

2024

G-XRACE PRODUCT LINE

Garrett
ADVANCING MOTION

G-XRace is Launched!














Winners are Built

A Heritage of Innovation

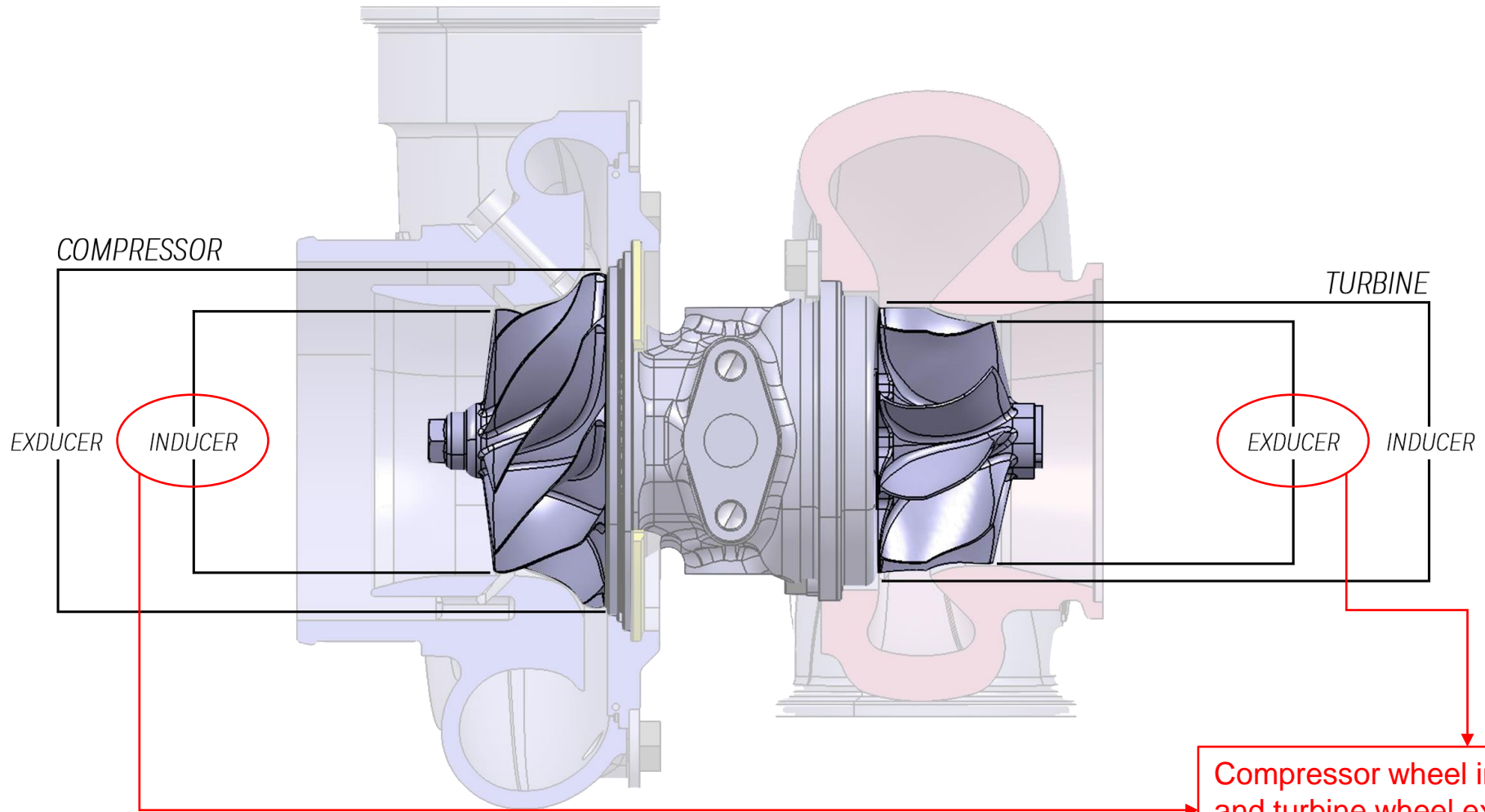
Powered by Decades of Leadership in Motorsport

Market Segmentation

	Drop-In Upgrade	Performance Enthusiast	Prestige Enthusiast	Pro-Am Racer	Value Enthusiast
					
Needs	Drop-in Repl. +15-25% HP OE Reliability Emission certified	>25% HP More No Chassis Modification Tech Data Emission certified	Bragging Rights Convenience - Turn-Key Solution Reliability, Drivability Emission certified	Winning Latest technology Class Rules	Availability Good enough performance
Garrett Offerings	Direct-Fit (PMAX Stage1) GTX	GTX, G-Series & Direct-Fit (PMAX Stage 2) Boost Adviser	GTX, G-Series Tech Details + Support	GTX, G-Series, G-XRace Tech Support	Low-cost GT / GTW, Club Line
GTX Differentiation vs Competitor	OE Reliability Optimized Aero Performance	Reliability Easy Kit Integration Optimized Aero Performance High Temp Capability	Reliability Easy Kit Integration Optimized Aero Performance High Temp Capability	Durability Safety HP Capability per Rules	Reliability Optimized Aero Performance
	 2014 – 2018 Volkswagen / Audi 2.0L TSI MK7 Stage 1	 GTX3576R Gen II  2017+ Ford Raptor / F150 3.5L Stage 2	 G40-1150  GTX3582R Gen II	 GXR45-73  G57-3000	 GT2860R  GBC35-700

G-XRace Applicable To More Segments Than Just Pro-Am

Customer Facing Dimensions

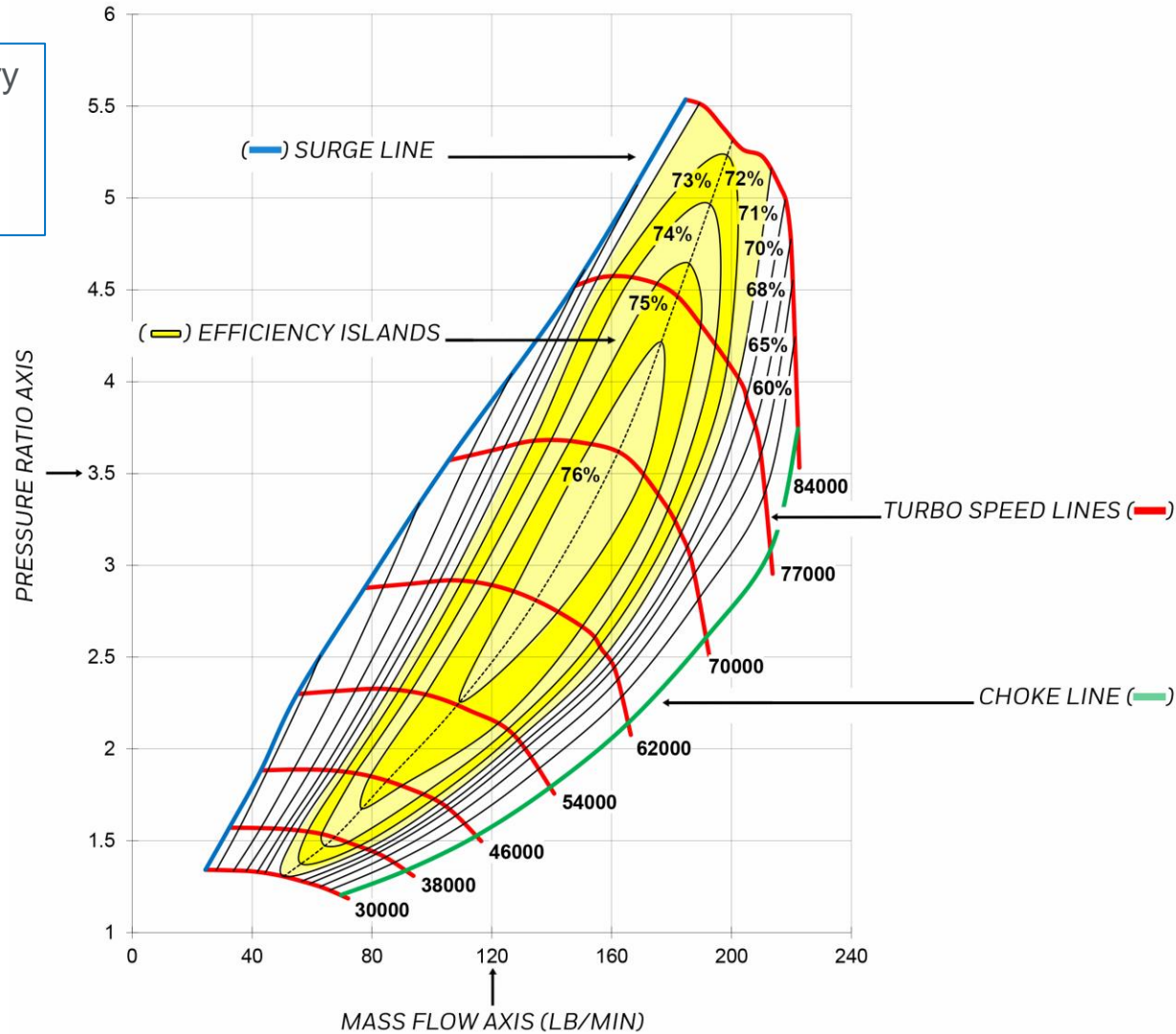


Compressor wheel inducer diameter and turbine wheel exducer diameter are commonly referenced dimensions

Compressor Map

Surge line is the left-hand boundary of the compressor map. Operation to the left of this line represents a region of flow instability.

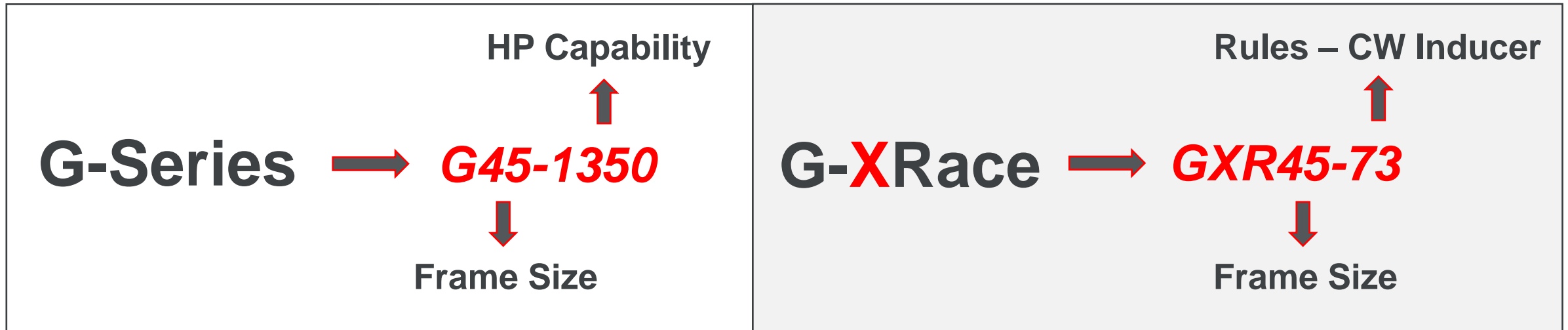
Efficiency Islands are concentric regions on the maps that represent the compressor efficiency at any point on the map



Turbo Speed Lines are lines of constant rotational speed in RPM

Mass flow at 60% efficiency – defines the power supporting potential of the turbo

G-~~X~~Race Model Names



Features

- Models Launched
 - GXR42-68, GXR42-72, GXR45-67, GXR45-73
- XBoost Technology increases power and performance
 - +29% compressor flow compared to G-Series
 - Enhanced pressure ratio capability and higher boost pressure
 - Increased efficiency at high flow rates
 - Lower intake temperature
- Lightweight aluminum backplate
- Fully machined flange-style speed sensor port for easy sensor installation and monitoring turbo speed
- Twin-scroll T4 and V-band turbine inlet flanges available to meet the needs of racers with different engines and manifold designs

NEW

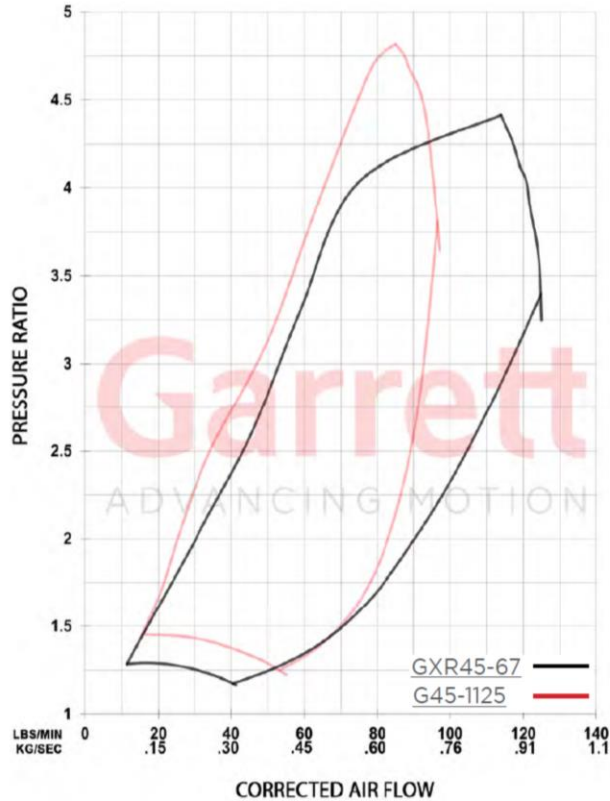


**Garrett G-Smart
Turbo Speed Module**

Increased Power And Performance to WIN the Race!

Performance Comparison: G-Series → G-XRace

XBoost Technology In Action



29% Flow increase compared to G-Series



11% Flow increase compared to G-Series

Flow Increase Compared To G-Series - Up To +29%



NEW



Launched 08Oct

GXR42-68, -72

- 68, 72mm
- Std Rotation | Ext WG
- Div T4, V-band 1.01, 1.15, 1.28, 1.44 A/R

GXR45-67, -73

- 67, 73mm
- Std Rotation | Ext WG
- Div T4, V-band 1.01, 1.15, 1.28, 1.44 A/R



G-**X**Race Features:

- XBoost Technology increases power and performance
- Up to +29% compressor flow compared to G-Series
- Enhanced pressure ratio capability and higher boost pressure
- Increased efficiency at high flow rates
- Lower intake temperature



<https://www.garrettmotion.com/racing-and-performance/performance-turbos/>

Increased Power And Performance to WIN the Race!



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HP	140 – 260 (Small Frame)	170 – 475 (Small Frame)	280 – 675 (Mid Frame)
Displacement	1.4L – 2.5L	1.4L – 3.0L	2.5L – 4.5L

GT2052

- 38mm
- Std Rotation | Int WG → Will be replaced by GBC20-300
- T25* 0.50 A/R

GT2252

- 40mm
- Std Rotation | Int WG → Will be replaced by GBC22-350
- T25* 0.67 A/R



GT Features:

- Legacy compressor & turbine wheel aero
- Ball-bearing except GT2052 & GT2252
- Standard rotation configurations
- Inconel turbine wheel material
- Ductile Iron*, Ni-Resist^ turbine housings

GT2554R

- 42mm
- Std Rotation | Int WG
- T25* 0.64 A/R

GT2560R

- 46mm
- Std Rotation | Int & Ext WG
- T25* 0.64 A/R

GT2860R

- 47mm
- Std Rotation | Int & Ext WG
- T25 0.64^, 0.86* A/R, V-band^ 0.57, 0.72 A/R

GT2860RS

- 47mm
- Std Rotation | Int & Ext WG
- T25 0.64^, 0.86* A/R, V-band^ 0.57, 0.72 A/R

GT2871R

- 53mm
- Std Rotation | Int & Ext WG
- T25 0.64^, 0.86* A/R, V-band^ 0.57, 0.72 A/R

GT3071R

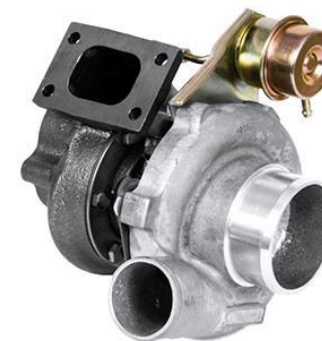
- 53mm
- Std Rotation | Int & Ext WG
- T3^ 0.63, 0.82, 1.06, V-band^ 0.61, 0.83, 1.01 A/R

GT3076R

- 57mm
- Std Rotation | Int & Ext WG
- T3^ 0.63, 0.82, 1.06, V-band^ 0.61, 0.83, 1.01 A/R

GT3582R

- 61mm
- Std Rotation | Int & Ext WG
- T3^ 0.63, 0.82, 1.06, T4* 0.63, 0.82, 1.06, V-band^ 0.61, 0.83, 1.01 A/R



<https://www.garrettmotion.com/racing-and-performance/performance-turbos/>

GBC (Garrett Boost | Club line)



GBC14-200

- 34mm
- Std Rotation | Int WG
- 3-bolt triangle flange, round inlet, 0.45 A/R

GBC17-250

- 36mm
- Std Rotation | Int WG
- T25 0.50 A/R

GBC20-300

- 39mm
- Std Rotation | Int WG
- T25 0.55 A/R

GBC22-350

- 44mm
- Std Rotation | Int WG
- T25 0.64 A/R

GBC Features:

- Integrated wastegate assy w/ calibrated actuator (14 – 22)
- Journal-bearing, oil-cooled center hsg
- GTX Gen II compressor aero, modern gasoline turbine aero
- Ductile iron turbine housings

<https://www.garrettmotion.com/racing-and-performance/performance-turbos/>



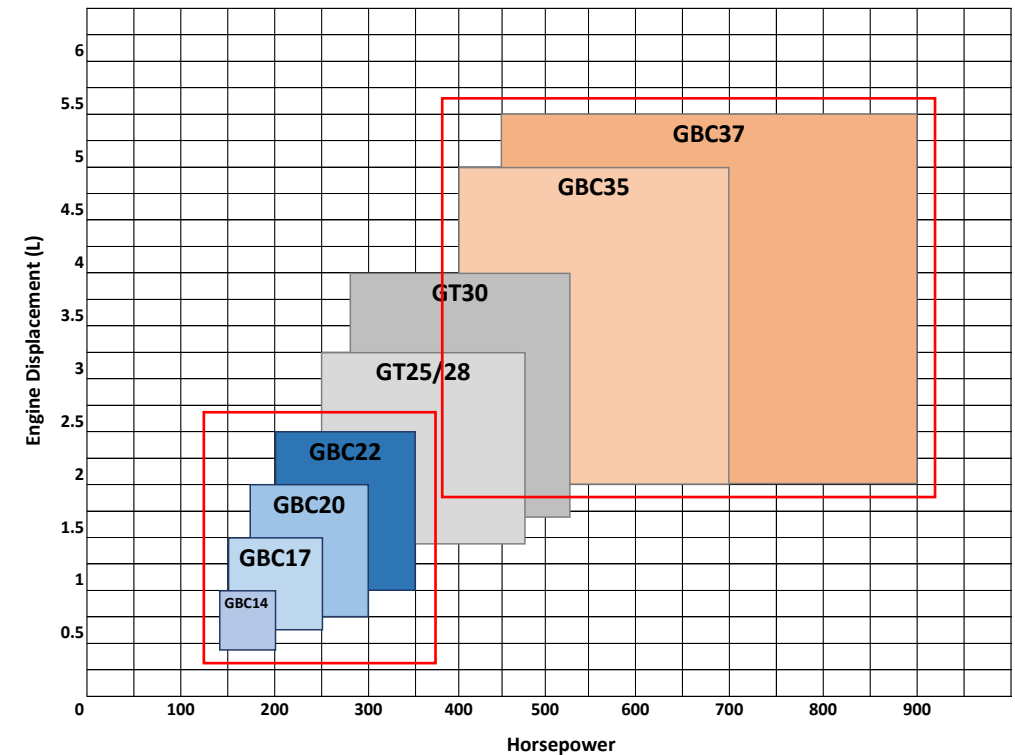
GBC35-700

- 58mm
- Std Rotation | Ext WG
- Lightweight Aluminum Backplate
- T3, T4, Div T4 0.82, 0.95 A/R

GBC37-900

- 67mm
- Std Rotation | Ext WG
- Lightweight Aluminum Backplate
- T3, T4, Div T4 0.82, 0.95 A/R

Under Evaluation



High Performance, Low Cost!

GTX (Gen I & Gen II)



GTX2860R, 67R

- 48, 54mm
- Std Rotation | Int & Ext WG
- T25 0.64[^], 0.86* A/R, V-band[^] 0.72, 0.92 A/R

GTX3071R, 76R

- 54, 58mm
- Std & Rev Rotation | Int & Ext WG
- T3[^], T4* 0.63, 0.82, 1.06 A/R, V-band[^] 0.61, 0.83, 1.01 A/R

GTX3576R, 82R

- 58, 66mm
- Std & Rev Rotation | Int & Ext WG
- T3[^], T4* 0.63, 0.82, 1.06 A/R, V-band[^] 0.61, 0.83, 1.01 A/R

GTX3584RS

- 67mm
- Std Rotation | Ext WG
- V-band[^] 0.83, 1.01, 1.21 A/R

GTX4088R

- 65mm
- Std Rotation | Ext WG
- Div T4* 0.95, 1.19 A/R

GTX4294R, 02R

- 70, 76mm
- Std Rotation | Ext WG
- Div T4* 1.01, 1.15, 1.28, 1.44 A/R

GTX4508R

- 80mm
- Std Rotation | Ext WG
- Div T4* 1.01, 1.15, 1.28, 1.44 A/R



GTX4709R, 20R

- 76, 80, 88mm
- Std Rotation | Ext WG
- T6* 0.96, 1.08, 1.23 A/R

GTX5009R, 20R

- 76, 80, 88mm
- Std Rotation | Ext WG
- T6* 0.96, 1.08, 1.23 A/R

GTX5533R, 44R

- 85, 88, 91, 94, 98, 102, 106mm
- Std Rotation | Ext WG
- V-band 1.24, 1.40 A/R, T6* 1.12, 1.24, 1.40 A/R



GTX Gen II Features:

- Gen II aerodynamics
- Standard and reverse rotation supercore configurations
- Inconel turbine wheel material (Mar-M for GTX3584RS)
- Ductile Iron*, Ni-Resist[^] turbine housings

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HP 300 – 1050 (Small Frame)	500 – 1600 (Mid Frame)	825 – 3000 (Large Frame)
Displacement 1.4L – 5.5L	2.0L – 5.5L	2.0L – 12.0L

G25-550, -660

- 48, 54mm
- Std & Rev Rotation | Int & Ext WG
- T25 0.49 A/R, V-band 0.72, 0.92 A/R

G30-660, -770, -900

- 54, 58, 62mm
- Std & Rev Rotation | Int & Ext WG
- T3, Div T4, V-band 0.61, 0.83, 1.01, 1.21 A/R

G35-900, -1050

- 62, 68mm
- Std & Rev Rotation | Int & Ext WG
- T3, Div T4, V-band 0.61, 0.83, 1.01, 1.21 A/R



G40-900, -1150

- 62, 71mm
- Std Rotation | Ext WG
- Div T4, V-band 0.85, 0.95, 1.06, 1.19 A/R

G42-1200c, -1200, -1450

- 73, 79mm
- Std Rotation | Ext WG
- Div T4, V-band 1.01, 1.15, 1.28, 1.44 A/R

G45-1125, -1350, -1500, -1600

- 67, 72, 76, 80mm
- Std Rotation | Ext WG
- Div T4, V-band 1.01, 1.15, 1.28, 1.44 A/R



G-Series Features:

- New G Series compressor & turbine wheel aerodynamics
- Standard and reverse rotation supercore configurations
- Mar-M turbine wheel material (G25, G30, G35)
- Stainless steel turbine housings

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G47-1550, -1650, -1850

- 76, 80, 88mm
- Std Rotation | Ext WG
- Lightweight One-Piece Aluminum Center Hsg
- T6 0.96, 1.08, 1.23, 1.39 A/R

G50-1700, -1900

- 80, 88mm
- Std Rotation | Ext WG
- Lightweight One-Piece Aluminum Center Hsg
- T6 0.96, 1.08, 1.23, 1.39 A/R

G55-1850, -1950, -2100, -2250, -2450, -2650, -2900

- 85, 88, 91, 94, 98, 102, 106mm
- Std Rotation | Ext WG
- Lightweight One-Piece Aluminum Center Hsg
- T6 1.00, 1.12, 1.24, 1.40 A/R, V-band 1.24, 1.40 A/R,

G57-2000, -2350, -2550, -2750, -3000

- 88, 94, 98, 102, 106mm
- Std Rotation | Ext WG
- Lightweight One-Piece Aluminum Center Hsg
- V-band 1.09, 1.25, 1.41 A/R

