

The TCR Series

Benefits

- Ultimate performance
- Easy maintenance
- Increased lifetime of wear parts
- Simple installation
- Extended application range
- High power density, low weight and compact design
- Containment proven

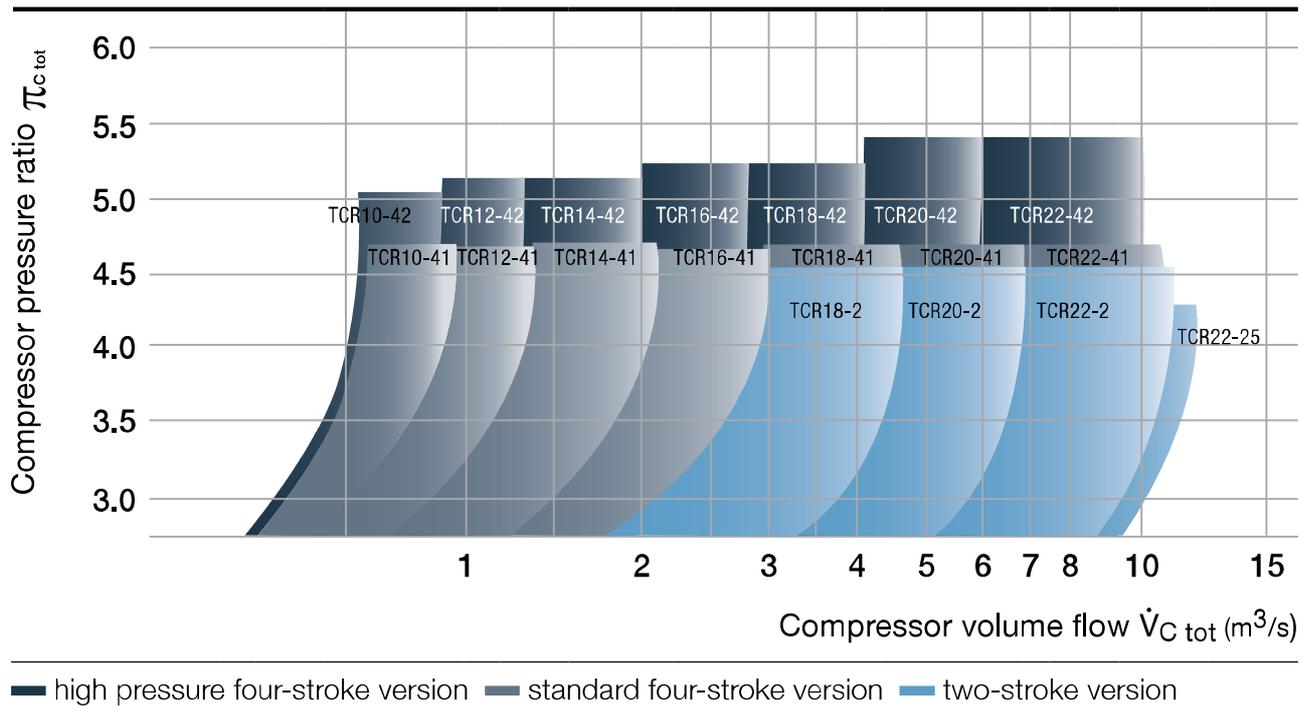
Features

- Overall completely new design

Turbine

- New CFD optimised profiled rotor blades, nozzle ring, inlet and outlet casing for increased efficiency
- Constant and pulse pressure turbocharging
- Optional variable nozzle ring

MAN Turbocharger application ranges TCR



Bearings

- High performance plain bearings for minimised mechanical losses
- Optimised shaft diameter for increased efficiency
- Compact plain bearing concept for best rotor dynamic performance

Compressor

- New CFD optimised compressor wheel, diffuser ring and compressor volute for increased efficiency
- Extended pressure ratio and specific volume flow
- Internal flow recirculation for extended surge margin (option)
- New compressor wheel fixation for easy servicing

Easy maintenance

- Extended inspection intervals
- Easy access to compressor wheel
- Reduced number of parts

Smart design for convenient installation

- Uncooled casings
- Lubrication by engine lube oil system
- Integrated oil inlet and oil drain for pipeless design
- No sealing air required

Others

- Compliance with present and future engine standards and environmental legal restrains
- Containment proven
- Low moment of inertia for best dynamic behaviour

