



The OEM Chair Hardware Compatibility Checklist

Prevent Assembly Failures, Line-Side Shimming, and Warranty Claims Before You Order.

Sourcing isolated office chair parts from different suppliers is the #1 cause of assembly line delays and structural wobbling. Use this engineering checklist to audit your components before placing your next bulk order.

SECTION 1: Base-to-Cylinder Interface (The Danger Zone)

The junction between the chair base and the gas lift bears the most dynamic stress. A mismatch here leads to immediate wobbling and long-term fractures.

- ☐ **Center Bore Taper Match:** Does the base feature a standard 50mm center bore with the correct Morse taper to perfectly grip the gas cylinder?
- ☐ **Gas Cylinder Tube Specs:** Is the gas lift specified as Class 3 or Class 4 with a minimum 2.0mm tube thickness to prevent deformation under heavy loads?
- ☐ **Ground Clearance:** Once assembled, does the gas cylinder maintain a safe clearance from the floor to prevent scraping when the chair is fully loaded?

SECTION 2: Caster-to-Base Fitment

Loose or tight casters destroy production efficiency and ruin the user experience on the very first day.

- [] **Stem & Socket Standardization:** Do the casters feature the industry-standard 11mm (diameter) x 22mm (length) grip ring stem?
- [] **Socket Reinforcement:** For metal bases, is the caster socket adequately reinforced or sleeved to prevent metal-on-metal squeaking and stem snapping?
- [] **Floor Type Matching:** Have you matched the caster wheel material (e.g., soft PU for hard floors, hard nylon for carpets) to the end-user's primary environment?

SECTION 3: Material Integrity & Testing

Visual inspections cannot reveal internal micro-porosity. Demand proof of structural integrity.

- [] **Virgin Material Verification:** For aluminum bases, does the supplier guarantee 100% virgin ADC12-grade aluminum alloy rather than recycled scrap (which contains silicon impurities)?
- [] **BIFMA X5.1 Certification:** Has the specific base and cylinder combination passed the BIFMA dynamic drop and cyclic fatigue tests?
- [] **Corrosion Resistance:** For chrome or polished parts, do they pass the minimum 200-hour salt spray test for humid or coastal environments?

Stop Buying Parts. Start Sourcing Solutions. Don't risk your brand's reputation by patching together mismatched hardware. Tincci provides fully integrated, pre-tested **Chair Base Kits** manufactured through our network of seven specialized OEM facilities. We ensure 100% tolerance matching right out of the box.

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