



ACCSX™ Series – Accessory Filtration Excellence

Built to Support. Engineered to Last.

ACCSX-FBC™ – Filter Bag Cages Technical Overview

Filtracore Asia's **ACCSX-FBC™ Filter Bag Cages** are precision-engineered structural supports for industrial baghouse filtration, designed to meet the demanding requirements of plant engineers responsible for air-pollution control and process dust collection. Built to **tight dimensional tolerances**, each cage preserves the **cylindrical geometry of the filter bag**, ensuring **uniform airflow** and reducing turbulence that can cause premature bag wear or uneven pressure drop. By maintaining proper bag shape, the cages enable **consistent pulse-jet cleaning**, improving particulate release and lowering system differential pressure over the filter's service life.



Constructed for **mechanical strength and chemical resilience**, ACCSX-FBC™ cages are offered in **carbon steel, galvanised steel, stainless steel (304/316), and silicone (silicon-resin) powder-coated carbon steel**, with **titanium** available for extreme corrosive or high-temperature environments. Wire gauge, ring spacing, and weld integrity are controlled to withstand **high differential pressures, thermal cycling, and the stresses of reverse-air or pulse-jet cleaning** without deformation. Standard geometries include **round, oval, star, and**

diamond/flat, complemented by a full range of **top and bottom configurations** – such as T-flange, ring top, rolled flange, split collar, and welded or crimped bases – allowing engineers to match cages precisely to tubesheet layouts and bag-fastening methods. **Venturi options**, integrated or separate and fabricated in aluminium, galvanised, carbon steel, or stainless steel, are dimensioned to enhance cleaning energy and minimise dust re-entrainment.

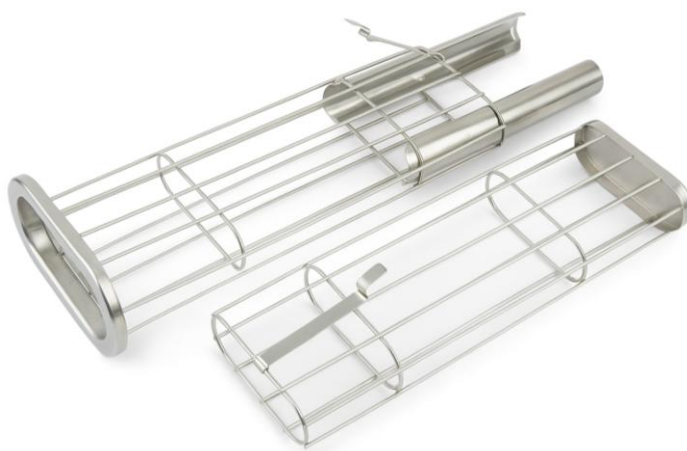
Each cage is subject to **rigorous QA/QC**, including dimensional verification, weld-strength testing, and surface-finish inspection, to ensure predictable performance in service. ACCSX-FBC™ cages can be produced to match the key specifications of major baghouse designs – such as those from **Donaldson®, AAF®, Parker Hannifin® (BHA®), and Nederman MikroPul®** – providing dependable fit¹, sealing integrity, and mechanical stability without requiring housing modifications.

Built for strength. Shaped for performance. Trusted in every baghouse application.

Technical Specifications

- **Material:** Carbon steel; galvanised steel; stainless steel (304 or 316); silicone (silicon-resin) powder-coated carbon steel; titanium available for extreme corrosion or high-temperature service.
- **Shapes:** Round, oval, star, or diamond/flat geometries.
- **Length:** Standard single-piece cages 1,000 mm – 6,000 mm. Multi-piece cages with finger/slide-lock connectors available for installations up to ~7,000 mm.
- **Diameter:** Common nominal diameters 120 mm – 200 mm; other diameters manufactured on request to match tubesheet and bag specifications.
- **Vertical Wires:** Typically 8, 10, 12, or 20 vertical wires depending on cage diameter and application duty; other wire counts supplied to drawing.
- **Wire Gauge:** 3 mm – 6 mm low-carbon or stainless steel wire (≈ 10 –4 AWG equivalents), specified to meet mechanical load and cleaning-pulse stress requirements.
- **Joint Construction:** One-piece welded (standard); or two-/three-piece cages with finger-lock or slide-lock connectors for restricted-height installations.
- **Venturi:** Optional; integrated or separate; aluminium, galvanised, carbon steel, or stainless steel. Typical venturi lengths 75 – 150 mm to suit pulse-jet cleaning energy requirements.
- **Top Options:** T-flange, ring top, rolled flange (top-load); split collar or split ring (bottom-load); custom top fittings available to match OEM housings.
- **Bottom Options:** Welded dish base, crimped/hemmed cup, or custom bottom plates to match bag and tubesheet designs.
- **Coatings / Finishes:** Epoxy; silicone (silicon-resin) powder; electro-galvanised/zinc; PTFE or other specialised corrosion-resistant finishes as required by process conditions.
- **Operating Temperature:**
 - Carbon/galvanised steel: up to ~ 260 °C (depending on coating).
 - Stainless steel 304/316: continuous service to ~ 425 °C.
 - Titanium: continuous service to ~ 480 °C.

(Service limits depend on atmosphere, cleaning cycle, and coating selection.)
- **Corrosion Resistance:** Coated and stainless versions can be specified to meet ASTM B117 or ISO 9227 salt-spray performance levels when required; actual resistance depends on coating thickness and operating environment.



¹ Compatibility depends on matching critical parameters (diameter, length, top/bottom style, ring spacing, wire count, and venturi design). Verification with OEM drawings or part numbers is recommended prior to order.

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