

TRUCK & TRAILER *Specialties, Inc.*

900 Grand Oaks Drive | Howell, MI 48843 | www.ttspec.com | ph: (517) 552-3855 | fx: (517) 552-3666

December 15, 2021

City of Rochester Hills
511 East Auburn Road Rochester Hills, MI 48307
Attn: Nick Watterson, ph: (248) 808-0774

Equipment Quotation

Pricing based on RFP-RH-20-023 Tandem Axle Truck

Each major item is based on pricing submitted for RFP. City staff have determined items for build.

Install Crysteel 14' Select Dump Body including the following:

- 11-13 cubic yard capacity
- 168" length, 87" inside width, 58" front height, 36" side height, 42" rear height
- Single panel, pressed-in horizontal side braces
- 7 gauge 201 stainless steel front, sides and rear pillars
- ¼" AR400 floor
- Western 10" I-beam type understructure
- Air-operated tailgate
- 18" wide rear pillar
- 9-panel tailgate design constructed of 7 gauge type 201 stainless steel
- Tailgate finger latches and pivot plate are stainless steel construction
- 8" floor-to-sides radius
- 10 gauge x 24" cabshield constructed of 7 gauge type 201 stainless steel
- Body prop kit on each side of the frame
- Install 4-hole tapered stainless steel light boxes mounted on rear pillar posts
- Install chain slot holders on tailgate
- Install 8" hardwood sideboards
- Install side-mounted ladder, fold-down on streetside front with interior dump step
- Install one (1) shovel holder & one (1) rake holder, both on streetside bulkhead
- Install mudflaps in front of and behind the drive tires
- Install Cougar model 3200 DC box vibrator
- Bottom of the body, body hinge, body props and attaching hardware painted Black

Install Mailhot CS130-5.5-3 DA Telescopic Hoist including the following:

- Greaseable rear hinge and replaceable rear pin
- Hoist is double-acting and trunnion-mounted
- Remote Grease extension kit for hoist fittings and oscillating collar

Install Roll-Rite Electric Tarp System 64000 including the following:

- Aluminum tarp and tension arms with offset elbows
- Aluminum tarp housing
- Direct-drive motor
- 20ft mesh-type tarp cover

Install Central Hydraulic System including the following:

- Rexroth** front-mounted load-sense piston pump = A10VO100DFR
- Pump is 100cc displacement
- Front bolt-on crossmember for pump mounting
- Spicer 1310 drive line with companion flange for easy removal
- Low oil shutdown valve and override circuit

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Rexroth 8m4-12 mid inlet load-sense hydraulic valve with pressure-compensated flow controls for the following functions:

- EPC section for scraper up/down with load-sense limit
- EPC section for scraper swing
- EPC section for front plow
- EPC section for front plow angle
- EPC section for dump box hoist with 500 PSI A- port load sense limit
- EPC section for auger
- EPC section for spinner
- EPC section for pre-wet
- Power-beyond end cover for blade saver circuit

Blade saver hydraulic valve will be installed in the front plow lift circuit

All hoses are Parker 387 Tough cover hose

Parker SH series Stainless steel hydraulic couplers for spreader circuit disconnect and plow-reverse circuit

Install Monroe 44-gallon Hydraulic Oil Reservoir/Valve Enclosure Combination unit including the following:

Type 201 stainless steel construction (mos. 00155229-B & 15570)

Mounted behind cab above frame with ship and car channel mounting brackets

Tank-mounted Zinga-type return filter

2" suction line with a 100-mesh suction strainer

Ball valve shutoff on hydraulic tank for case drain and suction ports

18" Low oil sensor mounted inside the tank

44-gallon oil capacity, filled with 35 gal AW32 hydraulic oil

Tank is full of AW32 hydraulic oil

Sight gauge/Temperature gauge

Tank label

Stainless steel step installed on the end of the tank

Install Monroe Underbody Scraper Leg Kit and plumbing kit including the following:

Mounting hardware

(2) ¾" x 35" wide solid hanger plates/legs

Includes all plumbing to the scraper

Install Rexroth CS550 Electric Spreader Controller including the following:

Touch screen

Closed-loop operation for spreader, spinner and pre-wet operations

Programmable blast and pause

Data download and programming is with a thumb drive

WiFi & GPS capable to integrate with CS550 controller

Install Rexroth CS150 Electric Joystick Controller including the following:

Arm-type mounting unit or pedestal mount

6 button control includes: 1 button for pause, 1 button for hoist, 1 button for plow up/down and swing,

1 button for scraper up/down and swing, 1 button left open

Control console switches for: power float on/off, tailgate (switch-lock type), tarp in/out and low oil override/shutdown

Low-oil and body-up indicator lights

Console to be standard size

System is laptop programmable

System also includes automatic "up-in-reverse circuit" for the scraper when chassis is in reverse

Adjustable accessory bracket for Motorola mobile radio location on counsel

Install Monroe QCP Loop Plow-Portion Front Hitch including the following:

Channel front bumper with steps and tapered ends

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Stainless steel open grating in area between bumper and grille, over the pump
Two (2) stainless steel gripstrut stirrup steps, one on each side of bumper
Relocate front tow hooks, mounting on kicker legs
4" DA lift cylinder with Socatri rod
Pressure-release valve for plow swing mounted on street side behind bumper
All necessary supports and braces
Includes stainless steel couplers and hoses for plow swing

Install Custom Lighting & Electrical including the following:

Utilize chassis 6 upfitter switches for the following
Truck flashers, scraper work lights & spreader work lights
Indicator lights for: low oil (red), body-up (amber) in joystick armrest
Six (6) SoundOff LED mPower (mo. EMPC2SMS4) amber/green flashers mounted in the following:
Two (2) on cabshield, front-facing
Two (2) at bottom of cabshield, one each side-facing
Two (2) at rear side facing one each side
Junction box mounted on front of the dump body for front four (4) flashers on cabshield
Four-hole tapered stainless steel light boxes mounted at rear pillar posts including:
Two (2) SoundOff LED amber flashers mounted in bottom leftside/top rightside holes
Two (2) SoundOff LED STT lights mounted in 2nd holes
Two (2) SoundOff LED backup lights mounted in 3rd holes
Two (2) SoundOff LED green flashers mounted in top leftside/bottom rightside holes
Two (2) 4" Weldex LED work lights mounted above the scraper
Two (2) 4" Weldex LED work lights mounted below the spreader assembly
LED marker lights on rear corner of dump, 3-light cluster mounted by the hinge
Install Maxxima LED MaxxHeat Heated Headlights (mo. MHLE-07HILO-MH)
Install Grote LED Heated Plow Lights (mo. GR-84661-4) with aluminum brackets mount at 68" from base of lights to ground
Proximity switch for dump body-up light
Betts junction box mounted at the rear of the dump body
Backup alarm included

Price includes prep & paint of all non-stainless material, front bumper, frame rails as needed & dump underside.

Installed pricing: \$90,085.00 ea.

Install Monroe 10' model MP41R10-CT Full Moldboard Trip Reversible Plow including the following:

10' long x 41" high moldboard
3/16" roll-formed moldboard
Six 1/2" x 4" tapered one-piece flame-cut ribs
2" x 3" x 3/8" top moldboard angle
4" x 4" x 3/4" bottom moldboard angle
Horizontal moldboard brace angles
Dual compression-trip spring assemblies
4" x 4" x 3/8" cross-tube support; full-width with 6-point attachment
3-1/2" x 3-1/2" x 1/2" semi-circle; additional angle braces to ends of front push tube
Two 4" x 10" double-acting power-reverse cylinders with 2" nitrided rods
Built-in Monroe level-lift assembly with single chain pick
Moldboard and pushframe 100% continuously welded
Powder-coated with the moldboard Orange and a Black pushframe
3/4" x 8" x 10' one-piece top-punch cutting edge
12" x 10' rubber deflector with steel retainer bar, installed
QCP plow-portion hitch installed, weld-on

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Pair Monroe 42" cable markers

Pair Monroe wrap around curbguards with carbide wear strip installed, one on each side

Installed pricing: \$9,386.00 ea.

Install Monroe 10' model MS4510 Underbody Scraper including the following:

1" thick x 20" high moldboard

½" thick hanger board with grease manifold brackets installed

2-1/2" O.D. hinge shaft

Two heavy-duty shock absorbers

Bolt-in trunnion caps for canisters; Outer arm remains bolt-on style

Two 3-1/2" x 10" actuating cylinders; Socatri rods

Cushion valve

1" solid circle with 5" center pin

Center pin is piloted into hanger board

Two 4" x 12" reversing cylinders; Socatri rods

Three hinge anchor points

Stainless Steel Hydraulic pipes for actuating cylinders

20.5" x 7" poly hold-down blocks

Parts-installation manual

Remove remote lube manifolds and grease lines in prep for Groeneveld system

Installed pricing: \$12,038.00 ea.

Install Monroe model MS966-OW-GB Undertailgate Spreader including the following:

Type 201 stainless steel construction

Stainless steel anti-flow cover and spill kit included

6" auger with one-way flighting and 4" flight spacing for left-end discharge

5:1 gear box with direct-mounted motor

Application-rate sensor built into auger motor

Extended integral side plates on spreader

Spinner motor includes a seal-saver kit with grease zerker

Trough-hung self-leveling spinner with 18" poly spinner disc

Includes Schedule 40 stainless steel pipe running to rear of truck for auger, prewet, spinner and return oil

Stainless steel hydraulic disconnects with dust cap and plugs

Install Monroe Closed-Loop Pre-Wet System including the following:

One (1) 120 gal poly pre-wet tank behind cab (measuring 36" long x 60" high x 14" wide)

Secured on the passenger side with stainless steel mounting brackets, next to hydraulic tank

Hydraulic driven motor/pump motor with application rate sensor installed inside a poly enclosure, and mounted alongside the frame

Stainless steel piping to the rear for pre-wet liquid

Nozzle bar mounted inside the auger trough

One-way check in the pre-wet hose with a Y-type strainer

Ball valve shut-off on pre-wet tank

All weather pack connectors for electrical disconnects

Bulk fill and flusher kit included

Installed pricing: \$14,098.00 ea.

Install Groeneveld Automatic Greasing System including the following:

Groeneveld EP-0 Automatic Grease System for tandem axle chassis with standard dump body with telescopic hoist and underbody scraper

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60cc pneumatic pump in lieu of standard 42cc
Standard 4-liter reservoir
Custom fabricated pump mount bracket to fit equipment configuration
LED indicator display in cab area
Green light on when system is in pump mode
Yellow light on when low level grease switch is triggered. Will shut off pump until reservoir is refilled
Red light warning if system should have a cycle with no back pressure
Timer to accommodate light warning in lieu of standard
Pump to accommodate light warning in lieu of standard
Includes 42 total points on equipment
Includes 34 total points on chassis
All necessary plumbing, manifolds for front suspension, rear suspension, king pins, slack adjusters, s-cams, clevis pins, tie rods, draglink, spring pins, underbody scraper, tarp bearing, dump body & telescopic hoist

Installed pricing: \$7,620.00 ea.

HQ0002411

Install Rearview Camera with Wash System including the following:

M.S. Foster & Associates Inc. system, mounted on top of light wedge, streetside
System tying into chassis wiper fluid reservoir
Chassis wiper controls for activating wash system, momentary in-cab switch for air puffer
Air puffer & washer fluid tubing
VCMS20B color camera
CEC34L1 main cable for monitor
VOSHD6MNT LCD monitor mount
MSF5000 stainless steel camera box
VOM719WP 7" LCD color monitor

Install Rear Hitch Assembly including the following:

¾" rear hitch mounting plate (no chassis STT light cutouts)
PH30 Pintle hook, multi-drill pattern – 30-ton rated height 24" to cradle
Rear tow hooks to outside of frames
D-rings for safety chain
7-way RV plug
7-way round pin plug
Remount chassis Glad Hands

Install Electric Brake Controller

Install Minimizer (mo. FKRTL2B-MIN) floor mat kit for Freightliner

Install Two (2) SoundOff LED mPower (mo. EMPC2SMS4) amber/green flashers mounted in chassis grille

Install the following upgrades to MS4510 Underbody Scraper including:

Install Kennametal single-insert carbide cutting edges
Install Kennametal carbide curbguards, both ends of moldboard
Install serrated step on end of moldboard, streetside

Paint All body underfloor, frame attachments, hoist, front hitch and rear hitch assembly Black All stainless steel material non-painted

Installed pricing: \$5,130.00 ea. (Adds not listed in contract)

Above total installed pricing: \$138,357.00 ea.

Chassis requirements to be confirmed prior to order entry:

CT: 135"

SCR and DPF mounted under the passenger's door

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50 gallon fuel tank mounted under the driver's door
Battery box behind the cab on the left side of the frame- mount box as far rearward as possible
DEF tank mounted behind the fuel tank on left side of frame
Plow light/Headlight switch and related OEM wiring
Delete OEM front bumper
Front frame extension
Front of engine PTO provision
Stationary grille
6 dash-mounted analog switches for lighting functions
High ground clearance for scraper package
Trailer pre-wiring to rear for air & electrical brake controller

Minimum full 1-year warranty on parts and labor on all equipment.

Payment Terms: Net 30. Pricing effective for 30 days.

Pricing does not include any of the Rochester Hills RFQ discounts that may be applicable.

2% discount off total taken at invoice if payment received within 30 days.

FOB: City of Rochester Hills

Delivery: 360 days ARO, depending on chassis arrival

Thank you for the opportunity to quote.

Respectfully submitted by,
Jon Luea/Brian Bouwman