

## SITE SERVICES

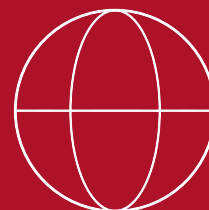
TECHNICAL EXCELLENCE FOR OPERATIONAL CONTINUITY



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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 ROI 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.

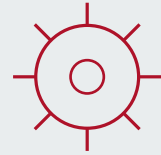
### PERSONNEL SKILLS

Experience, Competence, and Continuous Development:

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.

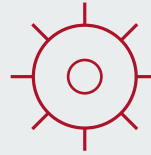
### REPORTING & REVAMPING

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 & REVAMPING

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.

### REVAMPING & LIFE EXTENSION

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

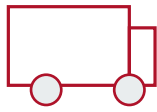
**Hydraulic-to-Electric:** Upgrading legacy systems to eliminate spill risks and significantly enhance movement precision.

**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.

**24/7 Expert Support:** Instant 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:** 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 specs 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.

**Advanced Bolting:** Anti-galling stainless and carbon  
steel for streamlined maintenance.

**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.

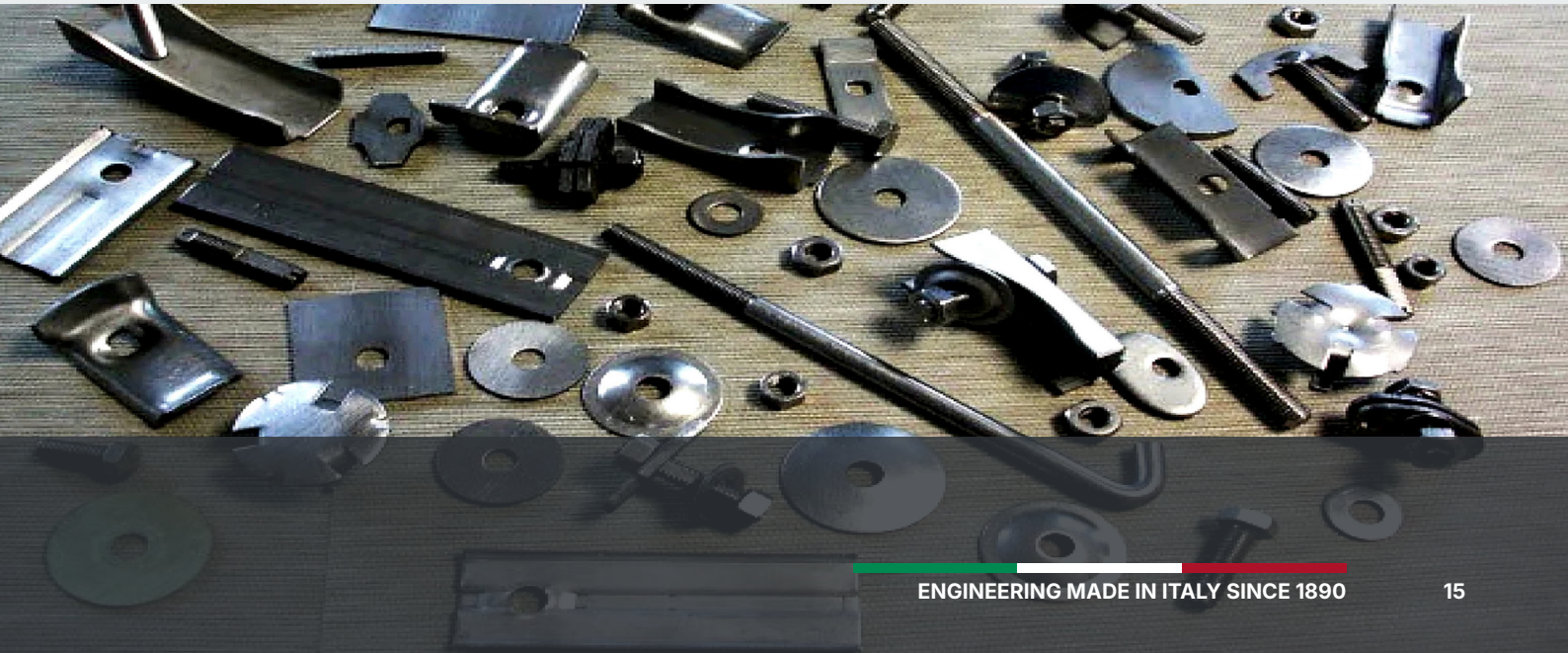
### SEALING & PHASE SEPARATION

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. Barette Mefe S.r.l. offers 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.

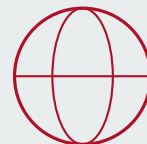
### GLOBAL PARTNERSHIP & ASSET REGENERATION

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 (Fractionation Research, Inc.) since 1972.

ISO 9001 | ISO 14001 | ISO 45001 (Under implementation).

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





**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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ISO 9001 | ISO 14001 | ISO 45001