



STANDARD RIG SPECIFICATIONS 400/450

Series	“400”	“450”	“All Series”
DRAWWORKS	MAIN DRUM		SAND DRUM
Barrel Diameter	20”	20”	16 ¾”
Inside Barrel Width	37”	37”	38”
Brake Rim Diameter	42”	42”	42”
Brake Rim Width	12”	12”	8”
Brake Cooling Water	Splash	Splash	Splash
Drum Clutch – Twin Disc	224	224	224
Drum Shaft Diameter	5.75	5.75	5.75
Right Angle Box Chain	Triple 100	Triple 100	
Main Drum Inner Drive Chain	Double 140	Double 140	Triple 100
Drive Chain - Oil Bath	Yes	Yes	Yes
Wireline Size	1”	1”	9/16”
Line Capacity – 9/16”			16,000
Brake Assist	None	15 Double Hydromatic or 48” Single Disc	

NEW Detroit “60 SERIES” – TIER II (12.7 liter Turbo Charged 6 Cylinder)

CARRIER MODEL:	“400”	“450”
Horsepower		
Axles	Four	Five
Type Frame	14” I-Beam	14” I-Beam
Front Axle	42,000 lb	42,000 lb
Front Axle Suspension	LEAFSPRING	LEAFSPRING
Rear Axle	42,000 lb.	64,500 lb.
Front Tires: Bridgestone	385/55/R22.5	385/55/R22.5
Rear Tires: Bridgestone	11R – 22.5	11R – 22.5
Transmission (NEW)	Allison 5610	Allison 5610

MAST SPECIFICATIONS

DERRICK MODEL:	“400”	“450”
Height	96 FT.	96 FT.
Hook Load Rating (6-Lines)	225,000 lbs.	240,000 lbs.
Raising Cylinder	Single	Single
Telescoping Cylinder	Single	Single
Tubing Board Capacity: (Doubles)		
2-3/8”	24,000 FT.	24,000 FT.
2-7/8”	16,000 FT.	16,000 FT.
3-1/2”	9,500 FT.	9,500 FT.
4-1/2”	6,000 FT.	6,000 FT.
Rod Hanger Capacity (Triples)	15,000 FT.	15,000 FT.
Depth Rating	6,000 FT.	10,000 FT.



Manufacturing & Service, LTD.



STANDARD RIG SPECIFICATIONS 500/525/550

SERIES	“500”	“525”	“550”	“All Series”
DRAWWORKS	MAINDRUM			SAND DRUM
Barrel Diameter	20”	20”	20”	16 ¾”
Inside Barrel Width	37”	37”	37”	38”
Brake Rim Diameter	42”	42”	42”	42”
Brake Rim Width	12”	12”	12”	8”
Brake Cooling Water	Splash	Splash	Splash	Splash
Drum Clutch – Twin Disc	324	324	324	224
Drum Shaft Diameter	5.75	5.75	5.75	5.75
Main Drum Inner Drive Chain	Double 140	Double 140	Double 140	Triple 100
Drive Chain - Oil Bath	Yes	Yes	Yes	Yes
Right Angle Box Chain	Triple 100	Triple 100	Triple 100	
Wireline Size	1”	1”	1”	9/16”
Line Capacity – 9/16”				16,000
Brake Assist Choice			22 SR	
Brake Assist Choice	48” Single Disc	48” Single Disc	48” Single Disc	

NEW Detroit “60 SERIES” – TIER II (12.7 liter Turbo Charged 6 Cylinder)

CARRIER MODEL:	“500”	“525”	“550”
Horsepower	450 HP – 475HP		
Axles	Five	Five	Five
Type Frame	18” I-Beam	18” I-Beam	18” I-Beam
Front Axle	42,000 lb	42,000 lb	42,000 lb
Front Axle Suspension	LEAFSPRING	LEAFSPRING	LEAFSPRING
Rear Axle	70,500 lb.	70,500 lb.	70,500 lb.
Front Tires: Bridgestone	425/65/R24.5	425/65/R24.5	425/65/R24.5
Rear Tires: Bridgestone	11R – 24.5	11R – 24.5	11R – 24.5
Transmission (NEW)	Allison 5610	Allison 5610	Allison 5610

MAST SPECIFICATIONS

DERRICK MODEL:	“500”	“525”	“550”
Height	104 FT.	104 FT.	104 FT.
Hook Load Rating (6-Lines)	250,000 lbs.	275,000 lbs.	300,000 lbs.
Raising Cylinder	Double	Double	Double
Telescoping Cylinder	Single	Single	Single
Tubing Board Capacity: (Doubles)			
2-3/8”	24,000 FT.	24,000 FT.	24,000 FT.
2-7/8”	16,000 FT.	16,000 FT.	16,000 FT.
3-1/2”	9,500 FT.	9,500 FT.	9,500 FT.
4-1/2”	6,000 FT.	6,000 FT.	6,000 FT.
Rod Hanger Capacity (Triples)	15,000 FT.	15,000 FT.	15,000 FT.
Depth Rating	12,000 FT.	14,000 FT.	16,000 FT.



STANDARD RIG SPECIFICATIONS 600/650/700

SERIES	“600”	“650”	“700”	“All Series”
DRAWWORKS	MAIN DRUM			SAND DRUM
Barrel Diameter	20”	20”	20”	16 ¾”
Inside Barrel Width	37”	37”	37”	38”
Brake Rim Diameter	42”	42”	42”	42”
Brake Rim Width	12”	12”	12”	8”
Brake Cooling Water	Splash	Circulating	Circulating	Splash
Drum Clutch – Twin Disc	324	324	324	224
Drum Shaft Diameter	5.75	5.75	5.75	5.75
Main Drum Inner Drive Chain	Double 140	Double 140	Double 140	Triple 100
Drive Chain - Oil Bath	Yes	Yes	Yes	Yes
Right Angle Box Chain	Triple 100	Triple 100	Triple 100	
Wireline Size	1 1/8”	1 1/8”	1 1/8”	9/16”
Line Capacity – 9/16”				16,500
Brake Assist	22 SR	22 SR	22 SR	
Brake Assist Option	Double 48” Dual Disc	Double 48” Dual Disc	Double 48” Dual Disc	

NEW Detroit “60 SERIES” –TIER II (14 liter Turbo Charged 6 Cylinder)

CARRIER MODEL:	“600”	“650”	“700”
Horsepower	575 HP-630 HP		
Axles	Five (2x3)	Six (3x3)	Seven (3x4)
Type Frame	21” I-Beam	21” I-Beam	21” I-Beam
Front Axle	42,000 lb	63,000 lb	63,000 lb
Front Axle Suspension	LEAFSPRING	LEAFSPRING	LEAFSPRING
Rear Axle	70,500 lb.	70,500 lb.	84,000lb.
Front Tires: Bridgestone	425/65/R24.5	425/65/R24.5	425/65/R24.5
Rear Tires: Bridgestone	11R – 24.5	11R – 24.5	11R – 24.5
Transmission (NEW)	Allison 6160	Allison 6160	Allison 6160

MAST SPECIFICATIONS

DERRICK MODEL:	“600”	“650”	“700”
Height	104 FT.	104 FT.	108 FT.
Hook Load Rating (8-Lines)	300,000 lbs.	350,000 lbs.	400,000 lbs.
Raising Cylinder	Double	Double	Double
Telescoping Cylinder	Single	Single	Single
Tubing Board Capacity: (Doubles)			
2-3/8”	24,000 FT.	24,000 FT.	24,000 FT.
2-7/8”	16,000 FT.	16,000 FT.	16,000 FT.
3-1/2”	9,500 FT.	9,500 FT.	9,500 FT.
4-1/2”	6,000 FT.	6,000 FT.	6,000 FT.

Taller / Heavier Masts Available