

7.0 Hydraulics & Controls

Vendor Name:	Crysteel Truck Equipment
Contact Person:	Josh Taylor
Street Address:	1130 73rd Ave NE
P.O. Box:	
City, State, Zip	Fridley, MN 55432
Phone #:	763-571-1903
Toll Free #:	800-795-1280
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Website:	www.crysteeltruck.com

Version of Excel used: Microsoft Excel 2010

7.0 **HYDRAULICS AND CONTROLS**

Make	Force America
Warranty	1 year
Date & I.D. of Price List	7/23/2019
Discount to be applied to Price List	0%

HYDRAULICS AND CONTROL PACKAGES

Use this section to offer hydraulic and control packages. Number these options starting with 10.1, 10.2, etc., until you have listed all hydraulic and control packages.

Installation of hydraulics & control package as per MN DOT spec 7.0

See Pricing

Delivery

Delivery Starting Point Address	Fridley, MN 55432 or Lake Crystal, MN 56055
Price per loaded mile for delivery	\$2.75
Delivery Time Frame in calendar days ARO	7-210 days

Shop Rate per Hour

Shop Rate for Mechanical work	\$90.00
Body Shop Rate	\$90.00

**State of Minnesota
Pricing Page**

7.0 Hydraulics

**Force America Central Hydraulic System
Add one of each of the
following Component sections**

Complete installation	\$	3,929.53
 Must select one of the below Pump		
F-A Kit Clutch pump & CW Mills mounting kit	\$	2,118.35
 Ford 2011+ F350-F550-F650/F750 Diesel ONLY 6.7L Diesel 124% 12V Elec/Hyd 2.81cid Vane Pump 249FMLLX-BV14 PTO and Pump to run hoist and spreader. Pump is the vane unit. For diesel engine.	 \$	 3,963.62
 Ford 2016+ F650/F750 - F350-F550 6.2L-6.8L 124% Gas, 12V Elec/Hyd 2.81CID Vane Pump 249HMLLX-BV14 PTO and Pump to run a Hoist and Spreader Pump is the vane unit. For gas engine.	 \$	 4,308.28
 Must select one of the following Control Packages		
2512 cable operated system to run Hoist and Electric Sander Deduct for Powder Coated VT15	\$ \$	6,253.24 (600.00)
2512 cable operated system to run Hoist, Str. Blade Plow and Electric Sander Deduct for Powder Coated VT15	\$ \$	7,281.13 (600.00)
2512 Cable operated system to run Hoist, Boss V-Plow and Electric Sander Deduct for Powder Coated VT15	\$ \$	7,611.47 (600.00)
2010 Valve to run a D/A Hook Jib and Electric Sander 2800 PSI For Harnessing for running a DLA system For Granular closed loop	\$ \$ \$	9,146.81 844.42 996.87
2010 Valve to run a D/A Underbody Hoist, Boss V-Plow and Electric Sander	\$	9,906.40
Valve to run a D/A Underbody Hoist, Western V-Plow and Manual Sander For QDS 12 VDC Sander Valve	\$ \$	6,018.34 225.36
2010 Valve to run Hoist, Western V-Plow and Electric Sander 3250 PSI Deduct for Powder Coated VT15	\$ \$	9,906.40 (600.00)
2010 Valve to run Hoist only Deduct for Powder Coated VT15 For Single Joystick Control For Two Joystick Control	\$ \$ \$ \$	4,525.68 (600.00) 1,796.22 1,944.69
2010 Valve to run Hoist and Electric Sander Deduct for Powder Coated VT15	\$ \$	7,150.42 (600.00)

2010 Valve Hoist, Str. Blade and Electric Sander 3250 PSI	\$	8,181.76
Deduct for Powder Coated VT15	\$	(600.00)
For Remote Joystick to run Hoist & Plow w/ interface for 5100EX Salter Control	\$	563.39
1081725 One Valve System less pump or PTO	\$	6,210.55
1070055 One valve system less pump or PTO Stainless Steel VT12 and electric contr.	\$	7,085.47
2512 Cable operated system to Run Hoist only 3250 PSI	\$	3,721.29
Deduct for Powder Coated VT15	\$	(600.00)
2512 cable operated system to run Hoist and Manual Sander	\$	4,495.72
Deduct for Powder Coated VT15	\$	(600.00)
For QDS 12 VDC sander valve	\$	225.36
2512 cable operated system to run Hoist, Str. Blade Plow and Manual Sander 3250 PSI	\$	5,652.20
Deduct for Powder Coated VT15	\$	(600.00)
For QDS 12 VDC Sander Valve	\$	225.36
V20 valve for Hoist only 3250PSI	\$	1,562.12
V20 valve for Hoist and Manual Sander	\$	2,535.66
For QDS 12 VDC Sander Valve	\$	225.36
		Fridley, MN 55432
		or Lake Crystal, MN
		56055
Delivery starting Point		
Price per loaded mile for delivery	\$	2.75

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7.0 **HYDRAULICS AND CONTROLS**

Make	Certified Power Inc. Hydraulics
Warranty	1 year
Date & I.D. of Price List	8/20/2019
Discount to be applied to Price List	0%

HYDRAULICS AND CONTROL PACKAGES

Installation of hydraulics & control package as per MN DOT spec 7.0	See Pricing
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Delivery

Delivery Starting Point Address	Fridley, MN 55432 or Lake Crystal, MN 56055
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Shop Rate per Hour

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Body Shop Rate	\$90.00

**State of Minnesota
Pricing Page**

7.0 Hydraulics

Certified Power Inc. Hydraulics

Complete installation	\$	4,081.03
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PTO's and Pumps:

		Price
442KXBQX-W6XK--PTO for GMC 4500/5500/6500 w/ auto transmission (uses standard pump)	\$	788.75
P330A242XLAB20-25--Pump for Standard installations (Allison Transmissions, GMC Applications)	\$	689.33
272RCKUP-B3**--PTO/PUMP for Dodge chassis (Floor panel removal req'd)	\$	2,478.92
249HMLLX-B4**--PTO/Pump for Ford F250-550 Gas Engine	\$	2,909.75
249FMLLX-B4**--PTO/Pump for Ford F250-550 Diesel Engine	\$	2,571.71
380418-20--High Flow and Pressure Pump for Ford PTO Applications (20 Gpm @ 3500 Psi)	\$	1,425.05
Auto PTO Disengage--Automatic PTO Disengage on Auto transmissions	\$	563.39

Reservoirs:

MTRA2153000006--15 gallon frame mounted reservoir, temp/sight gauge	\$	291.64
MTRA2203000004--20 gallon, steel, frame mounted reservoir, temp/sight gauge	\$	351.29
MTRA2203000001--20 gallon, steel, frame mounted reservoir, temp/sight gauge, tank mount filter	\$	755.61
MTRA2303000008--30 gallon, steel, frame mounted reservoir, temp/sight gauge	\$	424.20
MTRA3303000003--30 gallon, stainless steel, frame mounted reservoir, temp/sight gauge, tank mount filter	\$	2,386.13
50044A-710N--Filter, Side Mount/Spin On, 10 Micron	\$	72.91

Underhood Hydraulic Systems:

FMK264A-8-5.5--Underhood pump and mounting kit for Ford Chassis (Diesel Only)	\$	2,326.47
FMK265A-8--Underhood pump and mounting kit for Ford Chassis w/ Dual Alternator (Diesel Only)	\$	2,121.00
CMK261A-I6--Underhood pump and mounting kit for GM 3500 Chassis (Diesel Only)	\$	1,458.19
CMK39A-I6--Underhood pump and mounting kit for Chevy/GM Chassis (6.0L Gas Only)	\$	1,345.51
DMK59A-I6--Underhood pump and mounting kit for Dodge Truck (Diesel Only)	\$	1,405.16
CP31520-515376-RR0S Single section ~ 3200 PSI Underhood Mount Pump	\$	782.12

Hydraulic Options:

S-12--Manual Activated hydraulic selector valve (-12 SAE ports)	\$	212.10
CP521-21-B-10S-12D-AJ-0414--Electric Solenoid Activated hydraulic selector valve	\$	304.89
RDDA-RD112--Flow Control and Inline Relief for Tooling Circuit	\$	245.24
SG04090006--Standalone Electric Spreader Manifold - Auger/Spinner Only	\$	927.94
MTCA320100026--15 Gallon Steel Valve Tank Combo w/ Hoist, Auger/Spinner Manifold, Tank Mount Filter	\$	6,442.54
N/A--Adder For additional Valve Sections (up to 4)	\$	702.58
N/A--Adder For Stainless Steel Enclosure	\$	1,431.68
RD51-SA1D-RVC96--Cable Operated Hoist Valve w/ Power Beyond Port, External Mount (Controls Incl)	\$	371.18

Control Options:

SG03020030--Manual Activated dual flow control valve (Dual Knob)	\$	457.34
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SG03020031--Electric Solenoid Activated dual flow control valve (Dual Knob w/ 12VDC Bypass)	\$	662.81
SG03010077--Pedestal for Dual Flow Sander control valve	\$	132.56
Freedom 2.0--Kit Freedom 2.0 Spreader Control w/ Mounting Bracket and Main Harness	\$	927.94
Freedom 2.1--Kit Freedom 2.1 Spreader Control w/ Mounting Bracket and Main Harness	\$	1,080.38
Freedom 2.2--Kit Freedom 2.2 Spreader Control w/ Mounting Bracket and Main Harness	\$	1,352.14
FC2020005--Freedom MDC Controller w/ 2 Joysticks and Six Switches (No Spreader Control Incl)	\$	2,863.35
FC2230002--Freedom MDC Controller w/ 3 Joysticks, Six Button Touchguard (No Spdr Cntrl Incl)	\$	3,605.70

**Fridley, MN 55432 or
Lake Crystal, MN
56055**

Delivery starting Point

Price per loaded mile for delivery

\$ 2.75