The diameter of the end ring of a turbo generator can be between 0.5 and 1.6 metres. The end ring must pass stringent tests to ensure it can operate without deformation at speeds of up to 3,600 revolutions per minute. Non-magnetic stainless steel reduces the losses in the ring that are caused by eddy currents and thermal stresses. The ring is cold formed to provide the highest yield strength and to ensure plastic deformation does not occur during operation.