

**POWER TRAIN SYSTEM**

- ENGINE: 140 HP@2200 RPM WATER COOLED

**FUEL CAPACITY**

- 26.5 U.S. GALLONS

**TRANSMISSION:**

- FS-4205A

**RATIOS:**

- 1ST GEAR: 8.05:1
- 2ND GEAR: 4.35:1
- 3RD GEAR: 2.54:1
- 4TH GEAR: 1.48:1
- 5TH GEAR: 1.00:1
- REVERSE: 8.05:1

**PLANETARY GEARBOX:**

- RATIO 54:1

**AUGER DRIVE:**

- 4" & 5" HEX

**WORKING RANGE:**

- WORKING RANGE: 16" TO 48" EARTH BORING; PIPE JACKING

**Options:**

- BRAKE/DRIVE SYSTEM (SHOWN)
- AKKERMAN GUIDED BORE "READY" (NOT SHOWN)

**MACHINE TORQUE AND SPEED MAX:**

TRANSMISSION RATIOS	PLANET DRIVE RATIO	MAX TORQUE, 400 FT-LBS @1600 RPM	OUTPUT @2200 RPM
1ST GEAR 8.05	54	173,880 FT-LBS	5.0
2ND GEAR 4.35	54	93,960 FT-LBS	9.4
3RD GEAR 2.45	54	52,960 FT-LBS	16.6
4TH GEAR 1.48	54	31,986 FT-LBS	27.5
5TH GEAR 1.00	54	21,600 FT-LBS	40.0
REVERSE 8.05	54	173,880 FT-LBS	5.0

# D42/48-1.1

**MICHAEL BYRNE MANUFACTURING**

1855 EARTH BORING ROAD, P.O. BOX 444 MANSFIELD OHIO 44901

WWW.BYRNEGROUP.COM

OFFICE: (419) 525-1214

TOLL FREE: (800) 613-7206

FAX: (419) 525-2389

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**APPROX. WEGHTS:**

- TOP BASE.....9,000LBS
- BOTTOM BASE.....11,000 LBS
- MASTER TRACK.....4,300 LBS
- EXTRA TRACK.....2,900 LBS
- MASTER RING (48)...3,115 LBS
- MASTER RING (60)...4,300 LBS
- MASTER SADDLE.....300 LBS

**HYDRAULIC SYSTEM**

- PRESSURE.....5,300 PSI
- PUMP TYPE AXIAL PISTON WITH LOAD SENSING
- 2x PUMP, 34 GPM
- GALLON PER MINUTE.....68 GPM
- CYLINDERS (3) 9" BORE X 36" STROKE
- SUCTION STRAINER...100 MESH SCREEN
- PRESSURE FILTER.....10 MICRON REPLACEABLE ELEMENT
- RETURN FILTER.....10 MICRON REPLACEABLE ELEMENT
- HEAVY DUTY HYDRAULIC OIL COOLER
- MAX THRUST.....1,011,516 lbs.

**AKKERMAN GUIDED BORE ATTACHMENT**

- ASSEMBLY WEIGHT.....4,500 LBS
- CYLINDER STROKE .....48"
- OPERATING PRESSURE (MAX)...5,000 PSI
- OPERATING GRADE (MAX).....10%
- ROTATIONAL TORQUE\*\* .....10,500 ft-lbs
- JACKING FORCE.....100 TON
- PULL BACK FORCE.....50 TON
- HYDRAULIC MOTOR...THREE SPEED
- HIGH SPEED....50 RPM
- MID SPEED.....37 RPM
- LOW SPEED....25 RPM

**\*\*OUTPUT TORQUE IN LOW SPEED @5000 PSI**

