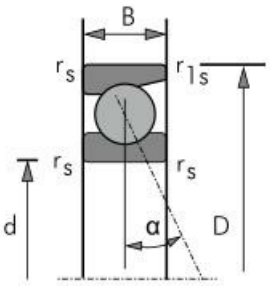
# HS71932 AC/HQ1 P4A TBT A




## Technical sheet of HS71932 AC/HQ1 P4A TBT A

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| **Type :** | | Angular contact ball bearings, super-precision |
| **Model :** | | HS71932 AC/HQ1 P4A TBT A |
| **Main demensions :** | 160 mm × 220 mm × 84 mm | Bore Dia × Outside Dia × Width Dia |
| **HS Code :** | 8482103000 | Bearing customs code |
| **d mm:** | 160 | inner ring diameter |
| **D mm:** | 220 | Outer ring diameter |
| **B(T) mm:** | 84 | Overall Width |
| **Cr kN:** | 47.1 | Radial dynamic load rating |
| **C0r kN:** | 70.5 | Radial static load rating |
| **Grease r/min:** | 7000 | Reference speed |
| **Oil r/min:** | 11000 | Limiting speed |

**Detailed parameters and installation dimensions:**

rs(min): 2 mm, r1s(min): 1 mm



**HS71932 AC/HQ1 P4A TBT A features:**
with solid outer and inner rings, ball and cage assemblies and solid window cages.
Ultimate Pursuit of Rotational Accuracy, High-Speed Performance, Rigidity, and Operational Stability
Rotational Accuracy and Low Runout: Dimensional and geometrical tolerances (such as roundness and parallelism) of the inner and outer rings and rolling elements are achieved at the sub-micron level (typically conforming to ISO P4, P2, or higher, or ABEC 7, 9 standards), ensuring extremely low radial and axial runout of the spindle or shaft system, which is the foundation for achieving high machining/measurement accuracy.

Optimized High-Speed Performance: Utilizing lightweight, high-precision ceramic balls (Si?N?) or top-grade steel balls reduces centrifugal force, lowering temperature rise and wear at high speeds; special cage designs (such as phenolic resin, special polymer, or machined brass cages) provide excellent guiding performance, low friction, and suitability for high speeds; internal geometry (contact angle, channel curvature) is optimized to balance temperature rise, rigidity, and lifespan at high speeds.
Superior Rigidity and Preload Stability: Typically supplied or installed in a "preloaded" state. Preload eliminates internal clearance, significantly improving the axial and radial stiffness of the system, raising the natural frequency, and suppressing vibration.
Excellent thermal stability and material properties: Utilizing specialized bearing steel (such as carburized steel) or high-temperature stainless steel, and undergoing special heat treatment, ensures dimensional stability and resists deformation caused by frictional heat or ambient heat.

**HS71932 AC/HQ1 P4A TBT A application:**
CNC machine tool spindles (machining center spindles, milling machine spindles, precision grinding machine spindles, turning-milling composite machine tool spindles), PCB drilling machines, precision engraving and milling machines, integrated spindle motor units, turbomolecular pumps, helicopter transmission systems, aero-engine accessories, gyroscopes, radar rotary mechanisms, precision rotary tables, precision reducers (such as RV reducers) and articulated spindles for industrial robots, high-performance turbochargers, racing car gearboxes.

**Tradebearing(TBS): https://en.tradebearings.com/**

Email: admin@tradebearings.com
Whatsapp/Mob.: +86 15906428604