

IPLOCA 2017 - New Technologies Award

“Front winch excavator”



General information

HEAD OFFICE

Via ConsolatICO Superiore, 96/98
43011 BUSSETO (PARMA) - ITALY

DATE OF ESTABLISHMENT

22nd January 1962

SHARE CAPITAL

€ 25.000.000 (fully paid-up)

TAX REGISTRATION

00143470342



55 years of experience

SICIM is a Construction Company established in 1962 and offering all types of services related to the installation of pipelines and relevant ancillary facilities for the transmission and distribution of oil and gas on an international basis.

The experience gained as a result of operating for the most important international Oil & Gas Companies in all types of logistic, climatic and environmental conditions, has allowed SICIM to continuously modify and perfect all the relevant operating procedures and adapt them to the specific technical and contractual requirements.

On this basis, SICIM offers the best range of solutions and the right approach to all types of construction problems.

Our past, including the installation of over than 7'000 km of pipelines and 20'000 tons of steel in facilities world-wide, is a guarantee of success.

	2010	2011	2012	2013	2014	2015	2016
Manpower	1.887	2.722	5.168	4.929	5.531	5.077	7.022
Man-Hours	5.875.715	8.044.874	14.721.597	17.194.920	17.640.503	16.789.011	23.413.125

Range of services

The range of services that SICIM is capable to offer includes the following activities that are, at all times, executed in a professional, timely and competitive manner:

- Project Management;
- Engineering and Procurement for EPC works;
- Construction, Installation and Testing;
- Commissioning and Start-up;

for a worldwide delivery of:

- Pipelines for oil, gas, petroleum and other industry's products, water, etc., including rehabilitations of existing pipelines;
- Pumping and Compression stations;
- Storage, Products' treatment and Terminal facilities;
- Distribution networks including Telecommunication systems.



Front winch ex-cavator



Findings:

In pipeline construction to perform activities on steep slopes and unstable ground, equipment and heavy machinery must be secured to a winch. Traditional winching operations could have the following issues:

- Heavy equipment working on steep slopes require very large winches that can be stationary or rear-mounted on standard machinery like dozer or sideboom.
- Major impact on Health and Safety due to trailing machines on steep slopes and the coordination of various machines entailed.
- Major impact on Health and Safety for lifting operations and transport.
- Major impact on timing and costs for the installation, anchoring and for the additional machines involved.
- Rear mounted winches have limited rope capacity and pulling force, and the operator must progress reversing on slopes.



Solutions:

Front winch Ex-cavator:

- Machine with low weight, easy to move.
- Machine ready to work in 15 minutes; easy to fix and install.
- Able to pull itself on steep slopes.
- Completely independent; additional machines not necessary.
- High performance and double safety factors: 2 motor gear units = double pulling force and double brake.
- Working area always in front of operator's cab and under operator's control that can view winching activities continuously.
- Loading + Transport + offloading operations are simple and safe.
- Specific cabin protection.



Electrical device



Solutions:

- Specific operation manual drawn up for proper installation and use.



Achievements:

- 360° Working area
- High rope capacity:
490 m @ 7th layer of Ø 32 mm rope.
- High pulling force:
40 ton @ 1th layer.
- Electrical device allows to monitor the winch performance and to check the winch wear and tear.



2 motor gear and double brake





For additional information
Please contact

Luciano Oppimitti
Corporate Equipment Manager
Sicim
l.oppimitti@sicim.eu
Tel. +39 0524 930211

