



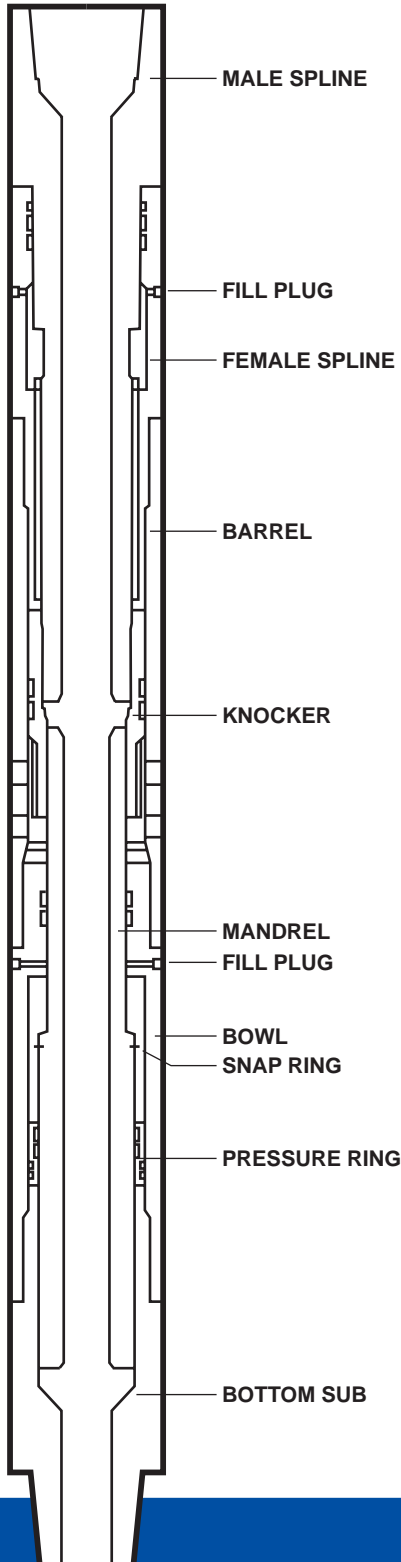
**AEE OILFIELD SERVICE LTD.**

**COMPOUNDER**

Patented



# OILFIELD SERVICE LTD.



The **Lee Oilfield Service Ltd. compounder** is designed with a patented multi-chamber system that facilitates lower internal working pressures which provides longer jarring periods. The compounder should be used with the Lee type hydraulic jars which can withstand the higher impact forces created by the compounder.

Jarring effectiveness is determined by how rapidly you can impact weight into the jars. When jarring without a compounder you rely only on pipe stretch to lift the drill collars upwards after the jar releases to create the upwards impact in the jar. This accelerated upward movement will often be reduced by the friction of the working string along the sides of the well bore, reducing the speed of upwards movement of the drill collars which impact into the jar. At shallow depths jar impact is not achieved because of lack of pipe stretch in the working string.

The Lee Oilfield compounder is energized when you over pull on the working string and compress a compressible fluid through a distance of 10" of stroke and at the same time activating the fishing jar. When the fishing jar releases the stored energy in the compounder, it lifts the drill collars upwards at a high rate of speed creating a high impact in the jar.

When running the Lee Oilfield compounder it is recommended you place jars on bottom, pick up 3 to 6 drill collars and place the compounder on top of the drill collars. It is not necessary or recommended that any more drill collars be run on top of the compounder.

It should be noticed that when jarring with a compounder the surface action is greatly reduced or in most cases eliminated entirely. This is because all the jarring action is taking place between the compounder and the fishing jar.

**Patented**

# COMPOUNDER

*Our Service is your Guarantee...*

SIZE		CONNECTION	PULL TO FULLY OPEN	TENSILE AFTER FULLY OPEN	TOTAL STROKE	BODY JOINT TORQUE
O.D.	I.D.					
2-1/4 in 57.1 mm	3/4 in 19.0 mm	2 in LDC	15,000 lbs 6,670 daN	70,000 lbs 31,137 daN	9 in	700 ft lbs 950 Nm
3-1/8 in 79.4 mm	1 in 25.4 mm	2-3/8 in REG	31,000 lbs 13,800 daN	170,000 lbs 75,600 daN	10 in	1,800 ft lbs 2,400 Nm
3-3/4 in 95.2 mm	1-1/4 in 31.8 mm	2-7/8 in REG 2-3/8 in IF	37,500 lbs 16,600 daN	300,000 lbs 133,446 daN	10 in	3,000 ft lbs 4,000 Nm
3-3/4 in 95.2 mm	1-1/2 in 38.1 mm	2-7/8 in REG 2-3/8 in IF	31,000 lbs 13,800 daN	250,000 lbs 111,000 daN	10 in	3,000 ft lbs 4,000 Nm
3-3/4 in	1-7/8 in	2-3/8 in EUE				
4-3/4 in 120.6 mm	2 in 50.8 mm	3-1/2 in IF	55,000 lbs 24,465 daN	503,000 lbs 223,744 daN	10 in	7,000 ft lbs 9,520 Nm
4-1/2 in	2-3/8 in	2-7/8 in EUE				
4-3/4 in 120.6 mm	2-1/4 in 57.1 mm	3-1/2 in IF	49,000 lbs 21,700 daN	306,000 lbs 136,000 daN	10 in	7,000 ft lbs 9,520 Nm
6-1/4 in 158.8 mm	2-1/4 in 57.1 mm	4-1/2 in XH 4-1/2 in H90	107,000 lbs 47,600 daN	820,000 lbs 364,750 daN	10 in	15,600 ft lbs 20,460 Nm
6-3/4 in 171.4 mm	2-1/2 in 63.5 mm	5 in H90 4-1/2 in IF	151,000 lbs 67,100 daN	1,000,000 lbs 444,800 daN	10 in	20,000 ft lbs 27,200 Nm
8 in 203.2 mm	2-3/4 in 69.9 mm	6-5/8 in REG	175,000 lbs 77,843 daN	1,200,000 lbs 533,784 daN	10 in	36,000 ft lbs 49,000 Nm
9 in 228.6 mm	2-3/4 in 69.9 mm	7 in H90	193,000 lbs 85,850 daN	2,000,000 lbs 896,640 daN	12 in	50,000 ft lbs 68,000 Nm



Manufacturers and Distributors of Hydraulic Jars, Fishing Bumper Jars and Compounders  
Fishing Equipment

*Our Service is your Guarantee...*

**MANUFACTURED** in Canada by Canadian craftsmen

- Machined to close tolerances -  $\pm 0.0005$  inches in critical areas
- Quality control - dimensional checks, hardness checks
- High quality material - heat treated 4340 steel stock material
- Design modifications to suit special operating conditions such as different operating temperatures or hole conditions
- The most rugged splines made, to enable application of maximum torque either open or closed

**SERVICED & TESTED** by qualified personnel

- Tested before dismantling
- All parts inspected after cleaning
- Parts in question are non-destructively tested with magnetic particle and/or ultrasonic techniques
- Worn or damaged parts replaced with new parts
- O-rings, seals, and hydraulic fluid replaced during every servicing
- H<sub>2</sub>S resistant tools available on request



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