

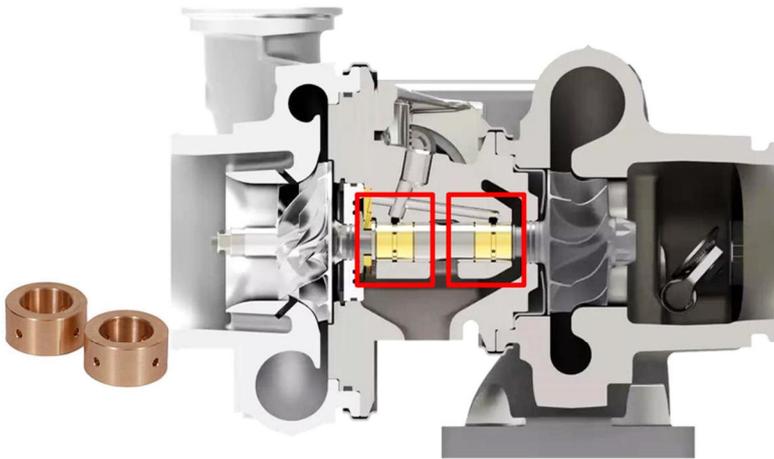
# Turbocharger Bearings

Cojinetes del Turbocompresor



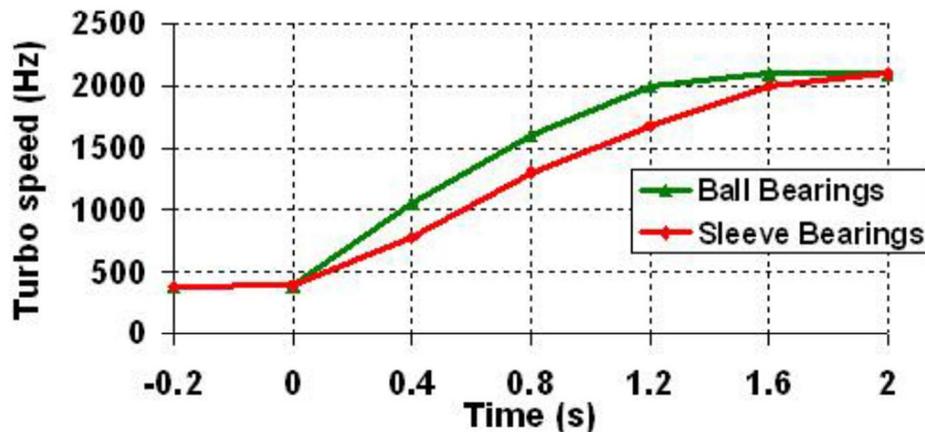
# FHD® FHD Bearings | Empowering Precision

## Turbocharger Bearings



- Higher lifecycle
- Lower cost
- Normal performance

Speed response when throttle is suddenly opened  
at 2000 rpm ( 2 litre S.I engine )



According to Garret who is 1st introduce ball bearing toturbocharger, some professional drivers of Garrett ball -bearing turbocharged engines report that they feel like theyare driving a big, normally aspirated engine.The development of ball bearing turbochargers has beendriven by the pursuit of drivability and better emissions.

- Less Power Consumption
- Rapid reaction
- Wear & Temp resistance
- Stable spinning
- Fit higher performance requirements



# FHD® FHD Bearings | Empowering Precision

## Turbocharger Bearings

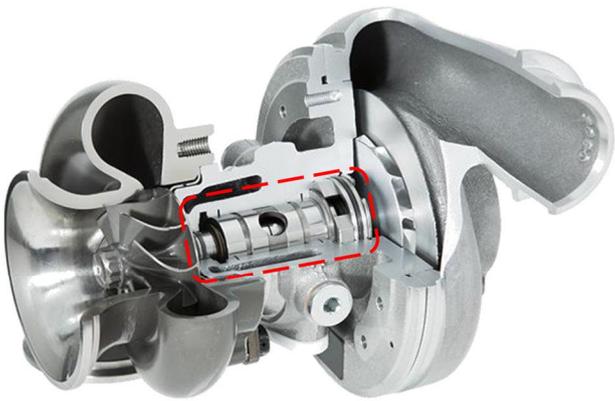
### Challenges

- Working condition with high temp. due to engine exhaust gas temp.
- Max revolution up to 120K~200K RPM, Even Higher
- Smooth running and low axial play
- Deprived oil condition when engine start & stop
- Rapid ACC & DECE performance at premium car
- Cooling & Lubrication provided by engine oil system



### Features

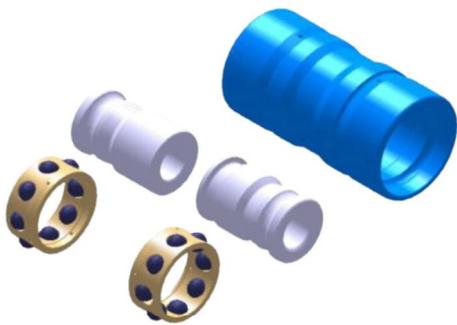
- Classic bearing alloy steel
- Special HT ensure constant performance under high temp.
- ACBB ceramic ball bearing DB integrated design
- PEEK/Steel cage adapt to different application
- High precision with P4
- SOP:6mm Series in mass production



# **FHD®** FHD Bearings | Empowering Precision **Turbocharger Bearings**

## **Cage:**

PEEK/Steel Cage, coating available for different application, improved oil-deprived condition performance.



## **Ceramic ball bearing:**

Better at wear resistant and high revolution

## **Special HT for bearing rings:**

Enables grain refinement, reduces residual austenite, and maintains initial accuracy capability





## Turbocharger Bearings

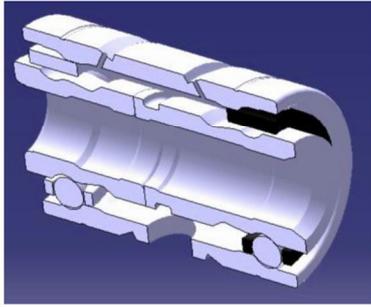
P/N	d Bore(mm)	D Outer(mm)	B Height(mm)
61834	6	18	34.2
62036	7	20	37
82242G04	9	22	42.5
82242G02	9	22	54
102844	11	28	44.6
102855	10	28	55
133566(Developing)	13	35	66.0
164468(Developing)	16	44	68
Discussing with customer	28	66	124.0

\*Geometry above is for reference

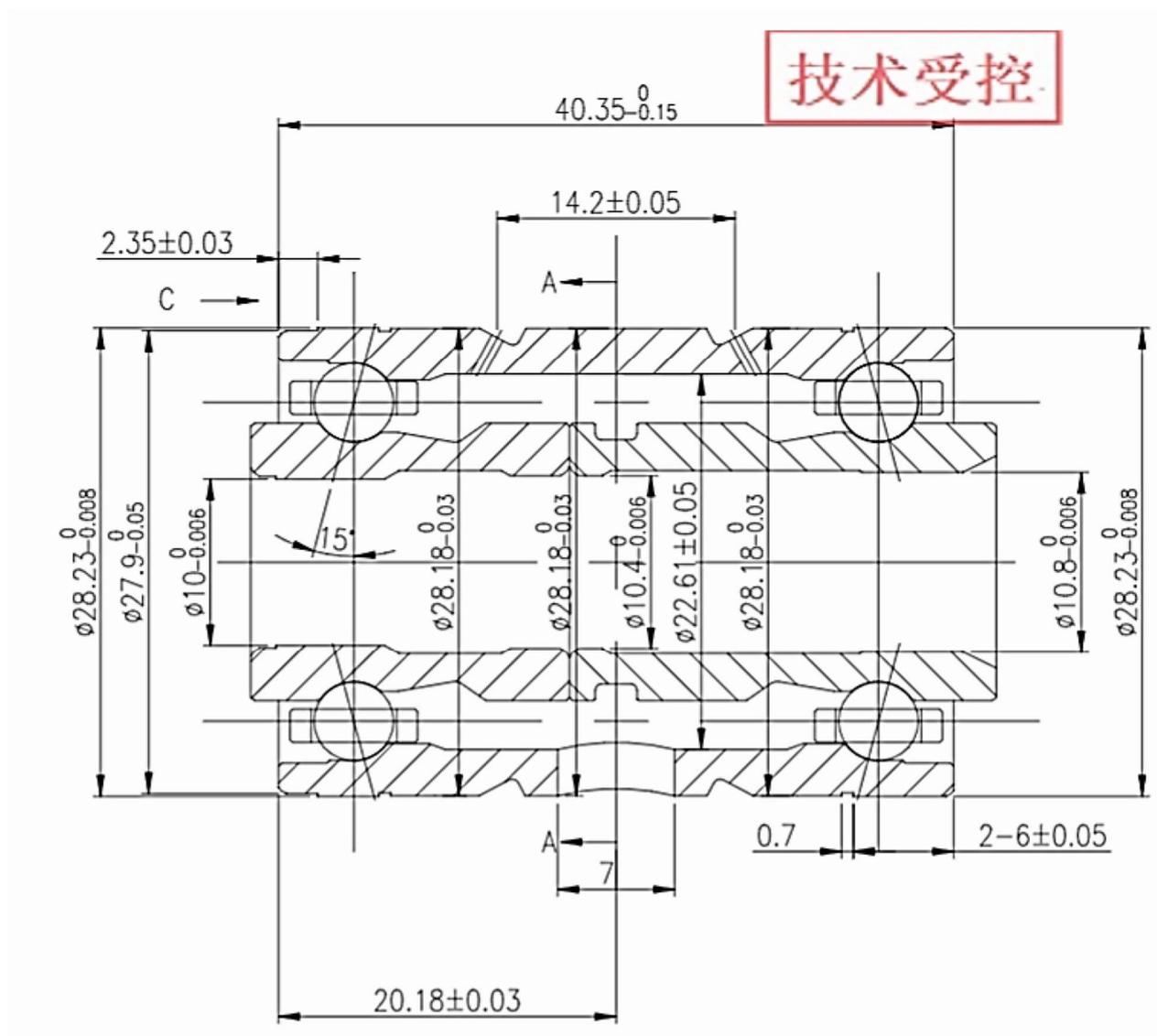








Basic PN	Configuration	Inner Ring Raw Material	Cage coating
102844	102844012	GCr15	Black
102844	102844013	GCr15	Silver





## ANY OTHER QUESTIONS?

For further information about FHD's wide range of turbocharger bearings, contact us today.



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