

GARRETT® G25-550

Horsepower: 300 – 550 Displacement: 1.4L - 3.0L

The new G-Series line of turbochargers features the latest Honeywell technology. This 100% clean sheet product has many advanced features. New Compressor aerodynamics deliver up to 550 horsepower. High flowing Mar-M turbine wheel handles up to 1050 degrees C temperatures. New 8mm ball bearing cartridge is compact in size allowing us to produce a narrower center housing.

Features:

GARRETT® G SERIES COMPRESSOR AERODYNAMICS FOR MAXIMUM HP

FULLY MACHINED SPEED SENSOR AND PRESSURE PORTS

NEW TURBINE WHEEL AERO CONSTRUCTED OF MAR-M ALLOY RATED FOR 1055°C

STAINLESS STEEL WASTEGATED AND NON WASTEGATED TURBINE HOUSING OPTION CAPABLE OF 1050°C

OIL RESTRICTOR AND WATER FITTINGS INCLUDED

WASTEGATED TURBINE HOUSINGS DO NOT INCLUDE ACTUATOR ASSEMBLY KIT

Supercore Reference Data	Compressor				Turbine		
	Inducer	Exducer	Trim	A/R	Inducer	Exducer	Trim
G25-550 Standard Rotation	48mm	60mm	65	0.70	54mm	49mm	84

Notes:	Assy Kit PN	Super Core PN	Turbine Kit PN	A/R	Inlet	Outlet	W/gate	Divided
Standard Rotation	871389-5002S	858161-5002S	740902-0076	0.72	V-Band	V-Band	Yes	N
	871389-5003S	858161-5002S	740902-0077	0.92	V-Band	V-Band	Yes	N
	871389-5004S	858161-5002S	740902-0069	0.72	V-Band	V-Band	No	N
	871389-5005S	858161-5002S	740902-0068	0.92	V-Band	V-Band	No	N

Notes:	Assy Kit PN	Super Core PN	Turbine Kit PN	A/R	Inlet	Outlet	W/gate	Divided
Reverse Rotation	871390-5002S	871399-5001S	740902-0078	0.72	V-Band	V-Band	Yes	N
	871390-5003S	871399-5001S	740902-0079	0.92	V-Band	V-Band	Yes	N
	871390-5004S	871399-5001S	740902-0073	0.72	V-Band	V-Band	No	N
	871390-5005S	871399-5001S	740902-0074	0.92	V-Band	V-Band	No	N

Introducing performance out of a package you never thought possible. This clean sheet product is tailored to meet the demands of hard core racing enthusiasts while providing industry leading power capability in a small package.



A TURN AHEAD OF THE COM

GARRETT® G25-550 | G2
1.4 L - 3.0 L 300-550HP | 30

The most powerful small frame turbocharger on the market

The G-Series G25-550 and the G25-660 turbochargers are compatible with 1.4L - 3.0L engine displacements and capable of producing up to 550 and 660 horsepower. G Series 25 turbochargers are smaller and outflow all comparable products on the market.

New compressor and turbine aero combined with high temperature resistant materials allowed engineers to push the limits of performance.

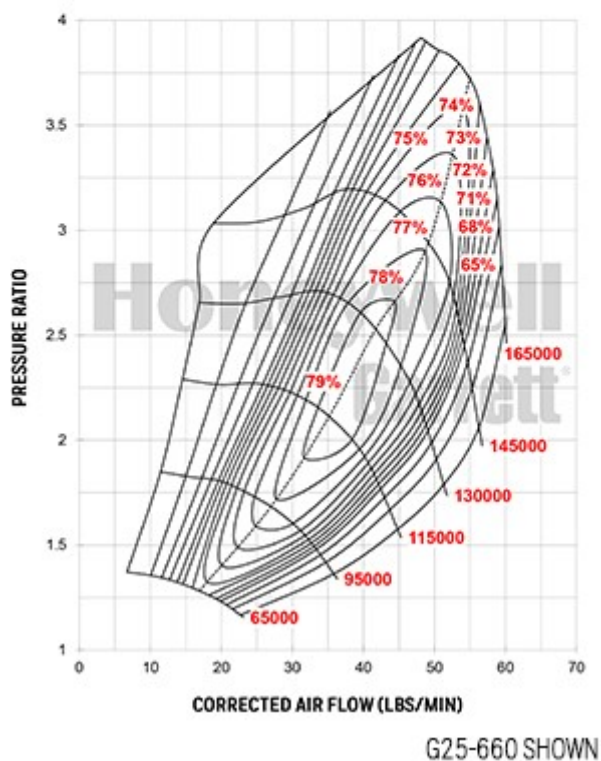
A new name designates a new generation of industry leading technology and innovation.

Understanding the Name:

G25-550 || G25-660

G designates 81 years of Garrett® heritage.

25 classifies the size of the frame. The remaining 3 digits identify the **max horsepower** rating of the turbocharger. (ie 550)



Compressor Aero

Forged fully-machined compressor wheel and new aerodynamics increase maximum horsepower output and boost response. The CFD (computational fluid dynamics) engineered compressor wheel increases air flow up to 15% for 60mm and 30% for 67mm with 79-80% efficiency. (Compared to GTX GenII)

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Available in standard rotation and reverse rotation options for enthusiasts that want the perfect twin turbo installation or a single reverse rotation turbo for applications with installation restrictions.

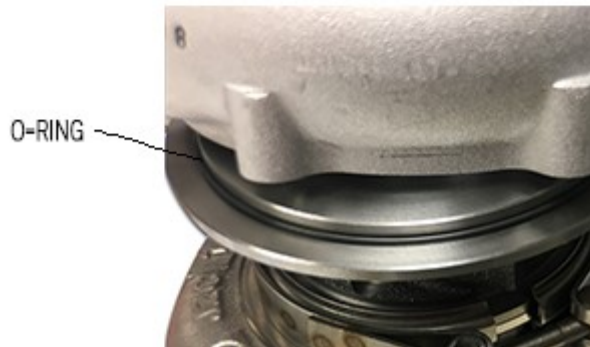
The compressor housing features a fully machined ported shroud to help reduce compressor surge. A fully machined speed sensor port provides enthusiasts the option to add the new G Series speed sensor to measure turbocharger shaft speed, a key factor in determining ideal operating conditions.

The new speed sensor is easy to install and does not need to be adjusted for length like previous sensors. Simply remove and plug, then insert the speed sensor and tighten the bolt. The new speed sensor is sold separately and is not compatible with GT and GTX sensors due to the new design and sizing.

The addition of an o-ring between the compressor housing and backplate reduces the possibility of boost pressure leakage.



Speed Sensor Street Kit: G Series Models	781328-0003
Speed Sensor Pro: G Series Models	781328-0004



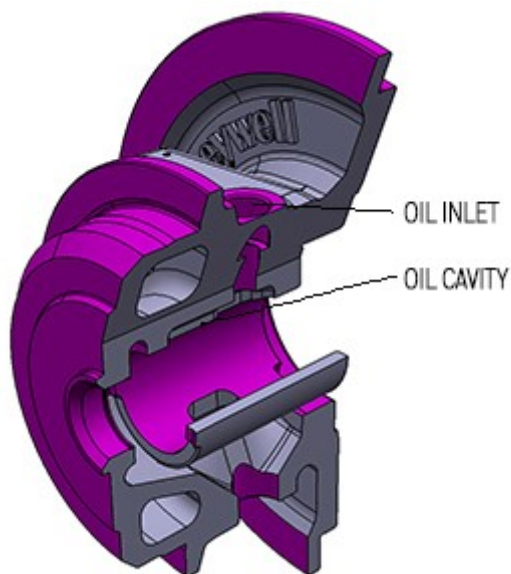
Center Housing

A new one-piece center housing and backplate increase durability and product safety by reducing the number of failure points associated with the turbocharger. The center housing to turbine housing v-band connection allows for 360 degree orientation when installing with Garrett® non-wastegated turbine housings.

Water Jackets

Four large water jacket ports increase cooling capacity and allow enthusiasts to customize water line routing to help improve the installation process. The turbocharger comes with two -6AN water fittings and two plugs.

*Recommended to install waterlines on opposite sides of the housing.



Oil Passage

A single stage oil passage directs pressurized oil to the new oil cavity ensuring proper bearing lubrication at both sides of the cartridge.

Each turbocharger includes (1) -4AN oil restrictor fitting with a 1mm orifice to provide the turbo with the recommended 40psi of oil pressure.

Rotating Group- twin piston rings

A shorter bearing cartridge allows us to incorporate twin piston rings on both sides of the shaft wheel assembly. This will reduce the likeliness of oil leakage at the seals from the center housing to the compressor and or turbine stage.





Turbine Wheel Aero

The turbine wheel features all new aerodynamics to improve flow and boost response. The new turbine wheel is made of Mar-M super alloy and is capable of handling exhaust gas temperatures up to 1050 degrees C.

The new turbine wheel flows 15-20% more than GTX and has peak efficiency of 74%.

Turbine Housings

All G Series Turbine housings are made from stainless steel to provide ultimate durability and temperature resistance up 1050 degrees C.

Internally wastegated housings are compact, efficient, and designed with maximum bypass port size to reduce boost creep and provide better boost control.

Turbine housings are available in a variety of wastegated and non-wastegated, open volute, T25 and Vband configurations so be sure to order the correct part for your application.

GARRETT® G25-660

Horsepower: 350 - 660

Displacement: 1.4L - 3.0L

Features:

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FULLY MACHINED SPEED SENSOR AND PRESSURE PORTS

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OIL RESTRICTOR AND WATER FITTINGS INCLUDED

WASTEGATED TURBINE HOUSINGS DO NOT INCLUDE ACTUATOR ASSEMBLY KIT.

Supercore Reference Data	Compressor				Turbine		
	Inducer	Exducer	Trim	A/R	Inducer	Exducer	Trim
G25-660 Standard Rotation	54mm	67mm	65	0.70	54mm	49mm	84

Notes:	Assy Kit PN	Super Core PN	Turbine Kit PN	A/R	Inlet	Outlet	W/gate	Divided
Standard Rotation	871389-5008S	858161-5003S	740902-0076	0.72	V-Band	V-Band	Yes	N
	871389-5009S	858161-5003S	740902-0077	0.92	V-Band	V-Band	Yes	N
	871389-5010S	858161-5003S	740902-0069	0.72	V-Band	V-Band	No	N
	871389-5011S	858161-5003S	740902-0068	0.92	V-Band	V-Band	No	N

Notes:	Assy Kit PN	Super Core PN	Turbine Kit PN	A/R	Inlet	Outlet	W/gate	Divided
Reverse Rotation	871390-5008S	871399-5002S	740902-0078	0.72	V-Band	V-Band	Yes	N
	871390-5009S	871399-5002S	740902-0079	0.92	V-Band	V-Band	Yes	N
	871390-5010S	871399-5002S	740902-0073	0.72	V-Band	V-Band	No	N
	871390-5011S	871399-5002S	740902-0074	0.92	V-Band	V-Band	No	N