

	00	29.01.10	Issue for Inquiry	Borowczyk	Boscolo	Massetti		
Status	Issue	Date	Description	Prepared	Checked	Approved		
				ORIGINATOR			COMPANY	



**FAGIOLI** POLSKA sp. z o.o

		DOCUMENT TITLE						
		<b>REQUEST FOR QUOTATION FOR STRAND JACKS EQUIPMENT</b>						
		DOCUMENT NUMBER			System/ Area		DFO	
		<b>FPOLSKA- RFQ-SJ-00</b>					<b>00</b>	
		Project No.	Orig Code.	Area System	Disc Code	Doc. Type	Seq. No.	Rev.



**FAGIOLI** POLSKA sp. z o.o.

REQUEST FOR QUOTATION FOR  
STRAND JACKS EQUIPMENT

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## 1. DEFINITIONS

- Work:** means all the activities relevant to the supply of equipment (Strand Jacks and Power Pack Units) as described in the present RFQ that will constitute the Subcontractor scope of work
  
- Contractor:** means Fagioli Polska Sp.Zo.o.
  
- Subcontractor:** means the company who will execute the Work according to the present RFQ
  
- Subcontract:** means the official agreement between Contractor and Subcontractor for the supply of the equipment of the Work

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## 2. INTRODUCTION

The scope of the present document is to give the necessary information and details for the provision of strand jacks equipment.

The present document will help Subcontractor to provide the work in the best way, in safety conditions and following all the European Laws and regulations in use.

Subcontractor shall have an implemented and documented system for quality assurance which comply with current ISO 9001-series and encompass and document all activities used to control, organise, plan, execute, procure, supervise, document, approve and verify the Subcontractor activity, from the beginning to the acceptance of the work.

Subcontractor is required to maintain, throughout the performance of the work, a Quality System documented in a Quality Manual and acceptable to Contractor. The manual and relevant procedures, work instructions, standards, etc. will address all aspects of Quality Assurance relevant to Subcontractor's scope of work.

Subcontractor's Quality System shall comply with regulation on Health, Safety and Environment Activities.

Subcontractor shall be responsible for managing all Health, Safety and Environment aspects of the Work in order to comply with all the requirements necessary for the protection of the people, the environment and material assets during procurement, construction and commissioning of the Work.

Subcontractor will manage all the Health, Safety and Environment aspects of the Work according to the National Regulations.

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### 3. BID PREPARATION AND SUBMISSION

All the information shall be examined and eventually annotated by Subcontractor before to submit the offer.

Any deviation from this RFQ requirements must be pointed out by Subcontractor and submitted to Contractor approval.

Subcontractor is required to submit his complete offer with all the requested attachments by 30 OF April 2010 12:00 a.m., via mail, e-mail or fax to the following address:

Fagioli Polska Sp.Zo.o.  
 ul. Krolewska 16  
 00-103 Warszawa  
 Poland

Att: Mrs. Borowczyk Magdalena  
 Phone:       +48(32)3253004  
 Fax:         +48(32)3253004  
 e-mail:      [m.borowczyk@fagioli.com](mailto:m.borowczyk@fagioli.com)

In any case the final confirmation of the contract it is subject to the Contractor approval.

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#### 4. EQUIPMENT

The following equipment is the Subcontractor's Scope of Work:

- N° 20 Strand Jacks 100t capacity;
- N° 20 Strand Jacks Power Pack Units (Electrical; 1 Line in; 6 to 30 litre/minute).
- Main description of Strand Jacks 100t capacity:

Strand Jacks move structures in a series of increments roughly equivalent to the stroke of the hydraulic jack. For the purposes of lifting or pulling operations the jack piston is simply extended and retracted in sequence. The wedge gripping mechanisms automatically lock onto the lifting cable (strand – steel wires) and pull it through the jack as the piston extends, and then lock it in its new position as the piston retracts to reset. Lowering is slightly more complicated, requiring secondary hydraulic systems incorporated in the gripping mechanisms to override their automatic operation. This allows the jacks to be opened without lifting during resetting and also allows the cable to pass through the lower grips when actually lowering.

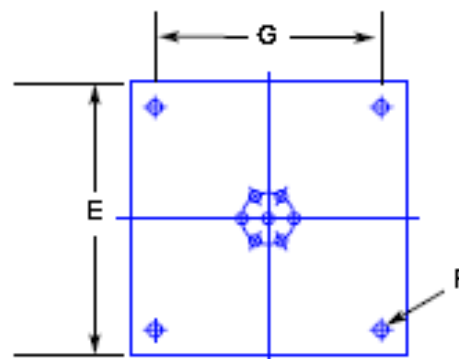
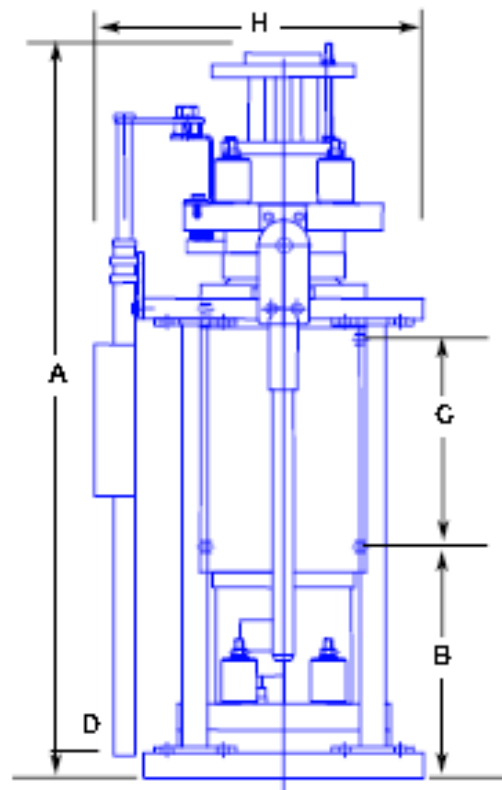
One particular feature common to all jack sizes is their fail-safe mechanism, which ensures that in the event of any hydraulic failure the load is automatically locked into the bottom anchor of the jacks. This same feature also provides a facility for stopping the jacking operation at any part of the jack stroke and transferring the load from the hydraulic system onto the mechanical arrangement of the bottom anchor, making it unnecessary to hold the load for extended periods on the hydraulic system.

As an added feature, both the jack piston and the main anchor beneath the jack, may be refurbished with the load hanging from the jack system, should this become necessary at any point of the operation.

The motion of the cylinders is driven by hydraulic power packs. They can be electric or diesel powered. A sophisticated software program synchronizes the motion of the strand jacks and adjusts the motion to the loads per lifting point. This program can operate and control dozens of strand jacks simultaneously. During operation all loads and anchor positions are displayed on the screen of the control unit.



SAFE WORKING LOAD	108 Tonnes
MAXIMUM STROKE	300 mm
MAXIMUM WORKING PRESSURE	350 Bar
MAXIMUM TEST PRESSURE	420 Bar
ASSEMBLY WEIGHT	810 kg
LIFTING CABLE SYSTEM	7 No. Ø18mm Strands
LIFTING CABLE DIAMETER	126 mm
CABLE ULTIMATE TENSILE STRENGTH	271 Tonnes



**DIMENSIONS**

A	1450mm Closed / 1750mm Open
B	457mm
C	470mm (Ports)
D	50mm
E	550mm Square
F	Ø27mm
G	450mm Square Centres
H	650mm

**MINI JACK description:**

**SINGLE ACTING RAM WITH SPRING ASSISTED RETURN**

Maximum pressure ..... 272 bar

Maximum load @ 272 bar ..... 0.04 mn

Maximum stroke ..... 25 mm

**HYDRAULIC OIL**

Specification ..... ISO/HMVG

Grade between 0 to 50°C ..... 32 to 46

Grade between 50 to 80°C ..... 68



- Main description of Strand Jacks Power Pack Units (Electrical; 1 Line in; 6 to 30 litre/minute):

The Power Pack is to be supplied as a free standing unit, fully enclosed and completely self contained.

The unit is to be designed to operate either in local control mode or remote control computer mode providing a variable flow of between 6 and 30 litres per minute to a single line.

The computer control system design should automatically ensure synchronised operating speeds and should allow for control of multi-jack lifting or lowering operations by local control or via a computerised remote control system. The unit should have the option to isolate the oil flow to individual lines.

The Power Pack should be designed around two 3 phase electric motors, 380/415 volts, 50/60 Hz each coupled to hydraulic pumps, one supplying hydraulic oil at a rate of 6 to 30 litres using a variable speed inverter. The second pump supplies hydraulic oil to the mini jacks.

All controls and line indicators/controls are to be suitable housed.

Relief valves for the Strand Jacks are to be manually operated and fully adjustable within the range 0 -350 bar.

It is mandatory the above equipment will fully respond as minimum to all the characteristics described before.

Paint: RAL 5019, Code BS18E53, company colour of Fagioli Polska.

The above mentioned equipment has to be supplied with proper complete documentation (material certificate, proof load test certificate, ....), CE Certificate.

The equipment shall be inspected by Contractor, by a third part during the bidding phase and before the contract award.

## **5. SUPPLY PERIOD and PENALTIES**

All the Equipment has to be supplied within end of April 2010.

In case of delay in equipment supply due to any reason caused by the Subcontractor, like late arrival of components, late "ready to work", or temporary stops during the fabrications due to any reason, penalties (1% of contract value) will be applied per each day of delay.

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## 6. PRICES

Subcontractor is required in his offer to submit all detailed prices of Equipment supplied.

Price has to be firm and valid for the entire supply period.

Payments:

5% down payment payable at the date of order (payment at 60 days after invoice receipt);

45% upon completion ex works (payment at 60 days after invoice receipt);

50% upon completion ex works (payment at 120 days after invoice receipt).

## 7. CRITERIA for SELECTION

The main criteria for Subcontractor selection are:

- fully respond to all technical requirements described in the present RFQ – 45%;
- commercial evaluation – 25%;
- equipment readiness within terms indicated – 10%;
- Subcontractor Quality Assurance - 10%;
- Subcontractor financial rating – 10%.

## 8. INFORMATION TO BE PROVIDED

In his offer, Subcontractor will detail the following information:

- A. Detailed description of the Equipment, model, packing list, possible configuration, official capacity charts.
- B. Subcontractor Quality Assurance Manual (complete copy with all the Procedures and Work Instructions).
- C. Subcontractor financial annual reports of past 3 years.

## 9. WARRENTY

Warranty has to be two years after ex works delivery. The warranty has to cover the replacement of defective parts damaged by faults in construction, material and manufacture.