

**Our thru-tubing motors deliver performance  
right where you need it. Downhole.**

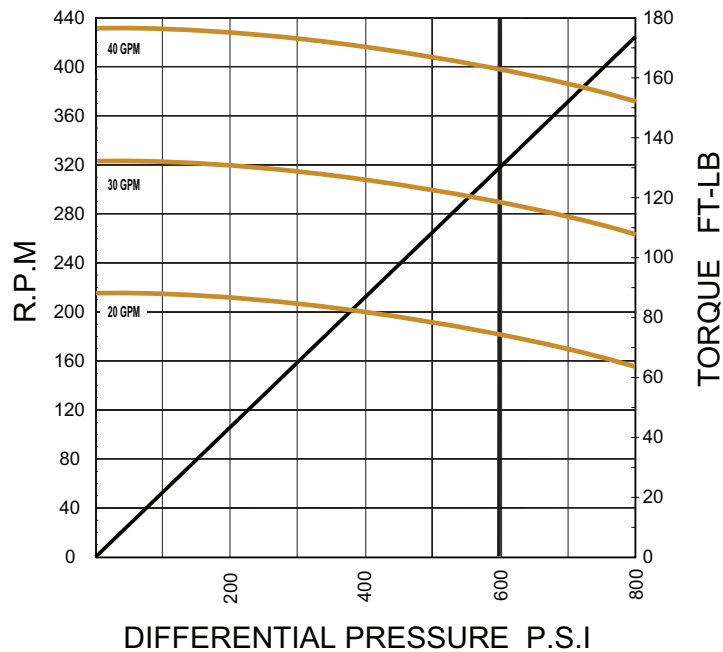


**COBRA**

**DOWNHOLE MOTORS**  
A GENCO Energy Services Company

**Delivering Downhole Performance**

# 1 11/16" 5-6 2.3 Stg EVEN WALL MOTOR SPECIFICATIONS

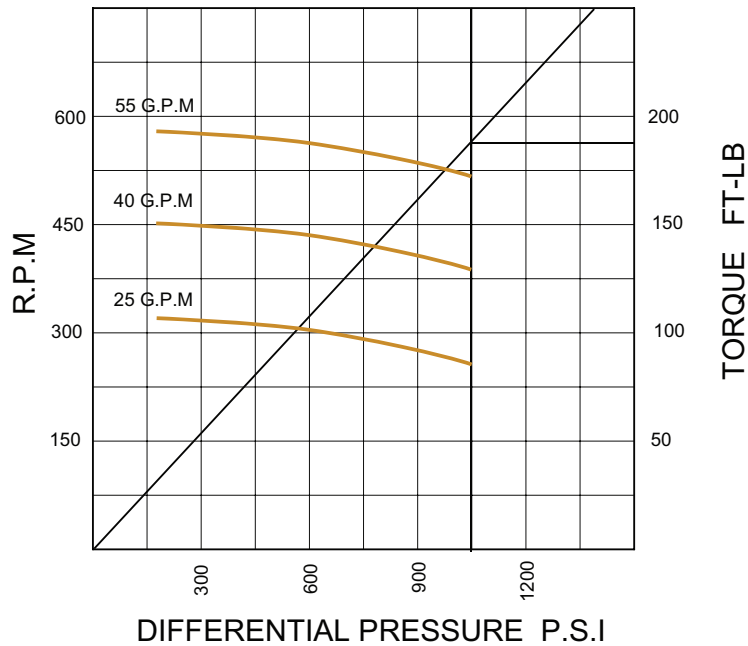


**MUD LUBE**  
 MAX W.O.B. 3,000 lb.  
 O/A LENGTH 130"  
 MAX. OVERPULL AND RERUN 8,500 lb.  
 ABSOLUTE OVERPULL 40,000 lb.  
 TOOL SHIPPING WEIGHT 40 lb.

**OIL SEALED**  
 MAX W.O.B. 2,700 lb.  
 MAX. OVERPULL AND RERUN 6,500 lb.  
 ABSOLUTE OVERPULL 45,000 lb.

OPERATING DATA		
Flow Range	gpm (lpm)	20 - 40 (76 - 151)
Differential Pressure	psi (bar)	600 (41.3)
Bit Speed	rpm	216 - 433
Displacement	rev/gal (rev/L)	10.82 (2.79)
Torque	ft-lbs (Nm)	131 (177.6)
Power	HP (Kw)	11 (8.2)
PHYSICAL DIMENSIONS		
Power Section Configuration	Stages	2.3
	Lobes	5-6
Overall Motor Length	ft (m)	7.5 (2.28)
Weight	lbs (kg)	40 (18.14)
Connections	Standard	Box 1" MT
	Optional	Box Upon Request
Bit size	in (mm)	1 7/8" - 2 3/4" (47.63 - 69.85)

# 1 11/16" 5-6 5.0 Stg HARD RUBBER MOTOR SPECIFICATIONS



**MUD LUBE**  
 MAX W.O.B. 3,000 lb.  
 O/A LENGTH 130"  
 MAX. OVERPULL AND RERUN 8,500 lb.  
 ABSOLUTE OVERPULL 40,000 lb.  
 TOOL SHIPPING WEIGHT 40 lb.

**OIL SEALED**  
 MAX W.O.B. 2,700 lb.  
 MAX. OVERPULL AND RERUN 6,500 lb.  
 ABSOLUTE OVERPULL 420,016 lb.

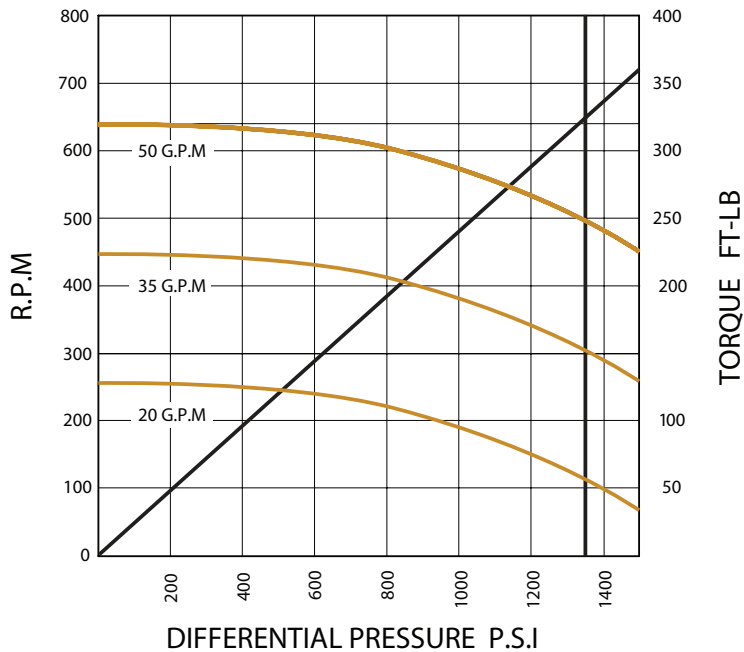
## OPERATING DATA

Flow Range	gpm (lpm)	25 - 45 (94.6 - 170.3)
Differential Pressure	psi (bar)	1050 (51.7)
Bit Speed	rpm	323 - 580
Displacement	rev/gal (rev/L)	12.9 (3.4)
Torque	ft-lbs (Nm)	188 (254.9)
Power	HP (Kw)	19 (14.2)

## PHYSICAL DIMENSIONS

Power Section Configuration	Stages	5.0
	Lobes	5-6
Overall Motor Length	ft (m)	10.83 (3.3)
Weight	lbs (kg)	40 (18.14)
Connections	Standard	Box 1" MT
	Optional	Box Upon Request
Bit size	in (mm)	1 7/8" - 2 3/4" (47.63 - 69.85)

# 2 1/8" 5-6 6.0 Stg HARD RUBBER MOTOR SPECIFICATIONS



**MUD LUBE**  
 MAX W.O.B. 13,000 lb.  
 O/A LENGTH 117"  
 MAX. OVERPULL AND RERUN 18,500 lb.  
 ABSOLUTE OVERPULL 60,000 lb.  
 TOOL SHIPPING WEIGHT 45 lb.

**OIL SEALED**  
 MAX W.O.B. 9,360 lb.  
 MAX. OVERPULL AND RERUN 26,700 lb.  
 ABSOLUTE OVERPULL 78,375 lb.

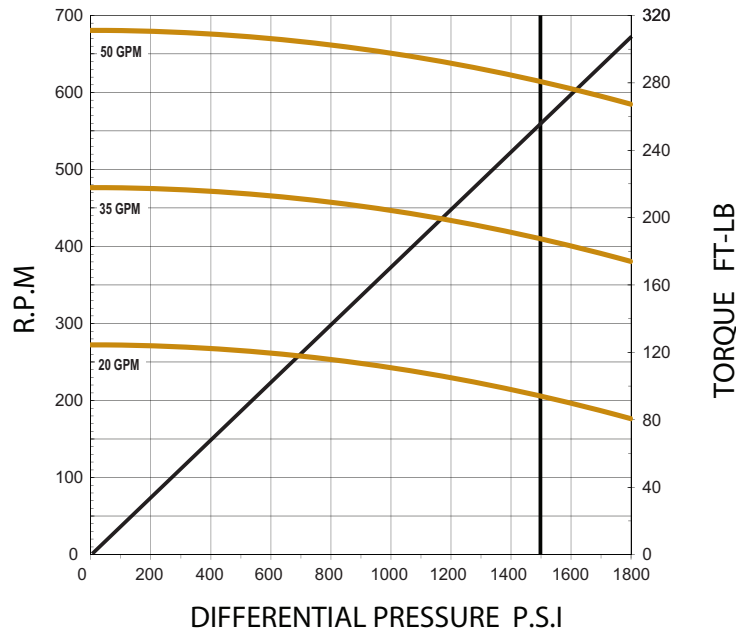
## OPERATING DATA

Flow Range	gpm (lpm)	20 - 50 (75.5 - 189)
Differential Pressure	psi (bar)	1350 (93.1)
Bit Speed	rpm	260 - 640
Displacement	rev/gal (rev/L)	12.78 (3.38)
Torque	ft-lbs (Nm)	320 (433.9)
Power	HP (Kw)	53 (39.52)

## PHYSICAL DIMENSIONS

Power Section Configuration	Stages	6.0
	Lobes	5-6
Overall Motor Length	ft (m)	9.75 (2.97)
Weight	lbs (kg)	45 (20.42)
Connections	Standard	Box 1-1/2" MT
	Optional	Box Upon Request
Bit size	in (mm)	2 13/16" - 3 1/4" (71.44 - 82.55)

# 2 1/8" 5-6 6.0 Stg EVEN WALL MOTOR SPECIFICATIONS

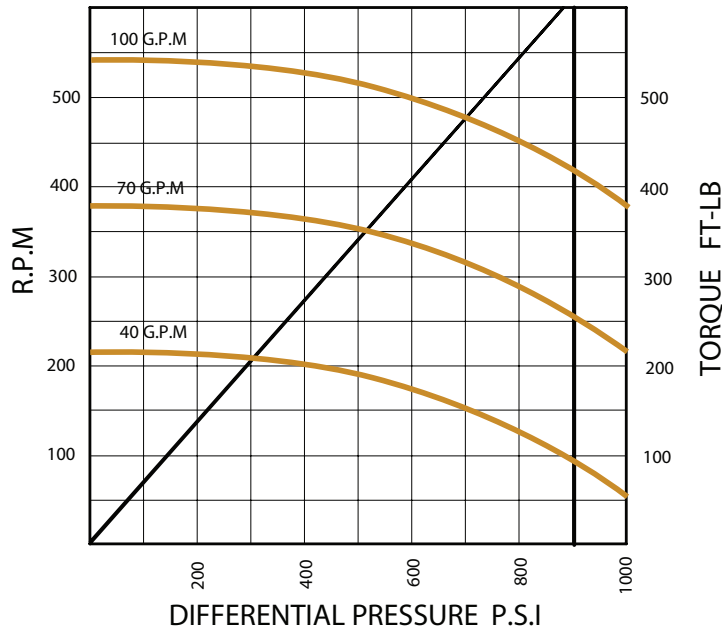


**MUD LUBE**  
 MAX W.O.B. 13,000 lb.  
 O/A LENGTH 117"  
 MAX. OVERPULL AND RERUN 18,500 lb.  
 ABSOLUTE OVERPULL 60,000 lb.  
 TOOL SHIPPING WEIGHT 45 lb.

**OIL SEALED**  
 MAX W.O.B. 9,360 lb.  
 MAX. OVERPULL AND RERUN 27,600 lb.  
 ABSOLUTE OVERPULL 78,375 lb.

OPERATING DATA		
Flow Range	gpm (lpm)	20 - 50 (75.7 - 189.3)
Differential Pressure	psi (bar)	1500 (103.4)
Bit Speed	rpm	270 - 680
Displacement	rev/gal (rev/L)	13.61 (3.59)
Torque	ft-lbs (Nm)	256 (347.1)
Power	HP (Kw)	33 (24.6)
PHYSICAL DIMENSIONS		
Power Section Configuration	Stages	6.0
	Lobes	5-6
Overall Motor Length	ft (m)	9.75 (2.98)
Weight	lbs (kg)	46 (18.14)
Connections	Standard	Box 1 1/2" MT
	Optional	Box Upon Request
Bit size	in (mm)	2 13/16" - 3 1/4" (71.44 - 82.55)

# 2 3/8" 7-8 4.0 Stg HARD RUBBER MOTOR SPECIFICATIONS



MUD LUBE  
 MAX W.O.B. 13,500 lb.  
 O/A LENGTH 123"  
 MAX. OVERPULL AND RERUN 22,000 lb.  
 ABSOLUTE OVERPULL 72,000 lb.  
 TOOL SHIPPING WEIGHT 70 lb.

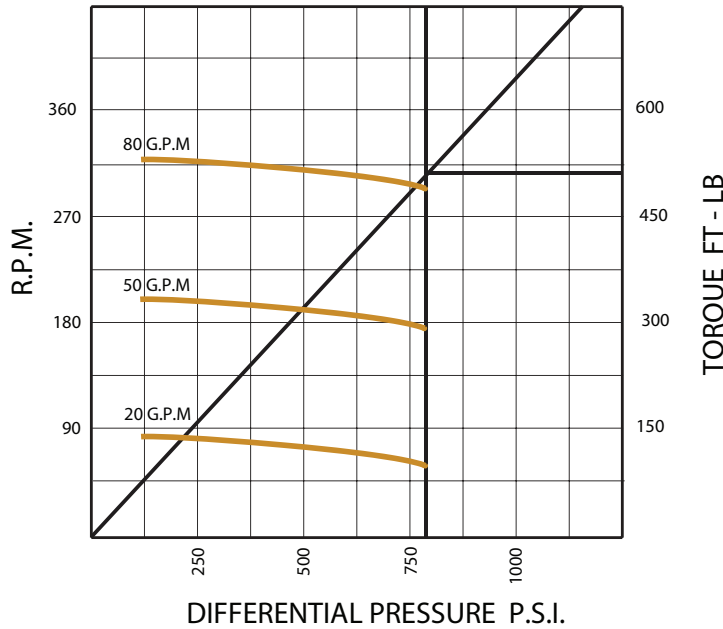
## OPERATING DATA

Flow Range	gpm (lpm)	40 - 100 (151.4 - 378.5)
Differential Pressure	psi (bar)	900 (62.05)
Bit Speed	rpm	220 - 540
Displacement	rev/gal (rev/L)	5.43 (1.43)
Torque	ft-lbs (Nm)	500 (677.9)
Power	HP (Kw)	69 (51.45)

## PHYSICAL DIMENSIONS

Power Section Configuration	Stages	4.0
	Lobes	7-8
Overall Motor Length	ft (m)	10.25 (3.12)
Weight	lbs (kg)	70 (31.75)
Connections	Standard	Box 1 1/2" MT
	Optional	Box 1 1/4" REG
Bit size	in (mm)	3 1/8" - 4 1/2" (79.38- 114.3)

# 2 7/8" 5-6 3.5 Stg HARD RUBBER MOTOR SPECIFICATIONS



### MUD LUBE

MAX W.O.B. 10,000 lb.  
 O/A LENGTH 132"  
 MAX OVERPULL AND RERUN 26,700 lb.  
 ABSOLUTE OVERPULL 116,000 lb.  
 TOOL SHIPPING WEIGHT 210 lb.

### SEALED BEARING

MAX W.O.B. 9,360 lb.  
 MAX OVERPULL AND RERUN 26,700 lb.  
 ABSOLUTE OVERPULL 124,000 lb.

## OPERATING DATA

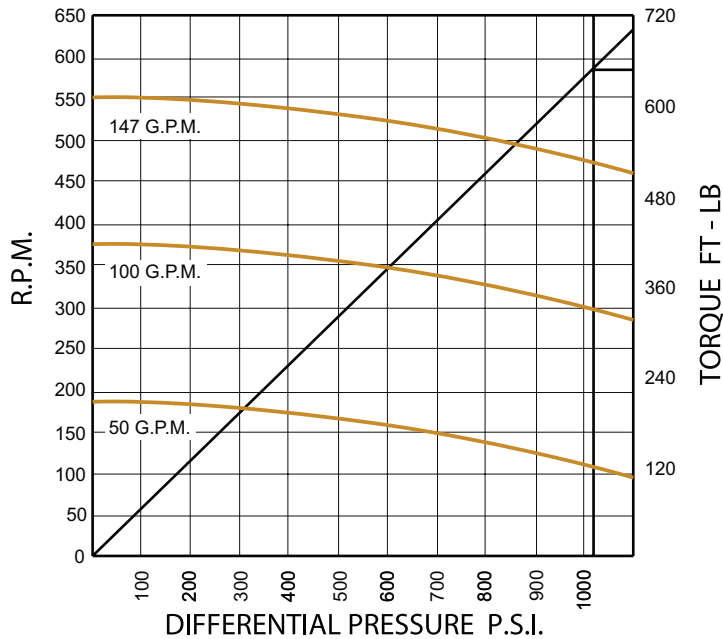
Flow Range	gpm (lpm)	60 - 126 (227 - 477)
Differential Pressure	psi (bar)	787 (54.26)
Bit Speed	rpm	186 - 391
Displacement	rev/gal (rev/L)	3.1 (.82)
Torque	ft-lbs (Nm)	472 (640)
Power	HP (Kw)	35.8 (26.7)

## PHYSICAL DIMENSIONS

Power Section Configuration	Stages	3.5
	Lobes	5-6
Overall Motor Length	ft (m)	156.3 (3.96)
Weight	lbs (kg)	188 (85.27)
Connections	Standard	Box
	Optional	Box
Bit size	in (mm)	3 3/4" - 4 1/8" (95.3 - 104.8)



# 2 7/8" 5-6 4.7 Stg HARD RUBBER MOTOR SPECIFICATIONS



### MUD LUBE

MAX W.O.B.	10,000 lb.
O/A LENGTH	156.0"
MAX OVERPULL AND RERUN	26,700 lb.
ABSOLUTE OVERPULL	116,000 lb.
TOOL SHIPPING WEIGHT	200 lb.

### SEALED BEARING

MAX W.O.B.	9,360 lb.
MAX. OVERPULL AND RERUN	26,700 lb.
ABSOLUTE OVERPULL	124,000 lb.
TOOL SHIPPING WEIGHT	70 lb.

## OPERATING DATA

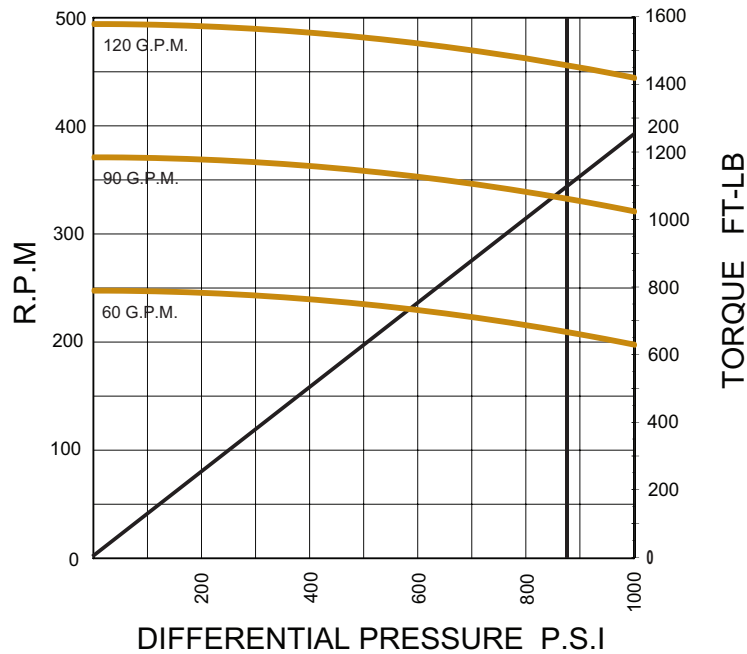
Flow Range	gpm (lpm)	50 - 168 (189 - 636)
Differential Pressure	psi (bar)	1020 (70.33)
Bit Speed	rpm	188 - 553
Displacement	rev/gal (rev/L)	3.76 (.99)
Torque	ft-lbs (Nm)	646 (876)
Power	HP (Kw)	24 (32)

## PHYSICAL DIMENSIONS

Power Section Configuration	Stages	4.7
	Lobes	5-6
Overall Motor Length	ft (m)	14 (4.27)
Weight	lbs (kg)	216 (98)
Connections	Standard	Box
	Optional	Box
Bit size	in (mm)	2 3/8 PAC Upon Request
		3 3/4" - 4" (95.25 - 101.6)



# 2 7/8" 5-6 3.5 Stg EVEN WALL MOTOR SPECIFICATIONS

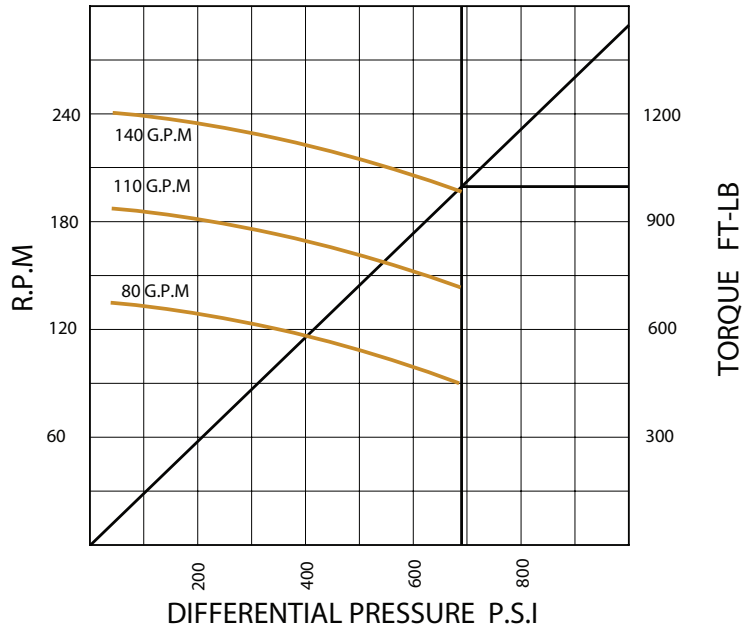


MUD LUBE  
 MAX W.O.B. 10,000 lb.  
 O/A LENGTH 132"  
 MAX OVERPULL AND RERUN 26,700 lb.  
 ABSOLUTE OVERPULL 116,000 lb.  
 TOOL SHIPPING WEIGHT 210 lb.

SEALED BEARING  
 MAX W.O.B. 9,360 lb.  
 O/A LENGTH 156.3"  
 MAX OVERPULL AND RERUN 26,700 lb.  
 ABSOLUTE OVERPULL 124,000 lb.  
 TOOL SHIPPING WEIGHT 188 lb.

OPERATING DATA		
Flow Range	gpm (lpm)	60 - 125 (227 - 473)
Differential Pressure	psi (bar)	875 (60.33)
Bit Speed	rpm	200 - 400
Displacement	rev/gal (rev/L)	3.3 (.87)
Torque	ft-lbs (Nm)	1,100 (1491.4)
Power	HP (Kw)	49 (36.5)
PHYSICAL DIMENSIONS		
Power Section Configuration	Stages	3.5
	Lobes	5-6
Overall Motor Length	ft (m)	12.6 (3.84)
Weight	lbs (kg)	200 (90.7)
Connections	Standard	Box 2 3/8 PAC
	Optional	Box Upon Request
Bit size	in (mm)	3 1/4" - 4" (82.55 - 101.6)

# 3 1/8" 7-8 3.0 Stg HARD RUBBER MOTOR SPECIFICATIONS

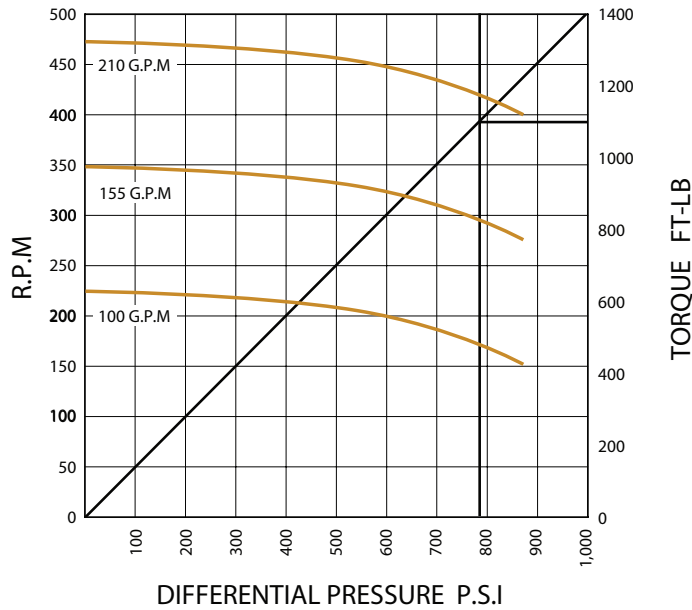


**MUD LUBE**  
 MAX W.O.B. 25,600 lb.  
 O/A LENGTH 155"  
 MAX. OVERPULL AND RERUN 57,000 lb.  
 ABSOLUTE OVERPULL 150,000 lb.  
 TOOL SHIPPING WEIGHT 120 lb.

**OIL SEALED**  
 MAX W.O.B. 23,650 lb.  
 MAX. OVERPULL AND RERUN 60,000 lb.  
 ABSOLUTE OVERPULL 90,000 lb.

OPERATING DATA		
Flow Range	gpm (lpm)	80 - 140 (303 - 530)
Differential Pressure	psi (bar)	690 (47.57)
Bit Speed	rpm	135 - 240
Displacement	rev/gal (rev/L)	1.7 (.45)
Torque	ft-lbs (Nm)	990 (1342.3)
Power	HP (Kw)	49 (36.53)
PHYSICAL DIMENSIONS		
Power Section Configuration	Stages	3.0
	Lobes	7-8
Overall Motor Length	ft (m)	18.5 (5.64)
Weight	lbs (kg)	320 (85.27)
Connections	Standard	Box 2 3/8" REG
	Optional	Box Upon Request
Bit size	in (mm)	3 1/4" - 5 1/2" (82.6 - 139.7)

# 3 1/8" 5-6 3.5 Stg HARD RUBBER MOTOR SPECIFICATIONS

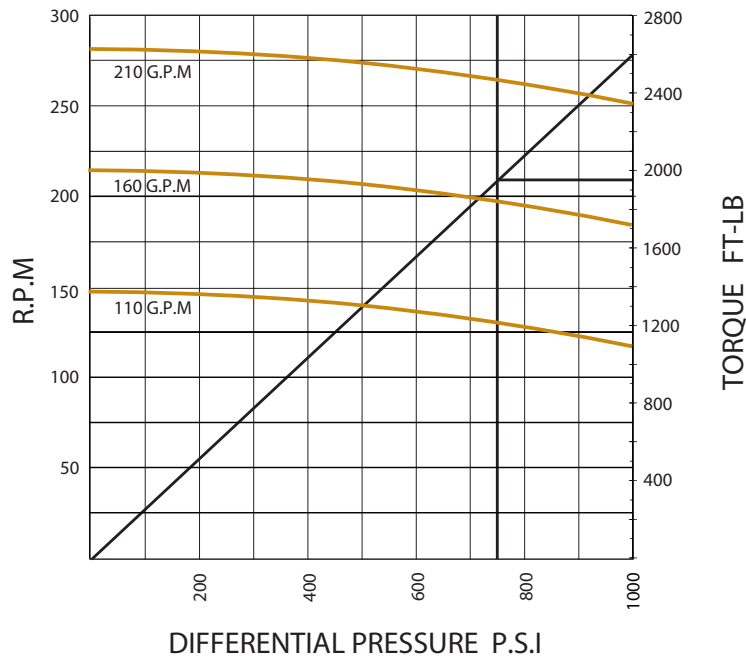


**MUD LUBE**  
 MAX W.O.B. 23,650 lb.  
 O/A LENGTH 117"  
 MAX. OVERPULL AND RERUN 60,000 lb.  
 ABSOLUTE OVERPULL 90,000 lb.  
 TOOL SHIPPING WEIGHT 45 lb.

**OIL SEALED**  
 MAX W.O.B. 23,650 lb.  
 MAX. OVERPULL AND RERUN 60,000 lb.  
 ABSOLUTE OVERPULL 90,000 lb.

OPERATING DATA		
Flow Range	gpm (lpm)	100 - 210 (379 - 795)
Differential Pressure	psi (bar)	790 (54.47)
Bit Speed	rpm	230 - 470
Displacement	rev/gal (rev/L)	2.25 (.59)
Torque	ft-lbs (Nm)	1100 (1491.4)
Power	HP (Kw)	105 (78.29)
PHYSICAL DIMENSIONS		
Power Section Configuration	Stages	3.5
	Lobes	5-6
Overall Motor Length	ft (m)	19 (5.79)
Weight	lbs (kg)	490 (222.26)
Connections	Standard	Box 2 3/8" REG
	Optional	Box Upon Request
Bit size	in (mm)	2 3/16" - 3 1/4" (82.6 - 101.6)

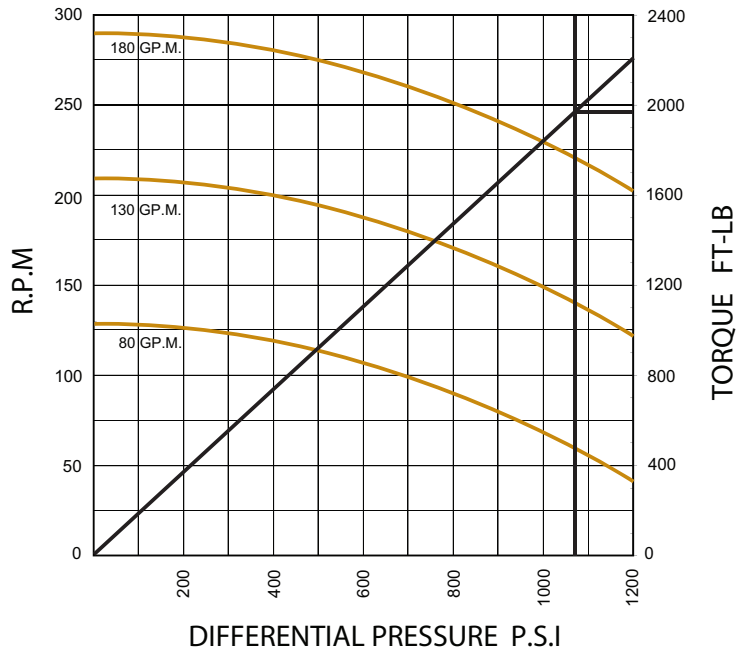
# 3 1/8" 7-8 2.5 Stg EVEN WALL MOTOR SPECIFICATIONS



<b>MUD LUBE</b>		
MAX W.O.B.		25,600 lb.
O/A LENGTH		155"
MAX. OVERPULL AND RERUN		57,000 lb.
ABSOLUTE OVERPULL		150,000 lb.
TOOL SHIPPING WEIGHT		120 lb.
<b>OIL SEALED</b>		
MAX W.O.B.		23,650 lb.
MAX. OVERPULL AND RERUN		60,000 lb.
ABSOLUTE OVERPULL		90,000 lb.

<b>OPERATING DATA</b>		
Flow Range	gpm (lpm)	110 - 210 (379 - 416)
Differential Pressure	psi (bar)	750 (51.7)
Bit Speed	rpm	147 - 281
Displacement	rev/gal (rev/L)	1.34 (.354)
Torque	ft-lbs (Nm)	1960 (2657.4)
Power	HP (Kw)	105 (78.29)
<b>PHYSICAL DIMENSIONS</b>		
Power Section Configuration	Stages	2.5
	Lobes	7-8
Overall Motor Length	ft (m)	14.1 (4.30)
Weight	lbs (kg)	420 (190.5)
Connections	Standard	Box 2 3/8" REG
	Optional	Box Upon Request
Bit size	in (mm)	3 3/4" - 5 1/2" (92.25 - 139.7)

# 3 3/4" 4-5 4.3 Stg EVEN WALL MOTOR SPECIFICATIONS

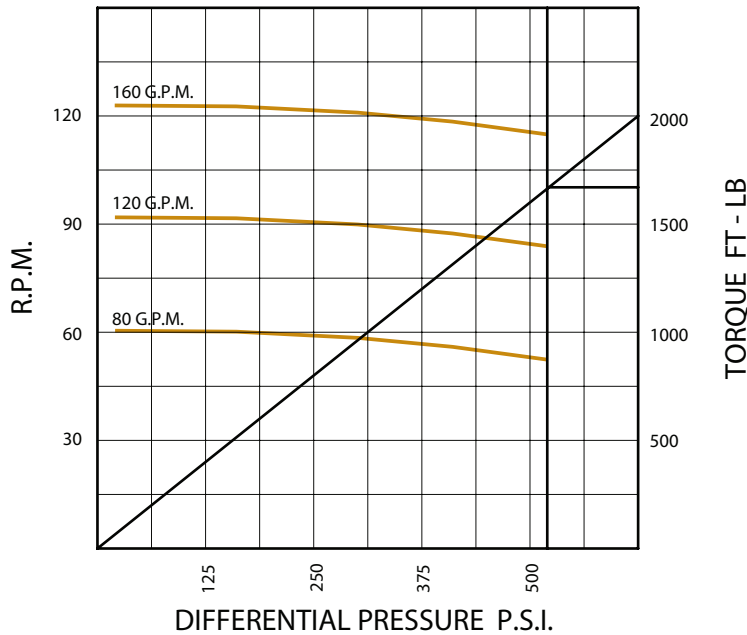


**MUD LUBE**  
 MAX W.O.B. 23,650 lb.  
 O/A LENGTH 117"  
 MAX. OVERPULL AND RERUN 103,000 lb.  
 ABSOLUTE OVERPULL 160,000 lb.  
 TOOL SHIPPING WEIGHT 45 lb.

**OIL SEALED**  
 MAX W.O.B. 26,450 lb.  
 MAX. OVERPULL AND RERUN 103,000 lb.  
 ABSOLUTE OVERPULL 165,000 lb.

OPERATING DATA		
Flow Range	gpm (lpm)	80 - 160 (303 - 606)
Differential Pressure	psi (bar)	1075 (74)
Bit Speed	rpm	129 - 290
Displacement	rev/gal (rev/L)	1.611 (.425)
Torque	ft-lbs (Nm)	1978 (2682)
Power	HP (Kw)	109 (81)
PHYSICAL DIMENSIONS		
Power Section Configuration	Stages	4.3
	Lobes	4-5
Overall Motor Length	ft (m)	19.5 (5.94)
Weight	lbs (kg)	420 (190)
Connections	Standard	Box 2 3/8" REG
	Optional	Box Upon Request
Bit size	in (mm)	3 1/4" - 4" (82.6 - 101.6)

# 3 3/4" 7-8 2.3 Stg HARD RUBBER MOTOR SPECIFICATIONS



## MUD LUBE

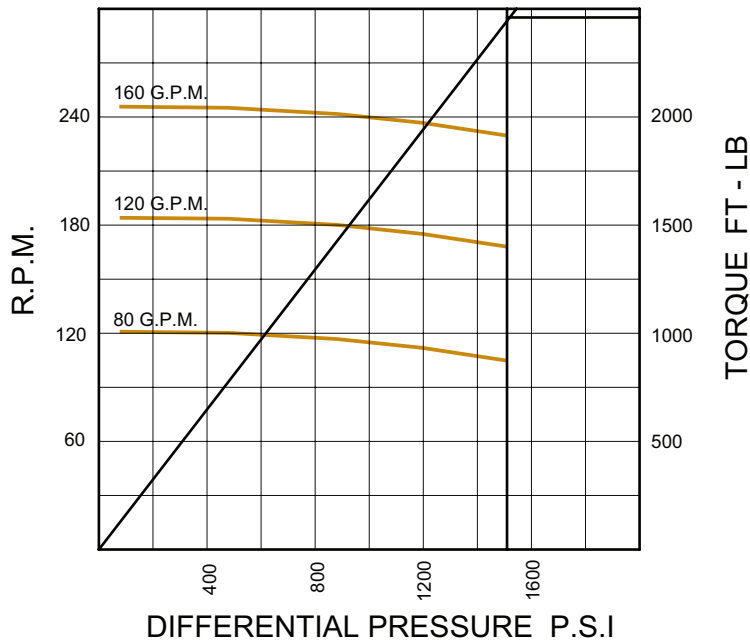
MAX W.O.B. 26,000 lb.  
 O/A LENGTH 210.0"  
 MAX OVERPULL AND RERUN 70,000 lb.  
 ABSOLUTE OVERPULL 275,600 lb.  
 TOOL SHIPPING WEIGHT 495 lb.

## SEALED BEARING

MAX W.O.B. 23,150 lb.  
 MAX OVERPULL AND RERUN 68,500 lb.  
 ABSOLUTE OVERPULL 275,000 lb.

OPERATING DATA		
Flow Range	gpm (lpm)	80 - 160 (303 - 606)
Differential Pressure	psi (bar)	525 (36.2)
Bit Speed	rpm	61 - 130
Displacement	rev/gal (rev/L)	.77 (.20)
Torque	ft-lbs (Nm)	1670 (2264.2)
Power	HP (Kw)	37 (27.59)
PHYSICAL DIMENSIONS		
Power Section Configuration	Stages	2.3
	Lobes	7-8
Overall Motor Length	ft (m)	17.5 (5.33)
Weight	lbs (kg)	495 (224.5)
Connections	Standard	Box 2 3/8" REG
	Optional	Box Upon Request
Bit size	in (mm)	3 3/4" - 4" (92.3 - 101.6)

# 3 3/4" 7-8 6.7 Stg HARD RUBBER MOTOR SPECIFICATIONS



## MUD LUBE

MAX W.O.B. 26,450 lb.  
 O/A LENGTH 250.0"  
 MAX OVERPULL AND RERUN 103,000 lb.  
 ABSOLUTE OVERPULL 165,000 lb.  
 TOOL SHIPPING WEIGHT 553.5 lb.

## SEALED BEARING

MAX W.O.B. 23,150 lb.  
 MAX OVERPULL AND RERUN 68,450 lb.  
 ABSOLUTE OVERPULL 275,000 lb.

OPERATING DATA			
Flow Range	gpm (lpm)		80 - 160 (303 - 606)
Differential Pressure	psi (bar)		1510 (104.11)
Bit Speed	rpm		129 - 260
Displacement	rev/gal (rev/L)		1.61 (.425)
Torque	ft-lbs (Nm)		2460 (3335)
Power	HP (Kw)		114 (85)
PHYSICAL DIMENSIONS			
Power Section Configuration	Stages		6.7
	Lobes		7-8
Overall Motor Length	ft (m)		20.1 (6.1)
Weight	lbs (kg)		465 (210)
Connections	Standard	Box	2 7/8" REG
	Optional	Box	Upon Request
Bit size	in (mm)		4 3/4" - 5 7/8" (120.7 - 149.9)



# Cobra Downhole Motors' new generation of small motors are specifically designed for thru-tubing completion and production applications.

Cobra Downhole Motors' new generation of small motors are specifically designed for thru-tubing completion and production applications. Cobra offers conventional and even wall power sections options for extreme drilling applications. They're available in sizes from 1-1/16 inch OD to 3-3/4 inch OD. We combine new material technology and innovative product features with a customer driven approach.

Our service and maintenance personnel are supported by a senior staff with over 50 years of experience in downhole motors.

Cobra Downhole Motors manufactures all bearing assemblies and driveshafts to the highest standards of quality. We test and re-test all of our components so that you can be assured of the most durable and highest-performing motors in the industry.

Cobra Downhole Motors assigns and maintains serial numbers for every major component it builds. Traceability is documented and maintained at every step in the manufacturing and service process. Before we deliver a motor, every part is thoroughly inspected to ensure that it meets our precise specifications.

In addition, we can provide rental, lease to purchase or purchase options with qualified training and 24/7 technical support.

## Cobra Motors

Engineered for durability and longevity, Cobra drilling motors are designed and manufactured to the most stringent, specific tolerances and are made of the highest quality materials.

The Cobra downhole motor is designed with the latest technology, utilizing "clean sheet" engineering. Our customers and their specific applications dictate our motor designs.

## Unique features and benefits of Cobra thru-tubing motors include:

- State-of-the-art design and materials technology
- Angular contact bi-directional Thrust Bearing assemblies
- Bearing Assembly that is radially supported over its entire length
- Special Tungsten Carbide Flow Restrictors – Highly resistant to wear, and inherently stronger than competitive products
- Increased reliability – No Belleville Springs: our motors will have preload on the angular contact to avoid rotation as seen in other bearing assemblies
- Bearing packs that can operate in high temperature applications, unlike oil sealed assemblies
- Rotor Catch safety device incorporated as standard
- Mandral Catch safety device



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