Simplex
Bush in bush system

General description
• Bush in bush version with sterntube bush in assembly bush
  – Assembly bush: inside finish-machined and outside rough-machined with seal flange ring
  – Inlay bush: inside and outside finish-machined for easy exchange
• True customized turnkey solution ready for installation
  – for all vessel sizes
  – for all vessel types
• Certified by all major classification societies

Advantages
Design
Customised and tailor-made to meet new building demands
Designed with all necessary pipes for seals, temperature sensor and hydrostatic connection
Computer-calculated hydrodynamic operational reliability to determine various technical parameters:
  – Shaft diameter
  – Maximum and minimum rpm
  – Radial load in t or kN
  – Maximum ambient and sea water temperatures
  – Oil viscosity (if oil type is known)

A significant amount of work already done → less preparation work necessary for design office and shipyard
Complete system designed for Simplex seals → maximum reliability

Installation
Plug and play solution delivered fully assembled and tested → immediate and easy installation by the shipyard
Ultrasonically tested before shipment. Test certificate can be supplied on request

Operation
Stress-free installation → reduced transmission of resonance and vibration
Flexible Pt 100 temperature sensor (optional) for an in-situ replacement during operation of the vessel → no second sensor necessary as mandated by most classes

Services
Easy maintenance:
  – Replaceable bushes of reliable Simplex-type
  – Temperature sensors can be changed without shaft withdrawal
Designed for in-situ overhaul as per certified and approved Simplex repair standards
Worldwide service network and availability of spares
1 Adapter rings (fwd and aft) – For a precise seal connection
2 Flexible temperature sensors (Pt 100) – Measurement of temperature at the white metal for remote monitoring
3 Lead or tin-based white metal lining – Mainly for merchant shipping
4 Oil grooves straight-aligned – Constant and reliable lube oil supply
   Specific helical oil grooves – For twin-screw vessels
5 Material bush design EN-GJL-200 (GG-20) cast iron – Mainly for merchant shipping
   Material bush design EN-GJS-400-15 (GGG-40) spheroidal cast iron – For higher stresses
6 Final fixing of the complete bush in bush system with epoxy resin
7 Supply lines – Air and oil supply for the aft seal, stern tube drain and lubrication

- Self-lubrication – Lube oil supply by natural circulation
- Hydrostatic lubrication – Including lubrication unit with temperature and pressure sensors – Minimized wear during manoeuvring with reversed direction of shaft rotation
- Direct forced lubrication – Additional constant supply of fresh lubricant

**Standard** | **Optional**
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