



Efficiency meets performance.

MAN TGX with new D38 engines.



# A NEW DIMENSION OF PERFORMANCE.



Some of the equipment shown in this brochure is not included as standard.





# PURE ENERGY.

→ **Dynamics to the power of six.** The new D38 engines combine superior power with efficiency. MAN presents an extremely reliable and highly efficient engine series for challenging transport needs with the 15.2-litre six-cylinder engines. With power output values of 382 kW (520 hp) to 412 kW (560 hp)\* and powerful torques of 2,500 to 2,700 Nm, these engines are at the forefront of the MAN Euro 6 vehicle series. MAN engineers have developed an array of technical features to set new standards with regard to output, reliability and efficiency. The driveline is among the best in its class thanks to its comprehensive, overall design. With their improved weight, superior running properties and excellent fuel consumption values, the power units give you a vital and more powerful edge on your road to success. Discover efficiency with new power – now in the MAN TGX.

[www.mantruckandbus.com/tg](http://www.mantruckandbus.com/tg)



High ignition pressures of up to 250 bar for high torque values at low engine speeds and reduced fuel consumption

Two-stage turbo charger for improved torque and a high level of reliability

Disengageable air compressor to reduce fuel consumption

Common Rail injection at 2,500 bar for improved torque and low fuel consumption

Two-stage exhaust gas recirculation (EGR) with high EGR rates of up to 40 %

Unique Top-Down cooling system for low wear and a long engine service life

Improved belt drive for high reliability

Low AdBlue® consumption

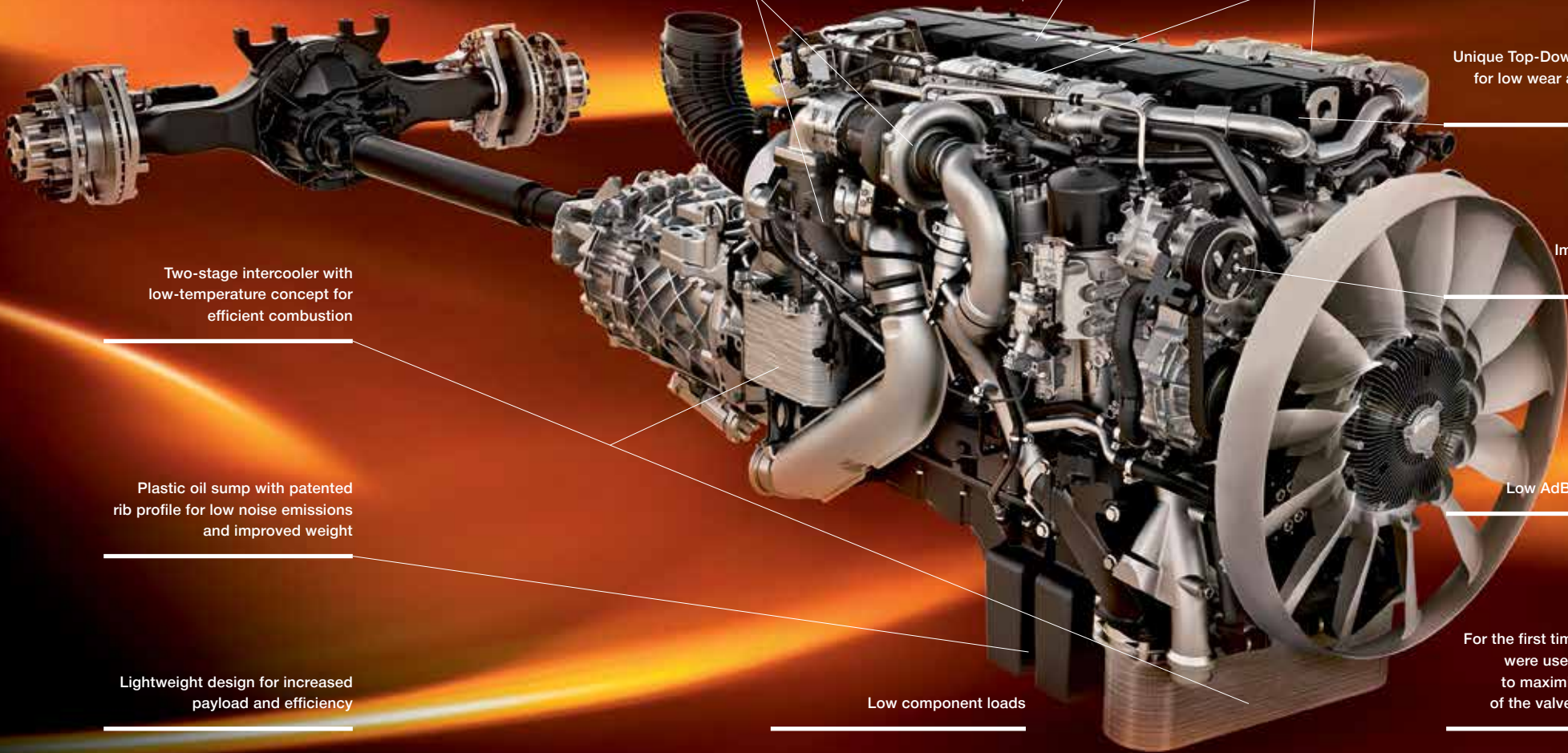
For the first time ever, arc valves were used in truck engines to maximise the service life of the valves and valve seats

Low component loads

Lightweight design for increased payload and efficiency

Plastic oil sump with patented rib profile for low noise emissions and improved weight

Two-stage intercooler with low-temperature concept for efficient combustion





# Efficiency now has even more power.

**High output, high torque and low fuel and AdBlue® consumption: the excellent D38 engine energy efficiency will be highly beneficial for you.**

The new D38 engines are part of a master class. Technologically sophisticated details, such as enhanced Common Rail technology with extremely high injection pressures of up to 2,500 bar, high ignition pressures of up to 250 bar and bi-turbocharging with a two-stage intercooler set new standards with regard to tractive power, fuel consumption and CO<sub>2</sub> emissions. High-tech for increased reliability. Even in the low engine speed range, between 930 and 1,350 rpm, the engine produces the maximum torque output of between 2,500 and 2,700 Nm and it maintains this performance over a wide engine speed range. Result: The MAN TGX is bursting with tractive power, reaching high average speeds even on hilly terrain while achieving outstanding fuel economy – which the disengageable air compressor also makes an effective contribution to.



## → Performance meets efficiency:

- Low fuel consumption and CO<sub>2</sub> emissions
- AdBlue® consumption reduced by 50 % compared with Euro 5
- Common Rail injection with 2,500 bar
- High ignition pressures of up to 250 bar
- Two-stage turbocharging
- Two-stage intercooling with low-temperature concept
- Disengageable air compressor to reduce fuel consumption
- Long, fuel-saving rear axle ratios



Top-Down  
cooling system



Arc valves



Plastic oil sump  
to save weight



# Now efficiency is even more economical.

**MAN TGX D38 vehicles are designed for maximum reliability and low service costs. What's more, they result in a considerably higher payload thanks to their particularly lightweight design.**

In long-haul transport, annual mileages of 150,000 km and above are quite common. MAN TGX D38 vehicles will easily match these conditions for many years to come. The innovative Top-Down cooling system is used in truck diesel engines for the first time to achieve maximum reliability and durability. It ensures particularly effective cooling of all cylinders to consequently reduce the load on components under high thermal stress. The so-called arc valves, designed to ensure a long valve and valve seat ring service life, are also celebrating their world première. An additional, heavy-duty benefit is the advantage with regard to payload. In the output categories of 412 kW (560 hp) and 471 kW (640 hp)\*, D38 engines are amongst the „lightweights“.

\* 471 kW (640 hp) for heavy-duty deployments only


## → Reliability is a question of technology:

- Top-Down cooling system for low wear and a long engine service life
- Arc valves to maximise the service life of valves and valve seats
- Optimised belt drive for high reliability
- Plastic oil sump to save weight
- Low service costs with same parts concept
- Lightweight design for increased payload and efficiency









# Driving is now even more enjoyable.

**MAN TGX D38 vehicles are masters of efficiency that will truly increase your emotions. Their dynamics and running properties make driving a unique and safe experience thanks to the new Turbo EVB engine brake.**

The road becomes a runway. A slight tap on the accelerator with the MAN TGX and you can enjoy pure driving dynamics like you have never experienced them before. Superior on gradients, powerful when accelerating: the MAN TGX with D38 engine helps reduce journey times. However, with the TGX 6x4 you can also feel the lion's power in traction distribution. And in heavy-duty transport, it will move you with an unrivalled ease. Can a brake increase driving pleasure? With its vast brake output ranges of up to 600 kW, the new Turbo EVB engine brake\* can. A very high degree of brake output is already available at medium engine speeds to enable descending of hills at higher vehicle speeds.

**→ Safe and superior deployment:**

- High average speeds in long-haul transport with challenging roads
- Powerful use in traction distribution with the MAN TGX 6x4
- MAN TipMatic® with new gearbox functions
- Intarder 3 with high brake torque
- \*New Turbo EVB engine brake with higher brake output for quick and safe descending of hills, available as an option on certain models from 2016

