast)



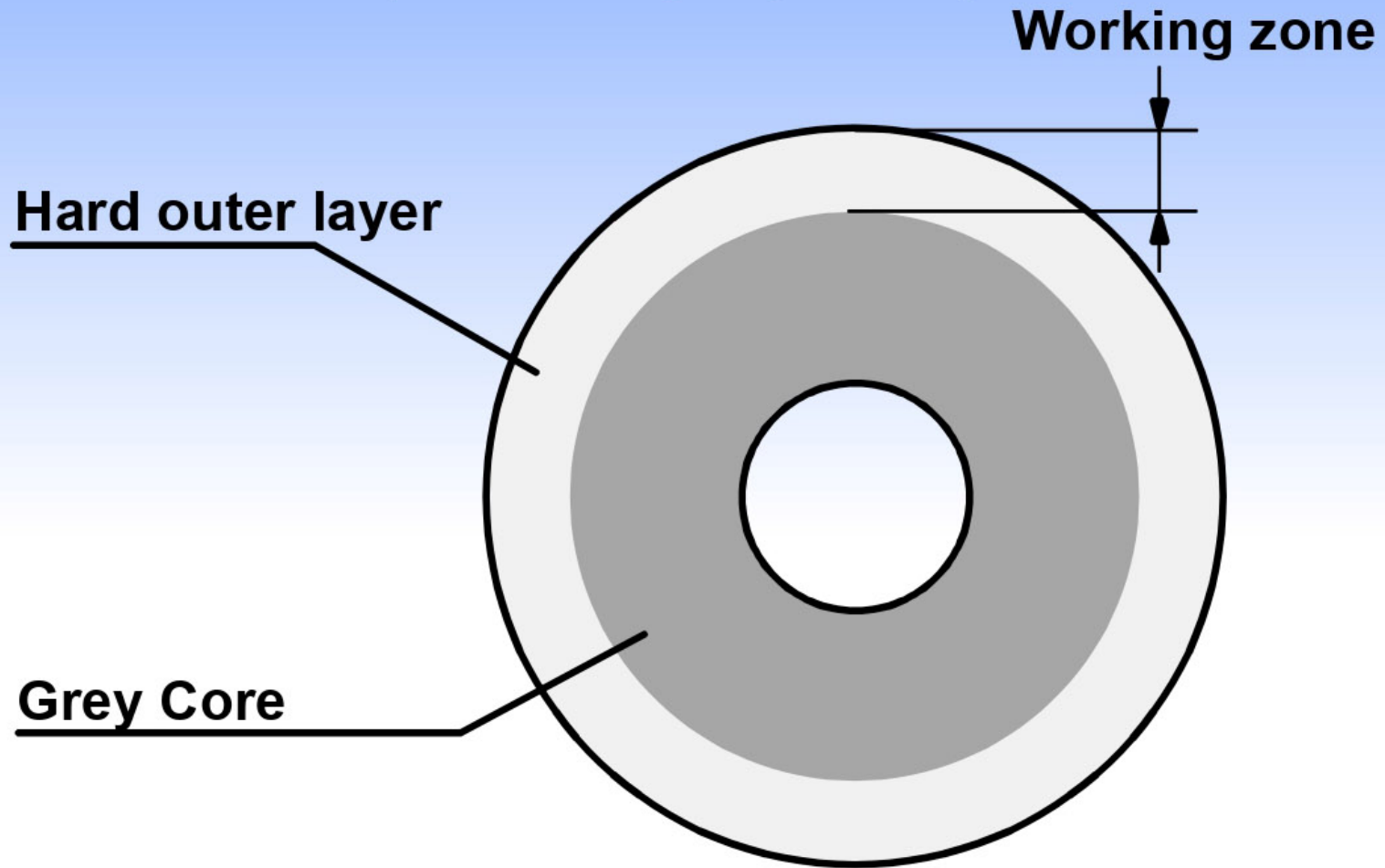
## Chilled Cast Iron (Static Cast)



# Centrifugal Casting Process

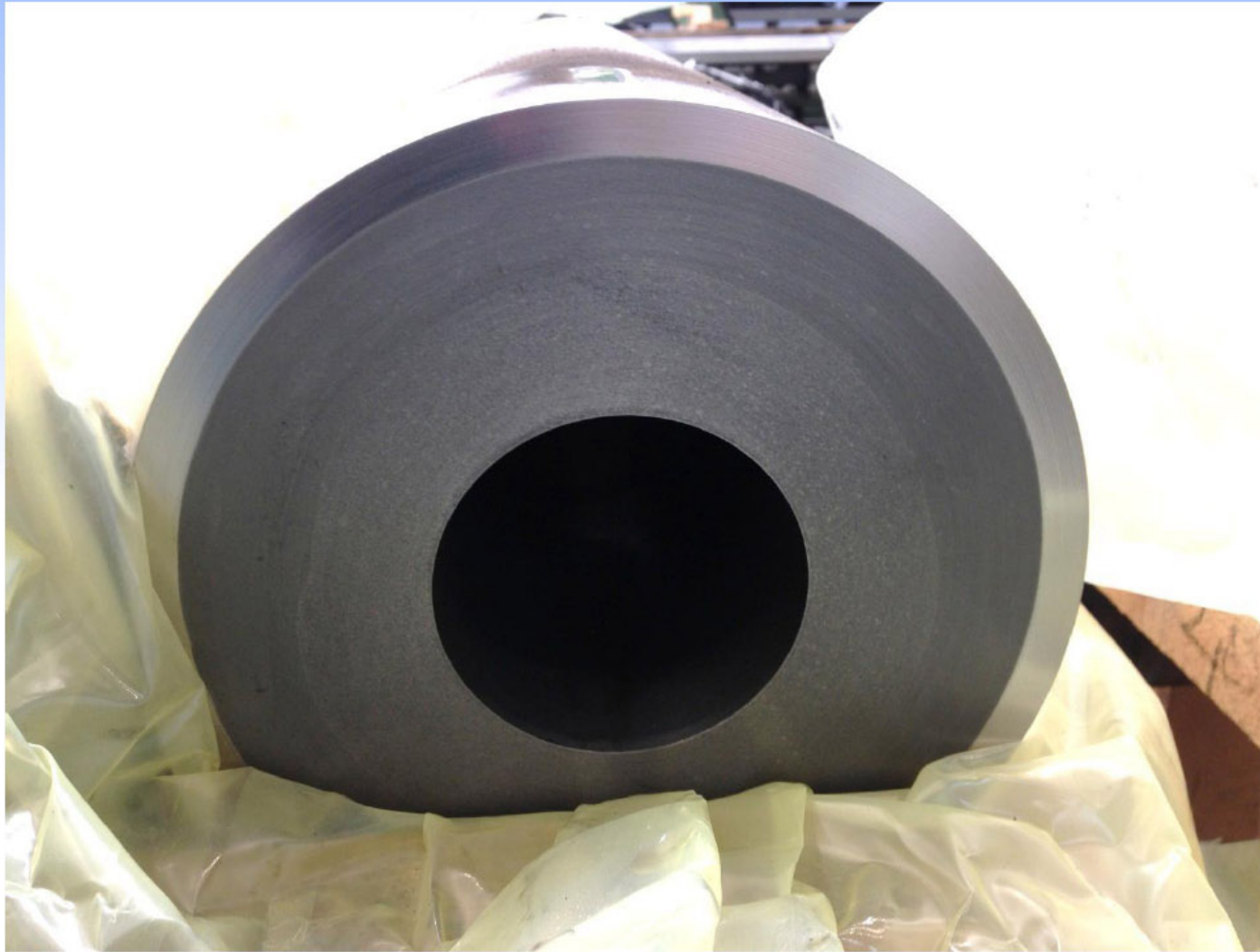


## Chilled Cast Iron (Centrifugally Cast)

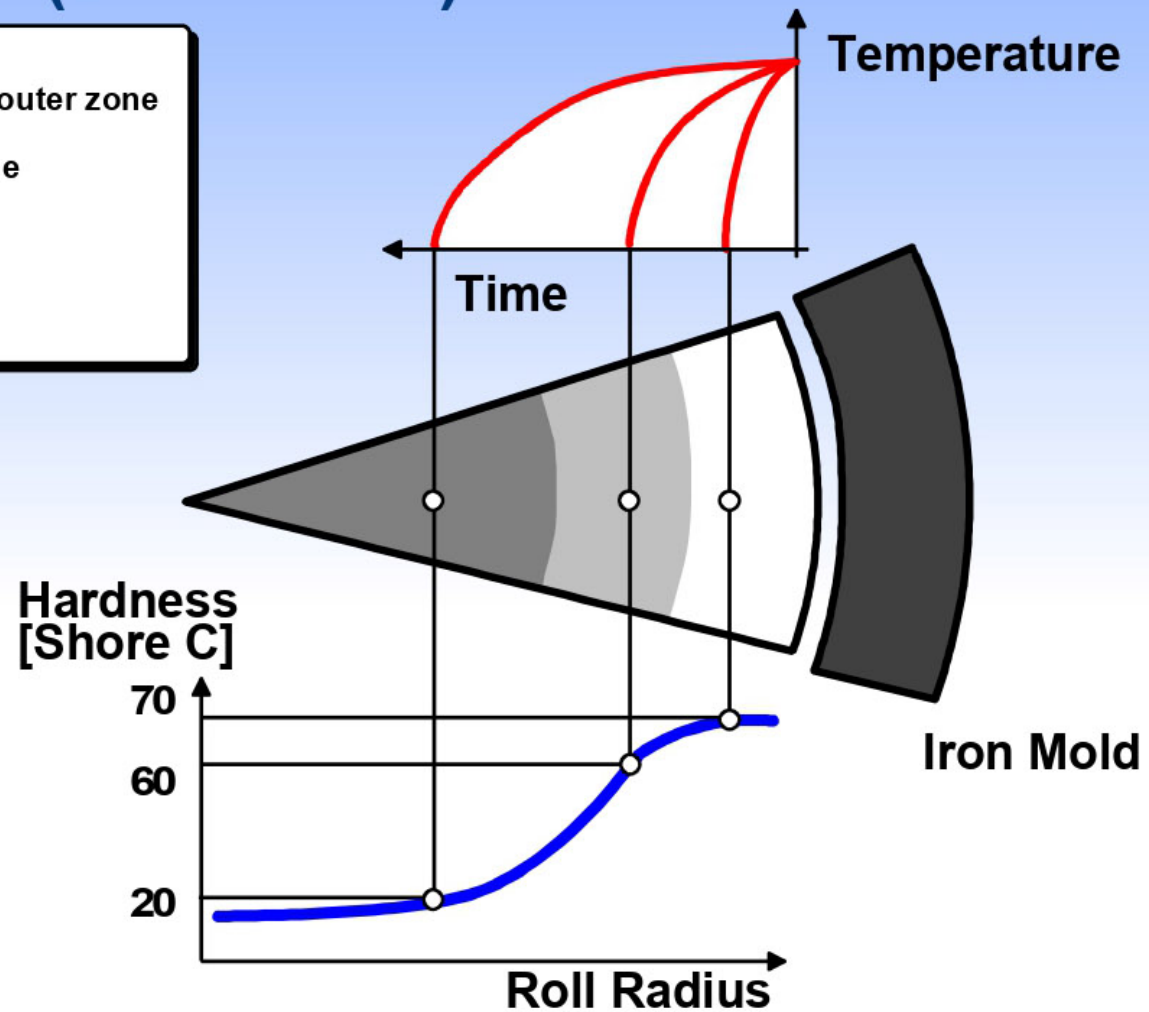
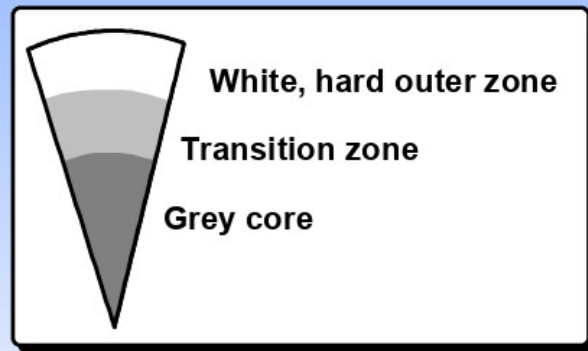




## Chilled Cast Iron (Centrifugally Cast)



## Chilled Cast Iron (Static Cast)



**Hardness variation related to casting/chill process**

## Chill Depth (Static Cast)

