The characteristics of the rotor play a crucial part in achieving the best possible levels of electrical and mechanical performance.

**Shaft**

The rotor comprises a shaft, a hub for larger machines, and salient poles. The shaft is manufactured of forged or rolled steel and machined to exact specifications. Rotors for frame sizes 1250 and greater are normally equipped with a separate hub which is shrink-fitted onto the shaft. The shaft ends are normally cylindrical or flanged.

**Poles**

The poles are normally manufactured from 2 mm laminated steel sheet. The sheets are pressed together with inserted steel bars which are welded to the end plates. The pole structure is integrated or the poles are secured to the shaft or hub by bolts from above or below, or by means of dovetails. The poles are fitted with a damper winding.

All rotor assemblies undergo vacuum pressure impregnation (VPI) as complete units for excellent insulation and mechanical strength. After impregnation, the complete rotor assembly is dynamically balanced on two planes.

State of the art precision machined forgings are used in rotors for maximum reliability.

ABB is a leading supplier of generators for all marine and industrial applications. We have been manufacturing generators for more than 120 years and have extensive application experience with tens of thousands of installations all over the world. ABB offers reliable and efficient power generation with worldwide support.

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