

MARINE JACKING SYSTEMS



ESI
ENERGY SERVICES
INTERNATIONAL

QUALITY, SERVICE
& RELIABILITY

SERVICES

AFTER MARKET SERVICES



SYSTEM ENHANCEMENTS

ESI also provides a number of jacking system enhancements for existing systems. These include fleet wide overhaul and exchange programs, increased lifting capacity by adding additional jacking units, power conversions, and control system upgrades. Each enhancement is designed to meet the customer's unique requirements.

INSPECTION & MAINTENANCE PROGRAMS

ESI has developed a continuous jacking system inspection and maintenance program which can be carried out while the rig is in operation. The programs are designed to meet the specific needs of each customer and will

dramatically reduce downtime and improve maintenance procedures. Inspection reports are regularly reviewed by our engineering staff to monitor the potential impact of ABS rule modifications on older MODU's.

EXCHANGE PROGRAM

ESI also offers exchange programs for new or rebuilt components that can significantly reduce your overall maintenance and repair costs. Our exchange compo-

nents carry a full warranty for both parts and workmanship. We are able to offer the quickest, most cost effective solution for your jacking system requirements.

INVENTORY

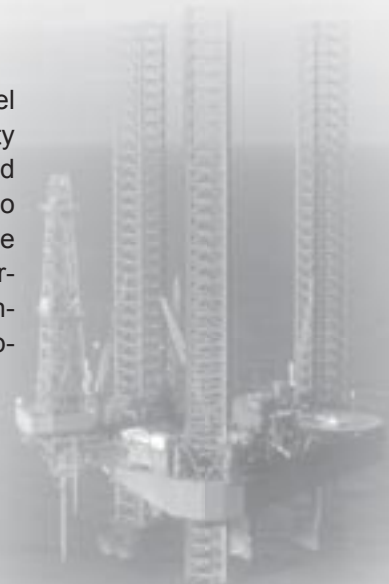
We maintain large inventories of components available for shipment worldwide. All components receive ABS approval prior to delivery, and our service technicians are available for installation and commission-

ing. Whether in the shipyard or offshore during drilling operations, our personnel can provide the service and technical expertise necessary to meet your jacking system needs.

FIELD SERVICE

ESI provides a full range of rig site equipment repairs, refurbishment and remanufacturing services. We provide complete ABS certified repairs and refurbishment of jacking systems, skidding systems and water tower elevating systems. We also offer specialized welding and leg repair for most jackup rig designs. Our tech-

nical support and service personnel have over one hundred and twenty years of combined experience and are available to travel worldwide to meet your service needs. We have provided our customers with field service and repairs in over thirty countries on six continents in both shipyards and offshore.



JACKING SYSTEMS

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ESI Energy Services International, Inc. manufactures complete systems and components for use on virtually every jackup drilling rig currently in operation. We also design systems to meet specialized customer needs for system type and load capacity. With the most diverse services of jacking systems available, ESI can meet your equipment needs on a global basis. With stocking points in the United States and Dubai, U.A.E., ESI can respond to your equipment or service needs anytime and anywhere. At ESI, we are committed to the three goals of QUALITY, SERVICE, and RELIABILITY.



ESI "200" SERIES

The "200" Series Jacking System is designed for use on all Bethlehem® type jackup drilling rigs. ESI can provide new or remanufactured motors, controls, and hydraulic power units, new and refurbished hydraulic cylinders, and field service support including leg repair and system maintenance. This combination provides the contractor with a single source solutions provider for their Bethlehem® jacking systems.

ESI "400" SERIES

The ESI "400" Series Jacking System is designed for use on Friede-Goldman®, Hitachi®, Levingston®, Mitsui®, and Mitsubishi® type jackup drilling rigs. The "400" Series is designed for a normal jacking capacity of 220 tons. The System has also received ABS certification to 60,000 rack feet of life with use of proper lubricants. Completely interchangeable with competitive systems, the ESI "400" Series is in service throughout the world. Provision of additional pinion rounds is available for both floating and fixed systems.



ESI "440" SERIES

The ESI "440" Series Jacking System is designed for use on most LeTourneau® type jackup drilling rigs. The "440" Series has a normal jacking capacity of 220 tons. ABS approved normal hold rating is 352 tons and storm hold is 528 tons. The ABS certified system is completely interchangeable with competitive systems. Additional rounds of pinions and upgraded control systems are available.

JACKING SYSTEM SPECIFICATIONS

ESI "200" SERIES

| | CYLINDER ID | STROKE | MAXIMUM PUSH@ 3000 PSI | MAXIMUM PULL@ 3000 PSI | RIG APPLICATION |
|------------------------|---------------|--------|---------------------------|---------------------------|--------------------------------|
| HYDRAULIC CYLINDERS | 18" | 6" | 381 | 286 | Bethlehem® |
| | 24" | 6" | 678 | 560 | |
| | TYPE | | RATED PRESSURE | RPM | VOLUME |
| HYDRAULIC MOTOR | DKMR-6025-NYC | | 2500 | 1200 | 5.94 GPM@1140 RPM & 2500PSI |

ESI "400" SERIES

| | NORMAL LIFT | EMERGENCY LIFT | NORMAL HOLD | STORM HOLD | RIG APPLICATION |
|---------|-------------|----------------|-------------|------------|---|
| ESI 400 | 220 | 250 | 350 | 500 | Mitsui®, Mitsubishi® Levingston®, Friede-Goldman® |

ESI "440" SERIES

| | NORMAL LIFT | EMERGENCY LIFT | NORMAL HOLD | STORM HOLD | RIG APPLICATION |
|---------|-------------|----------------|-------------|---------------|-----------------|
| ESI 440 | 220 | 250 | 352 | 528 | LeTourneau® |

ESI "600" SERIES

| | NORMAL LIFT | EMERGENCY LIFT | NORMAL HOLD | STORM HOLD | RIG APPLICATION |
|---------|-------------|----------------|-------------|------------|-----------------|
| ESI 600 | 300 | 300 | 450 | 600 | Baker Marine® |
| ESI 650 | 325 | 325 | 450 | 600 | |

ESI "700" & "1000" SERIES

| | NORMAL LIFT | EMERGENCY LIFT | NORMAL HOLD | STORM HOLD | RIG APPLICATION |
|----------|-------------|----------------|-------------|------------|-----------------|
| ESI 700 | 354 | 354 | 486 | 647 | New Builds |
| ESI 1000 | 500 | 500 | 757 | 1136 | |

* All specifications in tons unless otherwise noted.

NOTES

Friede-Goldman®, Hitachi®, Levingston®, Mitsui®, Mitsubishi®, Baker Marine®, LeTourneau®, and Bethlehem® are registered trademarks of the respective companies. Use of their names does not imply any endorsement or recommendation by any of such companies. ESI has no affiliation with any of these companies and makes no such representation. The specifications and descriptions used in this brochure are for information purposes only and are subject to change without notice. No representations or warranties are made and are subject to the standard terms and conditions of sale of ESI Energy Services International, Inc., Houston, TX. All systems and components receive ABS certification prior to construction and shipment. The "600" series is marketed and manufactured under license from Baker Marine®, Ingleside, TX.

JACKING SYSTEMS

MARINE JACKING SYSTEMS

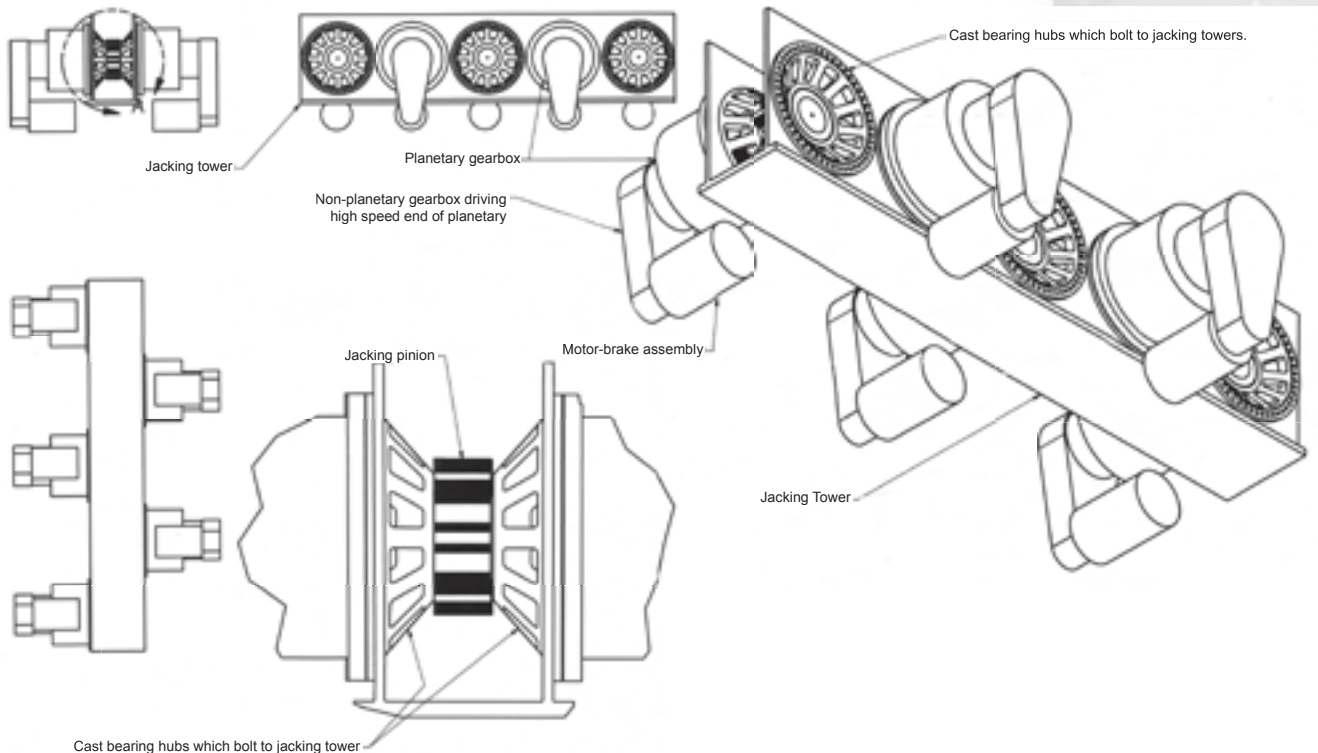


ESI "600" SERIES

The ESI "600" Series Jacking System is designed for use on all Baker Marine® type jackup drilling rigs. The "600" Series is designed for normal jacking capacities of 300 and 325 tons. The system is completely interchangeable with existing Baker Marine® systems and is in service worldwide. Conversion programs from hydraulic to electric power are available and includes new control systems.

ESI "700" & "1000" SERIES

The "700" and "1000" Series Jacking Systems incorporate the latest design technology using planetary gearboxes as opposed to earlier systems which used simple gearbox designs. The improved efficiency created by the planetary gearbox results in a lighter jacking system for the same jacking capacity. This ultimately results in lower costs to manufacture new jackup drilling rigs. The "700" Series is designed for normal jacking capacity of 354 tons. The "1000" Series is designed for normal jacking capacity of 500 tons.



LOCATIONS

CONTACT INFORMATION



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