



New TCR22 Turbocharger

## MAN Diesel extends Application Range of its Radial Turbochargers

**06 October 2006.** The Augsburg-based Turbocharger Business Unit of the MAN Diesel Group has introduced a new model in its TCR range of radial turbochargers estimated to be the largest turbocharger of this type currently on the market.

With the addition of the new TCR22 turbocharger, MAN Diesel's range of radial turbochargers now consists of six frame sizes covering four- and two-stroke engines in a power range from 390 to 6,700 kW of engine output per turbocharger. As with all TCR turbochargers, the TCR22 is characterised by its high power density, low weight, compact design, maintenance-friendliness and, above all, high efficiency.

Increased turbocharger efficiency contributes directly to lower engine fuel consumption while also reducing exhaust gas temperatures. This latter factor benefits engine components subject to high thermal loading, thereby prolonging their effective life. With their lower component count compared to axial turbine designs, radial turbochargers are also more economical, both to purchase and maintain.

Significantly, the new TCR22 is able to replace the earlier axial turbocharger type NA40/S on MAN B&W small bore, two-stroke 35MC and 42MC engines, and will be first used on the new MAN B&W brand 35ME-B

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and 40ME-B engines. "Applying the advantages of our radial turbochargers results in a further improvement in the competitiveness of this popular engine series," notes Ralf Großhauser, head of the Turbocharger Business Unit.

In recent tests on an MAN B&W 6S35MC two-stroke engine rated 4,440 kW at 173 rpm, the new turbocharger demonstrated market-leading efficiencies over the engine's entire load range. In particular, efficiencies measured under part-load operation showed a marked improvement over turbochargers currently in use.

#### Captions:

1. MAN Diesel's new TCR22 turbocharger is suitable for applications up to 6,700 kW of engine output per turbocharger.
2. Cutaway drawing of an MAN Diesel TCR radial turbocharger.
3. Application ranges of the TCR radial turbochargers, including the new TCA22 model.
4. A TCR22 turbocharger under test on an MAN B&W 6S35MC small bore two-stroke engine rated 4,440 kW at 173 rpm. The new turbocharger demonstrated market-leading efficiencies over the engine's entire load range.

#### **About MAN Diesel**

MAN Diesel is the world's leading provider of large-bore diesel engines. The company designs two-stroke and four-stroke diesel engines, generating sets and turbochargers, for manufacture by MAN Diesel and its licensees. The engines have outputs ranging from 450 to 97,300 kW. MAN Diesel has approximately 6,400 employees, located in Germany, Denmark, the UK, France, the Czech Republic and China.

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The company's worldwide service organisation, MAN Diesel PrimeServ, consists of a network of own service centres, supported by authorised partners. MAN Diesel is a subsidiary of the German industrial group MAN AG which is listed on the DAX stock index comprising the 30 largest companies in Germany.

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