

EVOLVING EXCAVATORS

Margherita Laurini, Chief Financial Officer, Laurini Officine Meccaniche, Italy, discusses a new excavator operating at the frontier of pipelaying.

In 2025, Laurini Officine Meccaniche reached a remarkable milestone: 70 years of history, innovation, and continuous growth.

Founded in 1955 in Busseto (Italy), the company has evolved from a small artisanal workshop into an international benchmark in heavy machinery for the pipeline, demolition, and tunnelling sectors.

To commemorate this important anniversary, Laurini unveiled its most ambitious product to date: 'Settanta' an excavator fully designed



and built in-house, not only for demolition but also for handling and laying pipes.

On 30 May 2025, Laurini opened the doors of its headquarters to share a memorable day with employees, partners, clients, and suppliers. The event featured the official presentation of the Settanta, followed by a celebratory dinner honouring 70 years of success and innovation – with music, entertainment, and the unmistakable family spirit that has distinguished Laurini for three generations.

A high-versatility multifunction excavator

Settanta is a multifunction excavator built for versatility, designed with a modular approach and tailored to meet the demands of various sectors: demolition, lifting, pipe handling, excavation, and sheet piling.

At the heart of the project is the Hydraulic Quick Coupling System (HQCS) – an automatic system that enables operators to switch arms and tools directly from the cab, with fully automated hydraulic and electrical connections.

For demolition purposes, the cabin can tilt up to 30°. The Settanta Pipeliner instead has a cabin that rises up to 5 ft.



Figure 1. The same lifting capacity over 360°.



Figure 2. Lifting capacity equal to a machine 25% heavier.

The machine can be configured with a variety of easily interchangeable arms, including:

- Pipeliner configuration with modular quick coupler for LaValley Industries' Deckhand® system.
- Excavation arm (monoboom or triple boom) with a reach of up to 14.5 m and a capacity of up to 5000 kg.
- Sheet piling arm.
- Crane arm with lattice and integrated winch for lifting and pipe laying.
- Demolition arm with an operating height of 24.5 m and tool capacity up to 3000 kg.
- Telescopic arm from 25 - 30 m for high-altitude operations, with a capacity of up to 2000 kg.

A new frontier in pipelaying

A revolutionary extension of the platform is the Settanta Pipeliner version, combining Laurini's tradition of innovation with a modular boom and stick design, offering superior performance in pipe handling operations. Key features include:

- Hydraulic variable-width undercarriage: allows for full 360° rotation, delivering exceptional maneuverability and stability.
- Hydraulically elevated cab: enhances visibility during pipe yard operations and loading/unloading of trucks and trains.
- Deckhand® system integration: ensures greater safety, control, and productivity under any working condition.
- Compact chassis, high power: offers up to 25% more lifting capacity compared to similarly sized excavators.
- Modular front system: boom and stick with fully automatic electronic and hydraulic quick coupler system.

With an operating weight of 33 t, Settanta delivers performance comparable to that of a 45 t excavator. It is powered by a 350 HP SCANIA DC09 engine, paired with a cutting-edge hydraulic system.

The frame has a transport width of just 2.5 m, which extends to 3.7 m during operation, making the machine easy to transport without the need for special permits.

The tiltable or elevating cab (up to 30°), is air-conditioned, FOPS certified, equipped with advanced displays and customisable operating modes, ensuring maximum operator comfort and safety under any condition.

With Settanta and its Pipeliner evolution, Laurini Officine Meccaniche not only celebrates its past but also powerfully projects its vision into the future of mechanisation on construction sites.

A machine that represents the perfect blend of tradition, innovation, and Italian passion.

"The SETTANTA was engineered from the ground up to lift with unmatched power and control. LaValley Industries collaborated with Laurini to develop the SETTANTA Pipeliner, fully integrating the DECKHAND pipe handling system. Together, we designed a purpose-built machine for pipeline construction," commented Jason LaValley, CEO/Founder of LaValley Industries. 