Baretti®
EQUIPMENT FOR OIL AND CHEMICAL INDUSTRIES

SITE SERVICES

TECHNICAL EXCELLENCE FOR OPERATIONAL CONTINUITY

Baretti®
EQUIPMENT FOR OIL AND CHEMICAL INDUSTRIES

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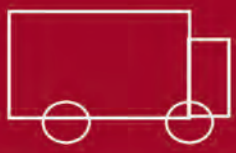
ENGINEERED PROCESS PERFORMANCE

FIELD ENGINEERING, DIAGNOSTICS AND LIFECYCLE SUPPORT FOR CRITICAL ASSETS.



01 BARETTI SITE SERVICES: STRATEGIC PARTNER FOR CRITICAL ASSETS

Since 1890, we bridge the gap between OEM engineering and field performance, optimizing the "Fluid Lifecycle" for global energy leaders.

TECHNICAL AUTHORITY & RESEARCH

Eliminate operational uncertainty with a century of leadership and proprietary data.

- **Advanced Modeling**: FRI membership since 1972 ensures optimization through world-class hydraulic data.
- **OEM Expertise**: We master the physics of separation and transfer, delivering results beyond standard maintenance.

MASS TRANSFER & LOADING ARMS SYNERGY

The only partner managing the entire process chain, from the tower core to the loading point.

- **Operational Efficiency:** Restoring original tray performance with design-level insight into fouling and coking.
- **Total Safety:** Specialized service for Loading Arms and ERC systems ensuring secure, zero-leakage operations.

ASSET PROTECTION & GLOBAL RELIABILITY

Safeguard your CAPEX and optimize through a global rapid-response network.

- **Global Footprint**: Proactive support across major industrial hubs in Europe, Middle East, Asia, and the Americas.
- **ESG Excellence**: ISO-certified protocols (9001, 14001, 45001) dedicated to "Zero Emissions" and safety.
- **Industry Leaders**: Trusted by ExxonMobil, Shell, ENI, and Dow for critical LNG and cryogenic applications.

PERSONNEL SKILLS

Specialized technicians with decades of experience in the sector; highly qualified personnel with multidisciplinary skills and continuous professional development.

Technical and HSE Training: Continuous training and updating on new sector technologies; training provided in accordance with the main safety standards.

02

TOWER INSPECTION: ADVANCED DIAGNOSTICS & OPTIMIZATION

We turn routine checks into performance guarantees via rapid mobilization and deep process analysis.

MECHANICAL INTEGRITY

Prevent failures and extend asset life with meticulous structural and hardware checks.

- **Structural Health:** Advanced corrosion and metallurgical degradation monitoring.
- **Precision Fastening:** OEM-standard torque control for maximum surge resistance.
- **Hydraulic Leveling:** Precise internal leveling to ensure product purity and eliminate weeping.

PROCESS DIAGNOSTICS

Identify inefficiencies by comparing field data with advanced theoretical models.

- **Fouling & Coking**: Expert analysis of deposits to restore active area and reduce pressure drop.
- **Dynamic Profiling**: Pinpointing flooding or entrainment zones for rapid resolution.

REPORTING & REVAMPING

Data-driven insights providing a strategic roadmap for plant evolution.

- **Immediate Fixes**: Quick-win recommendations for the current shutdown window.
- **Future-Proofing**: Strategic revamping to maximize capacity in future cycles.

03

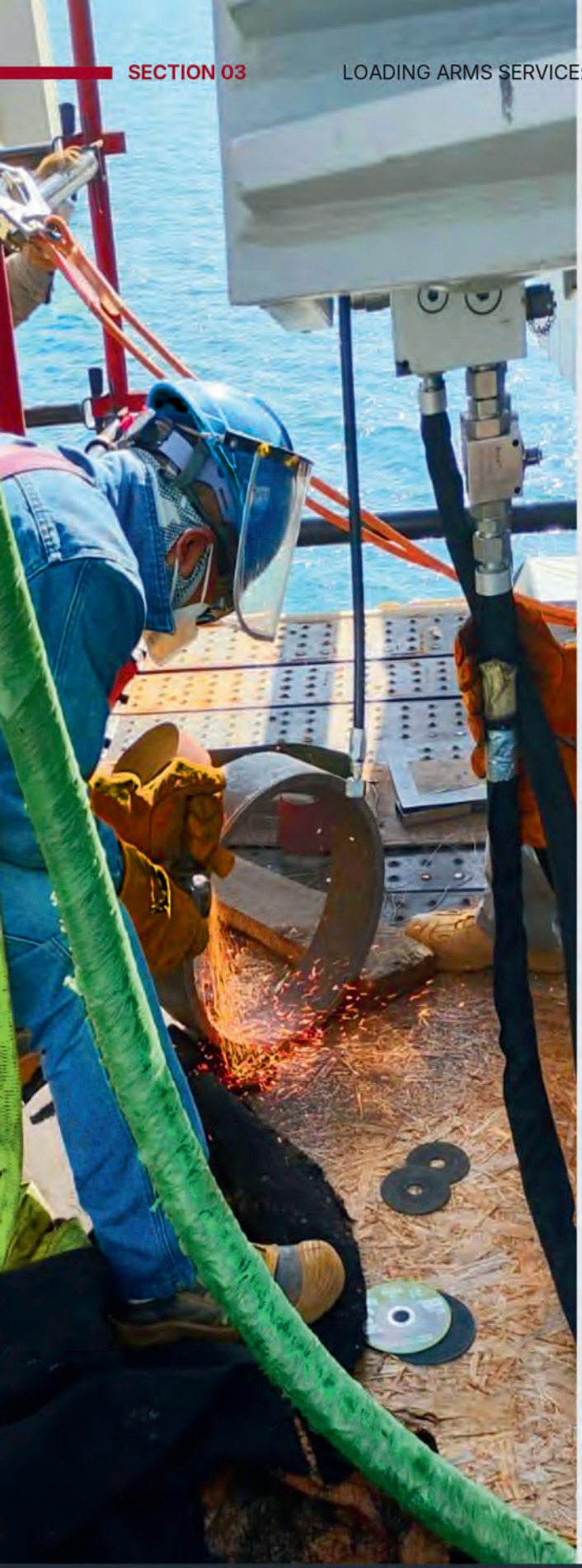
LOADING ARMS SERVICE: MULTI-BRAND OVERHAULING

Global specialized support to maximize reliability and regenerate legacy assets while drastically reducing CAPEX.

CRITICAL COMPONENT MAINTENANCE

Ensuring terminal safety and zero downtime at the heart of fluid movement.

- **Smart Swivel Service:** Exclusive seal replacement without structure dismantling, minimizing operational risks and downtime.
- **Safety Systems (ERC/QCDC):** Rigorous testing of quick-release systems to safeguard personnel and the environment.
- **Envelope Analysis:** Precision monitoring of control systems to ensure operations remain within safe mechanical limits.



03

LOADING ARMS SERVICE: REVAMPING

Global specialized support to maximize reliability and regenerate legacy assets while drastically reducing CAPEX.

REVAMPING & LIFE EXTENSION

Modernizing heterogeneous fleets for the digital age, regardless of the original OEM.

- **Hydraulic-to-Electric**: Upgrading legacy systems to eliminate spill risks and significantly enhance movement precision.
- **Smart Control Upgrades**: Advanced HMI and remote monitoring for data-driven predictive maintenance.
- **Second-Life Compliance:** Expert structural analysis to align aging assets with OCIMF/ATEX standards at a fraction of the cost of new replacements.

04 SHUTDOWN SERVICE: THE "BARETTI SERVICE EXPRESS"

Transforming critical turnarounds into competitive advantages with zero-time site management and operational excellence.

MOBILE SUPPORT UNIT (MSU)

An on-site command center bringing Baretti's full operational capacity directly to your facility.

- **Expert Support:** Constant technical resolutions by qualified staff to eliminate schedule bottlenecks.
- **Pay-per-Use Model**: Eliminate warehousing and obsolescence risks; pay only for the materials actually installed.
- **Fast-Track Production**: A direct bridge to our central workshops for priority delivery of custom components.

OEM QUALITY & RESTART SAFETY

High-performance plant restarts backed by uncompromising engineering standards.

- **Streamlined Coordination**: A single point of contact to optimize assembly teams and minimize management complexity.
- **Certified Integrity**: Components engineered to Baretti's rigorous metallurgical specifications for the entire upcoming operating cycle.

05 PRECISION COMPONENTS: HIGH-PERFORMANCE HARDWARE

Engineered to exceed standard limitations in extreme thermal cycles and corrosive atmospheres.

FASTENING & STRUCTURAL HARDWARE

High-standard metallurgical solutions for maximum structural integrity.

- **Heavy-Duty Anchoring**: Custom J-bolts and universal clamps for high-turbulence zones.
- **Geometric Accuracy**: Supports designed to maintain constant tension under dynamic loads.

HIGH-EFFICIENCY VALVES

Proprietary designs optimized for maximum contact and operating flexibility.

- **Anti-Fouling:** BA-2 Caged Valves with "travel stop" to eliminate mechanical sticking.
- **OEM Compatibility:** Interchangeable with global designs to restore hydraulic balance.

SEALING & PHASE SEPARATION

Advanced solutions for absorption, stripping, and ultra-pure separation.

- **Asset Regeneration**: Specialized alloy kits for bubble caps and sieve plates.
- **Critical Sealing**: Gaskets engineered for chemical resistance and cryogenic LNG.
- **Mist Elimination**: Modular separators for debottlenecking and equipment protection.

06

BEYOND SERVICE: INTEGRATED SOLUTIONS FOR THE ENERGY SECTOR

In an increasingly complex market, plant efficiency cannot be viewed as a collection of isolated parts.

We offer a holistic vision of the process: from the column internals to the logistic transfer point, we are the only partner capable of ensuring absolute technical coherence throughout the entire "Fluid Lifecycle."

ENGINEERING SYNERGY: MASS TRANSFER & LOADING ARMS

Our dual specialized nature allows us to transform every maintenance intervention into an opportunity for strategic optimization:

- **Excellence in Mass Transfer**: We design internals based on FRI (Fractionation Research, Inc.) experimental data to maximize throughput and product purity.
- **Safety in Transfer**: We engineer loading systems capable of handling critical fluids (LNG, cryogenics, toxic media) with maximum mechanical reliability and environmental safety.

GLOBAL PARTNERSHIP & ASSET REGENERATION

We are present wherever our customers need us most, offering more than just components — we provide a lasting partnership aimed at the regeneration and modernization of existing assets.

- **Supervision & Training**: Professional on-site support to ensure every assembly meets project tolerances and performance benchmarks.
- **Debottlenecking & Revamping**: Targeted analysis to eliminate bottlenecks and increase plant production capacity with optimized investment.

07 GLOBAL ENERGY PARTNER: CONTACT US

Baretti Mefe S.r.l. supports its clients worldwide with engineering solutions of excellence.

GLOBAL PRESENCE

Baretti Sarl (France): Dedicated technical and commercial support for European and Francophone markets.

Global Network: A consolidated network of local agents and strategic partners present in all major Oil & Gas industrial hubs.

CERTIFICATIONS & AFFILIATIONS

Member of FRI (FractionationResearch, Inc.) since 1972.

ISO 9001 | ISO 14001

Engineering Made in Italy, Global Vision. Since 1890, your trusted partner.

08

NEXT-GENERATION REMOTE ASSISTANCE

We leverage advanced wearable technology to bring our engineering expertise directly to your site-remotely, securely, and in real time.

REAL-TIME EXPERT SUPPORT

Industrial, hands-free smart glasses establish an immediate audio and video connection between field operators and our technical specialists.

CONNECTED FIELD OPERATIONS

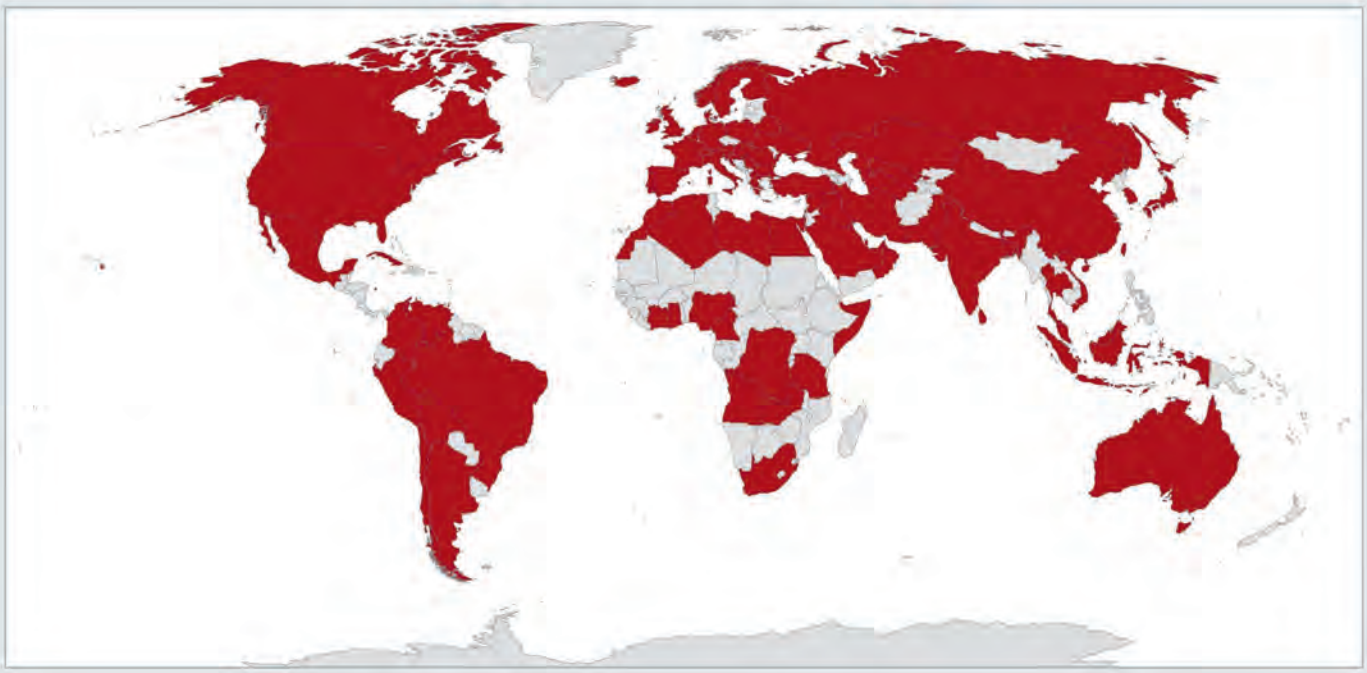
The remote engineer sees exactly what the operator sees and can provide step-by-step instructions, review equipment conditions, identify potential faults, and support troubleshooting without interrupting on-site activities.

GUIDED PROCEDURES & DOCUMENTATION

Technical drawings, manuals, checklists, photographs, and operating procedures can be accessed and shared during the intervention.

Remote experts can highlight components, capture images, add visual annotations, and guide complex inspection, maintenance, and commissioning procedures, even in noisy, demanding, or hard-to-reach industrial environments.

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.

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CERTIFICATIONS & AFFILIATIONS

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

ISO 9001 | ISO 14001

ENGINEERING MADE IN ITALY SINCE 1890