

Semi-solid Metal Processing Technology (SSM)

SSM technology based on billet route thixocasting and slurry-on-demand new rheocasting has been established to produce net shape high pressure die cast (HPDC) components for defence & aerospace applications.

SALIENT FEATURES

- High quality diecast components upto 2 kg weight
- Pressure tight components
- Near net shape components with excellent surface finish
- Suitable for high volume manufacturing at lower cost as compared to forged parts

AREA OF APPLICATION

- Marine Component : Propellers, Brackets, Pistons
- Hydraulic & Pneumatic Cylinders : Actuators and Valve Bodies
- Strategic components : Anti submarine weaponry, Missiles, Gun Systems & aerospace components



HPDC set-up at NMRL



**Thick & Thin walled A356 Al-Si Alloy
HPDC components by SSM Technology**

STATUS

Technology available for transfer