Baretti®
EQUIPMENT FOR OIL AND CHEMICAL INDUSTRIES

MASS TRANSFER

WORLD-CLASS ENGINEERING EXCELLENCE SINCE 1890

Baretti®
EQUIPMENT FOR OIL AND CHEMICAL INDUSTRIES

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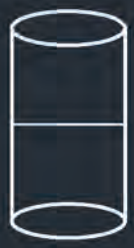
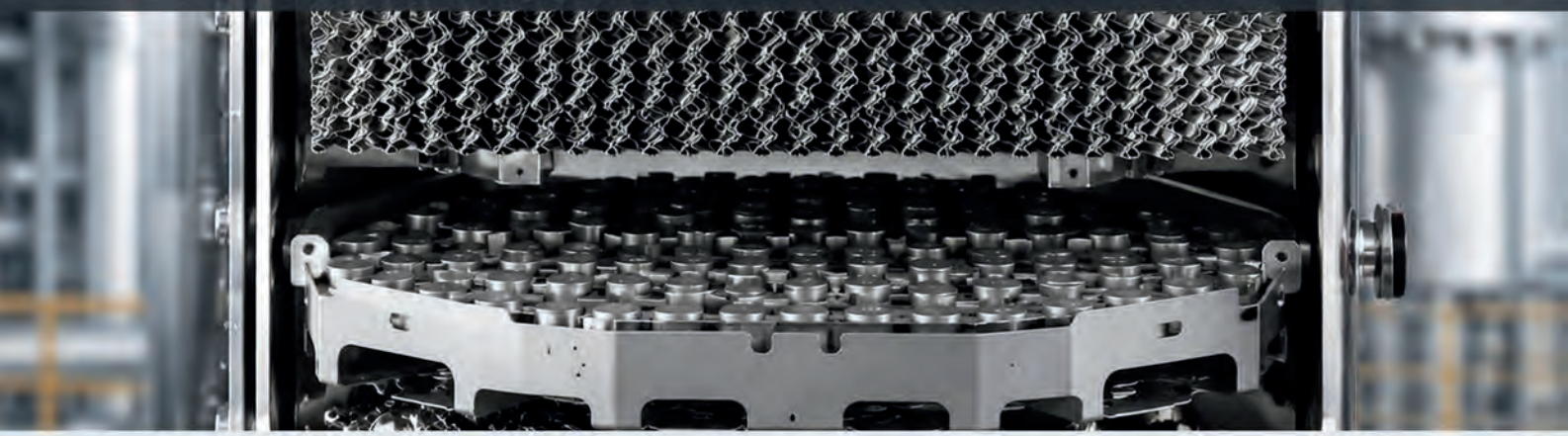
ENGINEERED PROCESS PERFORMANCE



Hydraulic precision, tailored internals and proven process performance.



01

BARETTI: OVER A CENTURY OF INNOVATION SERVING THE GLOBAL ENERGY INDUSTRY

Since 1890, Baretti has represented the perfect synthesis of Italian precision engineering and a global industrial vision. We are the strategic partner of choice for the world's most complex separation and fluid transfer challenges.

WHY GLOBAL LEADERS CHOOSE BARETTI

- **Technical Quality & Reliability:** We engineer solutions designed to outperform in the most severe operating conditions.
- **Competitive Value**: We provide cost optimization without ever compromising process integrity or safety.
- **Precise On-Time Delivery**: Our logistics and production are meticulously synchronized with your turnaround schedules to eliminate downtime.

01

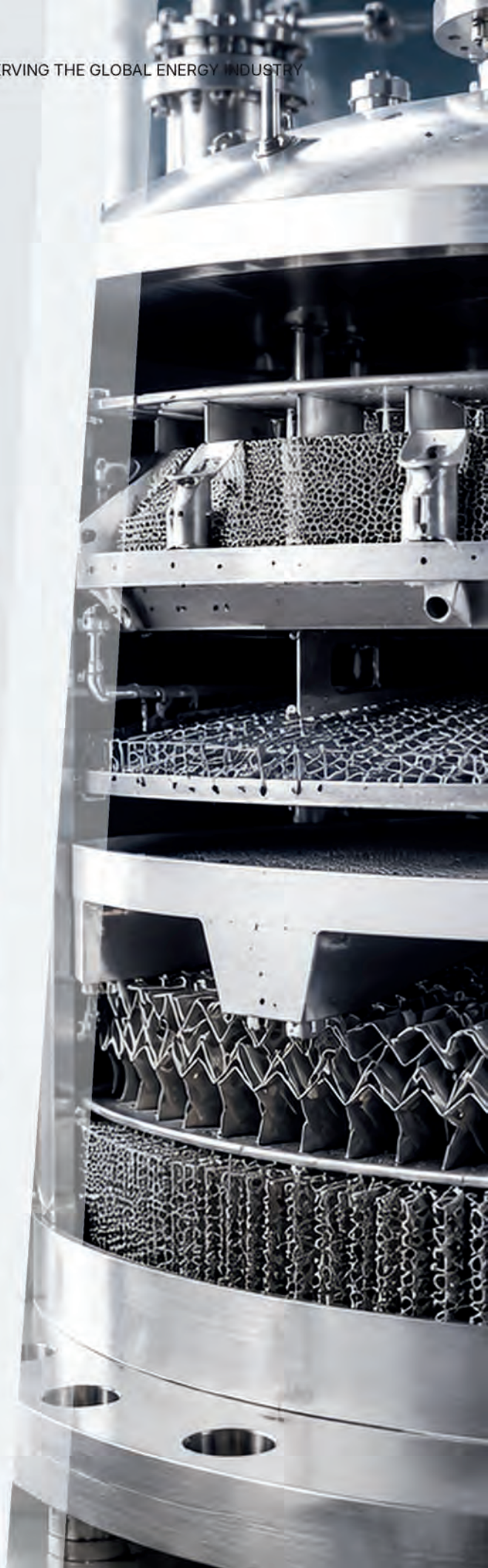
BARETTI: OVER A CENTURY OF INNOVATION SERVING THE GLOBAL ENERGY INDUSTRY

THE TECHNICAL AUTHORITY: FRI MEMBERS SINCE 1972

- **Experimental Data vs. Theory:** As a member of Fractionation Research, Inc. for over 50 years, we offer Total Hydraulic Guarantees based on proven experimental data rather than mere theoretical simulations.
- **Engineer-to-Engineer Trust:** This half-century affiliation allows us to provide the certainty required by leading process engineers worldwide.

INTEGRATED SOLUTIONS: FROM DESIGN TO SITE

- **Engineering Intelligence:** We don't just supply components; we provide the engineering intelligence to maximize their performance.
- **Turnkey Provider:** We have evolved into a "turnkey" solution provider, managing everything from initial design to site execution.
- **Certified Excellence:** Our commitment to quality is backed by ISO 9001 and ISO 14001 standards.



02 MASS TRANSFER: PERFORMANCE AND TECHNOLOGICAL INNOVATION

Our mission is to ensure that every separation process operates at peak efficiency. Baretti combines a deep historical legacy with advanced calculation methodologies to optimize yields and significantly reduce OPEX.

CRITICAL REPLACEMENT: SEAMLESS COMPATIBILITY & RAPID RESPONSE

- **Mission: Critical Spares**: We specialize in providing high-performance spare parts for existing columns, ensuring absolute compatibility with any Original Equipment Manufacturer (OEM).
- **Reverse Engineering Excellence:** Our advanced capabilities allow us to faithfully replicate internals, guaranteeing a perfect mechanical fit for "zero-surprise" installations.
- **Material Traceability:** Components are available in a full range of materials-from specialty steels to high-performance alloys-with total traceability.

STRATEGIC REVAMPING & DEBOTTLENECKING

- **Client Partnership:** We partner with our clients to study and implement revamping solutions designed to eliminate performance bottlenecks and transform legacy assets.
- **Hydraulic Performance Guarantees:** While many vendors offer only mechanical warranties, Baretti provides a full Hydraulic Performance Guarantee for the process outcome.
- **ROI Maximization:** Every project is engineered to ensure a rapid Return on Investment by significantly boosting production capacity and efficiency.

03

FRACTIONATION SOLUTIONS: EXCELLENCE IN TRAY TECHNOLOGY

We stand as a global leader in providing fractionation trays that merge a century of mechanical heritage with absolute hydraulic precision for the Oil & Gas, Food & Beverage, and Chemical industries.

PRECISION ENGINEERING & PERFORMANCE

- **FRI-Powered Simulations:** We leverage 50+ years of experimental data to simulate fluid behavior with surgical accuracy, eliminating weeping and entrainment.
- **Full Certification:** We provide total guarantees on capacity and pressure drop, offering process engineers absolute operational certainty.

VERSATILE TECHNOLOGY SUITE

- **Core Configurations:** We specialize in Movable & Fixed Valve, Sieve, Bubble Cap, and Cartridge trays tailored to your specific process loads.
- **Specialty Systems:** Custom-engineered designs for high-fouling services and Liquid/Liquid extraction.

THE BARETTI ADVANTAGE: TURNAROUND EFFICIENCY

Our use of rapid-fastening hardware and high-grade materials drastically reduces maintenance time and extends the operational life-cycle of your internals.

04 MOVABLE VALVE TRAYS: MAXIMUM OPERATIONAL VERSATILITY

Baretti's movable valve trays are engineered for maximum Operational Versatility (High Turndown), setting the gold standard for refining with consistent efficiency across wide operating loads.

THE FLOATING VALVE ADVANTAGE (SERIES BARETTI BV & BDH)

We offer state-of-the-art floating valve technology in two primary configurations, perfected to solve specific process challenges:

- **Baretti BDH Series (Rectangular):** A perfected classic design that optimizes vapor passage areas, drastically reducing weeping and entrainment during load fluctuations.
- **Baretti BV Series (Round):** Optimized for minimal pressure drop. Available in caged or leg-integrated versions for superior stability against high-frequency vibrations.
- **Dynamic Response:** Our valves respond instantly to vapor flow changes, maintaining optimal gas-liquid contact without efficiency loss.

RESILIENCE & INTERCHANGEABILITY

- **Premium Construction:** Manufactured using high-grade materials and increased thicknesses to withstand the most severe service conditions.
- **Plug-and-Play Replacement:** We specialize in 100% mechanical interchangeability, allowing for immediate restoration of OEM tray efficiency with zero on-site modifications.
- **Vibration Resistance:** Our caged and leg-integrated designs are engineered to prevent valve loss in turbulent zones, ensuring long-term mechanical reliability.

05

FIXED VALVE TECHNOLOGY: HIGH-CAPACITY & ANTI-FOULING

When the process demands maximum through put or operates under extreme fouling conditions, Baretti's fixed valve technologies push past conventional limits to ensure profitability.

PROPRIETARY BARETTI BV-0 TECHNOLOGY

- **High-Capacity Excellence:** Our proprietary BV-0 fixed valves maximize the tray's active area, significantly boosting operating capacity and delaying the flooding point.
- **Superior Efficiency:** The tapered shape eliminates dead zones and optimizes vapor-liquid contact, resulting in the lowest possible pressure drop.
- **Extended Run Cycles:** We specialize in SVG and ACVG series, designed specifically for coking and polymerization environments to drastically lower maintenance costs.

HIGH PERFORMANCE FEATURES (HPT)

- **Advanced Fluid Dynamics:** We integrate swept-back downcomers; bubble promoters to activate the aeration of clear liquid; flow breakers to start the disengagement of aerated liquid and push valves to ensure uniform liquid distribution across the entire tray surface.
- **Eliminating Stagnation:** Our engineering eliminates liquid bypass and dead zones, ensuring every square inch of the tray actively participates in mass transfer.

05 SPECIALIZED SOLUTIONS: CARTRIDGE AND BUBBLE CAP TRAYS

We excel in solving complex engineering challenges, transforming geometric constraints and low-load requirements into opportunities for operational efficiency and safety.

CARTRIDGE TRAYS: "PLUG & PLAY" EFFICIENCY

- **Safety & Speed (HSE):** Forcolumns < 750mm, our cartridge technology reduces on-site man-hours by up to 70%, significantly minimizing risks associated with working in confined spaces.
- **Off-Site Precision:** Full assembly in our workshops ensures perfect mechanical alignment and superior sealing-results nearly impossible to achieve within a small column.
- **Rapid Maintenance:** The entire tray bundle is easily removable for external inspection, ensuring the plant can be restarted in record time.

BUBBLE CAP TRAYS: TOTAL HYDRAULIC SEALING

- **Zero Weeping Design:** The riser and cap design guarantees an absolute hydraulic seal, preventing any leakage even at extremely low liquid loads compared to the vapor phase.
- **Precision Control:** Ideal for absorption and stripping applications where residence time must be rigorously monitored and controlled.
- **Full Customization:** Caps are available in Slotted or Unslotted versions, manufactured in specialty alloys to withstand the most corrosive process fluids.

06

SIEVE TRAYS, BAFFLE TRAYS, AND LIQUID/LIQUID SOLUTIONS

We design optimized internals to manage severe operating conditions where standard systems would fail due to mechanical instability or chronic fouling.

BALANCED EFFICIENCY & SELF-CLEANING ACTION

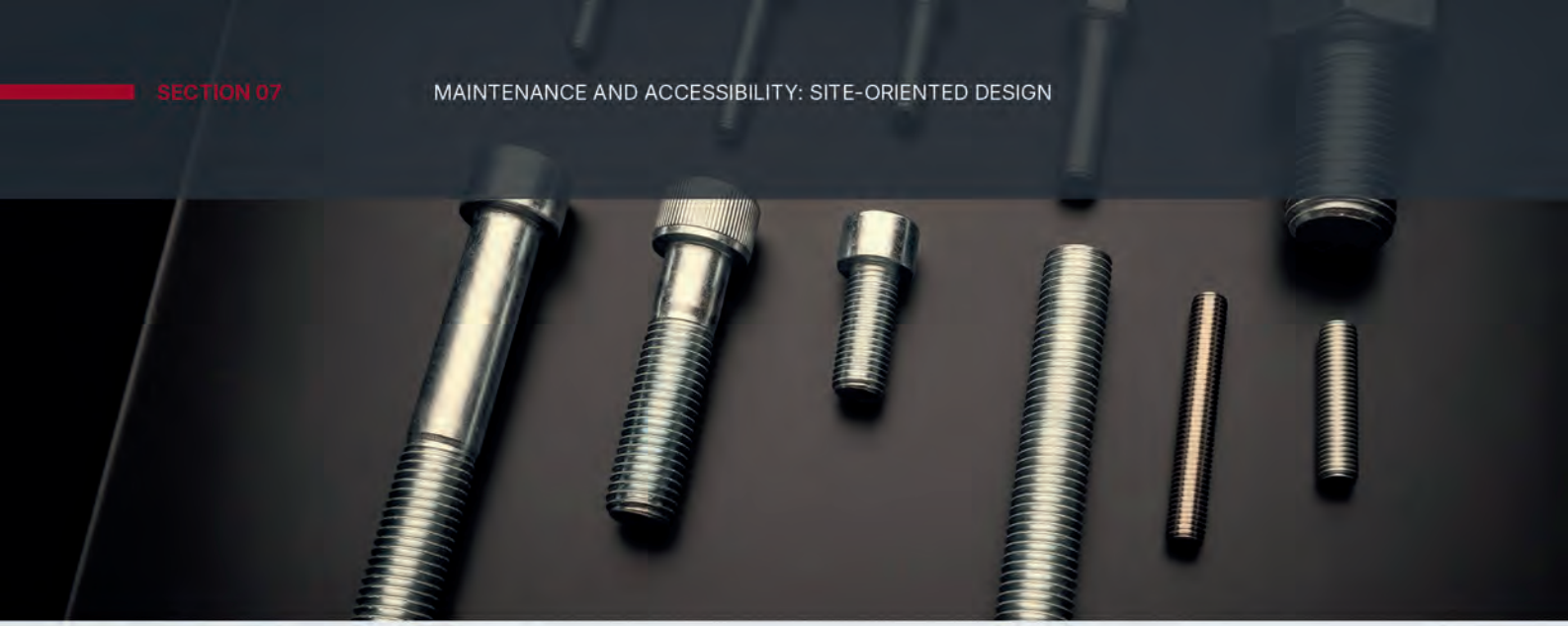
- **Sieve Trays:** Precision-calculated perforation to minimize entrainment and optimize pressure drop under stable process conditions.
- **Dual-Flow Self-Cleaning Action:** The ideal choice for chronic fouling. High-intensity turbulence generated by the simultaneous passage of phases constantly cleans the tray, maximizing open area and run-time.

BAFFLE TRAYS: RUGGEDNESS FOR EXTREME ENVIRONMENTS

- **Anti-Fouling Design:** Engineered for Wash Zones and Quench Towers, wide unobstructed surfaces prevent the accumulation of solids, slurries, or coking deposits.
- **Extreme Mechanical Integrity:** Reinforced structures built to withstand heavy pressure surges and vibrations resulting from high temperatures and turbulent flows.

LIQUID/LIQUID EXTRACTION SYSTEMS

- **Proprietary Dispersers (B-834 and B-835):** Geometries designed for capillary distribution of light or heavy phases, creating a coalescing pad and maximizing the contact interface without creating emulsions.
- **Optimized Integration:** Systems engineered to combine packing support with redistribution, exploiting every inch of column height for maximum efficiency.



07 MAINTENANCE AND ACCESSIBILITY: SITE-ORIENTED DESIGN

We design our internals with an obsessive focus on construction details that minimize intervention time and maximize operator safety during critical turnarounds.

QUICK OPENING MANWAYS: FAST AND SECURE ACCESS

- **Rapid Entry Mechanisms:** Designed to eliminate the complexity of traditional bolting, drastically reducing the man-hours required for tray access and inspection.
- **Ergonomic Safety:** Our "site-first" approach facilitates the seamless passage of technicians and equipment, improving overall safety in confined spaces.

LIP JOINT TECHNOLOGY: EXCELLENCE IN REPLACEMENT

- **Millimeter Level Precision:** We manufacture components with exact tolerances to ensure 100% compatibility with original OEM designs.
- **Streamlined Installation:** The Lip Joint system allows for a perfect mechanical fit without the need for structural modifications on-site, making it ideal for rapid-response projects.

WORKSPACE OPTIMIZATION: STRATEGIC INTERNAL ENGINEERING

- **Enhanced Inspection & Assembly:** Internal support arrangements are designed to provide technicians with an unobstructed view for high-quality visual inspections.
- **Error-Proof Hardware:** Fastening systems are ergonomically located to reduce technician fatigue and prevent torque errors, ensuring a secure and lasting installation.

08

PACKINGS AND GRIDS: MAXIMIZING CONTACT, MINIMIZING PRESSURE DROP

Engineering the perfect equilibrium between maximum hydraulic capacity and ultra-low pressure drop to optimize column volume and process yield.

VACUUM PERFORMANCE MASTERY

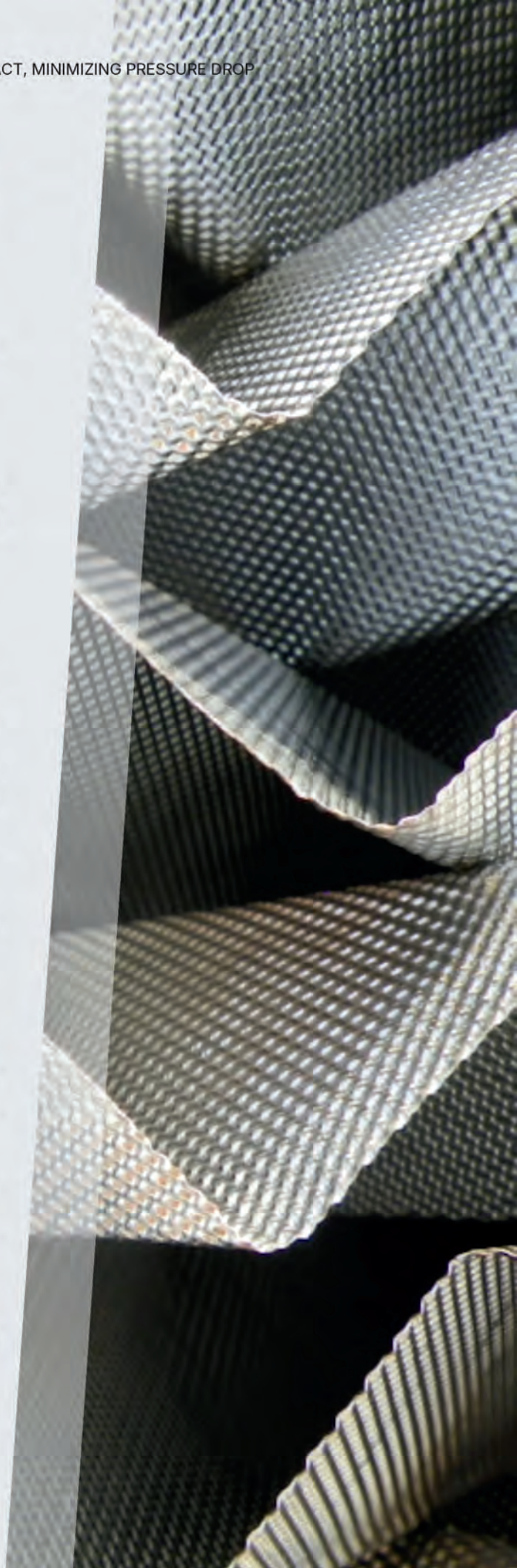
Engineered for high-vacuum environments where pressure drop (Delta P) is the critical barrier to product purity.

- **Thermal Protection:** Drastically reduced Delta P prevents thermal degradation of sensitive products.
- **Selectivity & Purity:** Optimized HETP values ensure superior separation stages in compact footprints.
- **Enhanced Throughput:** High-efficiency designs delay flooding points to maximize total output.

SURFACE INNOVATION & WETTABILITY

Proprietary engineering treatments that transform metal surfaces into high- performance mass transfer interfaces.

- **Zero-Channeling:** Advanced surface treatments ensure a continuous, uniform liquid film.
- **Maximized Contact:** Eliminates dry zones to exploit the full theoretical surface area of the packing.
- **Process Stability:** Uniform wettability ensures consistent performance even during load fluctuations.



09 STRUCTURED PACKING AND B-37 GRIDS: PROCESS-DRIVEN TECHNOLOGY

Maximizing theoretical stages with minimum pressure drop for high-performance separation.

THE B-SERIES RANGE: VERSATILITY BY DESIGN

A tailored solution for every hydraulic requirement, from refining to specialty chemicals.

- **High-Capacity (B-64, B-125):** Low-density for maximum throughput.
- **Industry Standard (B-200 to B-350):** The global benchmark for petrochemical applications.
- **Ultra-Pure (B-500, B-750):** High-density efficiency for space-constrained columns.

HC VERSION: STRATEGIC DEBOTTLENECKING

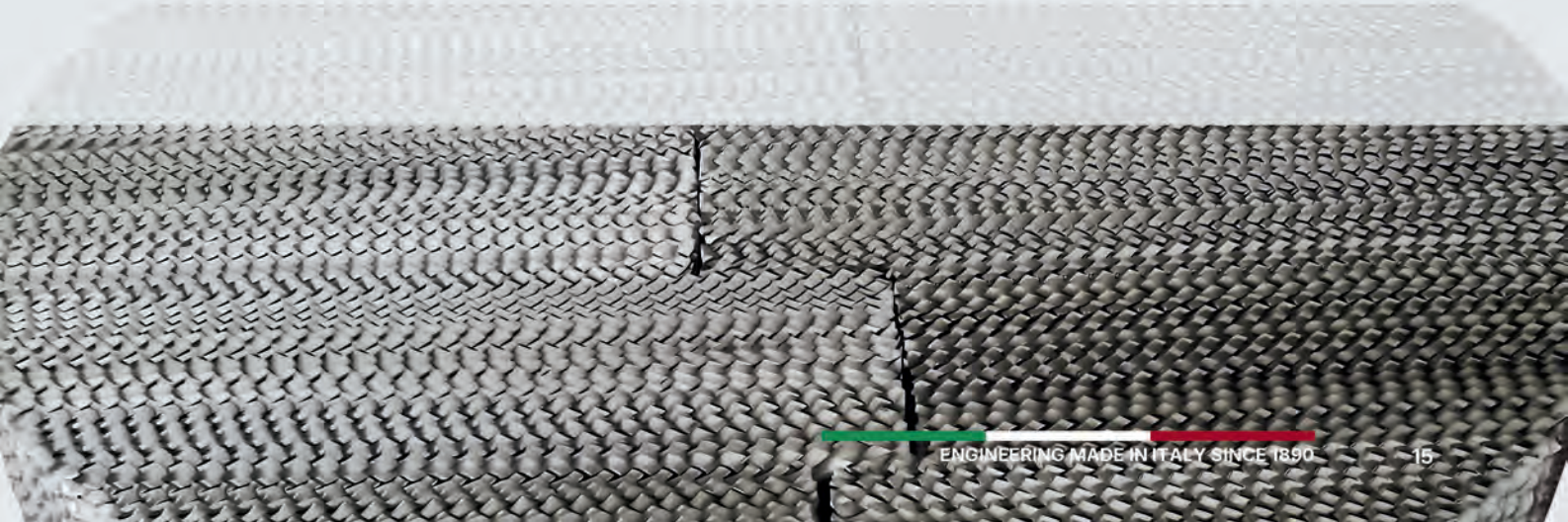
Next-generation high-performance geometry designed to push legacy assets beyond original limits.

- **+30% Capacity:** Optimized geometry reduces turbulence to boost production.
- **Enhanced ROI:** Rapid upgrades of existing units without vessel modifications.
- **Energy Efficiency:** Lower pressure drop compared to conventional designs.

B-37 GRIDS: ENGINEERED FOR EXTREMES

The ultimate solution for high-fouling environments and punishing wash zones.

- **Anti-Coking Barrier:** Vertical surfaces prevent solid residue accumulation.
- **Mechanical Resilience:** Fully welded panels withstand extreme pressure surges and vibrations.
- **Total Durability:** Specialty alloys (Monel, Hastelloy, Titanium) for corrosive service.



10

RANDOM PACKING: VERSATILITY AND PERFORMANCE

The optimal balance between cost-efficiency (CAPEX) and high mass-transfer stability.

BMRP: THE EVOLUTION OF RANDOM PACKING

Advanced metal geometry designed to minimize resistance and maximize efficiency.

- **Strategic Revamping:** Boost throughput of existing columns without structural changes.
- **Optimal Mixing:** Open geometry eliminates channeling and dry zones.
- **OPEX Reduction:** Drastically lower pressure drops for enhanced profitability.

PALL RINGS: THE INDUSTRY STANDARD

The global benchmark for mechanical robustness and predictable hydraulic behavior.

- **Structural Stability:** Optimized thickness for high crush resistance in deep beds.
- **Proven Performance:** Consistent results across diverse separation and absorption processes.

METALLURGICAL & MATERIAL EXCELLENCE

Total compatibility through an extensive selection of high-performance materials.

- **Metals:** Stainless Steels, Monel, Hastelloy, Nickel alloys, and Titanium.
- **Polymers & Specialty:** PP, PVDF, PFA, Ceramic, and Carbon solutions for extreme environments.

11 FLUID OPTIMIZATION: FLUID DYNAMICS AND THE ARCHITECTURE OF FLOW

Mass transfer efficiency is a function of hydraulic precision.
Baretti integrates structural strength with optimized fluid dynamics to ensure perfect phase interaction.

STRUCTURAL INTEGRITY & VAPOR INJECTION

Advanced internal components engineered to excel under mechanical stress while optimizing flow patterns.

- **High-load Support Grids (B-804, B-818):** Engineered for maximum mechanical stability with an open area exceeding 96%.
- **Gas Injection Design:** Prevents localized pressure drops and flooding risks by ensuring uniform vapor rising.
- **Containment Systems (B-133, B-823):** Robust bed limiters designed to protect assets from pressure surges and startup turbulence.

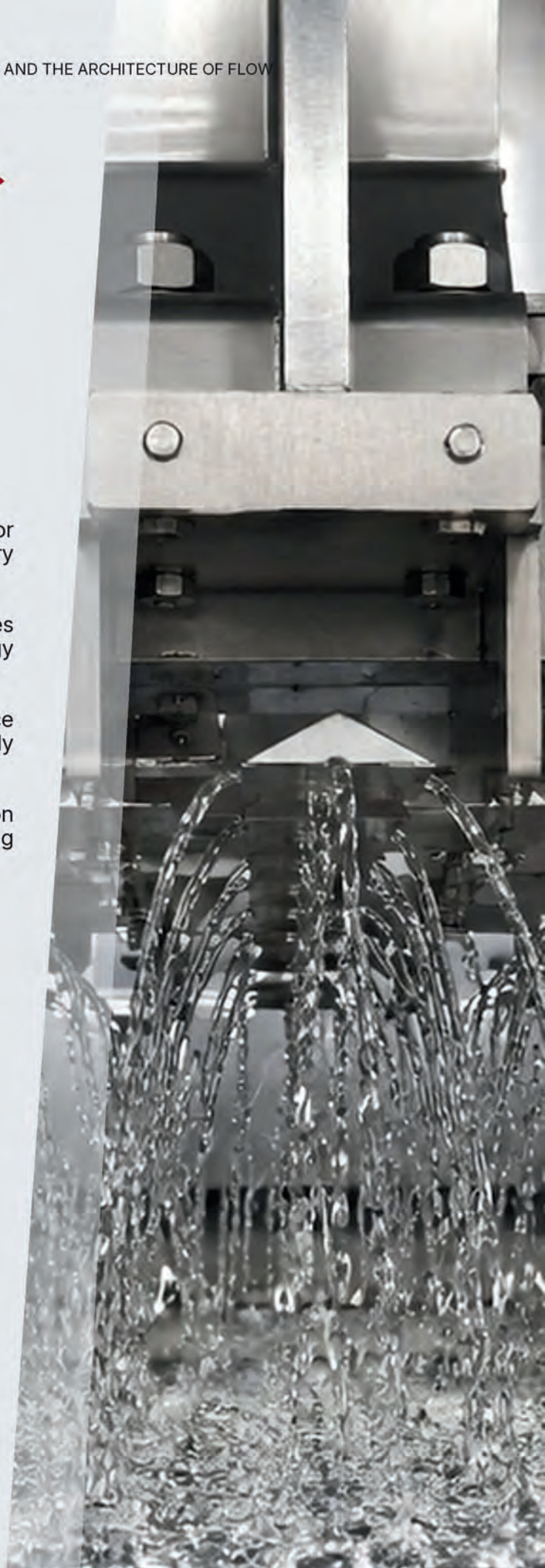
11

FLUID OPTIMIZATION: FLUID DYNAMICS AND THE ARCHITECTURE OF FLOW

GRAVITY DISTRIBUTION SYSTEMS

World-class distribution systems engineered for capillary coverage, eliminating performance-killing dry patches.

- **Trough-Type Precision (B-186):** Features integrated Parting Boxes to dissipate kinetic energy for balanced feeding across all channels.
- **Anti-Fouling Reliability (B-136):** Elevated orifice positioning prevents sediment clogging, drastically extending operational run-times.
- **Total Bed Wetting:** Precise liquid distribution ensures every square millimeter of the packing operates at peak potential.



12 GRAVITY LIQUID DISTRIBUTORS: DECK TYPES AND FOULING SOLUTIONS

Advanced distribution systems designed for total phase control and continuous performance in extreme environments.

PAN & DECK DISTRIBUTORS: COMPACT EFFICIENCY

Optimized for small-diameter columns where high-precision distribution is mission-critical.

- **Total Phase Isolation:** Physical barrier design for strictly controlled separation.
- **Sealing Integrity:** Engineered for zero-leakage in high-selectivity applications.
- **Space Mastery:** Peak hydraulic performance within restricted radial dimensions.

V-NOTCH TECHNOLOGY: THE FOULING REVOLUTION

Proprietary weir-flow technology engineered for maximum run cycles in dirty services.

- **Clog-Immune Geometry:** Precision "V" notches allow solids to pass freely without obstruction.
- **Extended Run Cycles:** 4-5 years of uninterrupted operation, drastically lowering OPEX.
- **Anti-Fouling Focus:** The definitive solution for coking, polymerization, or solid build-up.

PERFORMANCE ASSURANCE: HYDRAULIC VALIDATION

Empirical proof to eliminate start-up risks and guarantee field performance.

- **In-House Validation:** Optional full hydraulic testing to certify flow patterns before shipment.
- **Certified Compliance:** Comprehensive documentation verifying exact design specifications.
- **Process Certainty:** Empirical evidence ensures a risk-free and efficient start-up.

13 GRAVITY DISTRIBUTION SYSTEMS: VAPOR MANAGEMENT & PERFORMANCE

Transforming high-velocity inlet turbulence into a stable, homogeneous process flow to maximize efficiency and ROI.

VAPOR DYNAMICS & INLET MANAGEMENT

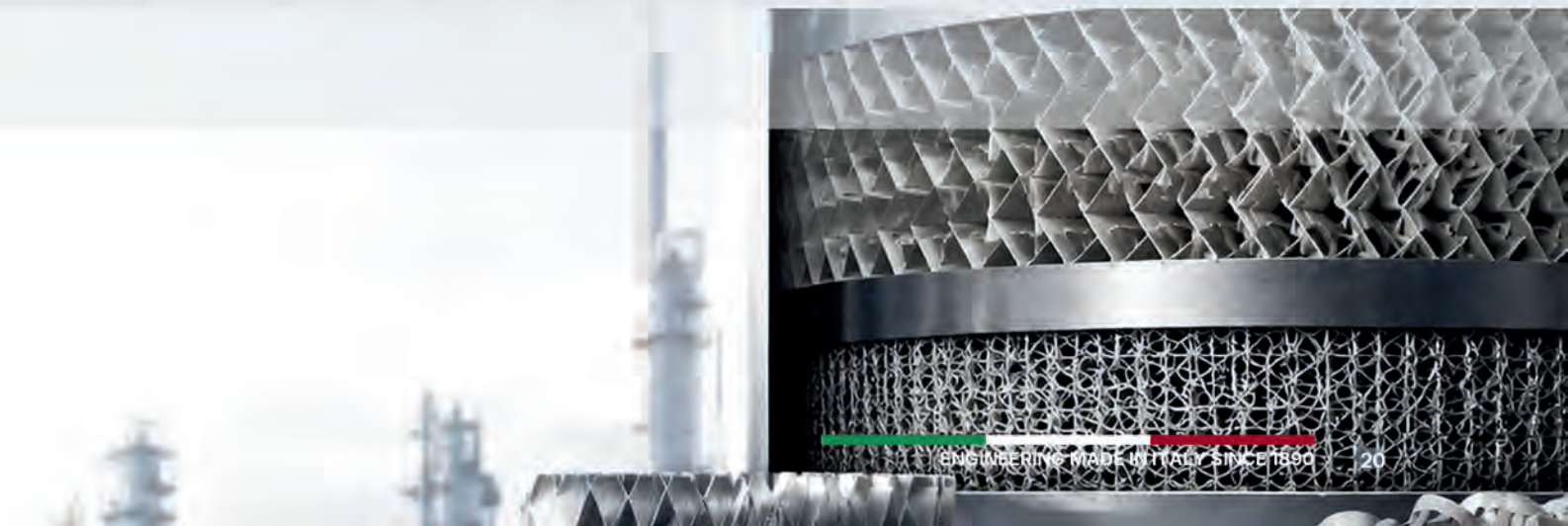
Strategic management of inlet kinetic energy to protect internal geometry and stabilize column hydraulics.

- **Vapor Feed Diffusers (B-196):** Symmetrical entry design that transforms high-velocity jets into calm, rising flows.
- **Channeling Prevention:** Eliminates preferential paths and bypass effects, ensuring uniform loading of the bottom beds.
- **Mechanical Protection:** Dissipating energy at the source prevents erosion and vibration damage to downstream trays or packing.

THE "ZERO-MALDISTRIBUTION" APPROACH

Baretti approaches the column as a complex hydraulic ecosystem, where every component is synchronized for performance.

- **Systemic Engineering:** Coordinated design between supports, limiters, and distributors for total flow control.
- **OPEX Optimization:** Reducing maldistribution slashes energy consumption and minimizes off-spec production.
- **Hydraulic Performance Guarantee:** We offer process engineers the certainty of proven data, backed by our half-century of FRI membership.



13 PIPE DISTRIBUTORS AND INLET DEVICES: DYNAMIC INLET MANAGEMENT

Stabilizing high-velocity turbulence for uniform distribution and internal protection.

PIPE DISTRIBUTORS: PRECISION COVERAGE (B-119, B-1044)

Versatile designs for small-to-medium columns or restricted radial spaces.

- **B-1044 Nipple-Type:** Precision liquid distribution for complex internal geometries.
- **Targeted Coverage:** Uniform bed wetting even in restricted access zones.
- **Space Mastery:** High-precision distribution for compact vessels.

BI-PHASE INLET DEVICES & VANE DISTRIBUTORS (B-960)

Dissipating kinetic energy to stabilize flows before the mass transfer zones.

- **Phase Separation:** Centrifugal logic to eliminate turbulence and separate phases.
- **Tapered Design:** Uniform velocities while eliminating dead zones.
- **Internal Protection:** Minimizes erosion and vibrations in downstream assets.

VAPOR FEED DIFFUSERS (B-196, B-198)

Essential for balanced vapor rising from bottom inlets or side-returns.

- **Symmetrical Entry:** Balanced flow that eliminates bypass.
- **Anti-Channeling:** Vapor smoothing at the source to prevent preferential paths.
- **Maximum Yield:** Ensures bottom internals operate at 100% design capacity.

14 LIQUID COLLECTORS: PRECISION IN RECOVERY AND REDISTRIBUTION

Optimizing thermal and mass balance through high-efficiency intercepting and redistribution of internal flows.

CHIMNEY TRAYS: HIGH HOLD-UP MANAGEMENT (B-833)

The industry standard for Total Draw-off and Pump-around circuits.

- **Certified Leak-Proof:** Total sealing to protect product specs and prevent liquid bypass.
- **Process Stability:** Custom-sized for precise residence time and surge control.
- **Dual-Functionality:** Chimneys act as primary vapor distributors for uniform upward flow.

CHANNEL & CHEVRON COLLECTORS (B-633, B-733)

Low Delta-P solutions for vacuum applications and heat-sensitive fluids.

- **Energy Efficiency:** High open area design minimizes resistance to vapor flow.
- **Thermal Protection:** Minimal liquid residence time prevents product degradation.
- **Structural Integration:** Compact design can serve as mechanical support for packing beds.

WALL WIPERS: MAXIMUM CAPTURE EFFICIENCY

Ensuring every drop participates in the mass transfer process by eliminating bypass.

- **Total Recovery:** Redirects liquid film from vessel walls back into the active area.
- **Efficiency Boost:** Improves global capture and ensures consistent output quality.

15 MIST ELIMINATORS: EXCELLENCE IN PHASE SEPARATION

Protecting critical downstream assets and ensuring ultra-pure vapor through high-performance entrainment removal.

WIRE MESH MIST ELIMINATORS: HIGH-EFFICIENCY CAPTURE

Engineered for the superior removal of fine droplets and mists from gas streams.

- **Advanced Coalescence:** Promotes rapid aggregation of fine particles for maximum separation.
- **Metallurgical Versatility:** Available in Stainless Steels, Titanium, and specialty polymers.
- **Pure Vapor Delivery:** Safeguards compressors and turbines from liquid-induced damage.

VANE TYPE ELIMINATORS: CAPACITY & FOULING IMMUNITY

The definitive choice for high-velocity flows or fouling process conditions.

- **Clog-Immune Geometry:** Streamlined vanes facilitate self-cleaning, ideal for solids and residues.
- **High-Throughput Performance:** Engineered to handle high gas loads with minimal Delta P.
- **Rugged Resilience:** Rigid structures built to withstand pressure surges and harsh conditions.

INTEGRATED & CUSTOM SOLUTIONS

Tailored systems designed to optimize separation within any vessel configuration.

- **Wash Spray Systems:** Integrated headers to maintain surface cleanliness in heavy fluid services.
- **Custom Housing:** Engineered for seamless integration into new or existing column sections.

16

HARDWARE AND ACCESSORIES: PRECISION IN EVERY DETAIL

High-performance fastening systems engineered for extreme mechanical stress and corrosive environments.

MOUNTING & RESTORATION

- **High-Grip Hardware:** Clips and anti-loosening bolts calculated for maximum vapor thrust and thermal cycles.
- **Ready-to-Install Kits:** 100% hydraulic compatibility for immediate restoration of internal efficiency.
- **Precision Alignment:** Support brackets and gaskets ensuring leak-proof performance.

METALLURGICAL EXCELLENCE

- **High-End Alloys:** Monel, Hastelloy, Titanium, and specialty polymers for aggressive process fluids.
- **Certified Traceability:** Full range of Stainless and Carbon steels compliant with international safety standards.

TURNAROUND READINESS

- **All-in-One Kits:** Pre-organized packages (nuts, bolts, gaskets) for rapid site execution and reduced labor.
- **Emergency Stock:** Strategic inventory and synchronized production to eliminate project delays.

17 BEYOND MASS TRANSFER: INTEGRATED SOLUTIONS FOR THE OIL & GAS INDUSTRY

Comprehensive support from fluid transfer technology to on-site engineering expertise, ensuring seamless operational continuity.

FLUID TRANSFER: LOADING ARMS

Cutting-edge land and marine systems for safe and efficient fluid management.

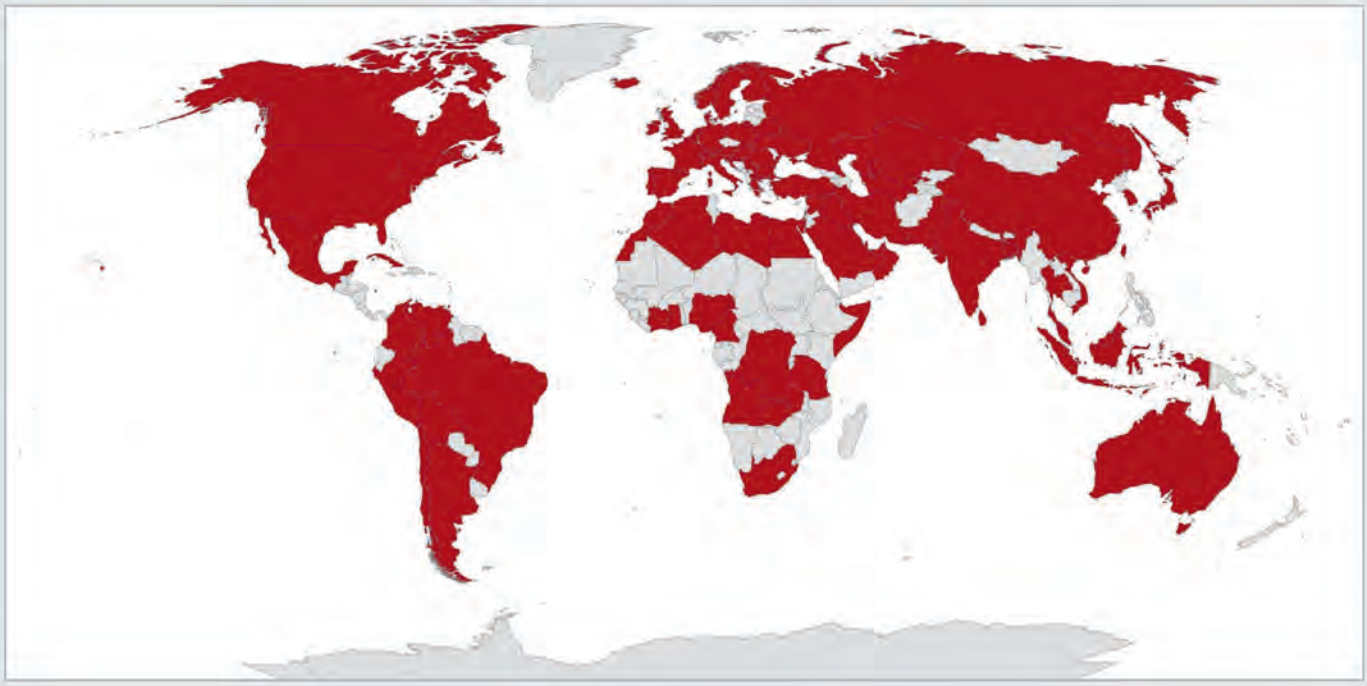
- **Proprietary Technology:** Advanced swivel joints and balancing systems for maximum maneuverability.
- **Operational Safety:** Engineered for reliability in the most demanding environmental conditions.
- **Tailored Expertise:** Systems built for long-term durability in high-frequency transfer operations.

EXPERT FIELD SUPPORT & SITE SERVICES

Professional on-site teams dedicated to maximizing the performance of your industrial assets.

- **Supervision & Installation:** Ensuring strict adherence to design tolerances and Hydraulic Performance Guarantees.
- **Inspection & Diagnostics:** Identifying bottlenecks and maldistribution issues to implement high-ROI debottlenecking.
- **Turnaround Excellence:** Proactive support during plant shutdowns to minimize downtime and ensure on-schedule restarts.

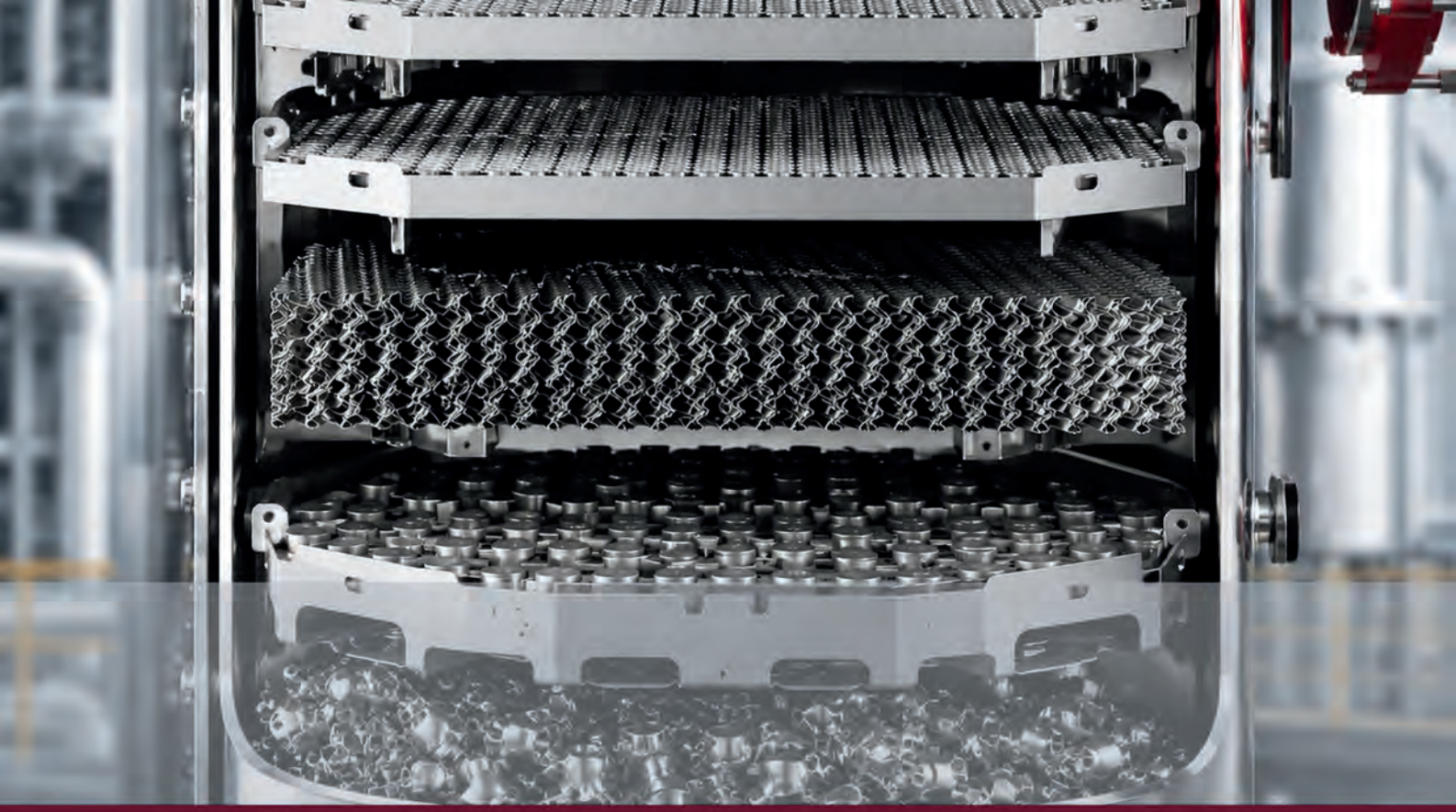
SELECTED SUPPLY EXPERIENCE BY REGION



GLOBAL PRESENCE

The map shows the global influence of Baretti throughout its history.

Baretti has sold its products on every continent, building a portfolio of references that is hard to equal.



ENGINEERING MADE IN ITALY. GLOBAL VISION.

Baretti®
EQUIPMENT FOR OIL AND CHEMICAL INDUSTRIES

BARETTI supports its clients worldwide with engineering solutions of excellence.

BARETTI MEFE S.R.L.
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CERTIFICATIONS & AFFILIATIONS

Member of FRI (Fractionation Research, Inc.) since 1972.

ISO 9001 | ISO 14001

ENGINEERING MADE IN ITALY SINCE 1890