



Street Sweepers
MODOT Bid # 3-120223RJ
Opening Date: February 23, 2012 – 2:00 P.M.

NOTES and CLARIFICATIONS OF TYMCO BID

Automatic Lubrication System – The TYMCO Model 600 BAH does not have grease zerks therefore an automatic lubrication system is not required and not supplied on TYMCO *REGENERATIVE AIR* Sweepers.

Control Panel – Is center mounted for ease of operator use.

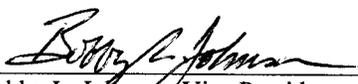
Accessories – TYMCO is bidding our abrasion protection package that includes additional replaceable wear liners to protect sweeper and hopper.

Safety Systems – TYMCO is bidding alternating flashing warning lights-LED on the tailgate right and left side in lieu of the flush mounted strobes.

Arrow Board – TYMCO is bidding the Wanco WB6-LED MoDOT specification truck mounted Wanco. On the 500x, 435 and 210 we are bidding Arrow Stik-LED because of the small area to mount onto.

Truck Chassis- TYMCO bids all of our standard premium truck specifications and upgrades from 31,000 pound GVWR to the 32,000 pound GVWR to meet the MoDOT specifications. The Models 435 and 210 use the GVWR stock TYMCO chassis for their applications.

Stainless Steel Hopper- TYMCO is bidding our maximum corrosion and salt spray resistance industrial grade, non-magnetic, low carbon, high chrome stainless steel 304 and 201 stainless steel. The components made of stainless steel exceed the specifications.



Bobby L. Johnson, Vice President of Marketing
TYMCO, Inc.

February 22, 2012
Date

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) 600 BAH

Price: \$ 196,404.00

Cab/Chassis

Make International Model 4300 M7

Engine IH MaxxForce 7

Electrical System

Amps 120 volts 12

Sweeper (Regenerative or Vacuum) Regenerative

Auxiliary Engine

Engine John Deere 4045T - Tier 3

Cylinders 4

HP/RPM 99 @ 2400

Size of fuel tank 50

Water System: gpm 5 psi 25

Tank size 220 Gallons

Brooms (Hydraulic or Mech.) Hydraulic

Under Body Transfer Broom

Dimensions 12" x 79" Operation In Cab Controls/On Demand

Gutter Broom

Qty 2 Dimensions 43"

Hopper Size (Material) 7.3 cub. yds (6)

Hopper Dump Height 36"

Please indicate and list any additional options and its pricing you want to offer:

<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>AHH Nozzle Extension 42"</u>	\$ <u>470.00</u>
2. <u>Air Purge</u>	\$ <u>188.00</u>	6. <u>Dump Switch in Cab</u>	\$ <u>188.00</u>
3. <u>Aux.Hand Hose 8" dia</u>	\$ <u>1,128.00</u>	7. <u>Aux.Engine Block Heater</u>	\$ <u>188.00</u>
4. <u>Aux.Hand Hose Hyd.</u>	\$ <u>2,726.00</u>	8. <u>(Delete)Variable Speed G. B.</u>	\$ <u>(705.00)</u>

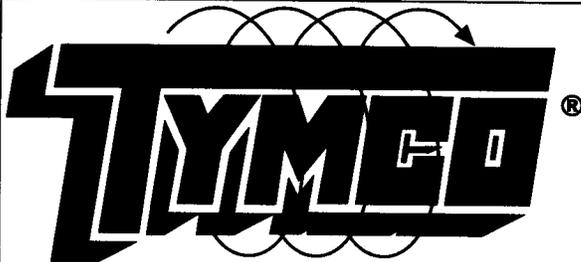
Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
 TYMCO Model 600 BAH Options – Continued

<u>Number</u>	<u>Option</u>	<u>Price</u>
9	Sweeper Deluge System	\$846.00
10	Hopper Drain System	\$470.00
11	Hopper Load Indicators - Delete	(\$376.00)
12	Hopper Screen – Chip Seal	\$517.00
13	Hyd. Oil Restriction Indicator	\$188.00
14	Reverse Pick-Up Head Chains	\$376.00
15	Stainless Steel Hopper (Delete)	(\$13,500.00)
16	Stainless Steel Bolt On Blower Housing (Delete)	(\$1,000.00)
17	Stainless Steel Chip Seal Screen (Exchange w/Stainless Steel Screen)	\$875.00
18	Stainless Steel Hopper Drain (Exchange)	\$1,880.00
19	Sweeper Odometer	\$564.00
20	Truck Air Dryer	\$850.00
21	Arrow Stik – LED(Traffic Directing Light)	\$1,100.00
22	Truck Engine Block Heater	\$360.00
23	Parabolic Mirror 12” (Exchange)	\$60.00
24	D.D.G.B. (Each)	\$822.50
25	Delete – MODOT Arrowboard	(\$2,100.00)
26	Delete – Broom Assist Head BAH	(\$3,750.00)
27	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
28	Delete – Strobe Light Each	(\$250.00)
29	Delete – ASI	(\$1,000.00)
30	Hi/Low Washdown	\$1,365.00
31	COMDEX Package	\$4,410.00
32	Delete – 32,000 lb. (std. 31,000 lb) GVW	(\$100.00)
33	CAT 290 – Pump	\$940.00
34	Delete – Yellow Paint Mfg. Std. White	(\$2,000.00)
35	Pick-Up Head Curtain Lifter	\$1,410.00
36	Tier 4 John Deere Auxiliary Engine (Exch)	\$11,000.00
37	Auxiliary Fuse Panel	\$258.50


 Bobby L. Johnson, Vice President of Marketing
 TYMCO, Inc.

February 21, 2012
 Date



REGENERATIVE AIR SWEEPERS



Conventional Cab Chassis

MODEL 600® REGENERATIVE AIR SWEEPER® / GENERAL SPECIFICATIONS

SWEeper AUXILIARY ENGINE

EngineJOHN DEERE 4045T, 4 cyl. (Tier 3)
 Displacement 275 cubic inches (4.5L)
 Horsepower99 @ 2,400 RPM (74 kW)
 Net torque.....261 ft-lb @ 1600 RPM (354 Nm)
 Air cleaner, heavy duty Dry type
 Oil filter, spin on Full flow
 Auxiliary engine shutdown system

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
 Purpose Creates blast and suction
 Bearings (2) sealed lifetime lube, anti-friction
 Bolt-on housing Abrasion resistant, replaceable liner
 Drive Heavy duty power band

DUST SEPARATOR

TypeCyclonic, multipass, centrifugal separation
 Size 20" x 61" cylindrical area (508mm x 1549mm)
 Location Axial to blower within hopper super structure
 Particulate removal Through 61" (1549mm) skimmer slot into hopper
 Inspection Hinged door, opened from hopper exterior
 Housing Abrasion resistant, w/replaceable wear resistant liner

HOPPER

Capacity (volumetric)7.3 cubic yards (5.6 m³)
 Capacity (useable)6 cubic yards (4.6 m³)
 Construction Welded steel plate with integral stiffeners
 Floor angle22°
 Dump door opening 84" x 44" I.D. (2134mm x 1118mm)
 Dumping method Hydraulic with raker bar
 Dumping height 36" (914mm)

PICK-UP HEAD

Function Air blast and suction chamber
 Width87" I.D. (2210mm)
 Head area.....2,610 sq. inches (1.68m²)
 BAH® area 3,567 sq. inches (2.3m²)
 Suspension4 springs, 2 drag links
 Skids..... DUO-SKIDS®
 Suction & pressure hose..... 14" diameter (356 mm)
 Pressure bleeder Integral for leaf/light material pickup

GUTTER BROOM, DUAL Patented

Standard equipment includes floodlight and parabolic mirrors
 Drive Constant speed non-reversible hydraulic motor
 Adjustment..... Adjustable for down pressure, pattern and wear
 Down pressure Automatically adjusts to requirement

Flexibility All directions integral anti-damage "swing away" relief valve
 Broom43" dia. (1.1 m) steel wire, vertical digger

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 Drive (diesel) Gear driven from auxiliary engine
 Drive (CNG)..... Belt driven from auxiliary engine
 Capacity.....8 GPM (30.3 LPM)
 Reservoir 25 gal. (94.6 L) with 80 mesh suction strainer, sight/temperature gauge, cooler
 Filter..... 10 micron in-line

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust suppression
 Pump Electric diaphragm
 Reservoir(s) Polyethylene 220 gal. (832.7 L) with hydrant fill hose
 Filter 80 mesh in-line
 Low water shut-off Safety shut-off with low water warning light in cab coupled with liquid level sensor
 Spray nozzles:
 Around pick-up head 4
 Gutter brooms (each) 2
 Hopper (inside) 1

CONTROLS

Inside cab (lighted) Pick-up head, gutter broom(s), ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for dust control system), all safety lights, hour meter, pressure bleeder
Outside cab Dump
Steering Dual

SAFETY WARNING DEVICES

Amber rear mounted alternating flashing warning lights
 Amber beacon light with limb guard
 Back up alarm

OPTIONAL EQUIPMENT

Abrasion protection package
 Auxiliary fuse panel
 Auto Sweep Interrupt
 Auxiliary hand hose 8" dia. (203 mm)
 Auxiliary hand hose hydraulic boom assist
 Auxiliary hand hose catch basin cleaning package
 Auxiliary hydraulic system
 Broom Assist Pick-up Head (BAH®)
 Compressed Natural Gas (CNG) powered
 Extra water capacity - COMDEX® or Cabover
 Dustless - (Model DST-6®)
 Gutter broom tilt adjuster(s) (right, left or both)
 Gutter broom variable speed
 Gutter broom Drop-Down
 Hi/Low pressure washdown system
 High output water system
 Hopper deluge system
 Hopper drain system

Hose reel, 50' retractable
 Liquid recovery system
 Low emissions package
 Magnet
 Pick-up head curtain lifter
 Pick-up head deluge - (BAH®)
 Propane LPG powered
 Rear camera / monitor system
 Reverse pick-up head system
 Runway Sweeper - Model HSP®
 Stainless Steel Hopper
 Color (other than TYMCO standard white)

Special options are available for your individual requirements. Contact your local dealer or TYMCO.

CAB/CHASSIS

Minimum Requirements

Model International 4300 M-7
 GVW31,000 lbs. (14,074 kg)
 Frame 50,000 PSI
 Engine MaxxForce 7 389 CID (6.4 L) V8 Diesel - 220 HP
 Transmission..... Allison 2500 RDS series 6 speed automatic w/external oil filter
 Alternator 120 amp
 Batteries(2) 12V 1300 CCA
 Wheelbase..... 165" (4191 mm)
 Fuel tank 50 gal. (189 L) shared with sweeper
 Tires (2-front, 4-rear)..... Tubeless 11R x 22.5
 Steering (Dual) Integral power assisted with tilt
 Brakes Dual Air w/ 13.2 CFM air compressor
 Instruments & lights Full package as required, back-up alarm
 Dual gauge package
 Mirrors Electric remote controlled and heated
 Air conditioned cab
 AM/FM stereo radio
 Consult factory for sweeper specifications and other available truck chassis.

GENERAL

SWEEPING WIDTH

Pick-up head only87" (2210 mm)
 With 1 gutter broom 110" (2794 mm)
 With 2 gutter brooms 142" (3606 mm)

OVERALL DIMENSIONS (Approximate)

Length.....261" (6629 mm)
 Width96" (2438 mm)
 Height @ truck* 118" (2997 mm)
 Height less beacon light 103" (2616 mm)
 Empty weight* 17,195 lbs (7806 kg)
 Weight (sweeper)* 7,980 lbs (3622 kg)

*Dimensions and weight may vary with equipment.

1-800-258-9626
www.tymco.com

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2/21/12

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This product is protected by numerous U.S. and Foreign Patents

Specifications subject to change without notice.



**2013 STANDARD MODEL 600/HSP
CONVENTIONAL TRUCK**



Photo shown with Optional COMDEX Package

**INTERNATIONAL 4300-M7 SPECIFICATIONS
31,000 LB. GVW
2010 EMISSION CERTIFIED**

2/12

International MaxxForce 7 Diesel Engine - 220 HP @ 2600 RPM; 560 lb-ft Torque
165" Wheelbase; 98" Cab to Axle
Allison 2500 RDS-P 6-Speed Automatic Transmission w/Double Overdrive, Less PTO with Synthetic Oil and
Transmission Temperature Gauge in Cab
10,000 lb. Front Axle with Dust Shields
21,000 lb. Rear Axle, Single Speed (7.17 Ratio) Optional: 2 Speed (Ratio: 7.17/9.77)
10,000 lb. Front Suspension
31,000 lb. Vari-Rate Rear Suspension w/4,500 lb. Auxiliary Rubber Springs
Integral Power Assisted Steering, Cruise Control and 18" Tilt Steering Wheel
Air Cleaner – Service Protection Element w/Restriction Indicator in instrument panel
Dual Air Brakes w/13.2 CFM Air Compressor – Rear brake chambers relocated to rear for adjustment access
Cab – Upgraded Deluxe with optional exterior grab handles for easier entry
Adjustable, Individual High Back Air Seats (National 2000) w/Lumbar Support and cloth inserts for operator comfort
12 Volt Heavy Duty Batteries - (2) 1300 CCA Total Maintenance Free
Alternator - 120 Amp
AM/FM Stereo Radio and Clock
(6) 11R x 22.5 Tubeless Tires - Duals in Rear
(6) 10 Hole Disc Wheels - 22.5 x 8.25 DC
Dome Light and Tinted Glass, All Windows
Cigar Lighter/Power Source and Pre-Trip Exterior Light Cycle
Windshield Wipers, 2 speed, with Electric Washers
Instrument Panel – Flat
Voltmeter, Temperature, Fuel, Tachometer, and Oil pressure Gauges
Odometer with Hour Meter
Frame - 13.42 SM (50,000 PSI) with Special Frame Piercing
Exhaust System Single, Horizontal; After-treatment Device & Right Side Horizontal Exhaust
51 Gal. Fuel Tank – Provided by TYMCO
Air Conditioner w/Fresh Air Filters (primary and secondary) for cab filtration
Remote Controlled Heated and Electric Mirrors (2)
Color: White

Fontaine Dual Sit Down Drive Installed at Fontaine Modification – REQUIRED
**Fontaine "TYMCO Specifications" include: Tilt steering wheel; full IH flat instrument panel
gauge package and RH side electric mirror controls.**

***NOTE: The TYMCO Standard Premium Truck Specifications offer the customer ergonomic,
safety, service and operational value.***

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) 600 BAH

Price: \$ 212,654.00

Cab/Chassis
 Make UD Model 3300
 Engine MD 7.6L
 Electrical System
 Amps 105 volts 12
 Sweeper (Regenerative or Vacuum) Regenerative
 Auxiliary Engine
 Engine John Deere 4045T - Tier 3
 Cylinders 4
 HP/RPM 99 @ 2400
 Size of fuel tank 50
 Water System: gpm 5 psi 25
 Tank size 330 Gallons
 Brooms (Hydraulic or Mech.) Hydraulic
 Under Body Transfer Broom
 Dimensions 12" x 79" Operation In Cab Controls/On Demand
 Gutter Broom
 Qty 2 Dimensions 43"
 Hopper Size (Material) 7.3 cub. yds (6)
 Hopper Dump Height 36"

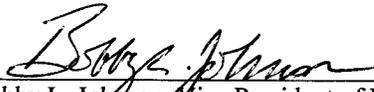
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2. <u>Air Purge</u>	\$ <u>188.00</u>	6. <u>Dump Switch in Cab</u>	\$ <u>188.00</u>
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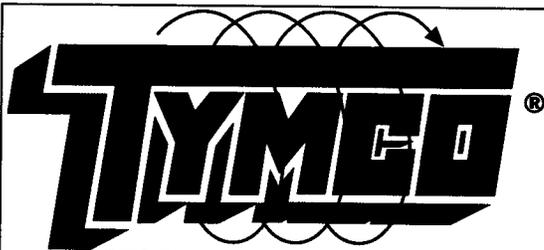
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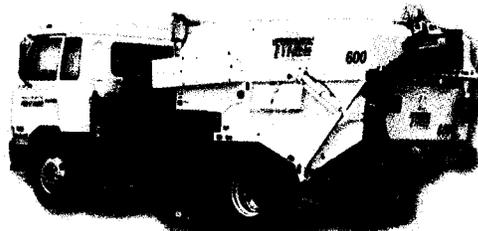

 Bobby L. Johnson, Vice President of Marketing
 TYMCO, Inc.

February 21, 2012
 Date



REGENERATIVE AIR SWEEPERS

MODEL 600® REGENERATIVE AIR SWEEPER® / GENERAL SPECIFICATIONS



Cabover Chassis

SWEEPER AUXILIARY ENGINE

EngineJOHN DEERE 4045T, 4 cyl. (Tier 3)
 Displacement 275 cubic inches (4.5L)
 Horsepower 99 @ 2,400 RPM (74 kW)
 Net torque 261 ft-lb @ 1600 RPM (354 Nm)
 Air cleaner, heavy duty Dry type
 Oil filter, spin on Full flow
 Auxiliary engine shutdown system

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
 Purpose Creates blast and suction
 Bearings (2) sealed lifetime lube ,anti-friction
 Bolt-on housing Abrasion resistant,
 replaceable liner
 Drive Heavy duty power band

DUST SEPARATOR

TypeCyclonic, multipass, centrifugal separation
 Size 20" x 61"
 cylindrical area (508mm x 1549mm)
 Location Axial to blower within
 hopper super structure
 Particulate removal Through 61"
 (1549mm) skimmer slot into hopper
 Inspection Hinged door, opened
 from hopper exterior
 Housing Abrasion resistant,
 w/replaceable wear resistant liner

HOPPER

Capacity (volumetric)7.3 cubic yards
 (5.6 m³)
 Capacity (useable)6 cubic yards
 (4.6 m³)
 Construction Welded steel plate
 with integral stiffeners
 Floor angle 22°
 Dump door opening 84" x 44" I.D.
 (2134mm x 1118mm)
 Dumping methodHydraulic with raker bar
 Dumping height36" (914mm)

PICK-UP HEAD

Function Air blast and suction chamber
 Width87" I.D. (2210mm)
 Head area 2,610 sq. inches (1.68m²)
 BAH® area 3,567 sq. inches (2.3m²)
 Suspension4 springs, 2 drag links
 Skids DUO-SKIDS®
 Suction & pressure hose 14" diameter (356 mm)
 Pressure bleeder Integral for
 leaf/light material pickup

GUTTER BROOM, DUAL Patented

Standard equipment includes floodlight and
 parabolic mirrors
 Drive Constant speed
 non-reversible hydraulic motor
 Adjustment Adjustable for
 down pressure, pattern and wear
 Down pressure Automatically
 adjusts to requirement
 Flexibility All directions integral
 anti-damage "swing away" relief valve

Broom43" dia. (1.1 m)
 steel wire, vertical digger

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 Drive (diesel)Gear driven from auxiliary engine
 Drive (CNG) Belt driven from auxiliary engine
 Capacity8 GPM (30.3 LPM)
 Reservoir 25 gal. (94.6 L) with 80 mesh suction
 strainer, sight/temperature gauge
 Filter 10 micron in-line
 Cooler

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust
 suppression
 Pump Electric diaphragm
 Reservoir(s) Polyethylene 330 gal. (1249 L)
 with hydrant fill hose
 Filter80 mesh in-line
 Low water shut-off Safety shut-off
 with low water warning light in cab coupled with
 liquid level sensor
 Spray nozzles:
 Around pick-up head 4
 Gutter brooms (each) 2
 Hopper (inside) 1

CONTROLS

Inside cab (lighted) Pick-up head,
 gutter broom(s), ignition and tachometer (auxiliary
 engine), voltmeter, low water warning system (for
 dust control system), all safety lights, hour meter,
 pressure bleeder
Outside cabDump
 SteeringDual

SAFETY WARNING DEVICES

Amber rear mounted alternating flashing
 warning lights
 Amber beacon light with limb guard
 Back up alarm

Cabover mounting includes:

Storage/toolbox46" x 16" x 34"
 Access platform

OPTIONAL EQUIPMENT

Abrasion protection package
 Auto Sweep Interrupt
 Auxiliary fuse panel
 Auxiliary hand hose 8" dia. (203 mm)
 Auxiliary hand hose hydraulic boom assist
 Auxiliary hand hose catch basin cleaning package
 Auxiliary hydraulic system
 Broom Assist Pick-up Head (BAH®)
 Dustless - (Model DST-6®)
 Extra water capacity
 Gutter broom tilt adjuster(s)(right, left or both)
 Gutter broom variable speed
 Gutter broom Drop-Down
 Hi/Low pressure washdown system
 High output water system

Hopper deluge
 Hopper drain system
 Hose reel, 50' retractable
 Liquid recovery system
 Low emissions package
 Magnet
 Pick-up head curtain lifter
 Pick-up head deluge (BAH®)
 Rear camera / monitor system
 Reverse pick-up head system
 Runway Sweeper - Model HSP®
 Stainless Steel Hopper
 Color (other than TYMCO standard white)

Special options are available for your individual requirements. Contact your local dealer or TYMCO.

CAB/CHASSIS - Cabover Minimum Requirements

Model UD3300
 GVW32,900 lbs. (14,937 kg)
 Frame 51,200 PSI
 EngineMD 230 diesel engine, 230
 HP @ 2500 RPM, 506 lb-ft @ 1500 RPM
 Transmission Allison 2500 RDS-P automatic w/
 Overdrive, Less PTO
 Alternator 105 amp
 Batteries 12V dual 1300 CCA
 Wheelbase150" (3810 mm)
 Fuel tank 50 gal. (189 L)
 shared with sweeper
 Tires(2-front, 4-rear)
 Tubeless radial 11 R x 22.5, 14 ply
 Steering - Dual with gaugesFull power
 Brakes Full air w/ 20.8 CFM
 air compressor
 Instruments & lights Full package as required,
 back-up alarm
 Mirrors Western remote controlled and heated
 Air conditioned cab
 AM/FM CD stereo radio
 Consult factory for sweeper specifications and other
 available truck chassis.

GENERAL SWEEPING WIDTH

Pick-up head only87" (2210 mm)
 With 1 gutter broom110" (2794 mm)
 With 2 gutter brooms142" (3606 mm)

OVERALL DIMENSIONS (Approximate)

Length270" (6858 mm)
 Width96" (2438 mm)
 Height @ truck*118" (2997 mm)
 Height beacon light 103" (2616 mm)
 Empty weight* 18,140 lbs (8236 kg)
 Weight (sweeper)* 7,980 lbs (3622 kg)

*Dimensions and weight may vary with equipment.

1-800-258-9626
www.tymco.com

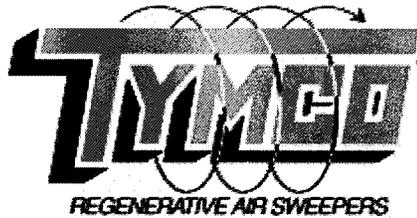
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AQMD PM₁₀ Certified

This product is protected by numerous U.S. and Foreign Patents.

Specifications subject to change without notice.



**UD TRUCK
UD3300 SPECIFICATIONS
(32,900 LB. GVW)
'07 EMISSION CERTIFIED**



STANDARD CABOVER TRUCK – MODEL 600

1/10

MD-230 Diesel Engine - 230 HP @ 2500 RPM; 506 lb-ft Torque @ 1500 RPM
150" Wheelbase; 118" Cab to Axle
Allison 2500 RDS-P Automatic Transmission w/Overdrive, Less PTO
11,900 lb. Front Axle
21,000 lb. Rear Axle, Single Speed (6.17 Ratio) [Optional 2 speed 5.86/8.17]
11,900 lb. Front Suspension
21,000 lb. Rear Air-Ride Suspension
Integral Hydraulic Power Assist Steering; Tilt and Telescopic Steering Column
Cruise Control
Donaldson Air Cleaner
Dual Air Brakes w/20.8 CFM Air Compressor
Adjustable, Individual High Back Air Seats w/Cloth covers
Power Windows and Door Locks
Keyless entry
12 Volt Heavy Duty Batteries - (2) 1300 CCA Total Maintenance Free
Alternator - 105 Amp
AM/FM Stereo Radio w/CD Player
(6) 11R x 22.5 Tubeless Tires - Duals in Rear
(6) 10 Hole Disc Wheels - 22.5 x 8.25 DC
Tinted Glass, All Windows
Dome Light
Power Source, terminal type 2-post
Windshield Wipers, 2 speed, intermittent with Electric Washers
Voltmeter, Temperature, Fuel, Tachometer, and Oil pressure Gauges
Odometer with Hour Meter
Frame – 26.60 in.³ SM (51,200 PSI); 1,362,000 lb. in. RBM
50 Gal. Fuel Tank
Tilt/Telescopic Steering Columns – both sides
Air Conditioner
Remote Controlled Heated and Electric Mirrors
Color: White

Fontaine Dual Sit Down Drive Installed at Fontaine Modification - **REQUIRED**
Power Windows and Door Locks

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) DST-6

Price: \$ 275,607.00

Cab/Chassis

Make UD Model 3300

Engine MD 7.6L

Electrical System

Amps 105 volts 12

Sweeper (Regenerative or Vacuum) Regenerative

Auxiliary Engine

Engine John Deere 4045T - Tier 3

Cylinders 4

HP/RPM 99 @ 2400

Size of fuel tank 50

Water System: gpm 5 psi 25

Tank size 220 Gallons

Brooms (Hydraulic or Mech.) Hydraulic

Under Body Transfer Broom

Dimensions 12" x 79" Operation In Cab Controls/On Demand

Gutter Broom

Qty 2 Dimensions 43"

Hopper Size (Material) 7.3 cub. yds (6)

Hopper Dump Height 36"

Please indicate and list any additional options and its pricing you want to offer:

<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>Delete: Variable Speed GB</u>	\$ <u>(705.00)</u>
2. <u>Aux. Hand Hose Hyd.</u>	\$ <u>2,726.00</u>	6. <u>Hopper Screen-Chip Seal</u>	\$ <u>517.00</u>
3. <u>AHH Nozzle Extension 42"</u>	\$ <u>470.00</u>	7. <u>Hyd. Oil Restrictor Indicator</u>	\$ <u>188.00</u>
4. <u>Aux. Engine Block Heater</u>	\$ <u>188.00</u>	8. <u>Reverse Pick-Up Head System</u>	\$ <u>Standard</u>

Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
 TYMCO Model DST-6 Options – Continued

<u>Number</u>	<u>Option</u>	<u>Price</u>
9	Auxiliary Fuse Panel	\$258.50
10	Stainless Steel Hopper – DELETE	(\$13,500.00)
11	Tier 4 John Deere Auxiliary Engine	\$11,000.00
12	Stainless Steel Chip Seal Screen (Exchange)	\$875.00
13	Stainless Steel Hopper Drain (Exchange)	\$1,880.00
14	Sweeper Odometer	\$564.00
15	Truck Air Dryer	\$850.00
16	Arrow Stik – LED(Traffic Directing Light)	\$1,100.00
17	Truck Engine Block Heater	\$360.00
18	D.D.G.B (Each)	\$822.50
19	Parabolic Mirror 12” (Exchange)	\$60.00
20	Delete – MODOT Arrowboard	(\$2,100.00)
21	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
22	Delete – Strobe Light Each	(\$250.00)
23	Delete Yellow Paint – Mfg. Std. White	(\$2,000.00)
24	Pick-Up Head Curtain Lifter	\$1,410.00


 Bobby L. Johnson, Vice President of Marketing
 TYMCO, Inc.

February 21, 2012
 Date



Environmental Technology Verified and Licensed

Model DST-6® Dustless Sweeping Technology / General Specifications

AUXILIARY ENGINE: John Deere Tier 3 turbocharged diesel 4045T; 4 cyl.; 4.5 L (275 CID); 99 HP @ 2400 RPM; Torque 261 ft. lb. @ 1600 RPM; 4 cycle; 4.19" bore; 5.00" stroke.

ABRASION PROTECTION PACKAGE: Standard hopper screen; protective hopper wall liners; suction nozzle liner; pressure wear pads; heavy duty pressure hose.

AMBER HIGH POWERED STROBE LIGHT: Field selectable flash patterns via an internal jumper for quad flash or double flash, diagnostic indicator, photocell for automatic "night" mode switch, RFI protection, 2 amps a 12 VDC, output of 19 Joules (quad flash mode).

AUTOMATIC SHUTDOWN SYSTEM: Automatic engine shutdown when engine coolant temperature is too high, coolant level too low, or oil pressure is too low.

AUXILIARY HYDRAULIC SYSTEM: Electrically operates hydraulic system without auxiliary engine.

BROOM ASSIST PICK-UP HEAD (DST-6®) with DUO SKIDS and removable front curtain set

BLOWER, Rubber Lined: Aluminum alloy, high volume open face turbine; Stainless Steel blower housing with bolt in wear resistant replaceable liner.

DUAL STEERING: Right and left hand steering wheels with center mounted truck ignition; headlights, dimmer switch, windshield wipers; integral power, dual gauges.

DUMP SWITCH IN CAB: Additional dump switch on control panel to activate dump operation from inside cab.

DUST CONTROL with HI/LOW PRESSURE WASHDOWN SYSTEM and HIGH OUTPUT WATER SYSTEM: 220 gallon capacity polyethylene water reservoir(s); belt driven triplex piston pump delivering minimum of 3.5 gpm; low water warning light; external water level indicator; gutter broom(s) and inside hopper nozzles. Self-contained water supply, a spray gun with trigger control and two interchangeable lance lengths of 48" and 36". Additional nozzles and deflectors strategically located to control extreme dust.

(Additional water capacity NOT available)

DUSTLESS FILTRATION SYSTEM: An external mounted modular filtration system constructed of 10 and 12 gauge steel shall be provided to clean all exhausted air. The filter module shall have a minimum 14ft³ dust retention hopper and four (4) filters with a filtration efficiency rating of 99.999% on 0.5-micron particles. Filters shall have a long service life and shall

provide excellent performance in moist, hygroscopic and agglomerative applications and may be cleaned with a low-pressure water rinse. In the dry sweeping mode the filtration system shall not be affected when encountering intermittent wet conditions such as rain puddles, lawn sprinkler standing water or moisture from melting snow and ice. All controls for efficient sweeping applications shall be automatic and require no operator adjustments. Filter cleaning shall be accomplished with intermittent air pulse provided by a belt driven, liquid cooled engine lubricated air compressor having a minimum 13.2 CFM @ 1200 RPM. A shop air connection shall be provided for filter cleaning without use of sweeper power unit. Includes dust box deluge washout system.

HIGH CAPACITY DUST SEPARATOR

HOPPER: Welded steel plate construction with integral stiffeners; Capacity 7.3 cubic yards volumetric, 6 cubic yards useable; dump door opening 84" x 44", dumping method hydraulic with raker bar.

HOPPER DELUGE SYSTEM: High volume system attaches to fire hydrant to flush hopper.

HOPPER DRAIN SYSTEM: Allows sweeper to operate in wet conditions by draining water picked up.

HOPPER LOAD INDICATORS: Sensor with audio and visual indicators in cab that signal full load.

HOPPER SUCTION PARTITION HYDRAULIC TANK SIGHT/TEMPERATURE GAUGE: External; mounted on tank.

INSTRUMENTS IN CAB: Oil pressure/coolant temperature gauges; starter; ignition; tachometer; auxiliary engine hour meter; throttle. Paddle switches have illuminated legend windows for easier night operation.

LINEAR ACTUATOR THROTTLE

REAR FLOODLIGHTS (2)

REAR MOUNTED ALTERNATING/FLASHING LIGHTS (2)

REVERSE PICK-UP HEAD SYSTEM

SEVERE WEATHER WIRING

SUCTION INLET LINER

TWIN GUTTER BROOMS, FLOODLIGHTS,

PARABOLIC MIRRORS with TILT

ADJUSTERS and VARIABLE SPEED:

Left and right side mounted 43" diameter wire filled digger type with in cab control to allow operator to manipulate pitch of vertical diggers to compensate for changing curb lines; adjustable floodlight for each gutter broom; 8" convex mirrors.

WATER FILL HOSE & RACK: Flexible 20 foot long water tank fill hose with 2-1/2 inch hydrant coupling with rack mount. System incorporates air gap.

STANDARD TRUCK: UD3300 Cabover chassis, 32,900 lb. GVW.

ENGINE: Nissan MD-230 Diesel, 230 HP @ 2500 RPM; Max Torque: 506 ft-lb. @ 1500 RPM; Donaldson air cleaner

TRANSMISSION: Allison, 2500 RDS-P Automatic Transmission w/Overdrive, Less PTO

FRONT AXLE: 11,900 lb. capacity with 11,900 lb. front suspension.

REAR AXLE: 21,000 lb. capacity with 21,000 lb. capacity air suspension (single speed 6.17 ratio).

TIRES/WHEELS: (6) 11R x 22.5 Tubeless Tires - Duals in rear, on 10-hole Disc wheels - 22.5 x 8.25 DC.

FRAME: 26.60 in.³ SM (51,200 PSI); 1,362,000 lb. in. RBM; 150" wheelbase; 118" cab to axle.

BRAKES: Dual Air w/20.8 CFM Air Compressor.

STEERING: Integral hydraulic power assist; Tilt and Telescopic steering column; Fontaine Dual Sit Down drive installed at Fontaine Modifications - REQUIRED.

BACK-UP ALARM:

ELECTRICAL: (2) 12v heavy duty maintenance free batteries (1300 CCA total). Alternator - 105 Amp

CAB: Tilt; tinted safety glass; electric horn; electric intermittent wipers with washers; remote controlled and heated western mirrors (2); AM/FM CD stereo radio; voltmeter, power windows and door locks; keyless entry; cruise control; dome light; power source, terminal type 2-post; temperature, fuel, tachometer and oil pressure gauges; odometer with hour meter; seats: adjustable, individual high back air seats w/cloth covers.

FUEL TANK: 50 gallon (shared with sweeper).

AIR CONDITIONER: In-cab mounted.

OVERALL DIMENSIONS (APPROXIMATE)

Length.....270" (6858 mm)
Width.....96" (2348 mm)
Height.....118" (2997 mm)
Height, less strobe light...103" (2616 mm)
Empty weight*.....18,795 lbs (8533 kg)
Weight (sweeper)*.....9,580 lbs (4349 kg)

**Dimensions and weight may vary with equipment.*

Consult Factory for Options

AQMD PM₁₀ Certified

1-800-258-9626

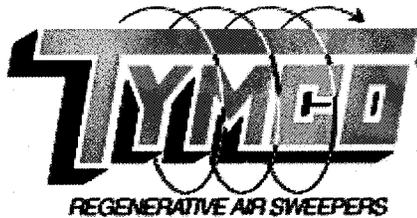
www.tymco.com

11/6/11

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This product is protected by numerous U.S. and Foreign Patents

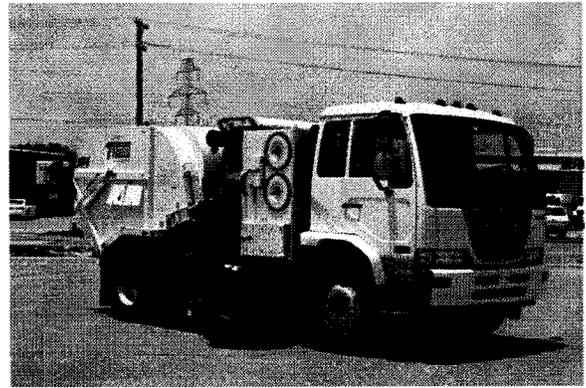
Specifications subject to change without notice.



STANDARD MODEL DST6 CABOVER TRUCK

UD3300
SPECIFICATIONS
(32,900 GVW)

2007 Emission



STANDARD CABOVER TRUCK – DST6

1/10

MD-230 Diesel Engine - 230 HP @ 2500 RPM; 506 lb-ft Torque @ 1500 RPM
150" Wheelbase; 118" Cab to Axle
Allison 2500 RDS-P Automatic Transmission w/Overdrive, Less PTO
11,900 lb. Front Axle
21,000 lb. Rear Axle, Single Speed (6.17 Ratio) [Optional 2 speed 5.86/8.17]
11,900 lb. Front Suspension
21,000 lb. Rear Air-Ride Suspension
Integral Hydraulic Power Assist Steering; Tilt and Telescopic Steering Column
Cruise Control
Donaldson Air Cleaner
Dual Air Brakes w/20.8 CFM Air Compressor
Adjustable, Individual High Back Air Seats w/Cloth covers
Power Windows and Door Locks
Keyless entry
12 Volt Heavy Duty Batteries - (2) 1300 CCA Total Maintenance Free
Alternator - 105 Amp
AM/FM Stereo Radio w/CD Player
(6) 11R x 22.5 Tubeless Tires - Duals in Rear
(6) 10 Hole Disc Wheels - 22.5 x 8.25 DC
Tinted Glass, All Windows
Dome Light
Power Source, terminal type 2-post
Windshield Wipers, 2 speed, intermittent with Electric Washers
Voltmeter, Temperature, Fuel, Tachometer, and Oil pressure Gauges
Odometer with Hour Meter
Frame – 26.60 in.³ SM (51,200 PSI); 1,362,000 lb. in. RBM
50 Gal. Fuel Tank
Tilt/Telescopic Steering Columns – both sides
Air Conditioner
Remote Controlled Heated and Electric Mirrors
Color: White

Fontaine Dual Sit Down Drive Installed at Fontaine Modification - **REQUIRED**

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding
(MAKE) TYMCO (MODEL) 600-HSP (High Speed Performance Airport Runway Sweeper)

Price: \$ 209,987.00

Cab/Chassis
Make International Model 4300 M7
Engine IH MaxxForce 7
Electrical System
Amps 120 volts 12
Sweeper (Regenerative or Vacuum) Regenerative
Auxiliary Engine
Engine John Deere 4045T - Tier 3
Cylinders 4
HP/RPM 99 @ 2400
Size of fuel tank 50
Water System: gpm 5 psi 25
Tank size 220 Gallons
Brooms (Hydraulic or Mech.) Hydraulic
Under Body Transfer Broom HSP Pick-Up Head Included in HSP base Price: Left Hand Lateral Air Flow
Dimensions N/A Operation Nozzle and Front Heavy Duty Magnet - Electro-Mechanical Controlled
Gutter Broom
Qty 1 Dimensions 43"
Hopper Size (Material) 7.3 cub. yds (6)
Hopper Dump Height 36"

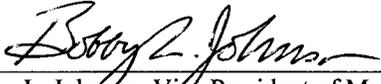
Please indicate and list any additional options and its pricing you want to offer:

<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>AHH Nozzle Extension 42"</u>	\$ <u>470.00</u>
2. <u>Air Purge.</u>	\$ <u>188.00</u>	6. <u>Dump Switch in Cab</u>	\$ <u>188.00</u>
3. <u>Aux. Hand Hose 8" dia.</u>	\$ <u>1,128.00</u>	7. <u>Aux. Engine Block Heater</u>	\$ <u>188.00</u>
4. <u>Aux. Hand Hose Hyd.</u>	\$ <u>2,726.00</u>	8. <u>Delete: Variable Speed GB</u>	\$ <u>(705.00)</u>

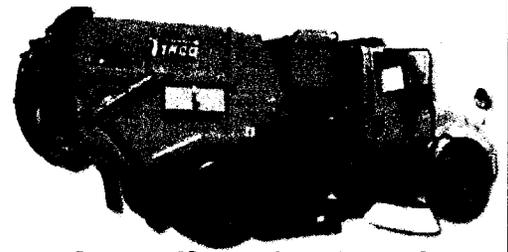
Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
 TYMCO Model 600 HSP Options – Continued

<u>Number</u>	<u>Option</u>	<u>Price</u>
9	Sweeper Deluge System	\$846.00
10	Hopper Drain System	\$470.00
11	Hopper Load Indicators - Delete	(\$376.00)
12	Hopper Screen – Chip Seal	\$517.00
13	Hyd. Oil Restriction Indicator	\$188.00
14	Reverse Pick-Up Head Chains	\$376.00
15	Stainless Steel Hopper (Delete)	(\$13,500.00)
16	Stainless Steel Bolt On Blower Housing (Delete)	(\$1,000.00)
17	Stainless Steel Chip Seal Screen (Exchange w/Stainless Steel Screen)	\$875.00
18	Stainless Steel Hopper Drain (Exchange)	\$1,880.00
19	Sweeper Odometer	\$564.00
20	Truck Air Dryer	\$850.00
21	Arrow Stik – LED(Traffic Directing Light)	\$1,100.00
22	Truck Engine Block Heater	\$360.00
23	Parabolic Mirror 12” (Exchange)	\$60.00
24	D.D.G.B. (Each)	\$822.50
25	Delete – MODOT Arrowboard	(\$2,100.00)
26	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
27	Delete – Strobe Light Each	(\$250.00)
28	Delete – ASI	(\$1,000.00)
29	Hi/Low Washdown	\$1,365.00
30	Delete – 32,000 lb. (std. 31,000 lb) GVW	(\$100.00)
31	CAT 290 – Pump	\$940.00
32	Delete – Yellow Paint Mfg. Std. White	(\$2,000.00)
33	Tier 4 John Deere Auxiliary Engine (Exch)	\$11,000.00
34	Auxiliary Fuse Panel	\$258.50


 Bobby L. Johnson, Vice President of Marketing
 TYMCO, Inc.

February 21, 2012
 Date



Conventional Cab Chassis

MODEL HSP® REGENERATIVE AIR SWEEPER® / GENERAL SPECIFICATIONS

SWEeper AUXILIARY ENGINE

EngineJOHN DEERE 4045T, 4 cyl. (Tier 3)
 Displacement 275 cubic inches (4.5L)
 Horsepower99 @ 2,400 RPM (74 kW)
 Net torque 261 ft-lb @ 1600 RPM (354 Nm)
 Air cleaner, heavy duty Dry type
 Oil filter, spin on Full flow
 Auxiliary engine shutdown system

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
 Purpose Creates blast and suction
 Bearings (2) sealed lifetime lube, anti-friction
 Bolt-on housing Abrasion resistant, replaceable liner
 Drive Heavy duty power band

DUST SEPARATOR

TypeCyclonic, multipass, centrifugal separation
 Size 20" x 61" cylindrical area (508mm x 1549mm)
 Location Axial to blower within hopper super structure
 Particulate removal Through 61" (1549mm) skimmer slot into hopper
 Inspection Hinged door, opened from hopper exterior
 Housing Abrasion resistant, w/replaceable wear resistant liner

HOPPER

Capacity (volumetric)7.3 cubic yards (5.6 m³)
 Capacity (useable)6 cubic yards (4.6 m³)
 Construction Welded steel plate with integral stiffeners
 Floor angle 22°
 Dump door opening 84" x 44" I.D. (2134mm x 1118mm)
 Dumping method Hydraulic with raker bar
 Dumping height 36" (914mm)

PICK-UP HEAD - Patented High Speed

Function Air blast and suction chamber
 Width 87" I.D. (2210mm)
 Head area 2,784 sq. inches (1.79m²)
 Suspension 4 springs, 2 drag links
 Skids DUO-SKIDS®
 Pressure hose 14" diameter (356 mm)
 Suction hose 10" diameter (254 mm)
 Pressure bleeder Integral for leaf/light material pickup

GUTTER BROOM, DUAL Patented

Standard equipment includes floodlight and parabolic mirrors
 Drive Constant speed non-reversible hydraulic motor
 Adjustment Adjustable for down pressure, pattern and wear
 Down pressure Automatically adjusts to requirement

Flexibility All directions integral anti-damage "swing away" relief valve
 Broom 43" dia. (1.1 m) poly filled digger type

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 Drive (diesel) Gear driven from auxiliary engine
 Drive (CNG) Belt driven from auxiliary engine
 Capacity 8 GPM (30.3 LPM)
 Reservoir 25 gal. (94.6 L) with 80 mesh suction strainer, sight/temperature gauge, cooler
 Filter 10 micron in-line

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust suppression
 Pump Electric diaphragm
 Reservoir(s) Polyethylene 220 gal. (832.7 L) with hydrant fill hose
 Filter 80 mesh in-line
 Low water shut-off Safety shut-off with low water warning light in cab coupled with liquid level sensor
 Spray nozzles:
 Around pick-up head 4
 Gutter brooms (each) 2
 Hopper (inside) 1

CONTROLS

Inside cab (lighted) Pick-up head, gutter broom(s), ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for dust control system), all safety lights, hour meter, pressure bleeder
Outside cab Dump
Steering Dual

SAFETY WARNING DEVICES

Amber rear mounted alternating flashing warning lights
 Amber beacon light with limb guard
 Back up alarm

OPTIONAL EQUIPMENT

Air purge
 Auto Sweep Interrupt
 Auxiliary fuse panel
 Auxiliary hand hose 8" dia. (203 mm)
 Auxiliary hand hose hydraulic boom assist
 Auxiliary hydraulic system
 Compressed Natural Gas (CNG) powered
 Extra water capacity - COMDEX® or Cabover
 Gutter broom tilt adjuster(s) (right, left or both)
 Gutter broom variable speed
 Gutter broom Drop-Down
 Hi/Low pressure washdown system
 High output water system
 Hopper deluge system
 Hopper drain system
 Hose reel, 50' retractable
 Lateral air flow nozzle
 Liquid recovery system

Magnet
 Alternative Fuel powered
 Rear camera / monitor system
 Reverse pick-up head system
 Stainless Steel Hopper
 Color (other than TYMCO standard white)

Special options are available for your individual requirements. Contact your local dealer or TYMCO.

CAB/CHASSIS

Minimum Requirements

Model International 4300 M-7
 GVW 30,000 lbs. (13,620 kg)
 Frame 50,000 PSI
 Engine MaxxForce 7 389 CID (6.4 L) V8 Diesel - 220 HP
 Transmission Allison 2500 RDS series 5 speed automatic w/external oil filter
 Alternator 120 amp
 Batteries (2) 12V 1300 CCA
 Wheelbase 152" (3861 mm)
 Fuel tank 50 gal. (189 L) shared with sweeper
 Tires (2-front, 4-rear) Tubeless 11R x 22.5
 Steering (Dual) Integral power assisted with tilt
 Brakes Dual Air w/ 13.2 CFM air compressor
 Instruments & lights Full package as required, back-up alarm
 Dual gauge package
 Mirrors Electric remote controlled and heated
 Air conditioned cab
 AM/FM CD stereo radio
 Consult factory for sweeper specifications and other available truck chassis.

GENERAL

SWEEPING WIDTH

Pick-up head only 87" (2210 mm)
 With 1 gutter broom 110" (2794 mm)
 With 2 gutter brooms 142" (3606 mm)

OVERALL DIMENSIONS (Approximate)

Length 248" (6299 mm)
 Width 96" (2438 mm)
 Height @ truck* 118" (2997 mm)
 Height beacon light 103" (2616 mm)
 Empty weight* 17,195 lbs (7806 kg)
 Weight (sweeper)* 7,980 lbs (3622 kg)

*Dimensions and weight may vary with equipment.

1-800-258-9626

www.tymco.com

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11/5/11



**2013 STANDARD MODEL 600/HSP
CONVENTIONAL TRUCK**

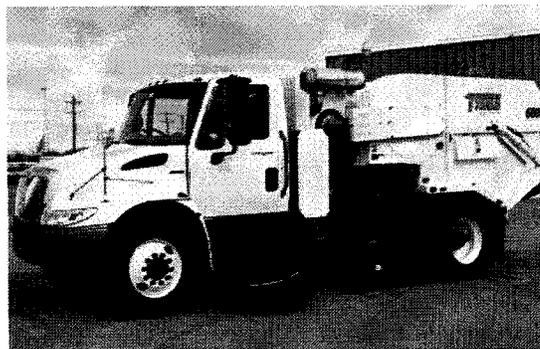


Photo shown with Optional COMDEX Package

**INTERNATIONAL 4300-M7 SPECIFICATIONS
31,000 LB. GVW
2010 EMISSION CERTIFIED**

2/12

International MaxxForce 7 Diesel Engine - 220 HP @ 2600 RPM; 560 lb-ft Torque
 165" Wheelbase; 98" Cab to Axle
 Allison 2500 RDS-P 6-Speed Automatic Transmission w/Double Overdrive, Less PTO with Synthetic Oil and
 Transmission Temperature Gauge in Cab
 10,000 lb. Front Axle with Dust Shields
 21,000 lb. Rear Axle, Single Speed (7.17 Ratio) Optional: 2 Speed (Ratio: 7.17/9.77)
 10,000 lb. Front Suspension
 31,000 lb. Vari-Rate Rear Suspension w/4,500 lb. Auxiliary Rubber Springs
 Integral Power Assisted Steering, Cruise Control and 18" Tilt Steering Wheel
 Air Cleaner – Service Protection Element w/Restriction Indicator in instrument panel
 Dual Air Brakes w/13.2 CFM Air Compressor – Rear brake chambers relocated to rear for adjustment access
 Cab – Upgraded Deluxe with optional exterior grab handles for easier entry
 Adjustable, Individual High Back Air Seats (National 2000) w/Lumbar Support and cloth inserts for operator comfort
 12 Volt Heavy Duty Batteries - (2) 1300 CCA Total Maintenance Free
 Alternator - 120 Amp
 AM/FM Stereo Radio and Clock
 (6) 11R x 22.5 Tubeless Tires - Duals in Rear
 (6) 10 Hole Disc Wheels - 22.5 x 8.25 DC
 Dome Light and Tinted Glass, All Windows
 Cigar Lighter/Power Source and Pre-Trip Exterior Light Cycle
 Windshield Wipers, 2 speed, with Electric Washers
 Instrument Panel – Flat
 Voltmeter, Temperature, Fuel, Tachometer, and Oil pressure Gauges
 Odometer with Hour Meter
 Frame - 13.42 SM (50,000 PSI) with Special Frame Piercing
 Exhaust System Single, Horizontal; After-treatment Device & Right Side Horizontal Exhaust
 51 Gal. Fuel Tank – Provided by TYMCO
 Air Conditioner w/Fresh Air Filters (primary and secondary) for cab filtration
 Remote Controlled Heated and Electric Mirrors (2)
 Color: White

Fontaine Dual Sit Down Drive Installed at Fontaine Modification – REQUIRED
**Fontaine "TYMCO Specifications" include: Tilt steering wheel; full IH flat instrument panel
 gauge package and RH side electric mirror controls.**

***NOTE: The TYMCO Standard Premium Truck Specifications offer the customer ergonomic,
 safety, service and operational value.***

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) 500x

Price: \$ 217,170.00

Cab/Chassis

Make International Model 4300 M7

Engine IH MaxxForce 7

Electrical System

Amps 120 volts 12

Sweeper (Regenerative or Vacuum) Regenerative

Auxiliary Engine

Engine John Deere 4045T - Tier 3

Cylinders 4

HP/RPM 115@ 2400

Size of fuel tank 50

Water System: gpm 5 psi 25

Tank size 25 Gallons

Brooms (Hydraulic or Mech.) Hydraulic

Under Body Transfer Broom

Dimensions 12" x 79" Operation In Cab Controls/On Demand

Gutter Broom

Qty 2 Dimensions 43"

Hopper Size (Material) 5.7 cub. yds (4)

Hopper Dump Height Variable 2'-11'

Please indicate and list any additional options and its pricing you want to offer:

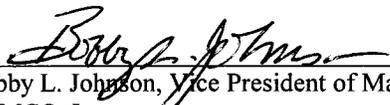
<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>Sweeper Deluge</u>	\$ <u>846.00</u>
2. <u>Air Purge</u>	\$ <u>188.00</u>	6. <u>Gutter Broom Drop Down(ea)</u>	\$ <u>822.50</u>
3. <u>Aux.Hand Hose</u>	\$ <u>1,880.00</u>	7. <u>Hopper Load Ind. (Delete)</u>	\$ <u>(376.00)</u>
4. <u>Aux. Engine Block Heater</u>	\$ <u>188.00</u>	8. <u>PU Head Curtain Lifter</u>	\$ <u>1,410.00</u>

Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
TYMCO Model 500x Options – Continued

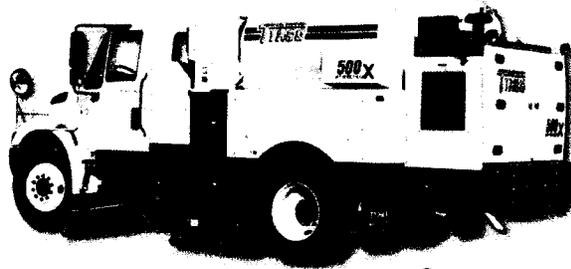
<u>Number</u>	<u>Option</u>	<u>Price</u>
9	Hopper Screen – Chip Seal (exchange)	\$1,645.00
10	Reverse Pick-Up Head Chains	\$376.00
11	Stainless Steel Chip Seal Screen	\$2,585.00
12	Truck Air Dryer	\$850.00
13	Truck Engine Block Heater	\$360.00
14	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
15	Delete – Auto Sweep Interrupt	(\$1,000.00)
16	Delete – Yellow Paint Mfg. Std. White	(\$2,100.00)
17	Tier 4 John Deere Auxiliary Engine (Exch)	\$11,000.00
18	Hopper Screen Vibrator	\$1,739.00
19	Hi/Low Pressure Wash Down System	\$1,365.00

NOTE: The Arrow Stik (LED) is bid in lieu of MODOT Specification Arrow Board because of its size.



Bobby L. Johnson, Vice President of Marketing
TYMCO, Inc.

February 21, 2012
Date



GENERAL SPECIFICATIONS/ MODEL 500X[®] HIGH SIDE DUMP REGENERATIVE AIR SWEEPER[®]

SWEEPER AUXILIARY ENGINE, Electronic Control, Turbo Diesel

Make John Deere, 4045T, 4 cyl. (Tier 3)
Displacement 275 cubic inches (4.5 L)
Horsepower 115 @ 2,200 rpm (86 kW)
Net torque 355 ft/lbs. @ 1500 rpm (481 Nm)
Air cleaner Two stage, radial seal with safety element
Oil Filter, spin on Full flow

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
Purpose creates blast and suction
Bearings (2) sealed for life, self aligning
Housing Isolation mounted with abrasion resistant, replaceable liner
Housing seal Heavy rubber section, non-wiping, spring actuated Tilt-N-Seal™ design
Drive Fixed displacement heavy duty hydraulic motor

DUST SEPARATOR

Type Cylindrical, cyclonic, multipass, centrifugal separation
Size 28" x 48"
Location Inside hopper
Particulate removal Through skimmer slot into hopper
Housing Abrasion resistant, replaceable liner
Inspection Self opening, self emptying when hopper tilts

HOPPER, Stainless Steel

Volumetric Capacity 5.7 cubic yards (4.3m³)
Useable Capacity 4.0 cubic yards (3.06m³)
Construction Welded non-magnetic stainless steel plate with integral stiffeners
Floor dump angle 50°
Dump door opening 68" x 57" (158 cm x 129 cm)
Dump door Self locking
Chute 72" x 48" stainless steel lined
Chute reach 22" without side shift
Dumping direction Right side
Lifting method Two stage scissor lift, dual hydraulic cylinders with integral holding valves
Lift capacity 10,000 lbs.
Dump height Variable
Minimum 2' from bottom of chute to ground
Maximum 11' from bottom of chute to ground
Hopper screen 2 piece stainless steel screen with access for cleaning top side
Hopper drain system

BROOM ASSIST PICK-UP HEAD (BAH[®])

Function Air blast and suction chamber with broom assist
Width 87" (2210 mm)
Head area 3567.0 square inches (2.3m²)
Broom 12" x 79"
Location: Enclosed in rear of pick-up head
Suspension 4 springs 2 drag links
Suction hose 12" diameter (305 mm)
Pressure hose 14" diameter (356 mm)
Skids (DUO SKID[®]) Double wide, long-life carbide
Pressure bleeder Integral for leaf/light material pick-up.

GUTTER BROOMS, Dual Patented

Standard equipment, includes floodlights and parabolic mirrors
Drive Variable speed non-reversible hydraulic motor
Adjustment Adjustable for down pressure, pattern and wear
Down pressure Automatically adjusts to requirement
Flexibility All directions, integral anti-damage "swing away" relief valve
Brooms 43" dia. (1.1 m) steel wire, vertical diggers
Hydraulic tilt Left & Right gutter brooms adjust for curb depth

HYDRAULIC SYSTEM

Dual hydraulic pumps Sweeper pump operates gutter brooms, pick-up head (BAH[®]), stabilizers, hopper lift, hopper dump, and hopper door. Blower pump hydrostatically drives blower
Drive Direct drive from auxiliary engine
Blower pump Heavy duty variable displacement piston pump
Sweeper pump Pressure compensated piston pump
Blower pump flow 45 GPM (170 LPM)
Sweeper pump flow 16 GPM (61 LPM)
Reservoir 30 Gal (110 L) dual mesh strainers
Safety features Low oil shut down
Filters(2) (1) 10 micron spin-on, in-line return, (1) cartridge, charge loop
Vent Filter (1) 10 micron spin-on
Cooler Air to Oil with thermostatically controlled electric fan

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust suppression
Pump Electric diaphragm
Reservoir Polyethylene 250 gallon (946 L) with hydrant fill hose
Filter 80 mesh stainless steel, in-line
Low water shut-off Safety shut-off with low water warning light in cab
Spray nozzles:
Pick-up head 4
Gutter brooms (each) 2
Hopper inlet 1

CONTROLS

Inside cab: (lighted) pick-up head, left and right hand gutter broom tilt, gutter broom, ignition, blower speed control, low water warning system (dust control), all safety lights, dump controls, pressure bleeder, LCD multi-function display, which includes re-settable and non-resettable hour meters for auxiliary engine; left hand, right hand and BAH brooms; pick-up head and blower.

Steering: Dual

STANDARD EQUIPMENT

Auxiliary engine-diesel, fuel/water separator, automatic shutdown system, auxiliary hydraulic system, broom assist pick-up head (BAH[®]), dual steering, DUO-SKID[®], dust control system, gutter brooms, right and left, includes floodlights and parabolic mirrors, gutter broom tilt adjuster-left and right, pressure bleeder, stainless steel hopper, severe weather wiring package, TYMCO decals/strips, water fill hose and storage area, storage compartment, hopper drain system

STANDARD SAFETY EQUIPMENT

Solid state proximity switches, right and left side stabilizers (automatically engage when lifting hopper), blower actuation interlock, minimum dump interlock, stabilizer down warning system, alternating LED rear flashers, front mounted amber beacon light, back-up alarm, hopper load indicator, scissor lift safety props.

OPTIONAL EQUIPMENT

Abrasion Protection Package
Air Purge
Auto Sweep Interrupt (ASI)
Auxiliary Hand Hose
DCVA
Engine block heater
Gutter Broom-Drop Down
High output water system
Hi/low pressure washdown system with CAT water pump
Hopper load indicator alarms
Hydrant wrench
Hydraulic Tank Heater
Linear actuator (Pressure bleeder)
Low Emissions Package
Magnet
Pick-up head front curtain lifter
Reverse Pick-Up Head System
Sweeper Deluge System
Sweeper odometer
Screen vibrator

Color (other than TYMCO standard white)

Special options are available for your individual requirements. Contact your local dealer or TYMCO

CAB/CHASSIS

MODEL International 4300M7
GVW 33,000 lbs. (14,982 kg)
Axle capacity, rear 23,000 lbs. (10,442 kg)
Axle capacity, front 10,000 lbs. (4,540 kg)
Frame 80,000 psi
Engine Maxx Force 7(6.4L) diesel engine, 200 HP @ 2600 RPM, 560 lb-ft torque @ 1400 RPM
Transmission Allison 2500 RDS-P
Alternator 120 amp
Batteries 12 v dual 1850 CCA
Wheelbase 152" (3861 mm)
Fuel tank 50 gallons, (189 L) shared with sweeper
Tires Tubeless radial 11 R x 22.5, 14 ply (2-front, 4-rear)
Steering - Dual with gauges Full power w / tilt
Mirrors Electric remote and heated
Brakes Full air with 13.2 CFM air compressor
Rear suspension Hendrickson™ air suspension
Instruments & lights Full package as required

GENERAL SWEEPING WIDTH

Pick-up head only 87" (2210 mm)
With 1 gutter broom 110" (2794 mm)
With 2 gutter brooms up to 142" (3607 mm)

OVERALL DIMENSIONS (Approximate)

Height 112" (2845 mm)
Width 96" (2438 mm)
Empty weight* 21,000 lbs.. (9,534 kg)
Length 280" (7112 mm)
Dump clearance height 132" (11') (3353 mm)
Overall height dumping 262" (21'8") (6655 mm)

*Weight will vary with equipment

AQMD PM₁₀ Certified

1-800-258-9626

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This product is protected by numerous U.S. and Foreign Patents.

Specifications subject to change without notice.



**2013 STANDARD MODEL 500x
CONVENTIONAL TRUCK**



**INTERNATIONAL 4300-M7 SPECIFICATIONS
33,000 LB. GVW
'10 EMISSION CERTIFIED**

2/12

International MaxxForce 7 (6.4L) Diesel Engine - 220 HP @ 2600 RPM
152" Wheelbase; 84" Cab to Axle
Allison 2500RDS-P 6-Speed Automatic Transmission w/Double Overdrive, with Synthetic Oil and Transmission Temperature Gauge in Cab
10,000 lb. Front Axle
23,000 lb. Rear Axle, Single Speed (7.17 Ratio) Optional: 2 Speed (Ratio: 6.67/9.08)
10,000 lb. Front Suspension
23,000 lb. Hendrickson Rear Air Suspension w/Shock Absorbers
Integral Power Assisted Steering, Cruise Control and 18" Steering Wheel
Air Cleaner – Service Protection Element w/Restriction Indicator in Instrument Panel
Dual Air Brakes w/13.2 CFM Air Compressor
Adjustable, Individual High Back Air Seats (National 2000) w/Lumbar Support and cloth inserts for operator comfort
Cab – Upgraded Deluxe with optional exterior grab handles for easier entry
12 Volt Heavy Duty Batteries - (2) 1850 CCA Maintenance Free
Alternator - 120 Amp
AM/FM Stereo Radio and Clock
(6) 11R x 22.5 Tubeless Tires - Duals in Rear
(6) 10 Hole Disc Wheels - 22.5 x 8.25 DC
Dome Light and Tinted Glass, All Windows
Cigar Lighter/Power Source and Pre-Trip Exterior Light Cycle
Windshield Wipers, 2-speed, with Electric Washers
Instrument Panel – Flat
Voltmeter, Temperature, Fuel, Tachometer and Oil pressure Gauges
Odometer with Hour Meter
Frame - 13.42 SM (80,000 PSI) with Special Frame Piercing
Exhaust System Single, Horizontal; After-treatment Device, Frame Mounted Right Side, Under Cab w/Horizontal Tail Pipe
50 Gal. Fuel Tank – Provided by TYMCO
Air Conditioner w/Fresh Air Filters (primary and secondary) for cab filtration
Remote Controlled Heated and Electric Mirrors (2)
Color: White

Fontaine Dual Sit Down Drive Installed at Fontaine Modification - REQUIRED

Fontaine "TYMCO Specifications" include: Tilt steering wheel, full IH flat instrument panel gauge package and RH side electric mirror controls.

NOTE: The TYMCO Standard Premium Truck Specifications offer the customer ergonomic, safety, service and operational value.

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) 435

Price: \$ 138,895.00

Cab/Chassis
Make Isuzu Model NQR
Engine Isuzu 4-cylinder 215 HP (5.19L)
Electrical System
Amps 110 volts 12
Sweeper (Regenerative or Vacuum) Regenerative
Auxiliary Engine
Engine Kubota Tier 4i
Cylinders 4
HP/RPM 56 @ 2600
Size of fuel tank 30
Water System: gpm 5 psi 25
Tank size 150 Gallons
Brooms (Hydraulic or Mech.) Hydraulic
Under Body Transfer Broom
Dimensions N/A Operation N/A
Gutter Broom
Qty 2 Dimensions 36"
Hopper Size (Material) 4 cub. yds 3.5-4
Hopper Dump Height 72"

Please indicate and list any additional options and its pricing you want to offer:

<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>Dump Switch in Cab</u>	\$ <u>188.00</u>
2. <u>Air Purge</u>	\$ <u>188.00</u>	6. <u>Hopper Deluge System</u>	\$ <u>376.00</u>
3. <u>Aux.Hand Hose 6" dia</u>	\$ <u>540.50</u>	7. <u>Hopper Drain System</u>	\$ <u>258.50</u>
4. <u>AHH Nozzle Extension 42"</u>	\$ <u>423.00</u>	8. <u>(Delete)Hopper Load Ind</u>	\$ <u>(470.00)</u>

Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
TYMCO Model 435 Options – Continued

<u>Number</u>	<u>Option</u>	<u>Price</u>
9	Hyd. Oil Restriction Indicator	\$70.50
10	Pick-Up Head Hour Meter – Delete	(\$235.00)
11	Reverse Pick-Up Head Chains	\$376.00
12	Stainless Steel Hopper (Delete)	(\$6,750.00)
13	Parabolic Mirror 12" (Exchange)	\$60.00
14	D.D.G.B. (Each)	\$822.50
15	Delete – Arrow Stick	(\$1,000.00)
16	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
17	Delete – Yellow Paint Mfg. Std. White	(\$2,100.00)
18	Pick-Up Head Curtain Lifter	\$1,410.00
19	Auxiliary Fuse Panel	\$258.50

NOTE: **Arrow Stick (LED) is bid in lieu MODOT Specifications Arrow Board
Because of size of sweeper.**



Bobby L. Johnson, Vice President of Marketing
TYMCO, Inc.

February 21, 2012
Date



MODEL 435[®] REGENERATIVE AIR SWEEPER / GENERAL SPECIFICATIONS

SWEEPER AUXILIARY ENGINE

Engine Kubota V2403MT, 4 cyl. (Tier 4i)
 Displacement 148.5 cubic inches (2426cc)
 Horsepower 56 @ 2,600 RPM (41.7 kW)
 Net Torque 121 ft-lb @ 1800 RPM (164 Nm)
 Fuel water separator
 Air cleaner Dry type
 Oil filter, spin on Full flow
 Cooling Liquid
 Auxiliary engine shutdown system

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
 Purpose Creates blast and suction
 Bearings Anti-friction
 Housing Abrasion resistant, replaceable liner
 Drive Heavy duty power band

DUST SEPARATOR

Type Cyclonic, multipass, centrifugal separation
 Size 18.5" x 22.5"
 (470mm x 572mm) cylindrical area
 Location Adjacent to hopper
 Particulate removal Through 22.5" x 5"
 (572mm x 13mm) skimmer slot into hopper
 Inspection Access port for cleaning

HOPPER

Capacity (volumetric) 4.0 cubic yards
 (3.06 m³)
 Construction Welded steel plate
 Dump door size 74" x 81 1/4" (1880mm x 2064mm)
 Dumping method Hydraulic with tilt up
 Dumping height 72" (1829mm)
 Dump door hydraulically opened/closed
 Hopper screen Lifts with door for easy cleaning

STORAGE COMPARTMENTS

Front 55 cu. ft. capacity
 Rear (2) Total of 26.6 cu. ft. capacity

PICK-UP HEAD

Function Air blast and suction chamber
 Width 78" (1981mm) I.D.
 Head area 2,028 sq. inches (1.34m²)
 Suspension 4 springs, 2 drag links
 Skids DUO-SKIDS[®]
 Double wide, long life carbide
 Heavy duty suction & pressure hose 12" diameter
 (305mm)
 Pressure bleeder Integral for
 leaf/light material pickup
 Reverse pick-up head system

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 Drive Gear driven from auxiliary engine
 Capacity 5 GPM (18.925LPM)
 Reservoir 13.5 gal.
 (51.1L) with 80 mesh suction strainer, sight/
 temperature gauge
 Filter 10 micron in-line

GUTTER BROOM, LEFT Patented

Standard equipment includes floodlight and
 parabolic mirror
 Drive Constant speed
 non-reversible hydraulic motor
 Adjustment Adjustable for
 down pressure, pattern and wear
 Down pressure Automatically
 adjusts to requirement
 Flexibility All directions integral
 anti-damage "swing away" relief valve
 Broom Steel wire vertical digger 36" (914 mm)

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust
 suppression
 Pump Electric diaphragm
 Reservoir Polyethylene 150 gal. (567.7L)
 Filter 80 mesh in-line
 Low water shut-off Safety shut-off
 with low water warning light in cab coupled with
 liquid level sensor
 Spray nozzles At gutter broom(s)
 and inside hopper

CONTROLS

Inside cab (lighted) Pick-up head,
 gutter broom(s), ignition and tachometer (auxiliary
 engine), voltmeter, low water warning system (for
 dust control system), all safety lights, hour meter,
 pressure bleeder
 Outside cab Dump

SAFETY WARNING DEVICES

Alternating LED rear flashers (2)
 Back up alarm

OPTIONAL EQUIPMENT

Air purge
 Auto Sweep Interrupt
 Auxiliary fuse panel
 Auxiliary hand hose 6" dia. (152mm)
 Auxiliary hydraulic system
 Cabover dual steering
 Gutter broom(s) (Right or dual)
 Gutter broom tilt adjuster(s) (right, left, dual)
 Gutter broom variable speed
 Gutter broom Drop-Down
 High output water system
 Hi/Low pressure washdown system
 Hopper drain system
 Hopper deluge system
 Hose reel, 50' retractable
 Light Bar - cab mounted
 Low emissions package
 Magnet
 Pick-up head curtain lifter
 Sound Reduction Engineering (SRE[®])

AQMD PM₁₀ Certified

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Stainless Steel Blower Housing
 Stainless Steel Dust Separator
 Stainless Steel Hopper Drain
 Stainless Steel Hopper Screen
 Stainless Steel Hopper
 Color (other than TYMCO standard white)

Special options are available for your individual requirements. Contact your local dealer or TYMCO.

CAB/CHASSIS

Minimum Requirements

Suggested make & model Isuzu NQR
 GVW 17,950 lbs (8142kg)
 Engine, turbocharged diesel 215hp 5.19L
 Cooling Radiator
 and transmission oil, heavy duty
 Transmission Automatic
 Alternator 110 amp
 Battery Dual (2) 750 CCA
 Wheelbase 150" (3810 mm)
 Fuel tank 30 gal. (113.7L)
 DEF Tank.. Diesel Exhaust Fluid Tank 7.4 Gal. (28 L)
 Tires (2-front, 4-rear) 225/70R-19.5E
 Steering Power
 Brakes Dual circuit power assisted hydraulic,
 disc front, self-adjust drum rear, anti-lock brake
 system
 Instruments & lights Full package as required
 Back-up alarm
 Air conditioned cab
 Power windows and door locks
 AM/FM CD stereo radio
 Consult factory for sweeper specifications and other
 available truck chassis.

GENERAL

SWEEPING WIDTH

Pick-up head only 78" (1981mm)
 With 1 gutter broom 104" (2642mm)
 With 2 gutter brooms 130" (3302mm)

OVERALL DIMENSIONS (Approximate)

Length 246" (6248mm)
 Width 90" (2286mm)
 Add 10" (254 mm) for each broom
 Height @ truck* 91.1" (2314mm)
 Height with cab mounted light bar* .. 96.6" (2454mm)
 Empty weight* 12,000 lbs (5443kg)
 Weight (sweeper)* 6,026 lbs (2733kg)

* May vary with equipment.

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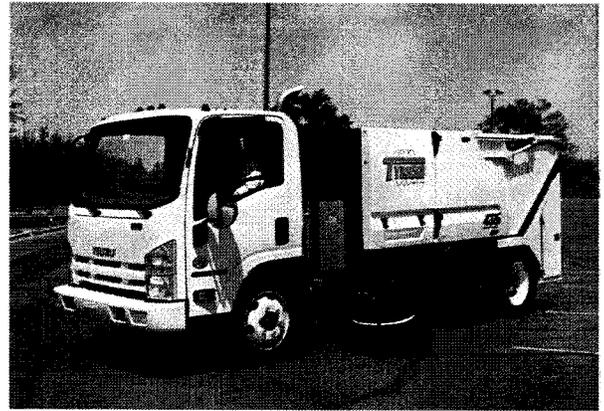


**STANDARD MODEL 435 CABOVER
TRUCK**

**2012 ISUZU NQR DIESEL
SPECIFICATIONS**

(17,950 GVW)

2010 Emission Certified



2/12

317 CID (5.19L) Turbocharged and Intercooled Diesel Engine – 215 HP
150" Wheelbase; 127.5" Cab to Axle
6-Speed Automatic Transmission
6,830 lb. Front Axle
14,550 lb. Rear Axle
5,360 lb. Front Springs
9,880 lb. Rear Springs
Power Steering
Vacuum Assisted Hydraulic Brakes - Dual Circuit w/Anti-Lock Brake System
Front Disc Brakes; Self-Adjusting Outboard Mounted Rear Drum Brakes
Tilt & Telescopic Steering Column (N/A with Dual Steering)
12 Volt Heavy Duty Batteries - (2) 750 CCA Maintenance Free
Alternator - 110 Amp
Frame Mounted Fuel/Water Separator with indicator light on instrument cluster
Glow Plug Located in Cylinder Head
(6) 225/70R19.5E Tires - Duals in Rear
(6) 6 Hole Disc Wheels - Duals in Rear
Cooling System - Engine
Tinted Glass
Dome Light
Cigar Lighter
Mirrors – Exterior with integral convex mirror
Windshield Wipers with Intermittent System
Voltmeter; Engine warning system for low oil pressure, high coolant temperature and
Low coolant level
Front and Rear Shock Absorbers and Front Stabilizer Bar
Carbon Steel Frame – 7.20 SM (44,000 PSI)
30 Gal. Fuel Tank - Mounted in Frame Rail Behind Rear Axle
High Back Driver's Seat with two occupant passenger seat
Air Conditioner
AM/FM CD Stereo Radio
Power Windows and Door Locks

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) 435

Price: \$ 159,850.00

Cab/Chassis

Make International Model 4300 M7

Engine MAXXFORCE 7

Electrical System

Amps 120 volts 12

Sweeper (Regenerative or Vacuum) Regenerative

Auxiliary Engine

Engine Kubota Tier 4i

Cylinders 4

HP/RPM 56 @ 2600

Size of fuel tank 30

Water System: gpm 5 psi 25

Tank size 150 Gallons

Brooms (Hydraulic or Mech.) Hydraulic

Under Body Transfer Broom

Dimensions N/A Operation N/A

Gutter Broom

Qty 2 Dimensions 36"

Hopper Size (Material) 4 cub. yds 3.5-4

Hopper Dump Height 72"

Please indicate and list any additional options and its pricing you want to offer:

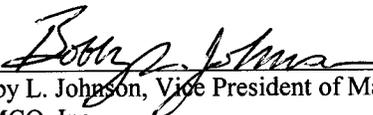
<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>Dump Switch in Cab</u>	\$ <u>188.00</u>
2. <u>Air Purge</u>	\$ <u>188.00</u>	6. <u>Hopper Deluge System</u>	\$ <u>376.00</u>
3. <u>Aux.Hand Hose 6" dia</u>	\$ <u>540.50</u>	7. <u>Hopper Drain System</u>	\$ <u>258.50</u>
4. <u>AHH Nozzle Extension 42"</u>	\$ <u>423.00</u>	8. <u>(Delete)Hopper Load Ind</u>	\$ <u>(470.00)</u>

Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
TYMCO Model 435 Options – Continued

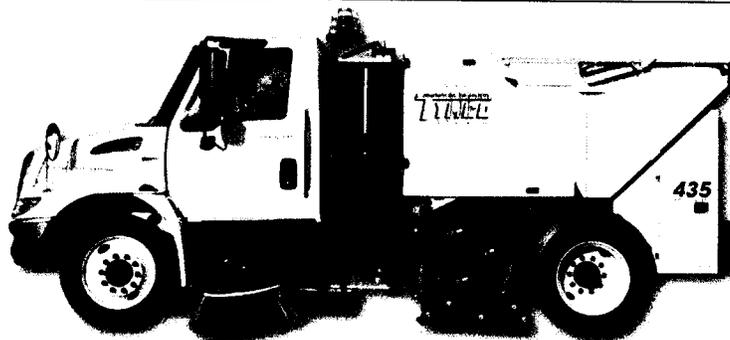
<u>Number</u>	<u>Option</u>	<u>Price</u>
9	Hyd. Oil Restriction Indicator	\$70.50
10	Pick-Up Head Hour Meter – Delete	(\$235.00)
11	Reverse Pick-Up Head Chains	\$376.00
12	Stainless Steel Hopper (Delete)	(\$6,750.00)
13	Parabolic Mirror 12" (Exchange)	\$60.00
14	D.D.G.B. (Each)	\$822.50
15	Delete – Arrow Stick	(\$1,000.00)
16	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
17	Delete – Yellow Paint Mfg. Std. White	(\$2,100.00)
18	Pick-Up Head Curtain Lifter	\$1,410.00
19	Auxiliary Fuse Panel	\$258.50

**NOTE: Arrow Stick (LED) is bid in lieu MODOT Specifications Arrow Board
Because of size of sweeper.**



Bobby L. Johnson, Vice President of Marketing
TYMCO, Inc.

February 21, 2012
Date



MODEL 435 REGENERATIVE AIR SWEEPER / GENERAL SPECIFICATIONS

SWEeper AUXILIARY ENGINE

Engine Kubota V2403MT, 4 cyl. (Tier 4i)
 Displacement 148.5 cubic inches (2426cc)
 Horsepower 56 @ 2,600 RPM (41.7 kW)
 Net Torque 121 ft-lb @ 1800 RPM (164 Nm)
 Fuel water separator
 Air cleaner Dry type
 Oil filter, spin on Full flow
 Cooling Liquid
 Auxiliary engine shutdown system

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
 Purpose Creates blast and suction
 Bearings Anti-friction
 Housing Abrasion resistant, replaceable liner
 Drive Heavy duty power band

DUST SEPARATOR

Type Cyclonic, multipass, centrifugal separation
 Size 18.5" x 22.5"
 (470mm x 572mm) cylindrical area
 Location Adjacent to hopper
 Particulate removal Through 22.5" x .5"
 (572mm x 13mm) skimmer slot into hopper
 Inspection Access port for cleaning

HOPPER

Capacity (volumetric) 4.0 cubic yards
 (3.06 m³)
 Capacity (useable) 3.5 cubic yards
 (2.68 m³)
 Construction Welded steel plate
 Dump door size 74" x 81 1/4" (1880mm x 2064mm)
 Dumping method Hydraulic with tilt up
 Dumping height Est. 78" (1981mm)
 Dump door hydraulically opened/closed
 Hopper screen Lifts with door for easy cleaning

STORAGE COMPARTMENTS

Rear (2) Total of 26.6 cu. ft. capacity
 No Front Storage Compartment

PICK-UP HEAD

Function Air blast and suction chamber
 Width 78" (1981mm) I.D.
 Head area 2,028 sq. inches (1.34m²)
 Suspension 4 springs, 2 drag links
 Skids DUO-SKIDS®
 Double wide, long life carbide
 Heavy duty suction & pressure hose 12" diameter
 (305mm)
 Pressure bleeder Integral for
 leaf/light material pickup
 Reverse pick-up head system

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 Drive Gear driven from auxiliary engine
 Capacity 5 GPM (18.925LPM)
 Reservoir 13.5 gal.

(51.1L) with 80 mesh suction strainer, sight/
 temperature gauge
 Filter 10 micron in-line

GUTTER BROOM, LEFT Patented

Standard equipment includes floodlight and
 parabolic mirror
 Drive Constant speed
 non-reversible hydraulic motor
 Adjustment Adjustable for
 down pressure, pattern and wear
 Down pressure Automatically
 adjusts to requirement
 Flexibility All directions integral
 anti-damage "swing away" relief valve
 Broom Steel wire vertical digger 36" (914 mm)

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust
 suppression
 Pump Electric diaphragm
 Reservoir Polyethylene 150 gal.
 Filter 80 mesh in-line
 Low water shut-off Safety shut-off
 with low water warning light in cab coupled with
 liquid level sensor
 Spray nozzles At gutter broom(s)
 and inside hopper

CONTROLS

Inside cab (lighted) Pick-up head,
 gutter broom(s), ignition and tachometer (auxiliary
 engine), voltmeter, low water warning system (for
 dust control system), all safety lights, hour meter,
 pressure bleeder

Outside cab Dump

SAFETY WARNING DEVICES

Alternating LED rear flashers (2)
 Back up alarm

OPTIONAL EQUIPMENT

Air purge
 Auto Sweep Interrupt
 Auxiliary fuse panel
 Auxiliary hand hose 6" dia. (152mm)
 Auxiliary hydraulic system
 Dual steering-IH
 Gutter broom(s) (Right or dual)
 Gutter broom tilt adjuster(s) (right, left, dual)
 Gutter broom variable speed
 Gutter broom Drop-Down
 High output water system
 Hi/Low pressure washdown system
 Hopper drain system
 Hopper deluge system
 Amber beacon LED light - behind cab mounted
 Low emissions package

Magnet (Heavy Duty not available)
 Pick-up head curtain lifter
 Sound Reduction Engineering (SRE®)
 Stainless Steel Blower Housing
 Stainless Steel Dust Separator
 Stainless Steel Hopper Drain
 Stainless Steel Hopper Screen
 Stainless Steel Hopper
 Color (other than TYMCO standard white)

Special options are available for your individual requirements. Contact your local dealer or TYMCO.

CAB/CHASSIS:

Minimum Requirements

Suggested make & model International 4300 M-7
 GVW 25,500 lbs (11,557kg)
 Engine Maxx Force 7 390 CID (6.4L) V8
 Diesel - 220HP
 Transmission Allison 2500 RDS series,
 6 speed automatic w/external oil filter
 Alternator 120 amp
 Battery Dual (2) 1300 CCA
 Wheelbase 154" (3912 mm)
 Fuel tank 52 gal. (197L)
 Tires (2-front, 4-rear) 255/70R x 22.5
 Steering Integral Power Assisted w/tilt
 Brakes Dual Air w/13.2 CFM Air Compressor
 Instruments & lights Full package as required
 Back-up alarm
 Air conditioned cab
 AM/FM stereo radio
 Consult factory for sweeper specifications and other
 available truck chassis.

GENERAL:

SWEEPING WIDTH

Pick-up head only 78" (1981mm)
 With 1 gutter broom Est. 106.5" (2705mm)
 With 2 gutter brooms Est. 135" (3429mm)

OVERALL DIMENSIONS: (Approximate)

Length 242" (6147mm)
 Width 94.5" (22401mm)
 Add 10" (254 mm) for each broom
 Height @ truck* 97.5" (2477mm)
 Height with cab mounted light bar* ... 103" (2617mm)
 Empty weight* Est. 15,500 lbs (7037kg)
 Weight (sweeper)* Est. 6,100 lbs (2769kg)

*May vary with equipment.

1-800-258-9626

www.tymco.com

AQMD PM₁₀ Certified

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2013 STANDARD MODEL 435
CONVENTIONAL TRUCK



INTERNATIONAL 4300-M7 SPECIFICATIONS
25,500 LB. GVW
2010 EMISSION CERTIFIED

2/12

International MaxxForce 7 Diesel Engine - 220 HP @ 2600 RPM; 560 lb-ft Torque
154" Wheelbase; 86.9" Cab to Axle
Allison 2500 RDS-P 6-Speed Automatic Transmission w/Overdrive and PTO Provision w/Synthetic Oil and
Transmission Temperature Gauge in Cab
8,000 lb. Front Axle and Suspension
17,500 lb. Rear Axle, Single Speed (6.43 Ratio)
8,000 lb. Front Suspension
23,500 lb. w/4,500 lb. Auxiliary Rubber Springs
Integral Power Assisted Steering, Cruise Control and 18" Tilt Steering Wheel
Air Cleaner – Service Protection Element w/ Restriction Indicator in instrument panel
Dual Air Brakes w/13.2 CFM Air Compressor – Rear brake chambers relocated to rear for adjustment access
Cab – Conventional with optional exterior grab handles for easier entry
Adjustable, Individual High Back Air Seats (National 2000) w/Lumbar Support and cloth inserts for operator comfort
12 Volt Heavy Duty Batteries - (2) 1300 CCA Total Maintenance Free
Alternator - 120 Amp
AM/FM Stereo Radio and Clock
(6) 255/70R22.5 Tubeless Tires - Duals in Rear
(6) 10 Hole Disc Wheels - 22.5 x 8.25 DC
Dome Light and Tinted Glass, All Windows
Cigar Lighter/Power Source and Pre-Trip Exterior Light Cycle
Windshield Wipers, 2-speed, with Electric Washers
Instrument Panel – Flat
Voltmeter, Temperature, Fuel, Tachometer, and Oil pressure Gauges
Odometer with Hour Meter
Frame - 13.42 SM (50,000 PSI) with Special Frame Piercing
Exhaust System Single, Horizontal; After-treatment Device & Right Side Horizontal Tail Pipe
50 Gal. Fuel Tank – Provided by TYMCO
Air Conditioner w/Fresh Air Filters (primary and secondary) for cab filtration
Remote Controlled Heated and Electric Mirrors (2)
Color: White

Fontaine Dual Sit Down Drive Installed at Fontaine Modification – REQUIRED
Fontaine “TYMCO Specifications” include: Tilt steering wheel, full IH flat instrument panel gauge package and RH side electric mirror controls.

NOTE: The TYMCO Standard Premium Truck Specifications offer the customer ergonomic, safety, service and operational value.

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) 210

Price: \$ 118,733.00

Cab/Chassis

Make Isuzu Model NPR-HD

Engine Isuzu 4-cylinder 215 HP (5.19L)

Electrical System

Amps 110 volts 12

Sweeper (Regenerative or Vacuum) Regenerative

Auxiliary Engine

Engine Kubota Tier 4i

Cylinders 4

HP/RPM 56 @ 2600

Size of fuel tank 30

Water System: gpm 5 psi 25

Tank size (2) 74 Gallon total capacity

Brooms (Hydraulic or Mech.) Hydraulic

Under Body Transfer Broom

Dimensions N/A Operation N/A

Gutter Broom

Qty 2 Dimensions 32" Vertical Digger

Hopper Size (Material) 2.4 cub. yds (2)

Hopper Dump Height 60"

Please indicate and list any additional options and its pricing you want to offer:

<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>Dump Switch in Cab</u>	\$ <u>188.00</u>
2. <u>Air Purge - DCS</u>	\$ <u>188.00</u>	6. <u>Hopper Drain System</u>	\$ <u>329.00</u>
3. <u>Aux.Hand Hose 6" dia</u>	\$ <u>705.00</u>	7. <u>Delete: Hopper Load Ind.</u>	\$ <u>(376.00)</u>
4. <u>AHH Nozzle Extension 42"</u>	\$ <u>423.00</u>	8. <u>Hyd. Oil Restrictor Indicator</u>	\$ <u>94.00</u>

Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
TYMCO Model 210 Options – Continued

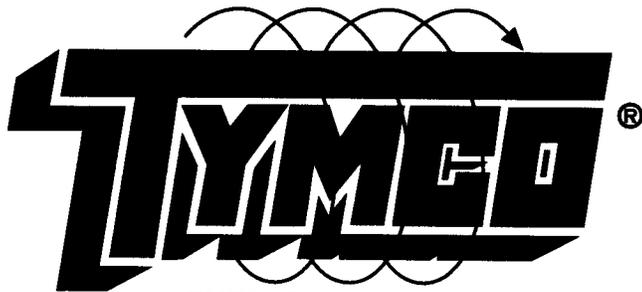
<u>Number</u>	<u>Option</u>	<u>Price</u>
9	Pick-Up Head Hour Meter – Delete	(\$235.00)
10	Back Pack Blower Box	\$705.00
11	Reverse Pick-Up Head Chains	\$376.00
12	Stainless Steel Hopper (Delete)	(\$5,900.00)
13	Parabolic Mirror 12" (Exchange)	\$60.00
14	D.D.G.B. (Each)	\$822.50
15	Delete – Arrow Stick	(\$1,000.00)
16	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
17	Delete – Yellow Paint Mfg. Std. White	(\$2,100.00)
18	SRE (Sound Reduction Package)	\$3,619.00
19	Auxiliary Fuse Panel	\$258.50

**NOTE; Arrow Stick (LED) is bid in lieu MODOT Specifications Arrow Board
because of size of sweeper and cab bar light is bid in lieu of strobe lights.**



Bobby L. Johnson, Vice President of Marketing
TYMCO, Inc.

February 21, 2012
Date



REGENERATIVE AIR SWEEPERS



Cabover Cab Chassis

MODEL 210[®] REGENERATIVE AIR SWEEPER[®] GENERAL SPECIFICATIONS

SWEPPER AUXILIARY ENGINE

EngineKubota V2403MT, 4 cyl. (Tier 4i)
Displacement 148.5 cubic inches (2426cc)
Horsepower56 @ 2,600 RPM (41.7 kW)
Net torque..... 121 ft-lb @ 1800 RPM (164 Nm)
Air cleaner, heavy duty Dry type
Oil filter, spin on Full flow
Cooling Liquid
Auxiliary engine shutdown system
Fuel water separator

SWEPPER AUXILIARY ENGINE, GASOLINE (Consult Factory)

BLOWER

Aluminum alloy high volume open face turbine
Purpose Creates blast and suction
BearingsAnti-friction
HousingAbrasion resistant, replaceable liner
Drive Heavy duty power band

DUST SEPARATOR

TypeCyclonic, multipass, centrifugal separation
Size 20" x 22.5"
cylindrical area (508mm x 1549mm)
Location Adjacent to hopper
Particulate removal Through 22.5" x .5"
(572 mm x 13 mm) skimmer slot into hopper
Inspection Access port for cleaning

HOPPER

Capacity (volumetric)2.4 cubic yards
(1.83 m³)
Capacity (useable)2 cubic yards
(1.52 m³)
Construction Welded steel plate
Dump door size 52" x 23"
(1321 mm x 584 mm)
Dumping methodHydraulic with tilt up
Dumping height 60" (1524 mm)

PICK-UP HEAD

Function Air blast and suction chamber
Width 78" I.D. (1981 mm)
Head area..... 2,028 sq. inches (1.31 m²)
Suspension4 springs, 2 drag links
Skids..... DUO-SKIDS[®]
Suction & pressure hose 12" diameter (305 mm)
Pressure bleederIntegral for
leaf/light material pickup
Reverse pick-up head system

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
DriveGear driven from auxiliary engine
Capacity..... 5 GPM (18.925 LPM)
Reservoir 8 gal. (30.3 L) with 80 mesh suction,
sight / temperature gauge
Filter..... 10 micron in-line

CONTROLS

Inside cab (lighted) Pick-up head,
gutter broom(s), ignition and tachometer (auxiliary
engine), voltmeter, low water warning system (for
optional dust control system), all safety lights, hour
meter, pressure bleeder
Outside cabDump

OPTIONAL EQUIPMENT

Abrasion protection package
Amber beacon light
Auxiliary fuse panel
Auxiliary hand hose 6" dia. (152 mm)
Cabover extra water capacity
Cabover storage box
Dust control system
Gutter broom (s)(Left, right or dual)
Drive Constant speed
non-reversible hydraulic motor
Adjustment Adjustable for
down pressure, pattern and wear
Down pressure..... Automatically
adjusts to requirement
Flexibility All directions. Integral anti-damage
"swing away" relief valve
BroomPolypropylene wafer 36"
(914 mm) or steel wire digger 32" (812.8 mm)
Hopper drain system
Hopper slide out screens
Hopper up alarm
LED Lights - Alternating Warning Lights, rear mount
Light bar - Cab mounted
Low emissions package
Magnet
Rubber lined blower
Skid bumper extensions
Sound Reduction Engineering (SRE[®])
Stainless Steel Hopper
Stainless Steel Blower Housing
Color (other than TYMCO standard white)
*Special options are available for your individual
requirements. Contact your local dealer or TYMCO.*

CAB/CHASSIS

Minimum Requirements

ModelIsuzu NPR - HD
GVW 14,500 lbs. (6,583 kg)
Engine, turbo diesel215 hp 5.19 L
Transmission..... Automatic
Alternator..... 110 amp
BatteryDual (2) 750 CCA
Wheelbase..... 132.5" (3365 mm)
Fuel tank, rear mounted 30 gal. (113 L)
DEF Tank Diesel Exhaust Fluid
Tires (2-front, 4-rear)..... 215/85R 16E all season
Steering Power
Brakes Vacuum assisted
hydraulic brakes w/anti-lock
Instruments & lights Full package as required
Back-up alarm
Power windows and door locks
Air conditioned cab
AM / FM CD radio
Consult factory for sweeper specifications and other
available truck chassis.

GENERAL SWEEPING WIDTH

Pick-up head only78" (1981 mm)
With 1 gutter broom98" (2489 mm)
With 2 gutter brooms118" (2997 mm)

OVERALL DIMENSIONS (Approximate)

Length223" (5664 mm)
Width87.75" (2223 mm)
Height @ truck*90" (2286 mm)
Height with light bar 97" (2464 mm)
Empty weight* 9,440 lbs (4286 kg)
Weight (sweeper)* 4,180 lbs (1898 kg)

**Dimensions and weight may vary with equipment.*

1-800-258-9626

www.tymco.com

AQMD PM₁₀ Certified



**STANDARD MODEL 210 CABOVER
TRUCK**

**2012 ISUZU NPR-HD
SPECIFICATIONS
(14,500 GVW)**

'10 Emission Certified



2/12

317 CID (5.19L) Turbocharged and Intercooled Diesel Engine – 215 HP
132.5" Wheelbase; 110" Cab to Axle
6-Speed Automatic Transmission
6,830 lb. Front Axle
14,550 lb. Rear Axle
5,360 lb. Front Springs
9,880 lb. Rear Springs
Power Steering
Vacuum Assisted Hydraulic Brakes - Dual Circuit w/Anti-Lock Brake System
Front Disc Brakes; Self-Adjusting Outboard Mounted Rear Drum Brakes
Tilt & Telescopic Steering Column (N/A with Dual Steering)
12 Volt Heavy Duty Batteries - (2) 750 CCA Maintenance Free
Alternator - 110 Amp
Frame Mounted Fuel/Water Separator with indicator light on instrument cluster
Glow Plug Located in Cylinder Head
(6) 215/85R16E Tires - Duals in Rear
(6) 6 Hole Disc Wheels - Duals in Rear
Cooling System - Engine
Tinted Glass
Dome Light
Cigar Lighter
Mirrors – Exterior with integral convex mirror
Windshield Wipers with Intermittent System
Voltmeter; Engine warning system for low oil pressure, high coolant temperature and low coolant level
Front and Rear Shock Absorbers and Front Stabilizer Bar
Carbon Steel Frame – 7.20 SM (44,000 PSI)
30 Gal. Fuel Tank - Mounted in Frame Rail Behind Rear Axle
High Back Driver's Seat with two occupant passenger seat
Air Conditioner
AM/FM CD Stereo Radio
Power Windows and Door Locks

ITEM # 1: Outright purchase of one (1) new Four Wheel (Vacuum) or Regenerative Air Street Sweeper meeting the attached MoDOT specification.

I am bidding

(MAKE) TYMCO (MODEL) 210

Price: \$ 99,793.00

Cab/Chassis
Make Ford Model F-450
Engine V8 Diesel 6.7L
Electrical System
Amps 200 volts 12
Sweeper (Regenerative or Vacuum) Regenerative
Auxiliary Engine
Engine Kubota Tier 4i
Cylinders 4
HP/RPM 56 @ 2600
Size of fuel tank 30
Water System: gpm 5 psi 25
Tank size 28 gallon (Midship only)
Brooms (Hydraulic or Mech.) Hydraulic
Under Body Transfer Broom
Dimensions N/A Operation N/A
Gutter Broom
Qty 1 Dimensions 36" Polywafer
Hopper Size (Material) 2.4 cub. yds (2)
Hopper Dump Height 60"

Please indicate and list any additional options and its pricing you want to offer:

<u>Option:</u>	<u>Price:</u>	<u>Option:</u>	<u>Price</u>
1. <u>Cab Raise Assist Jack</u>	\$ <u>N/A</u>	5. <u>Dump Switch in Cab</u>	\$ <u>188.00</u>
2. <u>Air Purge - DCS</u>	\$ <u>188.00</u>	6. <u>Hopper Drain System</u>	\$ <u>329.00</u>
3. <u>Aux.Hand Hose 6" dia</u>	\$ <u>705.00</u>	7. <u>Delete: Hopper Load Ind.</u>	\$ <u>(376.00)</u>
4. <u>AHH Nozzle Extension 42"</u>	\$ <u>423.00</u>	8. <u>Hyd. Oil Restrictor Indicator</u>	\$ <u>94.00</u>

Delivery will be made approximately 90-150 days after receipt of order.

MO DOT Bid # 3-120223RJ, February 23, 2012
TYMCO Model 210 Options – Continued

Number	Option	Price
9	Pick-Up Head Hour Meter – Delete	(\$235.00)
10	Back Pack Blower Box	\$705.00
11	Reverse Pick-Up Head System	\$376.00
12	Stainless Steel Hopper (Delete)	(\$5,900.00)
13	Parabolic Mirror 12” (Exchange)	\$60.00
14	Delete – Arrow Stick	(\$1,000.00)
15	Delete – Truck Parts/Shop Manual (Set)	(\$700.00)
16	Delete – Yellow Paint Mfg. Std. White	(\$2,100.00)
17	SRE (Sound Reduction Package)	\$3,619.00
18	Auxiliary Fuse Panel	\$258.50
19	Hydraulic Level/Temp Shutdown System	
	Delete	(\$500.00)

NOTE; Arrow Stick (LED) is bid in lieu MODOT Specifications Arrow Board because of size of sweeper and cab bar light is bid in lieu of strobe lights.

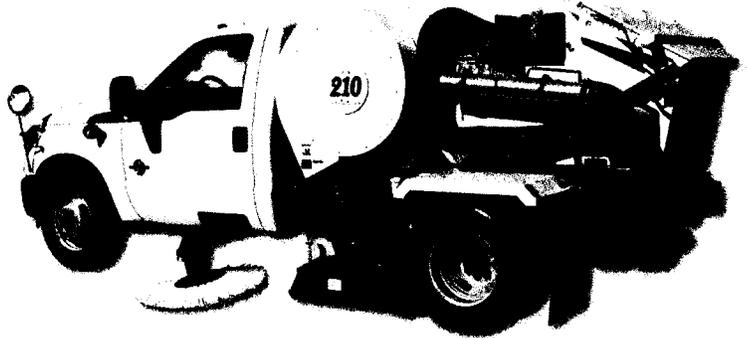
The Ford F450 bid price does not include the following because of the truck cab Configuration:

1. Dual Steering
2. Twin vertical digger gutter brooms. (Just one left gutter broom – polywafer is Supplied).
3. Electric Mirrors – The TYMCO Stock chassis F450 will have (2) manually Telescoping mirrors
4. Cab light bar (LED) in lieu of strobes.



Bobby L. Johnson, Vice President of Marketing
TYMCO, Inc.

February 21, 2012
Date



Conventional Cab Chassis

**MODEL 210[®] REGENERATIVE AIR SWEEPER[®]
GENERAL SPECIFICATIONS**

SWEEPER AUXILIARY ENGINE

EngineKubota V2403MT, 4 cyl. (Tier 4i)
 Displacement 148.5 cubic inches (2426CC)
 Horsepower56 @ 2,600 RPM (30 kW)
 Net torque..... 121 ft-lb @ 1800 RPM (164 Nm)
 Air cleaner, heavy duty Dry type
 Oil filter, spin on Full flow
 Cooling Liquid
 Auxiliary engine shutdown system
 Auxiliary engine fuel system
 Fuel water separator

**SWEEPER AUXILIARY ENGINE, GASOLINE
(Consult Factory)**

BLOWER

Aluminum alloy high volume open face turbine
 Purpose Creates blast and suction
 BearingsAnti-friction
 HousingAbrasion resistant, replaceable liner
 Drive Heavy duty power band

DUST SEPARATOR

TypeCyclonic, multipass, centrifugal separation
 Size 20" x 22.5" cylindrical area (508mm x 1549mm)
 Location Adjacent to hopper
 Particulate removal Through 22.5" x .5" (572 mm x 13 mm) skimmer slot into hopper
 Inspection Access port for cleaning

HOPPER

Capacity (volumetric)2.4 cubic yards (1.83 m³)
 Capacity (useable)2 cubic yards (1.52 m³)
 Construction Welded steel plate
 Dump door size 52" x 23" (1321 mm x 584 mm)
 Dumping methodHydraulic with tilt up
 Dumping height 60" (1524 mm)

PICK-UP HEAD

Function Air blast and suction chamber
 Width78" I.D. (1981 mm)
 Head area 2,028 sq. inches (1.31 m²)
 Suspension4 springs, 2 drag links
 Skids DUO-SKIDS[®]
 Suction & pressure hose 12" diameter (305 mm)
 Pressure bleederIntegral for leaf/light material pickup
 Reverse pick-up head system

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 DriveGear driven from auxiliary engine
 Capacity5 GPM (18.925 LPM)
 Reservoir 8 gal. (30.3 L) with 80 mesh suction, sight / temperature gauge
 Filter 10 micron in-line

CONTROLS

Inside cab (lighted) Pick-up head, gutter broom(s), ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for optional dust control system), all safety lights, hour meter, pressure bleeder
Outside cabDump

OPTIONAL EQUIPMENT

Abrasion protection package
 Amber beacon light
 Auxiliary fuse panel
 Auxiliary hand hose 6" dia. (152 mm)
 Back pack storage box
 Dust control system
 Gutter broom (s)(Left, right or dual)
 Drive Constant speed non-reversible hydraulic motor
 Adjustment Adjustable for down pressure, pattern and wear
 Down pressure Automatically adjusts to requirement
 Flexibility All directions. Integral anti-damage "swing away" relief valve
 Broom Polypropylene wafer 36" (914 mm) or steel wire digger 32" (812.8 mm)
 Hopper drain system
 Hopper up alarm
 Hopper slide out screens
 Light bar - Cab mounted
 Low emissions package
 Magnet
 Rubber lined blower
 Skid bumper extensions
 Stainless Steel Blower Housing
 Sound Reduction Engineering (SRE[®])
 Stainless Steel Hopper
 Color (other than TYMCO standard white)
Special options are available for your individual requirements. Contact your local dealer or TYMCO.

AQMD PM₁₀ Certified

CAB/CHASSIS

Minimum Requirements

ModelFord F450
 GVW 16,500 lbs. (7,491 kg)
 Engine, turbo diesel6.7 L
 Cooling Radiator and transmission oil, heavy duty
 TransmissionAutomatic
 Alternator200 amp
 BatteryDual (2) 750 CCA
 Wheelbase 141" (3581 mm)
 Fuel tank, mid-ship mounted (L.H.) only.....28 gal. (106 L)
 Diesel exhaust fluid tank..... 5 gal. (18.93 L)
 Tires (2-front, 4-rear)LT245/75R 17E all season
 Steering Power
 Brakes Power w/anti-lock
 Instruments & lightsFull package as required
 Tow hooks (front)
 Back-up alarm
 Air conditioned cab
 AM/FM stereo radio w/lock
 Consult factory for sweeper specifications and other available truck chassis.

GENERAL SWEEPING WIDTH

Pick-up head only78" (1981 mm)
 With 1 gutter broom98" (2489 mm)
 With 2 gutter broom s118" (2997 mm)

OVERALL DIMENSIONS (Approximate)

Length226" (5740 mm)
 Width96" (2438 mm)
 Height @ truck*78" (1981 mm)
 Height with light bar 85" (2159 mm)
 Empty weight* 9,860 lbs (4476 kg)
 Weight (sweeper)* 4,180 lbs (1898 kg)

**Dimensions and weight may vary with equipment.*

1-800-258-9626

www.tymco.com



OPTIONAL MODEL 210 CONVENTIONAL TRUCK



4/11

2012 FORD F450-D SPECIFICATIONS (16,000 GVW) '10 Emission Certified

V8 (6.7L) Turbocharged Diesel Engine, 300 HP@ 2800 rpm; 660 ft. lbs. torque
@ 1,600 rpm
141" Wheelbase; 60" Cab to Axle
6-Speed TorqShift® Automatic Transmission w/Overdrive, Electronic Control
7,000 lb. Front Axle
12,000 lb. Rear Axle
4.10 Rear Axle Ratio
4,800-7,000 lb. Front Springs (varies based on configuration)
12,000 lb. Rear Springs
Power Steering
Power Brakes with Four (4) Wheel Anti-Lock; Disc – Front and Rear
12 Volt Heavy Duty Batteries - (2) 750 CCA Maintenance Free
Alternator – 200 amp Heavy Duty
(6) 225/70R19.5G All Season Tires - Duals in Rear
(6) 8-Hole Disc Wheels - Duals in Rear
Cooling System - Engine & Transmission Oil
Tinted Glass
Dome Light
Cigar Lighter
Mirrors – Black, Manual Telescoping Trailer Tow (fold-away)
Windshield Wipers with Intermittent System
AM/FM Stereo Radio w/Digital Clock
Temperature, Oil pressure, Coolant Temperature, Transmission Temperature
Gauge, and indicator lights and Tachometer
Front and Rear Shock Absorbers and Stabilizer Bars
Carbon Steel Frame - 7.04 SM (36,000 PSI)
28 Gal. Fuel Tank – **Midship mounted ONLY**
40/20/40 Split HD Vinyl Seats
Air Conditioner
Tow Hooks (2) - Front
Color: Oxford White



February 22, 2012

Ms. Reva Jones –Senior General Services Specialist
Missouri Department of Transportation
General Services Division - Fleet
830 MoDOT Drive
Jefferson City, MO 65109

Re: Bid for Street Sweepers
Bid Request 3-120223RJ
Bid Opening – February 23, 2012 Time: 2:00 P.M.

Dear Ms. Jones:

Thank you for the opportunity to bid to the State of Missouri Department of Transportation. We are enclosing in our bid package the following bids on **Item #1** Outright purchase of (1) one new Four Wheel (Vacuum) or Regenerative Air Street Sweeper, 4. Pricing Page,4.1, page 7 of 13.

Item #1 Outright Purchase – See Attached Completed Bid Forms:

1. TYMCO Model 600 BAH Regenerative Air Sweeper mounted on new 2013 International 4300- M7 truck chassis.
2. TYMCO Model 600 BAH Regenerative Air Sweeper mounted on new 2010 UD 3300 cabover truck chassis.
3. TYMCO Model DST-6 mounted on new 2010 UD 3300 cabover chassis.
4. TYMCO Model 600 HSP – High Speed Performance Airport Runway Sweeper mounted on new 2013 International 4300-M7 truck chassis.
5. TYMCO Model 500x mounted on new 2013 International 4300-M7 truck chassis.
6. TYMCO Model 435 mounted on new 2012 Isuzu NQR truck chassis.
7. TYMCO Model 435 mounted on new 2013 International 4300-M7 truck chassis.
8. TYMCO Model 210 mounted on new 2012 Isuzu NPR-HD truck chassis.
9. TYMCO Model 210 mounted on new 2012 Ford F-450 truck chassis.

Ms. Reva Jones
February 22, 2012
Page 2

TYMCO, Inc. is offering our REGENERATIVE AIR SWEEPERS statewide and our local Missouri dealer will furnish local training, parts, service and warranty support along with TYMCO support staff. The TYMCO Dealer listed below is responsible for all MoDOT locations:

Armor Equipment

1368 Lonedell Road

Arnold, MO 63010

Ph. 636-296-7119

Toll Free 800-777-2766

Contacts: Mr. Tripp Manheimer, President
Mr. Dennis Callanan, Sales Manager

We are also enclosing with the bid Item #1 forms, including completed pages (TYMCO's only manufacturing location is in Waco, Texas USA), and product literature, general specifications, truck chassis specifications and company information.

Please call me at 1-800-258-9626 to answer any questions about TYMCO, our dealer and our product offerings in this bid. We look forward to working with the Missouri Department of Transportation and any cities, counties and public entities desiring to buy off the MoDOT bid.

Sincerely,
TYMCO, Inc.



Bobby L. Johnson

Vice President of Marketing

bobby.johnson@tymco.com or tymcosales@tymco.com

Enclosures