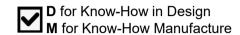
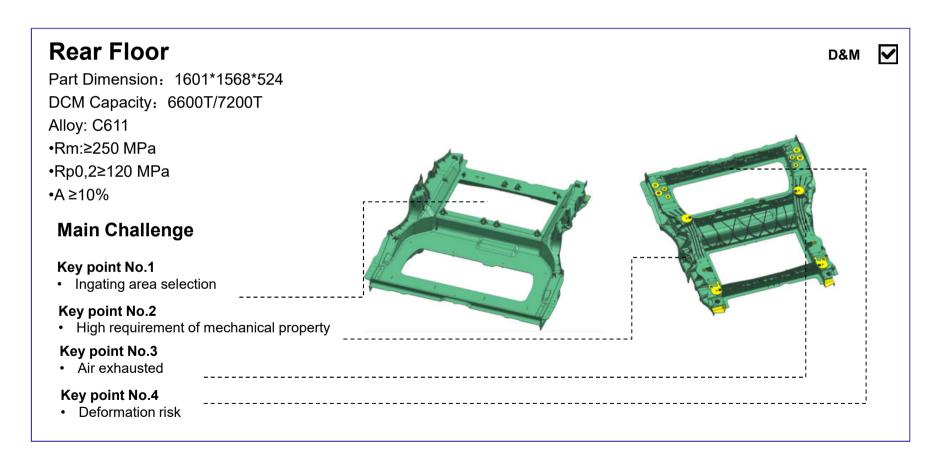
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Experience Advantage

For mega part between 5000T ~ 10000T

Mega part casting design Challenge







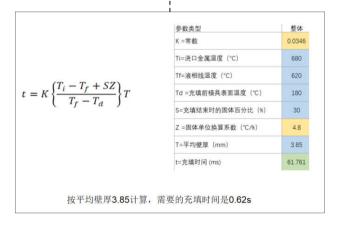
Experience Advantage

For mega part between 5000T ~ 10000T

Mega part casting design Challenge No.1

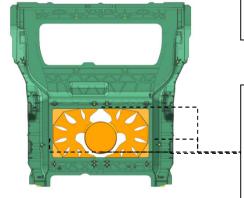
Key point No.1

- Mega part is heavier than normal part, but filling time could be not shorten (related to alloy & wall thickness)
- When Ingating wall thickness >5mm, elongation is hard to >10%



Alloy: C611
•Rm: ≥250 MPa
•Rp0,2≥120 MPa

•A ≥10%



Ingating along wall thickness 3.5mm

Solution

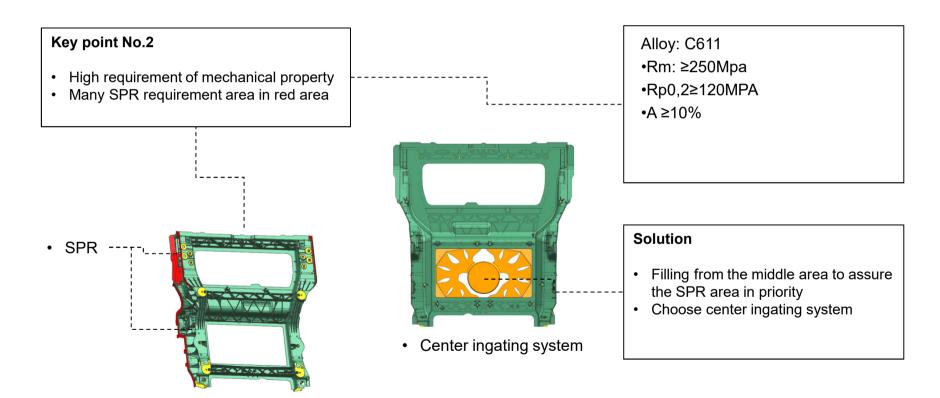
 Find or recommend to modify the wall thickness about 3.5mm area for ingating system



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Mega part casting design Challenge No.2





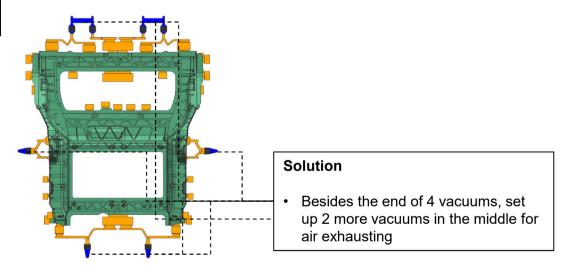
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For mega part between 5000T ~ 10000T

Mega part casting design Challenge No.3

Key point No.3

• Part's overall size is large, filling distance is long, air exhaust is hard



Multiple vacuum system

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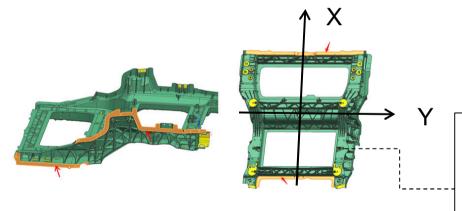
Experience Advantage

For mega part between 5000T ~ 10000T

Mega part casting design Challenge No.4

Key point No.4

• Part's overall size is large, it will affect the dimension after the process of solidification



Counter deformation

Solution

- Ejection set in slider to avoid demolding deformation
- Set thermal system to control the gap of temperature for each area of mold, to escalate the solidification area faster cooling