



Only original parts have our uncompromising quality

The automobile industry relies on original turbocharging systems from BorgWarner Turbo Systems the world over. Our turbochargers are developed and tested using the latest methods – and produced in line with strict, globally-recognized quality standards, in many cases exceeding even our customers' tough requirements.

BorgWarner turbocharging systems prove their above-average efficiency, reliability and durability not only in rigorous tests by automobile manufacturers, but also day in day out on all the world's roads. These qualities are to be found in both our OEM products and in all original replacement parts and remanufactured turbochargers.

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Beware of non-original parts
Only settle for guaranteed quality



Beware of copies!

An increasing number of non-original BorgWarner turbochargers has recently been appearing on the spare parts market. These products are not from BorgWarner – yet they are marked with the BorgWarner trademark, have BorgWarner registration numbers and are sold in BorgWarner packaging. They are copies from the Far East which represent a hazard for vehicles and also for the health of our customers.

Understandably, we cannot accept responsibility for these products or any damage they may cause. To protect our customers from damage, however, we have taken legal steps to combat this form of illegal forgery. We also ask for your support here – if you are in any doubt as to the origin of your replacement turbocharger, please contact one of the addresses on the reverse of this brochure without delay.



Beware of copies

We perform quality tests – so you don't have to

In order to assess the quality of the non-original copied turbochargers, we examined two different units in our research laboratory and tested them according to our strict standards. The results have serious implications: turbine casings and compressor wheels showed serious defects in material quality, finishing and design, meaning that many tests had to be cut short in the initial stages, for example due to bearing damage.

The forged turbochargers pose an incalculable risk:

- The turbine casing is not designed for high exhaust temperatures. This means that unfiltered exhaust fumes can escape and penetrate into the passenger compartment – a risk for the health.
- The turbine wheel is made of low-grade materials. If the wheel breaks and the turbine casing does not withstand the impact, this can cause severe damage to the vehicle and serious, even fatal injuries.
- The bearing system is obviously designed incorrectly, which means that the turbocharger will have a short useful life.

The quality comparison in brief

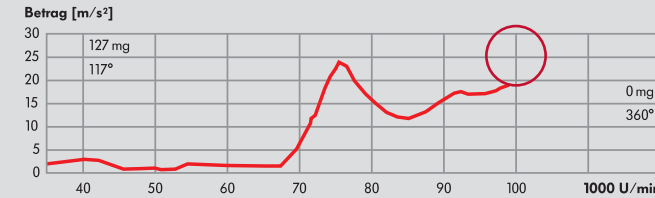
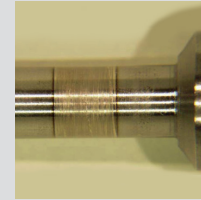
Test area: Load capacity

■ Original:

Designed for up to 180,000 revolutions per minute

■ Forgery:

Tests cut short at 83,360 and 100,000 revolutions per minute due to bearing damage



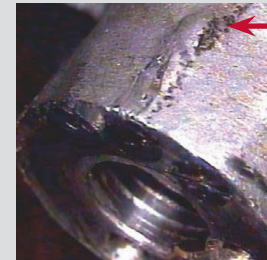
Test area: Balancing

■ Original:

Compressor wheel balanced in a complex procedure at the end of the manufacturing process

■ Forgery:

Compressor wheel balanced with improvised boreholes and lead fillings – even though the use of lead is forbidden in vehicle components in the European Community



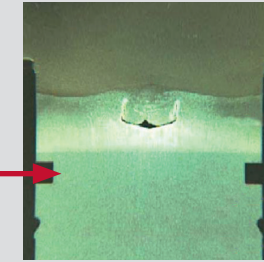
Test area: Heat restriction of the shaft and wheel welding zone

■ Original:

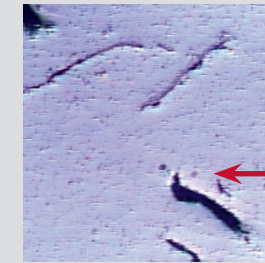
Efficient heat restriction in the form of a cavity between the turbine wheel and the shaft

■ Forgery:

No heat restriction, resulting in overheating of the welding zone



Test area: Turbine wheel material



■ Original:

Use of special high alloy materials and strictest structural specifications

■ Forgery:

Microscopic cracks and flaws in the turbine wheel mean that the wheel can break within a short time

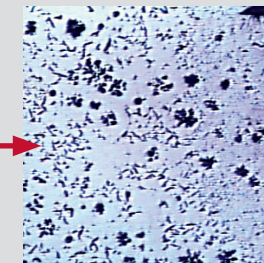
Test area: Turbine casing material

■ Original:

Turbine casing made from high-grade material with high consistency

■ Forgery:

Inconsistent microstructure limits the durability and resilience of the turbine casing



Only settle for guaranteed quality – at an authorized service support point

Purchase your BorgWarner replacement turbocharger at one of over 400 service support points worldwide.



Only here will you find original BorgWarner parts with guaranteed quality. And that's not all – Our comprehensive know-how, efficient logistics concept and pioneering communication solutions mean that your dealer has the correct original replacement part to hand fast, getting you on the road again quickly and efficiently.