










# HOSE REELS

Part Number	Description		
HR3F-59	3 - Point Hitch w/ Flat Drum Hydraulic Planetary Drive w/ 59" OD Drum <b>CAPACITY: 3 NITRILE RUBBER - 6" X 660' HOSE w/ FITTINGS</b>		
HR4F	3 - Point Hitch w/ Flat Drum Hydraulic <b>CAPACITY: 4 NITRILE RUBBER - 6" X 660' HOSE w/ FITTINGS</b>		
HR3FA	A-Frame w/ Flat Drum Reel, Hydraulic Planetary Drive, & Fork Lift Pockets <b>CAPACITY: 3 NITRILE RUBBER - 6" X 660' HOSE w/ FITTINGS</b>		
HR6F	PTO Driven Single Axle Cart Articulating		
HR6F-H	Hitch with Flat Drum		
<b>NOTE: ALL "6" REELS HAVE A MAX NITRILE RUBBER CAPACITY OF 4 - 8" HOSES OR 6 - 6" HOSES.</b>			
HR8FS	PTO Driven, Single Axle w/ Flat Drum Articulating Hitch, No Brakes		
HR8F	Level Wind Tandem Axle w/ No Brakes 12x16.5 G Rating Tires		
HR13	8 Reel Hydraulic Package Upgrade		
<b>NOTE: ALL "8" REELS HAVE A MAX NITRILE RUBBER CAPACITY OF 6 - 8" HOSES OR 8 - 6" HOSES.</b>			<b>HR8F-H Shown</b>
HR88FA	A-Frame w/ Flat Drum Reel Single Speed Hydraulic Drive Fork Lift Pockets		
HR88AG	4,500# Spindles, Tandem Axle Walking Beam No Brakes w/ Wide Tires 19.0/45-17 Single Speed Hydraulic Drive for Reel Hydraulic Level Wind w/ NO Rear Controls Open Drum Reel		
HR88-S	Single Axle High Floatation Tires Articulating Hitch Single Speed Hydraulic Drive for Reel		
HR88F	Tandem 15,000# Axles Brakes w/ Dual Wheel Low Profile Tires Single Speed Hydraulic Drive for Reel Hydraulic Level Wind w/ Rear Controls DOT Package w/ Open Drum Reel		
HR88SS	Brakes w/ 385 x 65 x 225 Super Single Tires		
<b>NOTE: ALL "88" REELS HAVE A MAX NITRILE RUBBER CAPACITY OF 8 - 8" HOSES OR 9 - 6" HOSES.</b>			
HR128-AG	Single Axle High Floatation Tires Interactive and Informative DP 200 Display Direct Drive Reel-No Chains or Sprockets Auto Tensioning Function		
<b>NOTE: THE HR128AG REELS HAS A MAX NITRILE RUBBER CAPACITY OF 12-8" OR 16-6" HOSES</b>			

## HOSE REEL ACCESSORIES

Part Number	Description	
HR11	4.5" Hose Reel Spacer Ring	
HR195	Individual Hose Divider for 4.5" (Weld-On For 8 Reel)	
HR12	Hydraulic Articulating Cylinder	
HR13	Hydraulic Drive for Reels (Tractor Hydraulic 2500 PSI - 25 GPM)	
NOTE: Hydraulic driven reels require newer tractor hydraulic system.		
HR14	PTO Drive Hydraulic Package Wet Kit for HR8F (540 or 1000 PTO)	
HR15	MEC 5000 Air Purge System, 185 CFM, 30 PSI (540 or 1000 PTO)	
HR17	180 CFM @ 100 PSI Air Purge 1000 PTO (For 8 Reel Only)	
HR18	Tandem Floating Axle with High Miler Tire (NO Brakes)	
HR191W	Electric Over Hydraulic Brakes for HR8F & HR8FP with Walking Beam	
HR191S	Electric Over Hydraulic Brakes for HR8F & HR8FP with 8000 lb. Spring Cushion Tandem Axle	
HR193	Gas Engine Drive	
HR194	Running Lights	
HR190	Fenders and Mud Flaps	
NOTE: When towing hose reel over 55 mph (Add HR196A)		
HR196A	Upgrade to High Miler Tire and Rim (Add this for Each Tire)	
HR196B	Spare Tire Bracket Holder on Back of Hose Reel	
HR196H	One Spare Tire & Rim High Miler	

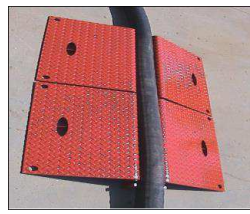
## HOSE HUMPER

Part Number	Description	
IA991-H	Universal Hose Humper	
IA991R	Hose Humper Storage Rack	

## STEEL ROAD RAMPS

Part Number	Description	Weight	
2.5JHR	2.5" Hose Protector (Set of 6)	450 LBS	
2.5RMP	2.5" Hose Protector (24"W x 33"L)	75 LBS	
4JHR	4" Hose Protector (Set of 6)	510 LBS	
4RMP	4" Hose Protector (24"W x 33" L)	85 LBS	
NOTE: Above Ramps have a 12' Width & an Over All Ramp Length of 33" (H20 Load Rating)			
6JHR	6" Hose Protector = (8 Ramps & 3 Centers)	2459 LBS	
6CTR	6" Protective Center Piece = (6.5"W x 4'L)	105 LBS	
6CTRM	6" Protective Center Piece = (Per Number of Hoses x 4')		
6RMP	Steel Ramp = (2'W x 7'9"L)	268 LBS	
8JHR	8" Hose Protector = (8 Ramps & 3 Centers)		

NOTE: Above Ramps have a 12' Width & an Over All Ramp Length to 16' (H20 Load Rating)



# HYDRO SPOOLER



For More Information go to [www.Hydro-Eng.com/products/water-transfer/hose-reels/spooler](http://www.Hydro-Eng.com/products/water-transfer/hose-reels/spooler) or call 1-800-833-5812

Part Number	Description		
HR3S	Spooler Unit with Hydraulic Drive, Anti Lash Brake, and Deployment Rack for 48" Spools		
HR3S-1	Spooler Unit with Hydraulic Drive, Anti Lash Brake, and Deployment Rack with Live Roller, and Light Kit for 51" Spools		
<b>NOTE: Spools Sold Separately</b>			
HR3RD-48	48" Open Drum Spooler Reel Assembly Capacity 660' - 8" or 10" Hose		
HR3RD-51	51" Open Drum Spooler Reel Assembly Capacity 660' - 12" Hose		
HR3RD-6R	51" Open Drum Spooler Reel Assembly Capacity 1330' - 6" Hose		
HR3RD-51x3x12	51" Divided Drum Spooler Reel Assembly Capacity 660' - 12" Hose (220' Per Slot)		


## HOSE OPTIONS


Part Number	Size / Weight / Description Working PSI / Burst PSI	Brand			Color
<b>DRAG HOSE - 660'</b>					
H4.5S	4.5" / 686 LBS / Polyurethane	ALL-AMERICAN			Brown
	150 PSI / 450 PSI				
H5S	5" / 785 LBS / Polyurethane	ALL-AMERICAN			Lime
	150 PSI / 450 PSI				
H5SB	5" / 1177 LBS / Polyurethane	ALL-AMERICAN			Brown/Orange
	PSI 300 / 900 PSI				
H530	5" / 789 LBS / Polyurethane	OROFLEX			Green
	150 PSI / 450 PSI				
H5GH	5" / 713 LBS / Polyurethane	G&H			Green
	150 PSI / 450 PSI				
H5ESC	5" / 779 LBS / Polyurethane	ESCHBOCK			Orange
	150 PSI / 450 PSI				
H5.5S	5.5" / 864 LBS / Polyurethane	ALL-AMERICAN			Lime
	150 PSI / 450 PSI				
H5.5SB	5.5" / 1252 LBS / Polyurethane	ALL-AMERICAN			Brown/Orange
	300 PSI / 900 PSI				
H5.530	5.5" / 886 LBS / Polyurethane	OROFLEX			Green
	150 PSI / 450 PSI				
H5.5ESC	5.5" / 871 LBS / Polyurethane	ESCHBOCK			Orange
	150 PSI / 450 PSI				
H6S	6" / 944 LBS / Polyurethane	ALL-AMERICAN			Lime
	150 PSI / 450 PSI				
H6SB	6" / 1407 LBS / Polyurethane	ALL-AMERICAN			Brown/Orange
	300 PSI / 900 PSI				
H630	6" / 903 LBS / Polyurethane	OROFLEX			Green
	150 PSI / 450 PSI				
H6ESC	6" / 950 LBS / Polyurethane	ESCHBOCK			Orange
	150 PSI / 450 PSI				
H6MAN	6" / 997 LBS / Polyurethane	MANDALS DRAGMAN			Lime
	150 PSI / 450 PSI				
TSX70	7" / 1419 LBS / Polyurethane	ALL-AMERICAN			Brown/Orange
	250 PSI / 750 PSI				
TSX72	7.25" / 1452 LBS / Polyurethane	ALL-AMERICAN			Brown/Orange
	250 PSI / 750 PSI				
<b>DRAG HOSE - 990'</b>					
H6GH990	6" / 1178 LBS / Polyurethane	G&H			Orange
	150 PSI / 450 PSI				

## HOSE OPTIONS

Part Number	Size / Weight / Description Working PSI / Burst PSI	Brand			Color
<b>TRAVELER HOSE</b>					
H4.5TGU	4.5" / 706 LBS / Nitrile Rubber 150 PSI / 450 PSI	OROFLEX			Black
<b>MAINLINE HOSE - NITRILE RUBBER</b>					
H6MAH	6" / 1150 LBS / Nitrile Rubber 250 PSI / 750 PSI	OROFLEX			Black
H6SA	6" / 885 LBS / Nitrile Rubber 225 PSI / 675 PSI	ALL-AMERICAN			Black
H7MAH	7" / 1400 / Nitrile Rubber 250 PSI / 600 PSI	OROFLEX			Black
H8MA2U	8" / 1350 LBS / Nitrile Rubber 200 PSI / 600 PSI	OROFLEX			Black
<b>MAINLINE HOSE - POLYURETHANE</b>					
H8HM200	8" / 1320 LBS / Polyurethane 200 PSI / 600 PSI	G&H			Black
H8MAH	8" / 1372 LBS / Polyurethane 200 PSI / 600 PSI	OROFLEX			Black
H8S	8" / 1346 LBS / Polyurethane 200 PSI / 600 PSI	ALL-AMERICAN			Black
H10MA	10" / 1650 LBS / Polyurethane 200 PSI / 600 PSI	OROFLEX			Black
H10S	10" / 1782 LBS / Polyurethane 200 PSI / 600 PSI	ALL-AMERICAN			Black
H12S	12" / 2310 LBS / Polyurethane 200 PSI / 450 PSI	ALL-AMERICAN			Black


## HYDRO SHUG GRIP COUPLER & HARDMENDER SETS

Part Number	Description		
HCSP4	<b>4" Complete Coupler Set</b>		
HCSP4.5	4.5" Complete Coupler Set		
HCSP5	5" Complete Coupler Set		
HCSP55	5.5" Complete Coupler Set		
HCS6S	6" Complete Coupler Set (Single Seg.)		
HCS6	6" Complete Coupler Set		
HCS7	7" Complete Coupler Set		
HCS8	8" Complete Coupler Set		
HCS10	<b>10" Complete Coupler Set</b>		
HCS12	12" Complete Coupler Set		


HMCS4	<b>4" Complete Hardmender Set</b>		
HMCS4.5	4.5" Complete Hardmender Set		
HMCS5	5" Complete Hardmender Set		
HMCS55	5.5" Complete Hardmender Set		
HMCS6S	6" Complete Hardmender Set (Single Seg.)		
HMCS6	6" Complete Hardmender Set		
HMCS7	7" Complete Hardmender Set		
HMCS8	8" Complete Hardmender Set		
HMCS10	<b>10" Complete Hardmender Set</b>		
HMCS12	12" Complete Hardmender Set		

## HOSE ACCESSORIES



### PIGS (BULLETS)

Part Number	Size		
TP946A	6"		
TP946	7.25		
TP947	8.5"		
TP947A	9.25"		
TP948	10"		
TP949	12"		

### MANURE BALLS

TP945R	5"		
TP946R	6.5" - 7"		
TP948R	9"		
TP949R	12"		

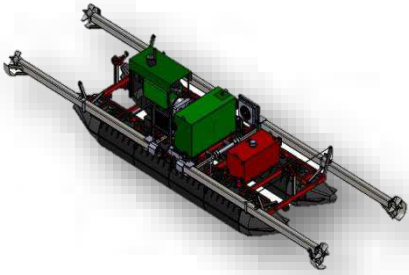
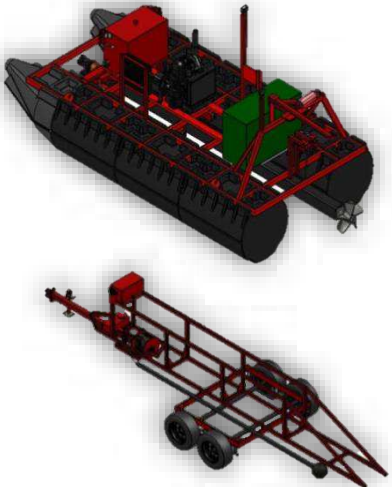
### HOSE PINCHERS

HMC1	Aluminum Hose Pincher 2" - 6" Hose		
HMC2	Steel Hose Pincher 8" - 10" Hose		
HMC3	Steel Hose Pincher 12" Hose		

# AGITATION PONTOONS



For More Information go to [www.Hydro-Eng.com](http://www.Hydro-Eng.com) or call 1-800-833-5812

Part Number	Description		
APF4-30	F4 Agitation Pontoon Includes: 4 Prop Agitation with 200 HP John Deere Engine, Remote Belly Pack Operating Controls, HID Spot Lights, & 4-30 GPM Hydraulic Prop Package.		
APF4-T	Tandem Axle Trailer with Lights, Brakes, and Hydraulic Winch.		
APF1-40	F1 Agitation Pontoon Includes: 1 Prop Agitation with 60 HP Engine Hand Held Remote Control Operating System, HID Spot Lights, & 1-40 GPM Hydraulic Prop Package.		
APF1-T	Trailer		

## PEDESTAL FRAME MOUNTED PUMPS

### CORNELL PUMPS

Part Number	Model Number	Description	
P14	4x4x14T	Double Bearing Pedestal, Oil Lube, Mechanical Seal, 14" Impeller, Suction 4" Flange - Discharge 4" Flange	
P15	4NHTB	Double Bearing Pedestal, Oil Lube Mechanical Seal, 17" Impeller, Suction 5" Flange - Discharge 4" Flange	
P15-WI	4517MP-HYB	Double Bearing Pedestal, White Iron, Oil Lube, Mechanical Seal, Suction 5" Flange - Discharge 4" Flange	
P15-CAC	4517MP-CAC	Double Bearing Pedestal, High Chrome with Oil Lube - Oil Lube Mechanical Suction 5" Flange - Discharge 4" Flange	
P16-3	6NHTC19	Double Bearing Pedestal with Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	
P16-WIMPC	6819MPC-HYB	Double Bearing Pedestal, White Iron, Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	
P16-CACPC	6819MPC-CAC	Double Bearing Pedestal, High Chrome, Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	

### PIONEER PUMPS

P30	SC64S17L1-B	Ductile Iron Construction, Bearing Oil Lube Carbide Mechanical Seal, 15.5" Impeller, 6" Suction Flange - 4" Discharge Flange, 2.5" Shaft	
P31	SC64S17L9-HO	Ductile Iron Construction, Bearing Oil Lube, Run Dry Carbide Mechanical Seal, 17" Impeller, 6" Suction Flange - 4" Discharge Flange, 2.5" Output Shaft	
P31-L6	SC64S17L6-HO	Hardened Construction, Bearing Oil Lube, Run Dry Carbide Mechanical Seal, 17" Impeller, 6" Suction Flange - 4" Discharge Flange, 2.5" Output Shaft	
P32-DI	SC86S20L71-HO	20" Impeller Pedestal Pump w/ Stainless Steel Construction, Bearing Oil Lube, Dry Run Carbide Mechanical w/ Ductile Iron	
P32	SC86S20L9-HO	Hardened Ductile, Iron Pump End, Bearing Oil Lube, Run Dry Carbide Mechanical Seal, 20" Impeller 27% Chrome Iron, 8" Suction Flange - 6" Discharge Flange, 2.5" Output Shaft	
P32-CI	SC86S20L5-HO	20" Impeller Pedestal Pump w/ Stainless Steel Construction, Bearing Oil Lube, Dry Run Carbide Mechanical Seal, & 27% Chrome	



## SAE MOUNTED PUMPS

### CORNELL PUMPS



Part Number	HP/GPM & RPM/PSI	Description	
P14-SAE2	4x4x14T	Double Bearing SAE with Oil Lube, Mechanical Seal, 14" Impeller, Suction 4" Flange - Discharge 4" Flange	
P15-SAE1	4NHTB	Double Bearing SAE with Oil Lube, Mechanical Seal, 17" Impeller, Suction 5" Flange - Discharge 4" Flange	
P15-SAE2	4NHTB	Double Bearing SAE with Oil Lube, Mechanical Seal, 17" Impeller, Suction 5" Flange - Discharge 4" Flange	
P15-WI-SAE1	4517MP-HYB	Double Bearing SAE White Iron, Oil lube, Mechanical Seal, 17" Impeller, Suction 5" Flange - Discharge 4" Flange	
P15-WI-SAE2	4517MP-HYB	Double Bearing SAE White Iron, Oil lube, Mechanical Seal, 17" Impeller, Suction 5" Flange - Discharge 4" Flange	
P15-CAC-SAE1	4517MP-CAC	Double Bearing SAE High Chrome, Oil lube, Mechanical Seal, 17" Impeller, Suction 5" Flange - Discharge 4" Flange	
P15-CAC-SAE2	4517MP-CAC	Double Bearing SAE High Chrome, Oil lube, Mechanical Seal, 17" Impeller, Suction 5" Flange - Discharge 4" Flange	
P16-3-SAE1	6NHTC19	Double Bearing SAE with Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	
P16-3-SAE2	6NHTC19	Double Bearing SAE with Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	
P16-WI-SAE1	6819MPC-HYB	Double Bearing SAE, White Iron, Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	
P16-WI-SAE2	6819MPC-HYB	Double Bearing SAE, White Iron, Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	
P16-CAC-SAE1	6819MPC-CAC	Double Bearing SAE, High Chrome, Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	
P16-CAC-SAE2	6819MPC-CAC	Double Bearing SAE, High Chrome, Oil Lube, Mechanical Seal, 19.5" Impeller, Suction 8" Flange-Discharge 6" Flange	

## SAE MOUNTED PUMPS

### PIONEER PUMPS


Part Number	Model Number	Description	
P31-SAE-DI	SC64S17L9-HO	Ductile Iron Construction, Bearing Oil Lube, Run Dry Carbide Mechanical Seal, 17" Impeller, 6" Suction Flange - 4" Discharge Flange	
P32-SAE-DI	SC86S20L71-HO	20" Impeller SAE Pump w/ Stainless Steel Construction, Bearing Oil Lube, Dry Run Carbide Mechanical w/ Ductile Iron	
P32-SAE-MID	SC86S20L9-HO	Hardened Ductile SAE Iron End, Bearing Oil Lube, Mechanical Seal, 20" Impeller 27% Chrome Iron, 8" Suction Flange - 6" Discharge Flange	
P32-SAE-CAC	SC86S20L5-HO	20" Impeller SAE Pump w/ Stainless Steel Construction, Bearing Oil Lube, Dry Run Carbide Mechanical Seal, & 27% Chrome	

## PTO PUMP TRAILER PACKAGES

Part Number	Description		
P14GR	<b>Cornell</b> 4x4x14T - 1000 PTO Trailer Suction 4" Flange - Discharge 4" Flange		
P30GR	<b>PIONEER</b> 15.5" Impeller, 1000 PTO Trailer 145 HP / 1000 GPM		
BC-65	<b>Bio-Secure Gorman Rupp T-8 Pump</b> , PTO Driven, mounted to single axle trailer. Includes; Isolator with 2.5" gauge, 8" Discharge Fitting w/ Male HSG, and 8" Male Dallai Suction Fitting		


## HUBS & DRIVE SHAFTS

### HUBS

Part Number	Model	Bore Size	
BC-109E2.00	#48 HUB (4-Bolt)	2"	
BC-109E2.25		2.25"	
BC-109E2.50		2.5"	
BC-109E9-2.25	#61 Hub (8-Bolt)	2.25"	
BC-109E9-2.50		2.5"	
BC-109E9-3.00		3"	
BC-109E9-3.50		3.5"	
BC-109E81-2.5	#81 Hub (8-Bolt)	2.5"	
BC-109E81-3.0		3"	

NOTE: BOLTS INCLUDED WITH HUBS

### SHORT COUPLED DRIVE SHAFT

BC-108E	#48 Short Couple Drive Shaft (Up to 150 HP)		
BC-108E9	#61 Short Couple Drive Shaft (Up to 290 HP)		
BC-108E81	#81 Short Couple Drive Shaft (Up to 500 HP)		
BC-110E81	Drive Shaft Guard #81 Short Shaft		
BC-110E	Drive Shaft Guard		

## ENGINES & ENGINE ACCESSORIES

### JOHN DEERE ENGINES

Part Number	Description	
E350P4T	<b>350 HP @ 2200 RPM, (6090HFC09)</b>	
E350P4T-AUX	<b>350 HP @ 2200 RPM, (6090HFC09) w/ Rear Aux Drive</b>	
E375P4T	<b>375 HP @ 2200 RPM, (6090HFC09)</b>	
E375P4T-AUX	<b>375 HP @ 2200 RPM, (6135HFC09) w/ Rear Aux Drive</b>	
E400P4T	<b>400 HP @ 2200 RPM, (6135HFC09)</b>	
E400P4T-AUX	<b>400 HP @ 2200 RPM, (6135HFC09) w/ Rear Aux Drive</b>	
E500P4T	<b>500 HP @ 2100 RPM, (6135HFC09)</b>	
E500P4T-AUX	<b>500 HP @ 2100 RPM, (6135HFC09) w/ Rear Aux Drive</b>	
E550P4T	<b>550 HP @ 2100 RPM, (6135HFC09)</b>	
E550P4T-AUX	<b>550 HP @ 2100 RPM, (6135HFC09) w/ Rear Aux Drive</b>	
E600P4T	<b>600 HP @ 2100 RPM, (6135HFC09)</b>	
E600P4T-AUX	<b>600 HP @ 2100 RPM, (6135HFC09) w/ Rear Aux Drive</b>	

### ENGINE HOOD

E76	74 HP - 115 HP Engine Hood	
E76A	300 HP - 375 HP Engine Hood	
E76B	500 HP - 600 HP Engine Hood	

### ENGINE CONTROL PANELS

40700302	EMS Pro Engine Control	
40-70-0492	Murphy MPC20 Engine Control Panel	
C3-G8300-AS	Super Pump 2 Engine Control	

### ENGINE BATTERY

8DX24	300-600 HP Engine Battery	
31P30	200-Below HP Engine Battery	
24-2	530 CCA @ 0° Battery (Honda Engine)	
24-6	700 CCA @0° Battery (Traveler)	

### ENGINE CLUTCH

SP211P101	200 HP Clutch Assembly	
SP211P201	300 HP - 375 HP Clutch Assembly	
SP214C001	500 HP - 600 HP Clutch Assembly	
BT143A	Handle Extension Weldment	

### FUEL TANKS

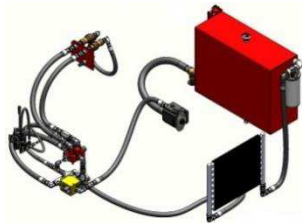
E70	225 Gallon - Includes; Baffles, Fuel Site Gauge, Aux Pump Out	
E704	400 Gallon - Includes; Baffles, Fuel Site Gauge, Aux Pump Out	
E706	600 Gallon - Includes; Baffles, Fuel Site Gauge, Aux Pump Out	
E7000	1000 Gallon - Includes; Baffles, Fuel Site Gauge, Aux Pump Out	

### SKIDS

E73U-E300P15	Engine Skid Frame for JD6090 With Cornell 17" Pumps	
E73U-E300P16	Engine Skid Frame for JD6090 With Cornell 19" Pumps	
E73U-E300P31	Engine Skid Frame for JD6090 With Pioneer 17" Pumps	
E73U-E300P32	Engine Skid Frame for JD6090 With Pioneer 20" Pumps	
E73U-E500P15	Engine Skid Frame for JD6135 With Cornell 17" Pumps	
E73U-E500P16	Engine Skid Frame for JD6135 With Cornell 19" Pumps	
E73U-E500P31	Engine Skid Frame for JD6135 With Pioneer 17" Pumps	
E73U-E500P32	Engine Skid Frame for JD6135 With Pioneer 20" Pumps	

## ENGINES & ENGINE ACCESSORIES

### ENGINE AUX DRIVE & CRANK SHAFT HYDRAULICS

Part Number	Description		
HP69	<b>15 GPM @ 2000 PSI</b> - Includes; Pump Drive, Cooler, Filters, Valves, Tank.		
HP691	<b>30 GPM @ 2900 PSI</b> - Includes; Pump Drive, Cooler, Filters, Valves, Tank.		
HP692	<b>40 GPM @ 2900 PSI</b> - Includes; Pump Drive, Cooler, Filters, Valves, Tank.		

### ENGINE FLYWHEEL DRIVE HYDRAULICS

HP694	<b>45 GPM @ 2900 PSI Crankshaft</b> - Includes; Pump, Oil Cooler, Filters, Valves, Tank.	
HP693	<b>60 GPM @ 2900 PSI</b> - Includes; Pump, Oil Cooler, Filters, Valves, Tank.	
HP697	<b>70 GPM @ 2900 PSI</b> - Includes; Pump, Oil Cooler, Filters, Valves, Tank.	

## HYDRAULIC POWER PACKAGES & CONTROLS

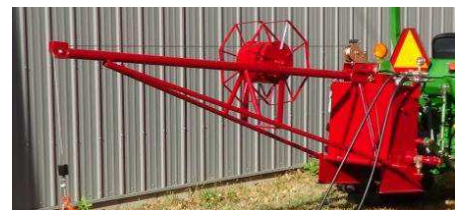
Part Number	Description	
HP69A	10 GPM Electric Drive Pump Pack	
HP69B	30 GPM Electric Drive Pump Pack	
KDW1603-19338S	20 GPM Hydraulic System with Remote & Wired Controller	
HP-PTOB40	3 Pt. Hydraulic Power Pack w/ 9' Boom, Small Hand Reel for Hydraulic Hose, Hand Winch w/ Cable and Hook, Handles up to 40 GPM Mounted to 540 PTO Shaft	



Electric Drive Pack




KDW1603-19338S




HP-PTOB40

### HYDRAULIC HOSE (Set of 2)

Part Number	Size	Length	Description	
HP64	3/4"	30'	30 GPM	
HP640	3/4"	40'	30 GPM	
HP65	1"	30'	40 GPM	
HP650	1"	40'	40 GPM	
HP652	1"	50'	40 GPM	
HP651	1-1/4"	30'	60 GPM	
HP653	1-1/4"	40'	60 GPM	
HP6540	1-1/2"	40'	70 GPM	

NOTE: ABOVE HOSES INCLUDE MPT FITTINGS

### HYDRAULIC HOSE FITTINGS

Part Number	Size	Description	
HP64A	3/4"	Female/Male Disconnects (1 Hose)	
HP65A	1"	Female/Male Disconnects (1 Hose)	
HP65D	1-1/4"	Female/Male Disconnects (1 Hose)	
HP65E2	1-1/2"	Female/Male Disconnects (1 Hose)	

## TRAILERS & BOOMS

### TRAILERS

Part Number	Description	
E71AS	<b>14'</b> , Single Axle Rail Trailer (20 MPH Maximum)	
E71A	<b>14'</b> , Tandem Axle Rail Trailer (20 MPH Maximum)	
E72	<b>16'</b> , Tandem Axle (6,000 LB Axle) Utility Trailer with Electric- Hydraulic Brakes, Lights, Mounting of Engine, Pump & Hydraulics	
E72FT	<b>16'</b> , Tandem Axle (8,000 LB Axle) 270 Gallon Tank Base Trailer w/ Electric-Hydraulic Brakes, Lights, Fenders, Manual Leveling Jacks, Mounting of Equipment	
FDW-7K-16	<b>16'</b> , Tandem 7000 lbs. Axles with Electric Brakes, Lights, Wood Deck	
NOVA ET8220	<b>20'</b> Tandem 7000 lbs. Axles with Electric Brakes, Lights, Wood Deck	
E7220	<b>20'</b> , Tandem Axle (8,000 LB Axle) Heavy Duty Trailer with Electric-Hydraulic Brakes, Lights, Mounting of Engine, Pump & Hydraulics. 3" x 6" Tubular Construction, with 12.5" x 16.5" High Miler Tires for Big Engine & Pump	
E7222-16K	<b>22'</b> Kaufman Tandem 8000 lbs. Axles with Electric Brakes, Lights, Wood Deck	
E7224	<b>24'</b> , Tandem Axle (8,000 LB Axle) Heavy Duty Trailer with Electric-Hydraulic Brakes, Lights, Mounting of Engine, Pump & Hydraulics. 3" x 6" Tubular Construction, with 12.5" x 16.5" High Miler Tires for Big Engine & Pump	
E7224T	<b>24'</b> , Tandem Axle (10,000 LB Axle) Heavy Duty Trailer with Electric-Hydraulic Brakes, Lights, Mounting of Engine, Pump, Hydraulics, and Dual Tires	
E7231	<b>24'</b> , Tri Axle (7,000 LB Axle) Heavy Duty Trailer with Electric-Hydraulic Brakes, Lights, Mounting of Engine, Pump, Hydraulics. 3" x 7" Tubular Construction, with 12.5" x 16.5" High Miler Tires for Big Engine & Pump	
E7230	<b>30'</b> , Tri Axle (7,000 LB Axle) Heavy Duty Trailer with Electric-Hydraulic Brakes, Lights, Mounting of Engine, Pump, Hydraulics. 3" x 7" Tubular Construction, with 12.5 x 16.5 High Miler Tires for Big Engine & Pump	

### TRAILER ADD-ONS

E722G	Goose Neck Trailer Option for Above Trailers	
CMP13-14145W-1	Telescoping Light Pole w/3 High Intensity Lights	
E82	Engine & Pump 3-Point Hitch Skid with 160 Gallon Base Fuel Tank	
PS40R	Rack for Trailers over 20' Long to Hold 6" Suction Hose	
PS48R	Rack for Trailers over 20' Long to Hold 8" Suction Hose	
E73F	Fenders for Truck Mounted Pumping Units	
E73H	AG7 Hitch, Installed & Brackets for Truck Mounted Pump Units (Rating: Towing 30,000 LBS, Tongue 6000 LBS, Weight 340 LBS)	
E723	Mounting Equipment on Customer's Trailer	
E723A	Ramps for Loading a 4 Wheeler	
E724	Hydraulic Down Riggers for Trailers (Set of 2)	
E724M	Manual Down Riggers for Trailers (Set of 2)	

### BOOM UNITS

EB12	12' Manual Boom	
EB34B	4' Manual Boom Extension for 38' Boom	
EBW1	Hydraulic Winch for Boom, Hydraulic Hose, Valve, Cable, Etc.	
EB34	38' Hydraulic Winch & Extension Boom (360° Turn)	
EB34A	Hydraulic Lift 27' High for Above Boom Unit	
EB55	55' Hydraulic Folding Boom, Outriggers & 6" Discharge (add pit pump)	
EB558	Add 8" Pipe to 55' Boom instead of 6" Pipe	

## DISCHARGE EQUIPMENT

### AIR PURGE

Part Number	Size	
HR1630	180 CFM @ 100 PSI (30 GPM Hydraulic Drive)	
HR1640	180 CFM @ 100 PSI (40 GPM Hydraulic Drive)	
HR16PTO	180 CFM @ 100 PSI PTO Drive Air Compressor on Wheels	



Shown Above HR16PTO

### PIG LAUNCHER

PD594P	6" Portable Pig Launcher	
PD5948P	8" Portable Pig Launcher	
PD59410P	10" Portable Pig Launcher	
PD5948	8" Attached Pig Launcher	
PD594PC10	10" Pig Catcher	
PD594W	Wheel Kit for Portable Pig Launcher	
PD594	Pig Launcher with 4" Flange x 6" Ring Lock or HSG Drop Pipe for Discharge (Includes 6" Gate Valve) If 6" Flange is Desired on 6" 45° Elbow - Add \$65.00	
PD594H	Hydraulic Controls for Pig Launcher Valve Includes; Directional Valve, Hydraulic Cylinder, & Hoses	



Shown Above  
10" Portable Pig Launcher  
w/ Wheel Kit

### AIR PURGE ACCESSORIES

Part Number	Description	
PD594-C	Air Purge Cap for Launcher with 1" Ball Valve & Air Chuck	
TP594SS	SS Air Purge Cap for Launcher w/ 1" Ball Valve & Air Chuck	
PD594SS	Add Stainless Steel Pipe to Top of Valve	
PD594L	Inline Air Purge Cap to Fit 6" HSG Coupler	
TP605E	Air Purge Cap to Fit 6" HSG Coupler w/ 1" Ball Valve & Air Chuck w/ Handle	
TP605D	Air Purge Cap to Fit 8" HSG Coupler w/ 1" Ball Valve & Air Chuck w/ Handle	
TP605F	Air Purge Plug to Fit 6" HSG Coupler w/ 1" Ball Valve & Air Chuck w/ Handle	
TP605G	Air Purge Plug to Fit 8" HSG Coupler w/ 1" Ball Valve & Air Chuck w/ Handle	

### DUMP VALVES - ISOLATORS - GAUGES

PD52	4" Flange x 6" Male HSG Coupler	
PD593	4" Flange x 6" Ring Lock or HSG Drop Pipe	
PD56	Pump Dump Valve (Tri-Action Valve in Containment (Hog Only)	
PD54-100	Isolator w/ Oil Filled 2-1/2" 0-100 PSI Gauge	
PD54-200	Isolator w/ Oil Filled 2-1/2" 0-200 PSI Gauge	
PD54-300	Isolator w/ Oil Filled 2-1/2" 0-300 PSI Gauge	
PD54-30100	Isolator w/ Oil Filled 2-1/2" Gauge 30-0-100 VAC. PSI	
PD54-30150	Isolator w/ Oil Filled 2-1/2" Gauge 30-0-150 VAC. PSI	
PD54-3060	Isolator w/ Oil Filled 2-1/2" Gauge 30-0-60 VAC. PSI	
PD54-60	Isolator w/ Oil Filled 2-1/2" 0-60 PSI Gauge	
PD54T	Transducer with Isolator (Fine Reading) Digital w/ 30' Wiring	
PD54IS	Isolator Only	
PD595	OPL200 - Gauge, Shut Down, Isolator, Bracket, Whip Hose	
OPLFC-A-200-OS	OPL200 - Gauge, Shut Down, Head Only	
PD5953	OPL300 - Gauge, Shut Down, Isolator, Bracket & Whip Hose	
PD597	20P7 0-200 PSI Gauge Shut Down w/ Isolator	

## SUCTION PUMPING EQUIPMENT

### PUMP PRIMERS

Part Number	Size	
PS45	Hand Primer & Accessories	
PS46	Exhaust Primer & Accessories	
PS46C	Continuous Prime & Accessories	
PS46E	Electric Primer (12 Volt) & Accessories (Weld On)	
PS46EP	Portable Electric Primer (12 Volt) & Accessories	
PS2010	10" x 20' PVC Suction Hose w/ Male & Female Ball Socket	
PS10A	10" x 10' Galvanized Pipe w/ Male & Female Socket	
PS42610	6" Flange x 10" Ball & Socket Eccentric	



Electric Primer (12 Volt)

### CHOPPERS

Part Number	Size	
P14BV	Vogelsang 5000 Rota-Cut Chopper & Rock Trap up to 1300 GPM. 15.9 GPM Hydraulics Required.	
P14BV10	Vogelsang 10,000 Rota-Cut Chopper & Rock Trap up to 2600 GPM. 19.8 GPM Hydraulics Needed.	



PV14BV10

NOTE: VOGELANG CHOPPERS REQUIRES 15 PSI AT INLET PRESSURE ABOVE 800 GPM

P14B	Barracuda Chopper for Cornell	
BCM	Chopper Shaft Mechanical Seals 1-1/2" + 1-1/4" Seal <b>OPTION-ADD</b>	

### SUCTION PUMPING ACCESSORIES

PS40FS	6" Camlock Male x 8" Eccentric Hose Bib	
PS42	6" MPT x 4"/5" Flange Eccentric	
PD486	Discharge 4" Flange x 8" x 8" Male HSG with 3/4" Outlet	
PS43	Isolator w/ Combination Vacuum- PSI Gauge	
PS44	Vacuum Gauge & Pig Tail	

### BOOSTER PUMP ACCESSORIES

PS42B	6" Male HSG x 6" Flange	
PS42C	6" Male HSG x 6" Camlock Male Aluminum	
PS7	Suction Side OPL - RPM Control	
PD594B	6" Bypass Set Up w/ All Hydraulic Valves	
PD594C	6" Bypass Set Up w/ Manual Valves	
PD594E	8" Bypass Set Up w/ Manual Valves	

## SUCTION PUMPING EQUIPMENT

### HP PIT PUMPS

Part Number	Size	
HP60	10 GPM Pit Pump (Open Impeller)	
HP61	18 GPM Pit Pump	
HP61B	30 GPM Pit Pump	
HP61C	40 GPM Pit Pump	
HP63	60 GPM Pit Pump	



HP61B w/ Man Hole Fitting

NOTE: ALL ABOVE PIT PUMPS DO NOT INCLUDE DISCHARGE FITTING

## SUCTION PUMPING DISCHARGE OPTIONS

### HP PIT PUMP DISCHARGE FITTINGS

Part Number	Size	
PP123D	HP60 6" X 30° Discharge	
PP123B	HP60 4" X 30° Discharge	
PP123E	HP60 6" Straight Discharge Bolt On	
PP123A	HP60 6" X 45° Sweep Elbow Discharge	
PP123C	HP60 4" X 90 Degree Discharge	
PP123	HP60 6" X 90° Discharge	
HS149-27	HP61 6" MPT 45° Mitered Discharge	
HS149-273	HP61 6" Discharge NPT Straight Out	
HS149-274	HP61 6" MPT 90° Mitered Discharge	
HS149-276	HP61 6" Manhole Discharge Fitting	
HS149-278	HP61 6" 6" Discharge Female RL 90° .	
HS149-280	HP61 6" 90 Degree Male HSG Discharge	
HS149-281	HP61 6" 90 Degree Male RL Discharge	

NOTE: HP61 DISCHARGE FITTINGS WORK WITH HP63 - ADD CAMLOCK FITTING IF NEEDED

## SUCTION PUMPING EQUIPMENT

### HP PIT PUMPS ACCESSORIES

HP60L	Agitating & Load Pipe for HP60	
HP61L	Agitating & Load Pipe for HP61	
HP61T	Suction Fittings for a Hydro Transfer Pump	
HP61CBB	Hydraulic Motor Bearing Block for HP61C	



### HUMMERS

Part Number	Description	
HP66	Super Hummer 40' - 62' Hydraulic Lift Running Gear. Doesn't Includes Pit Pump	
HP88	Super Hummer 40' - 62' Hydraulic Lift Running Gear. 8" Plumbing. Doesn't Includes Pit Pump	

Size Variations Available Upon Request

NOTE: THERE WILL BE AN UPCHARGE FOR A HYDROSTATIC SETUP



## ENGINE CONTROLS

### RADIO CONTROLS

Part Number	Description	
E78	Kill Engine Only (E300 & E300A)	
E78KH	Kill + Adjustable High - Low Engine Slow Down (Mechanical Engine Only), Kit Includes; E78, x2 E79 & PD58	
E78KH1	E300A Kill + Adjustable High - Low Engine Slow Down, & Cruise Control	
E78KH2	E300A Kill + Adjustable High - Low Engine Slow Down, & Potentiometer	
E78R	Hydraulic Power Pack 4 - 12 Volt Hydraulic Pump & Remote 4 Transmitters with a 1000 Foot Signal to Open & Close Hydraulic Valves or Dump Valve	



## ENGINE CONTROLS

### OPTIONS

Part Number	Description	
E79	Additional Decoder Functions for E78	
PD58	Adjustable High - Low Radio RPM Engine Control Includes; PD58A or B, BC174, Mounting Brackets & Wiring Harness	
PD58A	Adjustable Engine Control Box Only (Green)	
PD58B	Adjustable Engine Control Timed Relay	
BC174-L	Replacement Actuator for High-Low Throttle & Radio Control (12 Volt)	
BC175-L	Replacement Actuator for High-Low Throttle & Radio Control (24 Volt)	
E83	Hand Held Radio with Charge & Key Pad	
E83R	FM Radio with Key Pad Mic, Antenna & Plug In for Tractor	
E83RP	Tractor Radio with Programmable Mic	
E83PM	Programmable Mic Key Pad Only	
E84	Clutch Actuator and Relays: Requires 2 Functions	
<p><b>NOTES:</b> - E84 Requires 2 Function to Engage and Disengage the Clutch</p> <p>- Hydro Engineering uses Uniden FM Radios</p> <p>- Additional FM Radio, Antenna &amp; Touch Pad Microphone needed in Tractor.</p>		

### Sunova Worx

BC-2	Broadcaster 2 Engine Controller	
BC-2RC	10" Tablet with BC-2 Communication Module	
0001117A	Directional Antenna with 35 Feet Coax	
<p><b>NOTE:</b> - Pricing Includes Installation.</p>		

## INJECTION TOOL BARS

### FRONT FOLDING TOOLBARS

FF468	<b>46'</b> Front folding toolbar High Flotation Tires Low Mounted Equalizer Manifold w/18 2.5" Ports 8" Jag Swivel, Double Swivel, Main Swivels & Swing Pipe 8" Krohne Flow Meter w/ IFC 100 Display 2.5" Suction Hose 18 Dietrich Series 70 w/ 22" Coulters & 12" Sweeps on 24" Centers 8" Pig Shooter	
FF468T	<b>46'</b> Front Folding Toolbar <b>WITH 25" TRACKS</b>	
FF368	<b>36'</b> Front Folding Toolbar	
FF368T	<b>36'</b> Front Folding Toolbar <b>WITH 25" TRACKS</b>	

## INJECTION TOOL BARS

### QUICK TO QUICK HITCHES

Part Number	Description	
I824	<b>3-Point III Narrow Quick Hitch</b> with 4" Swivel	
I826	<b>3-Point III Narrow Quick Hitch</b> with 6" Swivel	
I82Q-4	<b>3-Point III Narrow Quick Hitch to Quick Hitch</b> with 4" Swivel	
I82Q-6	<b>3-Point III Narrow Quick Hitch to Quick Hitch</b> with 6" Swivel	
I82Q44	<b>3-Point IV Narrow Quick Hitch to Quick Hitch</b> with 4" Swivel	
I82Q46	<b>3-Point IV Narrow Quick Hitch to Quick Hitch</b> with 6" Swivel	

## INJECTION TOOL BARS

### SWIVEL KITS

Part Number	Description	
I80	Injector Kit <b>3pt Chisel Plow</b> or other tillage equipment	
I80P	Injector Kit <b>Pull Type Chisel Plow</b> or other tillage Equipment	
I81	Injector Kit for <b>Aerway</b>	
<b>Note: Add to above (IA992 or IA992H or TB16091A)</b>		

### TOOLBAR FRAMES

I82SBO	<b>Spray Bar for a Quick Hitch</b> 24'- 36' includes Hoses, Splash Pans	
I82SB	<b>36' Spray Bar</b> with Swivel Manifold & 12 Standard Splash Pans	
I85	<b>16'</b> Rigid Double Tool Bar with 6" Main Swivel	
I86	<b>16'</b> Folding Double Tool Bar with 6" Main Swivel	
I87	<b>20' x 10'</b> Double Tool Bar with 6" Main Swivel, Hydraulic Fold-Up Wings	
I89	<b>23' x 10'</b> Double Tool Bar with 6" Main Swivel, Hydraulic Fold-Up Wings	
I8927	<b>27' x 10'</b> Double Tool Bar with 6" Main Swivel, Hydraulic Fold-Up Wings	
I8930	<b>30' x 10'</b> Double Tool Bar with 6" Main Swivel, Hydraulic Fold-Up Wings	
I893	<b>34' x 10'</b> Double Tool Bar with 6" Main Swivel, Hydraulic Fold-Up Wings	
I893P	<b>34' Pull Type</b> Double Tool Bar with 6" Main Swivel, Hydraulic Folding Wings	
I8946	<b>46' Pull Type</b> Double Tool Bar with 6" Main Swivel, Hydraulic Folding Wings	
IA95	Tow Hitch - Field Weld to Add to Existing Bar	
<b>NOTE : All Toolbar will be Priced according to Customers Specification</b>		

### WHEEL OPTIONS & DOUBLE FOLDING WINGS

I8931	2 HD Gauge Wheels (Set of 2) 10-ply tire - 6-Bolt 3,500# Spindle	
I8931-HD	1 set of Gauge Wheels 4500# Spindle 8 Bolt	
IA995	Caster Wheels for Heavy Tool Bars & 2 Point Hitch Tool Bars	
<b>NOTE : Add 2 sets of Gauge Wheels to 23' &amp; Longer Injectors</b>		

## FEED PIPE & ACCESSORIES

### FEEDPIPE & PLUMBING OPTIONS

Part Number	Description	
IA80D4	4" Double Swivel Feed Pipe	
IA80D6	6" Double Swivel Feed Pipe	
IA80D4PS	4" Double Swivel Feed Pipe w/ Pig Shooter	
IA80D6PS	6" Double Swivel Feed Pipe w/ Pig Shooter	
IA70L	Single Manifold Mount Low on Toolbar	

### FEED PIPE ACCESSORIES

IA81F	Hydraulic Fold - Up Swing 4" Tube ONLY	
IA81F6	Hydraulic Fold - Up Swing 6" Tube ONLY	
<b>Note: *All above Feed Pipe folding options include: Hydraulic Cylinder, Flanges, &amp; Hinge Linkage</b>		
IA82	Toolbar Swing Pipe Holder	

## JAG SWIVEL

IA99B4	4" Jag Ball Bearing Swivel-Flanged - For HSG Pull Coupler (55Lbs)	
IA99B5	5" Jag Ball Bearing Swivel-Flanged - For HSG Pull Coupler (55Lbs)	
IA99B6	6" Jag Ball Bearing Swivel-Flanged - For HSG Pull Coupler (55Lbs)	
IA99B8	8" Jag Ball Bearing Swivel-Flanged - For HSG Pull Coupler (55Lbs)	

<b>FLOW METERS</b>		
<b>Standard Electrodes IFC-100</b>		
Part Number	Description	
IA91A-100	IFS 100 Krohne 4" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 100 Display	
IA916A-100	IFS 100 Krohne 6" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 100 Display	
IA918A-100	IFS 100 Krohne 8" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 100 Display	
<b>Low Noise Electrodes IFC-100</b>		
IA91A-100L	IFS 100 Krohne 4" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 100 Display	
IA916A-100L	IFS 100 Krohne 6" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 100 Display	
IA918A-100L	IFS 100 Krohne 8" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 100 Display	
<b>Standard Electrodes IFC-300</b>		
IA91A	IFS 300 Krohne 4" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 300 Display	
IA916A	IFS 300 Krohne 6" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 300 Display	
IA918A	IFS 300 Krohne 8" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 300 Display	
<b>Low Noise Electrodes IFC-300</b>		
IA91AL	IFS 300 Krohne 4" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 300 Display	
IA91BL	IFS 300 Krohne 6" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 300 Display	
IA916AL	IFS 300 Krohne 8" Magnetic Inductive Flow Meter with Cable, Quick Disconnects (65 Lbs.) & IFC 300 Display	
<b>FLOW METER HOODS</b>		
IA92H	4" Meter Protection Hood	
IA92H6	6" Meter Protection Hood	
IA92H8	8" Meter Protection Hood	
IA92	4" Flanges, Spacers and Bolts to Mount Meter Must add this to all NEW INJECTOR TOOLBARS with Meter.	
IA926	6" Flanges, Spacers and Bolts to Mount Meter Must add this to all NEW INJECTOR TOOLBARS with Meter.	
IA928	8" Flanges, Spacers and Bolts to Mount Meter Must add this to all NEW INJECTOR TOOLBARS with Meter.	

## INJECTION MANIFOLDS & ACCESSORIES

### HYDRAULIC EQUALIZER MANIFOLD & LOAD ADAPTER

Part Number	Description	
IA70-3.0	Complete Manifold w/ 3" Outlets	
IA70-2.5	Complete Manifold w/ 2-1/2" Outlets	
<b>Note: Complete Equalizer Manifold Includes: Machined Base, Cover, Equalizer Hydraulic Motor, Two 7'6" Hydraulic Hoses, &amp; Overhung Load Adapter</b>		
<b>(IA70 is to add Equalizer to Tank Wagon or Replace Older Tool Bar Manifold)</b>		
IA70A	Equalizer + Hyd Motor ONLY( 3-6 GPM ) & Two 7'6" Hyd Hoses	
IA900	Overhung Load Adapter for Equalizer Hydraulic Motor	
<b>(IA70A is to Add Equalizer to a NEW Order or Existing Machined Manifold )( ADD IA900)</b>		
<b>(A 16" Machined Manifold is needed in Order to add Rotating Equalizer to Tool Bar)</b>		
TB-16179L	Machined Manifold Lid 16" Complete with Gasket & Gasket Retainer	
TB-16179G	Machined Manifold Base, 4 Bolts, Over Center Clamps & Ports	
<b>MANIFOLD PORT SHUT OFFS</b>		
IA98	2" PVC Manifold Plug	
IA98A	2-1/2" PVC Manifold Plug	
IA98B	3" PVC Manifold Plug	
<b>NOTE: ABOVE PLUGS INCLUDE GASKET &amp; PIN</b>		
PD54T	Transducer with Isolator (Fine Reading) Digital Readout 30' Wiring	
PD54T55	Transducer with Isolator (Fine Reading) Digital Readout 55' Wiring	
PD54T75	Transducer with Isolator (Fine Reading) Digital Readout 75' Wiring	
PD54TB	Buzzer Alarm for Stopped Hydraulic Equalizer Motor	
<b>Note: (Up to 16 - 2 1/2" Outlets or 18 - 2" Outlets per Manifold)</b>		
<b>MANIFOLD AGITATOR</b>		
IA90	<b>Agitator + Hydraulic Motor (Necessary for Dairy Manure)</b>	

### INJECTOR HOSE

TB-16084	2" White & Clear Injection Hose	
TB-16084A	2 1/2" White & Clear Injection Hose	
TB16084B	<b>2" HD Injection Hose for Equalizer Units</b>	
TB16084C	<b>2 1/2" HD Injection Hose for Equalizer Units</b>	
TB16084D	<b>3" HD Injection Hose for Equalizer Units</b>	
<b>Note:</b>	<b>Hose Length Requirements</b> 16-23' Toolbars Require 100' of Hose 27-34' Toolbars Require 200' of Hose 36-46' Toolbars Require 300' of Hose Recommend 2-1/2" Hose to injector for Dairy Manure. HD Injection Hose <b>MUST</b> be used with all Equalizer Manifolds. Manifold holds up to 19 - 2 1/2" Outlets.	

## JAG SWIVEL & ACCESSORIES

### COULTERS

Part Number	Description	
IA97	Yetter 20" Spring Loaded HD Coultter Attachment for Cutting Heavy Trash	
IA97YS	Yetter Coultter with Shoe (350 Lbs.)	
IAD23	Dietrich 70 Series Less Sweep	
IAD24	Dietrich Slurry Clozr Assembly	

### TILLAGE SHANKS

IA1400	Wil-Rich 1400 lb. Trip Shank (152 Lbs.)	
IAD23-8	Dietrich 70 Series Min Till Shank with 22" Coultter - 8" Sweep	
IAD23-12	Dietrich 70 Series Min Till Shank with 22" Coultter - 12" Sweep	
TB-16001	Brillion Shank 26"	
TB-16001A	Brillion Shank 32" (Note: Yetter Coultter use)	

### SPLASH PANS & INJECTOR TUBE

IA992	Standard Splash Pan	
IA992H	Hooded Splash Pan	
TB-16099	2.5" Injection Tube	
TB-16099A	3" Injection Tube	

### STAINLESS STEEL KNIFE VALVE W/ HYDRAULIC CYLINDER

IA934	S.S. Hydraulic Manifold 4" Valve (Knife Valve for Pig Shooter) (42 Lbs.)	
IA93EDPM	S.S. Hydraulic Manifold 6" Shut-Off Valve W/ EDPM Rubber Seat	
IA938	S.S. Hydraulic Manifold 8" Shut-Off Valve W/ EDPM Rubber Seat	

## TRAVELERS

### IRRIGATION EQUIPMENT

HT1	Hydro Traveler with Hose and Manure Gun	
HT2	Hydro Traveler - Less Hose	
HTNG	Conversion Kit: Nelson 200 to Hydraulic Manure Gun	