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Raising the Standard

FAGIOLI
THE WORLD... OUR PASSION




FAGIOLI CANADA LTD

FORMULA/BRADLEY SPECIALIZED

Engineering/heavy lifting/ heavy haulage/projects cargo

SCRA AWARDS – SAFETY

Fagioli has been recently awarded from SCRA of the following:

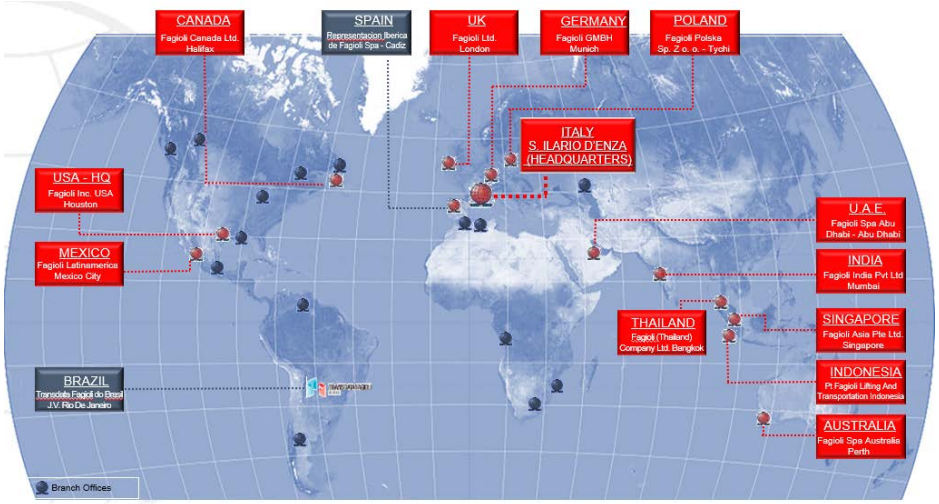
- 2019 Zero Accident Award
- 2019 Safety Award
- 2018 Zero Accident Award
- 2018 Safety Award
- 2018 Safety Improvement Award
- 2017 Safety Award

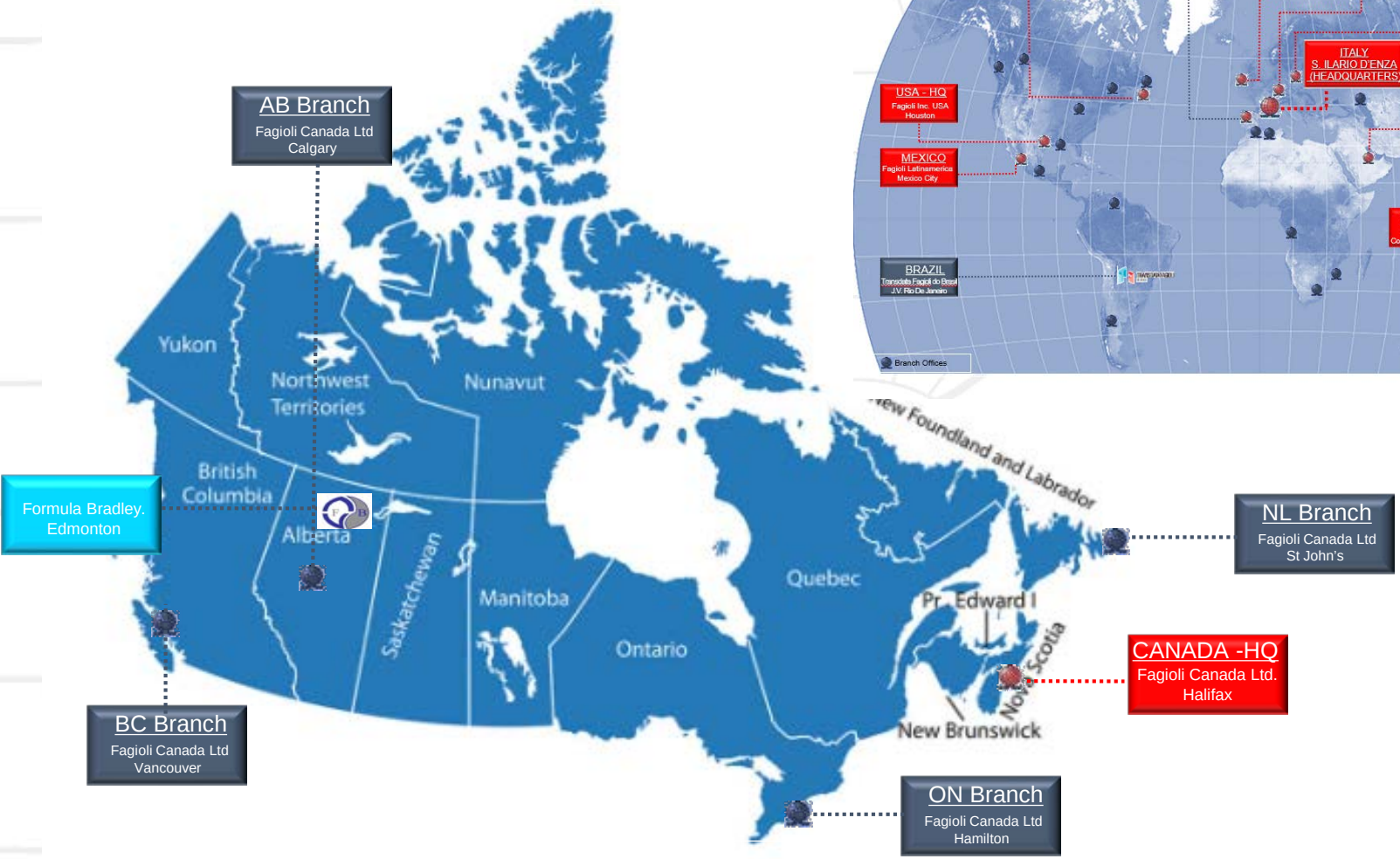
Specialized Carriers & Rigging Association

CERTIFICATIONS

Fagioli has upgraded the entire organization to comply with the latest HSE and Quality regulations

- UNI EN ISO 9001:2000
- OHSAS 18001:2007





AB Branch
Fagioli Canada Ltd
Calgary

Formula Bradley.
Edmonton

BC Branch
Fagioli Canada Ltd
Vancouver

NL Branch
Fagioli Canada Ltd
St John's

CANADA -HQ
Fagioli Canada Ltd.
Halifax

ON Branch
Fagioli Canada Ltd
Hamilton

Equipment

SPMTs

Up to 1,300 axlle lines

Strand Jacks

Over 1,000 units (15- 750 ton)

Elevator Syst.

20,000 ton capacity

Skidding System

84,000 ton overall capacity

Crawler Cranes

up to 1,350 ton capacity

Barges

10 units sea /river

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MAIN PROJECTS IN CANADA

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AOPS PROJECT (HALIFAX, NS)

CLIENT	EQUIPMENT	WEIGHT
IRVING SHIPBUILDING	No. 232 AXLE LINES SPMTS	5,377 TON
	No. 1 SEMISUBMERSIBLE BARGE (BOA)	

Fagioli Canada is involved in the AOPS (Artic Offshore Patrol Ship) Project for the Royal Canadian Navy. The Scope of Work consists in the transport and load out of 3 Mega Blocks, the final connection of the complete ship and the launching operation. The weight of each section is up to 3,000t for a total weight of 5,377t. Fagioli will use a total of No. 232 axle lines SPMTs and 8 Power Pack Units for the load out of ship onto a dedicated semisubmersible barge. As Launch coordinator, Fagioli is responsible for the engineering (including land transport, mooring analysis, ballasting plan, barge structural check, cradles design) and execution of operations for 6 AOPS units.

Hebron Topside Project (Bull Arm, NL)

CLIENT	EQUIPMENT	WEIGHT
EXXONMOBIL WORLEY PARSONS	UP TO 200 AXLE LINES SPMTS TOWER LIFT AND STRAND JACKING SYSTEM No. 64 SKID SHOES AND ELEVATOR SYSTEM CRAWLER CRANES	UP TO 44,000 TON

Fagioli executed the assembly of a complete offshore platform executed in Canada. The project activity started out at the end of 2012 with an engineering phase till the end of 2013, before the beginning of operations which started for Fagioli in 2014 and ended in October 2016.

THE MODULES

Main modules handled by Fagioli were the followings:

- UPM (Utility Process Module) weighing about 44,000 ton
- DSM (Drilling Support Module) weighing 3,900 ton
- DES (Drilling Equipment Set) weighing 2,300 ton
- LQ (Living Quarters) weighing 4,500 ton
- FB (Flare Boom) weighing 390 ton
- Ancillary Modules and ELBS (East Boat Lift Station).

Fagioli team mobilized more than 200 axle lines SPMTs, strand jacks (up to 750 ton capacity) and tower lift system for the lifting activity, Fagioli crawler cranes (with capacity up to 1,350 ton), elevator system (with capacity up to 7,200 ton) and No. 64 skid shoes with capacity up to 1,000 ton each for the skidding, load out and load in activity, climbing jacks.


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Conveyer Launcher Project

CLIENT	EQUIPMENT	WEIGHT
	Jack and Slide	

This project was a complete redesign of our standard jack and slide systems. The tight confinement of the vessel left no room for sliding equipment. Therefore, all equipment placement and connections had to be outside of the vessel. The Launcher design accommodated this requirement to build and launch sections into the vessel. This design, according to the client, had not been done before. The sections, paddles and chain sections went in one at a time. The client was extremely satisfied with the sections going into place at a rate that was much faster than first assumed.

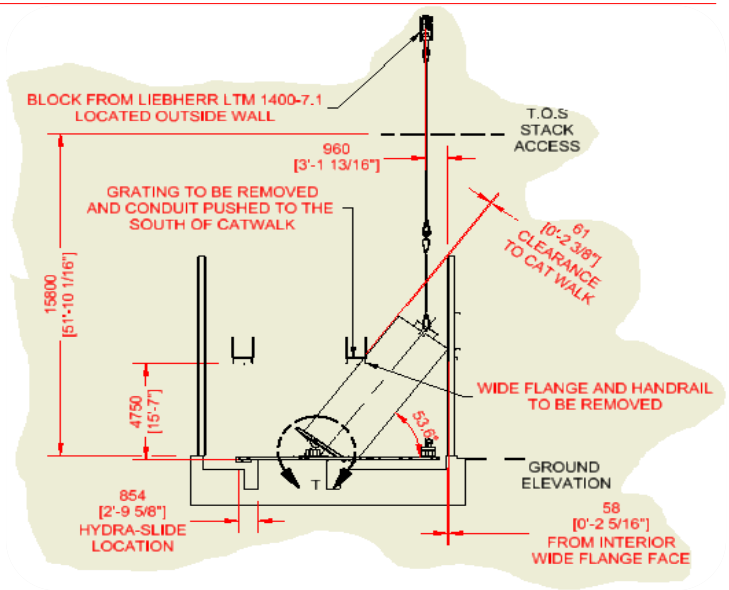
Wash Water Heater Vessel

CLIENT	EQUIPMENT	WEIGHT

Jack and Slide

This vessel was small but it was located in a very difficult location for removal. This vessel was vertical, standing over two floors. The second floor had an opening for the vessel to be vertical and the vessel was attached to a stack that projected through the roof around 120 feet. This vessel had to be lowered down and be directed under the upper floor into the building and then be removed through the wall. The tolerances were very tight and requested by the client. Platforms grating and conduit could not be moved after the review of this drawing package. The conduit was old, and the client did not want to remove it for wiring could be broken and to repair could take months. Since three days were set for the removal of the vessel all interferences had to be negotiated around. The vessel had to drop below the upper floor, so the design of the tilt frame required major study and review. This frame had to be hydraulic for lifting as the vessel came around the upper catwalks and conduits. The top of the vessel was attached to a Liebherr LTM 1400, with a capacity of 500 ton. Operational the crane had to work with the tilt frame inside the building being operated by the supervisor. Radio contact was imperative.

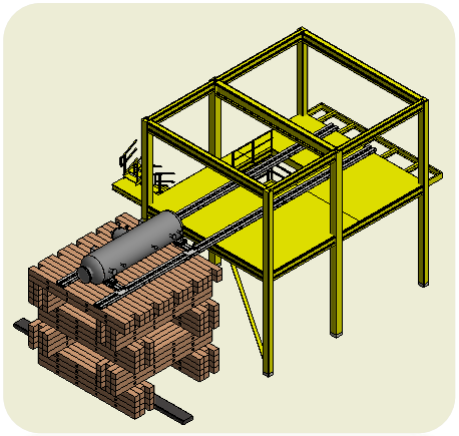
The project was a success at 2 ½ days and the client was very impressed.

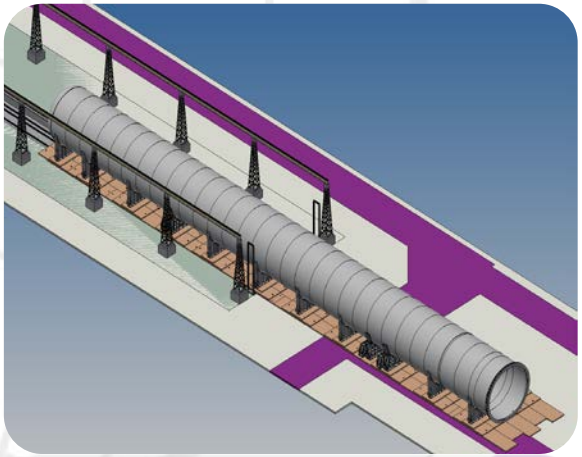


Wash Water Heater Vessel

CLIENT	EQUIPMENT	WEIGHT
	Jack and Slide	

Removing vessels from remote areas can be challenging. This vessel was one floor up around twenty feet in elevation. The vessel had a boot that dropped down through the first floor and was inset of the floor by six feet. The vessel also was inward from the opening by thirty feet. To remove the vessel, the vessel required rotation to remove the boot from below and then skid the vessel to the entrance around thirty feet. Then the vessel had to be skidded out onto a platform (Designed by Formula/Bradley) so a crane could remove it twenty feet into the air. Once completed a new vessel was replaced in the old location with a similar boot configuration.





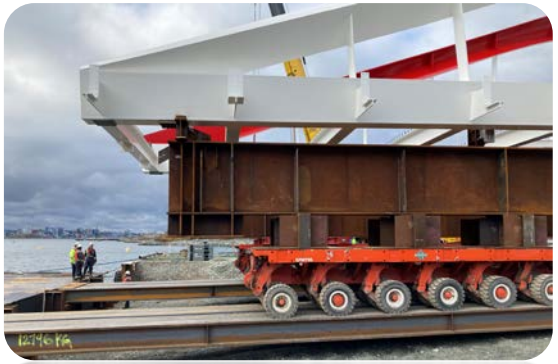
Jack and Slide of this tower placed a lot of stress on the sliding equipment. The vessel was 30'-0" in diameter and 340'-0" LG. The vessel weighed in at 1000 Ton. Formula/Bradley supplied services for Hydro and Jack & Slide of the vessel which weighed full of water at 15,000,000 lbs. The size of the vessel alone is one for the record books. This project took a few weeks but was successfully completed with the Client approval.

Port Lands Toronto (Dartmouth,NS)

CLIENT	EQUIPMENT	WEIGHT
CHERUBINI STEEL WORK	No. 24 AXLE LINES SPMTS	578 TON

Fagioli Canada was contracted to move 4 new bridges to be installed at The Port Lands Toronto as part of the new Waterfront.

The scope of work was included but not limited to transport the sections in and out the Paint Shop, install transfer beams and turntable required for the installation, weighing the full assembly, load out the item onto a barge ready for the transport from Nova Scotia to Ontario



Hibernia Cranes (Argentia,NL)

CLIENT	EQUIPMENT	WEIGHT
Frontier Subsea	No. 24 AXLE LINES SPMTS	various

In Land transport and storage of the components for the new cranes to be installed onto the Offshore Hibernia Platform. The items were delivered to Argentia by means of barge and then offloaded and stored on shore by using SPMT and cranes

CNRL HYDROTREATERS 2B PROJECT (FORT MCMURRAY, AB)

CLIENT	EQUIPMENT	WEIGHT
SAIPEM CNRL	48 AXLE LINE SPMTs 750 TON CRAWLER CRANE 2 X 300 TON CRAWLER CRANES TOWER-LIFT SYSTEM MULTIPLE HYDRAULIC CRANES	740 ton

Fagioli was contracted for the on-site transportation and installation of 80 Piperacks and 57 vessels for the Hydrotreaters 2B Project.

The heaviest vessel was a Reactor weighting 740 ton lifted by means of Fagioli Tower-lift System and tailed with Fagioli 750 ton Crawler Crane.

KITIMAT ALUMINUM SMELTER MODERNIZATION (KITIMAT,BC)

CLIENT	EQUIPMENT	WEIGHT
BECHTEL	24 AXLE LINE SPMTs	150 TON

Fagioli participated at the Kitimat Aluminum Smelter Modernization moving more than 400 vessels weighting up to 150 ton by means of 24 SPMTs Axle Lines and 3 PPUs.

North Atlantic Refinery (Come by Chance,NL)

CLIENT	EQUIPMENT	WEIGHT
North Atlantic Refinery Ltd	Heavy lift ship SPMT	300 TON

Fagioli was contracted to transport and lift a reactor at North Atlantic refinery. The R-1602 was 300 ton and 33,5 mt high. Fagioli transported the reactor from Mumbai (india) to Newfoundland (Canada) on a heavy lift ship and transported for a 2 km journey by means of SPMT

North Atlantic Refinery (Come by Chance, NL)

CLIENT	EQUIPMENT	WEIGHT
North Atlantic Refinery Ltd	Heavy lift ship SPMT	300 TON

A tower system, 36 metres high, with a single L450 strand jack was prepared to lift the reactor while it was being dressed out. The reactor was moved to the foundation on April 5th, The next day a test lift to 110% of actual weighttook place and the lift commenced immediately thereafter. The lift was completed in 2½ hours.

ENGINEERING

ENGINEERING

IN-HOUSE CERTIFIED DEPARTMENT

Formula/Bradley Engineering Inc.
Providing Expertise & Safe Innovative Solutions

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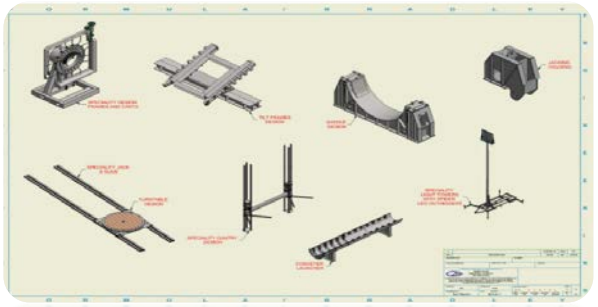
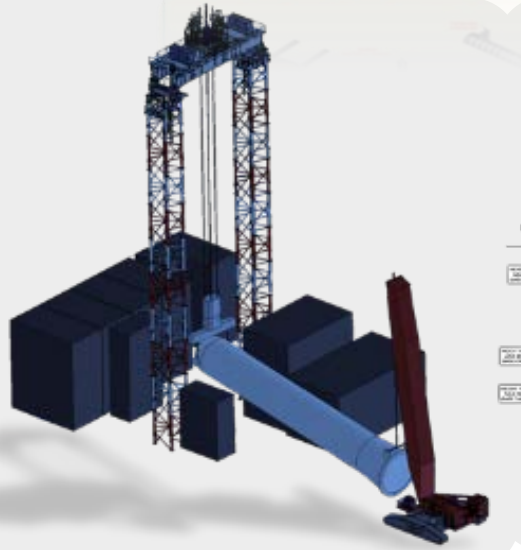
ENGINEERING DEPT.

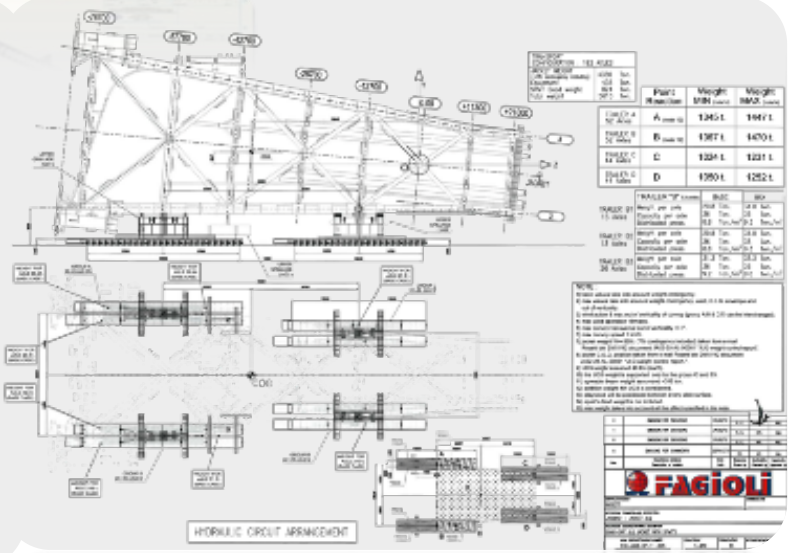
- «Fagioli engineers work closely with the client in order to provide the best solution in heavy transport and lifting activities identifying the most cost effective technical solutions
- Fagioli upgrades its quality standards receiving the certification for *"design and applied engineering of oversize and overload transport services"*
- *Formula/Bradley Engineering Inc. is an engineering and design company committed to its' clients, protecting the public and executing projects in a safe and timely manner. We offer specialized services including lift plans, transport drawings, new equipment design, consulting and more. With decades of experience in the heavy haul, crane and rigging industry, we provide expertise and innovative solutions to our customers.*

IN-HOUSE ENGINEERING AND RISK REDUCTION STUDIES



- Gantry for an offshore drilling ship
- Conveyor section launcher
- The design of transportation saddles, transport beams, module beams, module stands, jacking bands and jacking lugs
- The design of man baskets for hoisting personnel
- The design of below the hook lifting devices such as lift beams, spreader bars, etc.
- The design of storage and spreader bar racks
- The design of lifting lugs and tailing beams for the erection of equipment.
- The design of simple frames and carts of Plant Sites, flanges and valves





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THANKS FOR YOUR KIND ATTENTION!