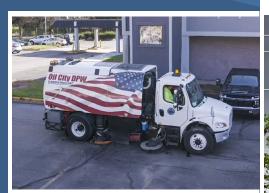
## Schwarze Industries, Inc. Sweeping & Surface Repair Equipment











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Schwarze Industries, Inc.

## Sweeping & Surface Repair Equipment

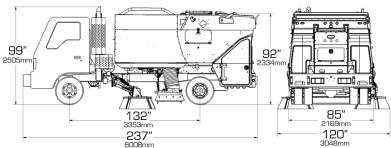
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# A4 Storm 4.5 Cubic Yard Regenerative Air Street Sweeper



## A4 Storm 4.5 Cubic Yard Regenerative Air Street Sweeper





\* TYPICAL MEASUREMENTS SHOWN . EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER

SWEEPING PAT	H	DUST CONTROL	SYSTEM	SIDE BROOMS	
Pickup head only	80 in (2,032 mm)	Туре	Electric diaphragm,	Type	Vertical steel digger
Pickup head and	00 ( <u>2</u> ,002)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	run dry capable	Location	Right, Left, forward of
one gutter broom	100 in (2,540 mm)	Capacity	130 gal (492 L) standard	2000000	pickup head
Pickup head and	(_, ,		optional to 196 gal (684 L)	Diameter	39 in (991 mm)
two gutter brooms	120 in (3,048 mm)	Tank construction	Polyethylene	Drive	Hydraulic torque motor
5		Filter	50 mesh, cleanable	Wear adjustment	Automatic
CHASSIS		Fill diameter	2.5 in (63.5 mm)	Pressure	Manual
Model / type	4HK1-TC / 4 cycle	Fill hose	25 ft (7620 mm)	Speed	Variable, non-reversing
Manufacturer	lsuzu	Controls	Electric; in-cab	Segments	4 each side, disposable;
Number of Cylinders		Nozzles	2 on each broom;	-	tempered steel wire filled
Displacement	317 cu in (5.26 L)		4 around suction head;	Tilt adjustment	Manual with optional
Horsepower	215 @ 2500 rpm		4 inside hopper		in-cab controls
Torque	452 lb-ft @ 1800 rpm				
Fuel	Diesel	FAN SYSTEM		DEBRIS HOPPER	
Air filter	Dry type; heavy duty	Туре	Closed-face radial	Volumetric Capacity	4.5 cu y
Standard GVWR	14,500 lb (6,577 kg)	Drive	Direct via 3V 5 groove		(3.4 cu m)
Optional GVWR	17,950 lb (8,142 kg)		banded power belt	Construction	10 gauge
Transmission	A465; 6 speed automatic	Construction	Hardox Steel	Type of Dumping	Hydraulic
Tires	(6) Tubeless steel-belted	Balance	1.5 grams on 2 sides	Inspection Doors	1 on each side of hopper
	radials 225/70 R 19.5	Diameter	30 in (762 mm)	Controls	Electric; in cab
Wheels	Steel construction	Housing lining	Bolt-in corded rubber	Dumping Height	77 in (1956 mm)
Steering	Integral power;	Mounting	2 sealed bearings	Dumping Tilt Angle	88 degrees
Brake	Vacuum/hydraulics	Vacuum enhancer	For heavy/light material	Interior Coating	Durable coating
	with ABS		_	Exterior Coating	Sealer/primer;
		SWEEPING HEA	n		Polyurethane
					r olyaroonano
		Туре	Dual chambered full-width		,
Туре	QSF2.8 diesel Tier 4F	Туре	Dual chambered full-width Adjustable blast orifice		STEM
Type Manufacturer	QSF2.8 diesel Tier 4F Cummins	Type Operating direction	Dual chambered full-width Adjustable blast orifice Forward and reverse	Туре	STEM Fixed displacement gear
Type Manufacturer Displacement	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L)	Type Operating direction Suspension	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced	Type Drive	STEM Fixed displacement gear Direct gear
Type Manufacturer Displacement Brake horsepower	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm	Type Operating direction Suspension Length	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm)	Type Drive Maximum pressure	STEM Fixed displacement gear Direct gear 2500 psi (173 bar)
Type Manufacturer Displacement Brake horsepower Cooling system	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled	Type Operating direction Suspension Length Hoses Diameter	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm)	Type Drive Maximum pressure Reservoir	STEM Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L)
Type Manufacturer Displacement Brake horsepower	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element,	Type Operating direction Suspension Length	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm)	Type Drive Maximum pressure Reservoir Filter	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on
Type Manufacturer Displacement Brake horsepower Cooling system	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction	Type Operating direction Suspension Length Hoses Diameter	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded	Type Drive Maximum pressure Reservoir Filter Protection	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve
Type Manufacturer Displacement Brake horsepower Cooling system	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal	Type Operating direction Suspension Length Hoses Diameter	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick	Type Drive Maximum pressure Reservoir Filter	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on
Type Manufacturer Displacement Brake horsepower Cooling system	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction	Type Operating direction Suspension Length Hoses Diameter	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded	Type Drive Maximum pressure Reservoir Filter Protection Controls	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner	Type Operating direction Suspension Length Hoses Diameter Hose Construction	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic	Type Operating direction Suspension Length Hoses Diameter Hose Construction	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic	Type Operating direction Suspension Length Hoses Diameter Hose Construction	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer;	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice.	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter;	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control Instrumentation Control console	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter; temperature; oil pressure. Tilting and rotating	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable steel transitions.	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice.	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control Instrumentation Control console ELECTRICAL SYS	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter; temperature; oil pressure. Tilting and rotating	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction PAINT One coat of sealer/p	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable steel transitions.	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice. *Ask us about o	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh tions subject to change
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control Instrumentation Control console ELECTRICAL SYS Voltage	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter; temperature; oil pressure. Tilting and rotating STEM 12 volt	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction <b>PAINT</b> One coat of sealer/p Dupont imron elite p	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable steel transitions.	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice. *Ask us about o	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh tions subject to change
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control Instrumentation Control console ELECTRICAL SYS Voltage Battery	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter; temperature; oil pressure. Tilting and rotating <b>STEM</b> 12 volt 2 @ 750 cca each	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction PAINT One coat of sealer/p	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable steel transitions.	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice. *Ask us about o	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh tions subject to change
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control Instrumentation Control console ELECTRICAL SYS Voltage Battery Alternator	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter; temperature; oil pressure. Tilting and rotating <b>STEM</b> 12 volt 2 @ 750 cca each 120 amp	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction <b>PAINT</b> One coat of sealer/p Dupont imron elite p	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable steel transitions.	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice. *Ask us about o	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh tions subject to change
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control Instrumentation Control console ELECTRICAL SYS Voltage Battery	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter; temperature; oil pressure. Tilting and rotating <b>STEM</b> 12 volt 2 @ 750 cca each	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction <b>PAINT</b> One coat of sealer/p Dupont imron elite p	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable steel transitions.	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice. *Ask us about o	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh tions subject to change
Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Throttle control Instrumentation Control console ELECTRICAL SYS Voltage Battery Alternator	QSF2.8 diesel Tier 4F Cummins 171 cu in [2.8 L] 74 @ 2500 rpm Liquid-cooled Dual element, dry-type with restriction indicator; centrifugal pre-cleaner Three-point automatic Electronic Digital display Tachometer; hourmeter; voltmeter; temperature; oil pressure. Tilting and rotating <b>STEM</b> 12 volt 2 @ 750 cca each 120 amp	Type Operating direction Suspension Length Hoses Diameter Hose Construction Controls Skids Construction <b>PAINT</b> One coat of sealer/p Dupont imron elite p	Dual chambered full-width Adjustable blast orifice Forward and reverse Adjustable spring balanced 80 in (2,032 mm) 12 in (305 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber with quick disconnect clamps Hydraulic raise and lower Double wide tungsten carbide Bolt in replaceable steel transitions.	Type Drive Maximum pressure Reservoir Filter Protection Controls Filter Design and specificat without notice. *Ask us about o	Fixed displacement gear Direct gear 2500 psi (173 bar) 16 gal (60.6 L) 10 micron, spin on Pressure relief valve Electro-hydraulic 80 mesh tions subject to change





# A7 Tornado TE 8.4 Cubic Yard Regenerative Air Street Sweeper



(SHOWN WITH OPTIONAL 615 GALLON WATER SYSTEM)

\* TYPICAL MEASUREMENTS SHOWN EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUEACTURED

Auxiliary engine

#### SWEEPING PATH Pickup head only

Head and 1 broom Head and 2 brooms

117 in (2972 mm) 144 in (3658 mm)

90 in (2286 mm)

#### **CHASSIS**

Mounts on various chassis to meet requirements

SWEEPER	BOD
Construction	

Construction	Welded 10-gauge
	stainless steel plate
Safety props	Lift spacers

## 

STANDARD ENGI	NE
Model/type Aspiration	4045T in-line 4 cylinder Tier 4 Final turbo-charged diesel
Manufacturer Displacement	John Deere 275 cu in. (4.5 L)
Brake horsepower	134 hp (100 kw) @ 2400 rpm
Torque	© 2400 rpm 398 ft lb (540 Nm) ©1600 rpm
Air cleaner	Centrifugal precleaner; dry type with safety element and restriction indicator
Oil filter Stroke Bore	Full-flow/spin-on 5 in (127 mm) 4.20 in (106 mm)
Compression ratio Safety shutdown Throttle control	19 to 1 Three-point automatic Electronic

#### SWEEPER ELECTRICAL SYSTEM 12 V

Voltage Engine alternator

#### DUST CONTROL SYSTEM

iype	High pressure/ low volume
Capacity	250 gallon (946 L)
Tank construction	Polyethylene filter;
	50 mesh; cleanable
Fill diameter	2.5 in (63.5 mm)
Fill hose	25 ft (7620 mm)
Controls	Electric; in-cab
Nozzles	2 on each broom;
	5 around suction head;
	2 inside suction nozzle;
	2 on front axle;
	2 inside hopper
Water level gauge	In-cab

90 amp

#### INSTRUMENTATION

Flat panel display; tachometer; hourmeter; voltmeter; temperature gauge; oil pressure gauge; warning icons

Closed-face radial

96"

2438 mm

144'

3658 mm

#### **FAN SYSTEM**

Туре Drive Construction Balance Diameter Housing lining Mounting Vacuum enhancer

#### **PICKUP HEAD** Туре

Operating direction Suspension Length Pressure hose diam Suction hose diam Hose construction

Head area Controls Skids

Construction

Type

14 in (355.6 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber 3240 sq in (20903 sq cm) Hydraulic raise and lower Double wide tungsten carbide Abrasion-resistant steel inlet and outlet transitions.

90 in (2286 mm)

14 in (355.6 mm)

#### SIDE BROOMS

Location Diameter Drive Suspension Wear adjustment Pressure Speed Segments Tilt angle adjustment

Vertical steel digger Right; left; forward of pickup head . 44 in<sup>`</sup> (1118 mm) Hydraulic Torque-sensing spring Automatic Manual Variable; non-reversing 5 each side; disposable In-cab controls

#### **DEBRIS HOPPER**

Volumetric capacity Usable Capacity Dump angle Floor angle Lifting Hopper dump door Inspection doors

Hopper dump height Debris screens

8.4 cu yd (6.4 cu m) 7.0 cu yd (5.4 cu m) 51 degrees 3 degrees Twin hydraulic cylinders Hydraulic open, close, lock 1 on each side, pressure vessel lock 40 in (1016 mm) Sawtooth drop down

#### **HYDRAULIC SYSTEM**

Type Pump capacity Drive Maximum pressure Reservoir

Dual output 2 section 8 gpm @ 1800 rpm (30 lpm) per section for 16 gpm total Direct gear 2750 psi (190 bar) 25 gal (94 L) 10 micron; spin on Pressure relief valve Electro-hydraulic

#### **AUXILIARY HYDRAULIC SYSTEM**

Туре Function

Filter

Protection

Controls

Gear type; driven by electric motor Lower hopper; open/close hopper door; raise brooms and pickup head

#### PAINT

One coat of sealer/primer and two coats of Dupont imron elite polyurethane in standard white color

### **OPTIONAL SWEEPER EQUIPMENT**

Special Paint Front Mounted Magnet Bar Amber Beacon Strobe Light Kit Arrowboard Kit Additional Flood Lights Hopper Hand Hose Remote Drop Down Screens Hopper Dump Assist Shaker 12-volt Auxiliary Hydraulic System Dual Steeling and Controls Extra Water **High Pressure Front Spraybar** High Pressure Wash Dow Side Air Blast Head Hopper Deluge Head Drain **Dual Outside Hopper Controls** Lifetime Hopper Warranty Short Wheelbase Chassis

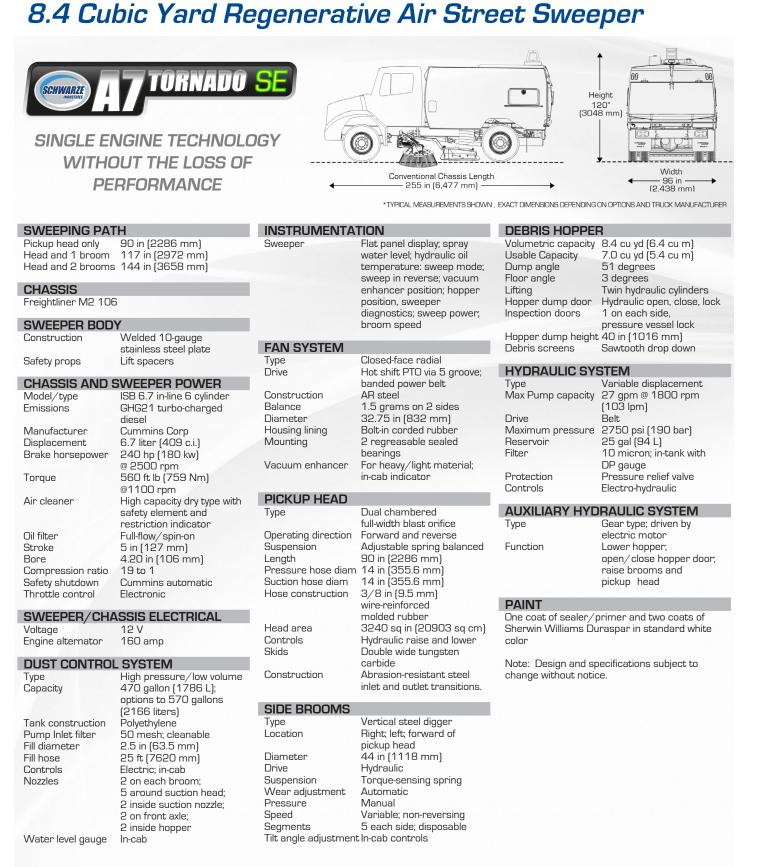
Note: Design and specifications subject to change without notice

Direct via 5 groove; banded power belt Hardox steel 1.5 grams on 2 sides 32.75 in (832 mm) Bolt-in corded rubber 2 regreasable sealed bearings For heavy/light material: in-cab indicator Dual chambered full-width blast orifice Forward and reverse Adjustable spring balanced

## A7 Tornado SE 8.4 Cubic Yard Regenerative Air Street Sweeper



# A7 Tornado SE



# A7 Zephyr TE 8.4 Cubic Yard Regenerative Air Runway Sweeper



# A7 Zephyr TE 8.4 Cubic Yard Regenerative Air Runway Sweeper

96'

2438 mm

144'

250 gallon (946 L)

Polyethylene filter;

2.5 in (63.5 mm)

25 ft (7620 mm)

2 on each broom;

5 around suction head;

2 inside suction nozzle;

Electric; in-cab

2 on front axle;

50 mesh; cleanable

volume



3658 m \* TYPICAL MEASUREMENTS SHOWN, EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER

#### SWEEPING PATH

Pickup head only 90 in (2286 mm) Pickup head and one gutter broom 117 in (2972 mm) Pickup head and 144 in (3658 mm) two gutter brooms

**CHASSIS** Mounts on various chassis to meet requirements

Welded 10-gauge

Lift spacers

stainless steel plate

#### SWEEPER BODY

Construction Safety props

#### **AUXILIARY ENGINE**

4045T in-line 4 cylinder Model/type Tier 4 Final turbo-charged Aspiration diesel Manufacturer John Deere 275 cu. ln. (4.5 L) Displacement 134 hp (100 kw) Brake horsepower @ 2400 rpm 398 ft lb (540 Nm) Torque @1500 rpm Air cleaner Centrifugal pre cleaner; dry type with safety element and restriction indicator Full-flow/spin-on Oil filter Stroke 5 in (127 mm) 4.20 in (106 mm) Bore Compression ratio 19 to 1 . Safety shutdown Three-point automatic Throttle control Electronic

#### HYDRAULIC SYSTEM

Dual output 2 section Type Pump capacity 8 apm @ 1800 rpm (30 lpm) per section for 16 gpm total Drive Direct gear Maximum pressure 2750 psi (190 bar) Reservoir 25 gal (94 L) Filter 10 micron; spin on Protection Pressure relief valve Electro-hydraulic Controls

#### **AUXILIARY HYDRAULIC SYSTEM**

Туре Function Gear type; driven by electric motor Lower hopper; open/close hopper door; raise brooms and

#### DUST CONTROL SYSTEM Туре High pressure/low

#### Capacity Tank construction Fill diameter Fill hose Controls Nozzles

Water level gauge

#### **FAN SYSTEM** Туре

Drive Construction Balance Diameter Housing lining Mounting

Closed-face radial Direct via 5 groove; banded power belt Hardox steel 1.5 grams on 2 sides 32.75 in (832 mm) Bolt-in corded rubber 2 regreasable sealed bearings

## in-cab indicator

Mechani-Pneumatic. dual chambered full-width blast orifice with windrow angle Operating direction Forward and reverse Adjustable spring balanced 90 in (2286 mm) Pressure hose 14 in (355.6 mm) Suction hose 14 in (355.6 mm) 3/8" (9.5 mm) Hose construction wire-reinforced molded rubber 3240 sq in (20903 sq cm) Hydraulic raise and lower Double wide tungsten carbide Construction Abrasion-resistant steel inlet and outlet transitions.

#### SIDE BROOMS

- Tvpe Location
- Diameter Drive Suspension . Wear adjustment Pressure Speed Segments Tilt angle adjustment

Vertical steel digger Right; left; forward of pickup head 44 in (1118 mm) Hydraulic Torque-sensing spring Automatic Manual Variable; non-reversing 5 each side; disposable In-cab controls

Flat panel full color display;

tachometer; hourmeter;

voltmeter; temperature

warning icons

gauge; oil pressure gauge;

#### INSTRUMENTATION

Auxiliary engine

**DEBRIS HOPPER** Volumetric capacity Usable Capacity Dump angle Floor angle Lifting Hopper dump door Inspection doors Hopper dump height Debris screens

8.4 cu yd (6.4 cu m) 7.0 cu yd (5.4 cu m) 51 degrees 3 degrees Twin hydraulic cylinders Hydraulic open, close, lock 1 on each side, pressure vessel lock 40 in (1016 mm) Sawtooth drop down

#### **ELECTRICAL SYSTEM**

Voltage Sweeper engine alternator

12 V 90 amp

#### PAINT

One coat of sealer/primer and two coats of Dupont imron elite polyurethane in standard white color

#### **OPTIONAL SWEEPER EQUIPMENT**

Special Paint Front Mounted Magnet Bar Amber Beacon Strobe Light Kit Arrowboard Kit Additional Flood Lights Hopper Hand Hose Remote Drop Down Screens Hopper Dump Assist Shaker 12-volt Auxiliary Hydraulic System **Dual Steeling and Controls** Extra Water High Pressure Front Spraybar High Pressure Wash Dow Side Air Blast Head Hopper Deluge Head Drain Dual Outside Hopper Controls Lifetime Hopper Warranty Short Wheelbase Chassis

Note: Design and specifications subject to change without notice.

- 2 inside hopper In-cab

**PICKUP HEAD** 

Tvpe

Suspension

Length

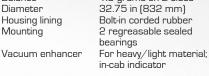
diameter

diameter

Head area

Controls

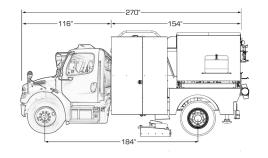
Skids



# AS Twister TE 6 Cubic Yard High Dump Regenerative Air Sweeper



# **A8** Twister TE 6 Cubic Yard High Dump Regenerative Air Sweeper



#### SWEEPING PATH

Pickup head only Pickup head and one side broom Pickup head and two side brooms

90 in (2286 mm) 117 in (2972 mm) 144 in (3658 mm)

gauge; warning icons

#### CHASSIS

Mounts on various chassis to meet requirements

#### SWEEPER BODY Construction Welded 10-gauge stainless steel plate Safety props Lift spacers

INSTRUMENTATION Auxiliary engine Flat panel display; tachometer; hourmeter; voltmeter: temperature gauge; oil pressure

#### **AUXILIARY ENGINE**

Model/type	4045T in-line 4 cylinder
Aspiration	Tier 4 Final turbo-charged
	diesel
Manufacturer	John Deere
Displacement	275 cu in (4.5 L)
Brake horsepower	134 hp (100 kw)
	@ 2400 rpm
Torque	398ft lb (540 Nm)
	@1600 rpm
Air cleaner	Centrifugal precleaner;
	dry type with safety
	element and restriction
	indicator
Oil filter	Full-flow/spin-on
Stroke	5 in (127 mm)
Bore	4.20 in (106 mm)
Compression ratio	19 to 1
Safety shutdown	Three-point automatic
Throttle control	Electronic

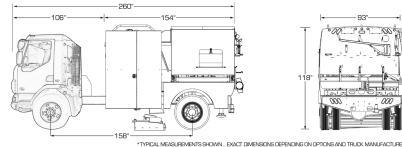
#### **ELECTRICAL SYSTEM** 12 V

Voltage Sweeper engine alternator

#### DUST SUPPRESSION SYSTEM

65 amp

- Туре Capacity Tank construction
- Fill diameter Fill hose Controls
- High pressure/low volume 250 gal (946 L) Polyethylene filter; 200 mesh; cleanable 2.5 in (63.5 mm) 25 ft (7620 mm) Electric; in-cab



2 on each broom; Nozzles 5 around suction head; 2 inside suction nozzle; 2 on front axle: 4 inside hopper Water level gauge In-cab **FAN SYSTEM** Closed-face radial Direct via 5 groove; banded power belt Construction Hardox steel 1.5 g on 2 sides Balance 32.75 in (832 mm) Diameter Housing lining Bolt-in corded rubber 2 regreaseable sealed Mounting bearings Vacuum enhancer For heavy/light material; in-cab indicator **PICKUP HEAD:** Dual chambered full-width blast orifice Operating direction Forward and reverse Suspension Adjustable spring balanced 90 in (2286 mm) Pressure hose 14 in (355.6 mm) diameter Suction hose

Dust suppression system cont'd

#### 14 in (355.6 mm) 3/8 in (9.5 mm)Hose construction wire-reinforced molded rubber 3240 sq in (20 903 sq cm) Hydraulic raise and lower Double wide tungsten carbide Construction Abrasion-resistant steel inlet and outlet transitions

#### PAINT

Туре

Drive

Туре

Lenath

diameter

Head area

Controls

Skids

One coat of sealer/primer and two coats of Dupont imron elite polyurethane in standard white color

#### SIDE BROOMS

Туре Location Diameter Drive Suspension Wear adjustment Vertical steel digger Right; left; forward of pickup head 44 in (1118 mm) Hydraulic Torque-sensing spring Automatic

#### Side brooms cont'd

Pressure Speed Segments

Manual Variable; non-reversing 5 each side; disposable Tilt angle adjustment Manual with optional in-cab controls

93

aa

#### DEBRIS HOPPER

Function

Volumetric capacity	6 cu yd
	(4.59 cu m)
Dump angle	50 degrees
Floor angle	0 degrees
Lifting	Twin hydraulic
	cylinders scissor-lift
Hopper dump door	Full height; full width
	open/close/lock
	hydraulically
Inspection doors	1 on left side of hopper
Dump height	24 in to 144 in high
Construction	Stainless steel floor; sides and roof

118

000

### HYDRAULIC SYSTEM

Туре	Dual output 2 section
Pump capacity	8 gpm @ 1800 rpm
	(30 lpm) per section
	for 16 gpm total
Drive	Direct gear
Maximum pressure	2750 psi (190 bar)
Reservoir	25 gal (94 L)
Filter	10 micron; spin on
Protection	Pressure relief valve
Controls	Electro-hydraulic
	-

#### AUXILIARY HYDRAULIC SYSTEM Туре

Gear type; driven by electric motor Lower hopper; open/close hopper door; raise brooms and pickup head

Note: Design and specifications subject to change without notice.



## AS Twister SE 6 Cubic Yard High Dump Regenerative Air Sweeper



# **A8** Twister SE 6 Cubic Yard High Dump Regenerative Air Sweeper

INSTRUMENTATIO

**FAN SYSTEM** 

Construction

Housing lining

Vacuum enhancer

**PICKUP HEAD** 

Operating direction

Hose construction

Pressure hose diam 14 Suction hose diam

Suspension

Head area

Controls

Skids

Length

Balance Diameter

Mounting

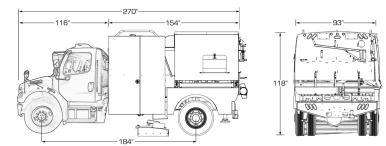
Туре

Туре Drive

Sweeper



## SINGLE ENGINE TECHNOLOGY WITHOUT THE LOSS OF PERFORMANCE



\*TYPICAL MEASUREMENTS SHOWN, EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTUREF

### SWEEPING PATH

Pickup head only 90 in (2,286 mm) Head and 1 broom 117 in (2,972 mm) Head and 2 brooms 144 in (3,658 mm)

#### CHASSIS

Freightliner M2 106

SWEEPER BOD	Y
Construction	Welded 10-gauge stainless steel plate
Safety props	Lift spacers
CHASSIS AND S	SWEEPER POWER
Model/type Emissions	ISB 6.7 in-line 6 cylinder GHG21 turbo-charged diesel
Manufacturer	Cummins Corp
Displacement	6.7 liter (409 c.i.)
Brake horsepower	240 hp (180 kw)
	@ 2500 rpm
Torque	560 ft lb (759 Nm) @1100 rpm
Air cleaner	High capacity dry type with
	safety element
	and restriction indicator
Oil filter	Full-flow/spin-on
Stroke	5 in (127 mm)
Bore	4.20 in (106 mm)
Compression ratio	19 to 1
Safety shutdown	Cummins automatic
Throttle control	Electronic

#### SWEEPER/CHASSIS ELECT. SYSTEM 12 V

160 amp

Voltage Engine alternator

#### DUST CONTROL SYSTEM

Туре	High pressure/low volume	Construction	Abrasion-resistant steel	Note: Des
Capacity	470 gallon (1,786 L)		inlet and outlet transitions.	change wit
	Options to 570 gallon			
	(2,166 L)	SIDE BROOMS		
Tank construction	Polyethylene	Туре	Vertical steel digger	
Filter	50 mesh; cleanable	Location	Right; left; forward of	
Fill diameter	2.5 in (63.5 mm)		pickup head	
Fill hose	25 ft (7,620 mm)	Diameter	44 in (1,118 mm)	
Controls	Electric; in-cab	Drive	Hydraulic	
Nozzles	2 on each broom;	Suspension	Torque-sensing spring	
	5 around suction head;	Wear adjustment	Automatic	
	2 inside suction nozzle;	Pressure	Manual	
	2 on front axle;	Speed	Variable; non-reversing	
	2 inside hopper	Segments	5 each side; disposable	
Water level gauge	In-cab	Tilt angle adj.	In-cab controls	

	ΓΙΟΝ	DEBRIS HOPPER	2
	Flat panel display; spray water level;	Volumetric capacity	6 c (4.
	hydraulic oil temperature;	Dump angle	50
	sweep mode; sweep in	Floor angle	Οc
	reverse; vacuum enhancer	Lifting	Tw
	position; hopper position;		cyli
	sweeper diagnostics;	Hopper dump door	Ful
	broom speed; sweep power		ope
		Inspection doors	hyc 1 c
	Closed-face radial	Dump height	24
	Hot shift PTO via 5 groove;	Construction	Sta
	banded power belt		sid
	AR steel		
	1.5 grams on 2 sides	HYDRAULIC SYS	
	32.75 in (832 mm)	Туре	Vari
	Bolt-in corded rubber	Max Pump capacity	27 (
	2 regreasable sealed bearings	Drive	(103 Belt
	For heavy/light material;	Maximum pressure	2,75
	in-cab indicator	Reservoir	25 g
		Filter	10 r
		Protection	Pres
	Dual chambered	Controls	Elec
	full-width blast orifice		
	Forward and reverse		
	Adjustable spring balanced	Туре	Gea
	90 in (2,286 mm) 14 in (355.6 mm)	Function	elec Low
	14 in (355.6 mm)		oper
	3/8 in (9.5 mm)		rais
	wire-reinforced		pick
	molded rubber		
	3,240 sq in (20,903 sq cm)	PAINT	
	Hydraulic raise and lower	One coat of sealer/p	
	Double wide tungsten carbide	standard white color	•
	Abrasion-resistant steel	Note: Design and sp	ecific
	inlet and outlet transitions.	change without notic	
1			

acity	6 cu yd
	(4.59 cu m)
	50 degrees
	O degrees
	Twin hydraulic
	cylinders scissor-lift
oor	Full height; full width
	open/close/lock
	hydraulically
S	1 on left side of hopper
	24 in to 144 in high
	Stainless steel floor:
	sides and roof

/DRAULIC SYSTEM		
ре	Variable displacement	
ax Pump capacity	27 gpm @ 1800 rpm	
	(103 lpm)	
ve	Belt	
aximum pressure	2,750 psi (190 bar)	
servoir	25 gal (94 L)	
er	10 micron; In-tank	
otection	Pressure relief valve	
ntrols	Electro-hydraulic	
	-	
IVIL LA DV LIVDDALILLO OVOTEAA		

#### ULIC SYSTEM

Gear type; driven by
electric motor
Lower hopper;
open/close hopper door;
raise/lower brooms and
pickuphead

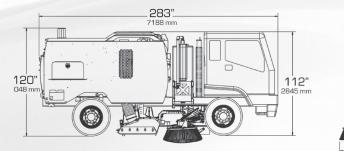
er and two coats of in

cations subject to

# A9 Monson TE 9.6 Cubic Yard Regenerative Air Sweeper



## A9 Monsoon TE 9.6 Cubic Yard Regenerative Air Sweeper





tachometer; hourmeter;

voltmeter; temperature

warning icons

Closed-face radial

Direct via 5 groove;

banded power belt

1.5 grams on 2 sides

32.75 in (832 mm)

Bolt-in corded rubber

2 regreaseable sealed

For heavy/light material;

Hardox steel

bearings

balanced

in-cab indicator

Dual chambered

full-width blast orifice

Forward and reverse Adjustable spring

90 in (2286 mm)

14 in (355.6 mm)

14 in (355.6 mm)

3/8" (9.5 mm)

wire-reinforced

molded rubber

(20903 sq cm)

Hydraulic raise and lower

Abrasion-resistant steel

Double wide tungsten

3240 sq in

carbide

gauge; oil pressure gauge;

\*TYPICAL MEASUREMENTS SHOWN, EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER

#### SWEEPING PATH

Pickup head only Head and 1 broom Head and 2 brooms

90 in (2286 mm) 117 in (2972 mm) 144 in (3658 mm)

#### CHASSIS

Mounts on various chassis t	o meet
requirements	

#### SWEEPER BODY

Welded 10-gauge Construction stainless steel plate Safety props Lift spacers

#### STANDARD ENGINE M

<b>STANDARD EINC</b>	
Model/type	4045T in-line 4 cylinder
Aspiration	Tier 4 Final turbo-charge
	diesel
Manufacturer	John Deere
Displacement	275 cu. ln. (4.5 L)
Brake horsepower	134 hp (100 kw)
	@ 2400 rpm
Torque	398 ft lb (540 Nm)
	@1600 rpm
Air cleaner	Centrifugal precleaner;
	dry type with safety
	element and restriction
	indicator
Oil filter	Full-flow/spin-on
Stroke	5 in (127 mm)
Bore	4.20 in (106 mm)
Compression ratio	19 to 1
Safety shutdown	Three-point automatic
Throttle control	Electronic

#### SWEEPER ELECTRICAL SYSTEM

12 V

90 amp

Voltage Engine alternator

5	·
DUST CONTROL	SYSTEM
Туре	Run dry diaphragm
Capacity	250 gallon (946 L)
Tank construction	Polyethylene filter;
	50 mesh; cleanable
Fill diameter	2.5 in (63.5 mm)
Fill hose	25 ft (7620 mm)
Controls	Electric; in-cab
Nozzles	2 on each broom;
	5 around suction head;
	2 inside suction nozzle;
	2 on front axle;
	4 inside hopper
Water level gauge	In-cab

#### INSTRUMENTATION Flat panel display:

Auxiliary engine

#### **FAN SYSTEM**

Tvpe

raed

Drive Construction Balance Diameter Housing lining Mounting Vacuum enhancer

Length Pressure hose diam Suction hose diam Hose construction Head area Controls Skids

Construction

#### SIDE BROOMS

Type Location Diameter Drive Suspension Wear adjustment Pressure Speed Segments Tilt angle adjustment In-cab controls

inlet and outlet transitions. Vertical steel digger Right; left; forward of pickup head 44 in (1118 mm) Hydraulic Torque-sensing spring Automatic Manual Variable; non-reversing 5 each side; disposable

#### **DEBRIS HOPPER**

Volumetric capacity	9.6 cu yd
	(7.3 cu m)
Usable Capacity	8.0 cu yd
	(6.1 cu m)
Dump angle	53 degrees
Floor angle	3 degrees
Lifting	Twin hydraulic cylinders
Hopper dump door	hydraulic open, close, lock
Inspection doors	1 on each side,
	pressure vessel lock
Hopper dump height	33 in (838 mm)
Screens	Sawtooth drop down

HYDRAULIC SYSTEM

Туре Pump capacity

Drive Maximum pressure Reservoir Filter Protection Controls

Dual output 2 section 8 gpm @ 1800 rpm (30 lpm) per section for 16 gpm total Direct gear 2750 psi (190 bar) 25 gal (94 L) 10 micron; spin on Pressure relief valve Electro-hydraulic

#### **AUXILIARY HYDRAULIC SYSTEM**

Gear type; driven by electric motor Lower hopper; open/close hopper door; raise brooms and pickup head

#### PAINT

Type

Function

One coat of sealer/primer and two coats of Imron® Elite polyurethane in standard white color

#### **OPTIONAL SWEEPER EQUIPMENT**

Special Paint Front Mounted Magnet Bar Amber Beacon Strobe Light Kit Arrowboard Kit Additional Flood Lights Hopper Hand Hose Remote Drop Down Screens Hopper Dump Assist Shaker 12-volt Auxiliary Hydraulic System Dual Steeling and Controls Extra Water High Pressure Front Spraybar High Pressure Wash Dow Side Air Blast Head Hopper Deluge Head Drain Dual Outside Hopper Controls Lifetime Hopper Warranty Short Wheelbase Chassis

Note: Design and specifications subject to change without notice.



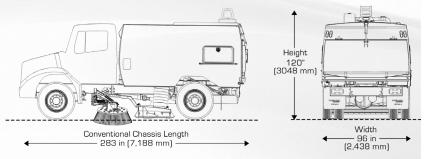
# A9 Monsoon SE 9.6 Cubic Yard Regenerative Air Sweeper



# **A9 Monsoon SE** 9.6 Cubic Yard Regenerative Air Sweeper



## SINGLE ENGINE TECHNOLOGY WITHOUT THE LOSS OF PERFORMANCE



\* TYPICAL MEASUREMENTS SHOWN , EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER

#### **SWEEPING PATH**

Pickup head only 90 in (2286 mm) Head and 1 broom 117 in (2972 mm) Head and 2 brooms 144 in (3658 mm)

#### CHASSIS

Freightliner M2 106

#### SWEEPER BODY

Construction	Welded 10-gauge
	stainless steel plate
Safety props	Lift spacers
CHASSIS AND S	SWEEPER POWER
Model/type	ISB 6.7 in-line 6 cylinder
Emissions	GHG21 turbo-charged
	diesel
Manufacturer	Cummins Corp
Displacement	6.7 liter (409 c.i.)
Brake horsepower	240 hp (180 kw)
	@ 2500 rpm
Torque	560 ft lb (759 Nm)
	@1100 rpm
Air cleaner	High capacity dry type with
	safety element and
	restriction indicator
Oil filter	Full-flow/spin-on
Stroke	5 in (127 mm)
Bore	4.20 in (106 mm)
Compression ratio	19 to 1
Safety shutdown	Cummins automatic
Throttle control	Electronic
SWEEPER/CHA	SSIS ELECTRICAL

## 12 V

Voltage 160 amp Engine alternator

#### DUST CONTROL SYSTEM High pressure/low volume

Туре	
Capacity	

Tank construction Pump Inlet filter Fill diameter Fill hose Controls Nozzles

2.5 in (63.5 mm) 25 ft (7620 mm) Electric: in-cab 2 on each broom; 5 around suction head: 2 inside suction nozzle; 2 on front axle; 2 inside hopper Water level gauge In-cab

(2166 liters)

Polyethylene

470 gallon (1786 L); options to 570 gallons

50 mesh; cleanable

#### INSTRUMENTATION Sweeper

#### Flat panel display; spray water level; hydraulic oil temperature: sweep mode; sweep in reverse; vacuum enhancer position; hopper position, sweeper diagnostics; sweep power; broom speed

### **FAN SYSTEM**

Closed-face radial Туре Drive Hot shift PTO via 5 groove; banded power belt Construction AR steel 1.5 grams on 2 sides Balance Diameter 32.75 in (832 mm) Bolt-in corded rubber Housing lining Mounting 2 regreasable sealed bearings Vacuum enhancer For heavy/light material; in-cab indicator

### **PICKUP HEAD**

Type Operating direction Suspension Length Pressure hose diam Suction hose diam Hose construction Head area Controls Skids Construction SIDE BROOMS Т L

Dual chambered full-width blast orifice Forward and reverse Adjustable spring balanced 90 in (2286 mm) 14 in (355.6 mm) 14 in (355.6 mm) 3/8 in (9.5 mm) wire-reinforced molded rubber 3240 sq in (20903 sq cm) Hydraulic raise and lower Double wide tungsten carbide Abrasion-resistant steel inlet and outlet transitions.

Туре	Vertical steel digger
Location	Right; left; forward of
	pickup head
Diameter	44 in (1118 mm)
Drive	Hydraulic
Suspension	Torque-sensing spring
Wear adjustment	Automatic
Pressure	Manual
Speed	Variable; non-reversing
Segments	5 each side; disposable
Tilt angle adjustmen	t In-cab controls

#### **DEBRIS HOPPER**

Volumetric capacity	9.6 cu yd (7.3 cu m)
Usable Capacity	8.0 cu yd (6.1 cu m)
Dump angle	51 degrees
Floor angle	3 degrees
Lifting	Twin hydraulic cylinde
Hopper dump door	Hydraulic open, close,
Inspection doors	1 on each side,
	pressure vessel lock
Hopper dump height	40 in (1016 mm)
Debris screens	Sawtooth drop down

rs

lock

#### **HYDRAULIC SYSTEM**

Туре	Variable displacement
Max Pump capacity	27 gpm @ 1800 rpm
	(103 lpm)
Drive	Belt
Maximum pressure	2750 psi (190 bar)
Reservoir	25 gal (94 L)
Filter	10 micron spin on
Protection	Pressure relief valve
Controls	Electro-hydraulic
	-

#### AUXILIARY HYDRAULIC SYSTEM

Туре	Gear type; driven by electric motor
Function	Lower hopper; open/close hopper door; raise brooms and pickup head
DAINIT	

One coat of sealer/primer and two coats of Sherwin Williams Duraspar polyurethane in standard white color

Note: Design and specifications subject to change without notice.

# 4 Cubic Yard Mechanical Sweeper



## M4 Cascade 4 Cubic Yard Mechanical Sweeper



96 in (2,438 mm) 120 in (3,048 mm)

(brooms extended)

4HK1TC/Turbo T4F

19,500 lb (8,845 kg)

452 lb-ft @ 1800 rpm

A465; 6 speed automatic

(6) Tubeless steel-belted

radials 225/70 R 19.5

carbide shoes optional

adjustment and display

Air suspension with in-cab

Dry type; heavy duty

109" (2,769 mm)

Steel construction

Vacuum/hydraulics

Integral power

with ABS

Rear air ride

317 cu in (5.26 L)

215 @ 2500 rpm

lsuzu

NRR

Diesel

4

102 in (2,591 mm)

#### GENERAL

Travel width Sweeping width

Overall height

#### CHASSIS

#### Manufacturer Model Engine GVWR Number of Cylinders Displacement Horsepower Torque Fuel Air filter Suspension Transmission Wheelbase Tires

Wheels Steering Brake

Suspension

### SWEEPER ENGINE

Type Manufacturer Displacement Brake horsepower Cooling system	TCD2.2 Diesel Tier 4F Deutz 134.25 cu in (2.2 L) 74 @ 2,600 rpm Liquid-cooled
ELECTRICAL SYS	TEM
Voltage Alternator	12 V 140 amp
MAIN BROOM	
Diameter Length Bristles	36 in [914 mm] 58 in [1,473 mm] Replaceable solid core, poly wafer, poly wafer/ steel combo or strip broom
Lift control	In-cab pneumatic lift with positive lock
Drive	Direct drive hydraulic
Speed	Forward and reverse, in-cab variable speed standard, independent from engine rpm
Bearings Dirt shoes	Self-aligning Trailing arm design with flexible, easily replaceable, strip bushes. Tungsten

#### **GUTTER BROOMS** Behind cab 42 in (1,067 mm) I ocation Diameter 5 segment wire filled Type plastic recyclable head in-cab variable speed Speed standard. independent from engine rpm Free-floating with spring suspension and extension Suspension Drive Full hydraulic Adjustments Manual tilt; in-cab actuator 26 in (660 mm) wire Bristles Center deflector Raises and lowers automatically with main broom **CONVEYER** Bearings Self-aligning, triple-sealed and shielded Conveyer floor Bolt-on; replaceable Speed Forward and reverse, in-cab variable speed standard, independent from engine rpm Threaded rack Adjustment Direct drive hydraulic; Drive forward and reverse Hopper connection Positive seal to eliminate debris spillage Air cylinders with in-cab Suspension adjustment for lower conveyer lift Conveyer Squeegee with replaceable flights Conveyer chain Precision, heavy duty, constant-radius roller chain Flexibility Flexes for large object passage Built-in flushing system Cleaning with high volume fan jet nozzles Conveyer jam warning Console-mounted, light

#### HYDRAULIC SYSTEM Variable displacement Pump load sense piston pump 35 gal (133 L) mounted Reservoir above pump 120,000 btu twin electric Oil cooler fans Valves Electro-mechanical; 12 V dc with lighted din connectors Protection Pressure relief In-cab; all electric Controls Filtration 100-mesh suction, 10-micron return, 5-micron breather

and alarm

#### WATER SYSTEM 220 gal (833 L) Polyethylene Capacity of tank Construction 4 in (102 mm) air gap fill; tubular protected fill Filler receptacle Fill Hose 25ft with 2.5 in NST hydrant coupling (7,620 mm x 63.5 mm) Mounting Bolt-on, removable Electric diaphragm pump, Pump 5.88 gpm (22.3 Lpm) at 50 psi (3.5 bar) Spray bars In-cab, independent control; 7 nozzles located across front bumper, 4 nozzles at each gutter broom and 5 nozzles across the main broom Spray nozzles All brass 80 degree fan pattern with 100 mesh tip strainer Filter 200 mesh screen primary with 5 micron high capacity secondary filter **DEBRIS HOPPER** 4.0 cu yds (3.06 cu m) Stainless steel Volumetric capacity Construction 9,500 lbs (4,309 kg) Gross lift capacity Scissor-lift with hopper tilt (Variable) 5 in (127 mm) to 120 in (3,048 mm) Dumping Dump height Inspection Large side door PAINT One coat of sealer/primer and two coats of DuPont Imron Elité polyurethane white color

Note: Specifications are subject to change without notice.

# 5 Cubic Yard Mechanical Sweeper



# M6 Avalanche 5 Cubic Yard Mechanical Sweeper

M6 <b>Avalar</b>	iche 3454 nm 3454 nm 3456 n	109" 2759 mm	136"       96.25"         2445 mm       2445 mm         109"       2789 mm         2780 mm       134"         3655 mm       134"         3655 mm       134"         3655 mm       134"         3650 mm       134"         3650 mm       134"         3600 mm       134"         3600 mm       134"
CONVEYER		SWEEPER ENG	NE (TWIN ENGINE ONLY)
Bearings Conveyer floor Speed Adjustment Drive	Self-aligning, triple-sealed and shielded Bolt-on; replaceable Forward and reverse, in-cab variable speed standard, independent from engine rpm Threaded rack	Type Manufacturer Displacement Brake horsepower Cooling system	QSF2.8 diesel Tier 4F Curmins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled
Hopper connection	Direct drive hydraulic; forward and reverse Positive seal to eliminate debris spillage	<b>GUTTER BROOM</b>	IS
Suspension	Air cylinders with in-cab adjustment for lower conveyer lift g Console-mounted, light and alarm	Location Diameter Type	Behind cab 49 in (1245 mm) 5 segment wire filled plastic recyclable head
Conveyer Conveyer Conveyer chain Flexibility Cleaning	Squeegee with replaceable flights Precision, heavy duty, constant-radius roller chain Flexes for large object passage Built-in flushing system with high volume fan jet nozzles	Speed Suspension Drive Adjustments Bristles Center deflector	in-cab variable speed standard, independent from engine rpm Free-floating with air suspension and air extension Full hydraulic Manual tilt; in-cab remote hydraulic tilt (optional) 26 in (660 mm) wire Raises and lowers automatically with main broom
CONVEYER / BE	ПТ	MAIN BROOM	
Conveyer Cleaning	Heavy duty multi-ply belt with full width cleats Built-in flushing system with high volume fan jet nozzles and lower roller flush	Diameter Length Bristles	36 in (914 mm) 58 in (1473 mm) Replaceable solid core, poly wafer, poly wafer/steel combo or strip broom
WATER SYSTEM Capacity of tank	SE conventional: 350 gal (1325 L) SE cabover: 350 gal to 700 gal (1325 L to 2650 L) TE conventional: 200 gal (1230 L) TE cabover: 350 gal to 500 gal (1325 L to 2555 L)	Lift control Drive Mounting Speed	In-cab pneumatic lift with positive lock Direct drive hydraulic motor Full floating Forward and reverse, in-cab variable speed Standard, Independent from engine rpm
Construction Filler	Polyethylene 4 in (102 mm) air gap fill; tubular protected fill receptacle	Bearings Dirt shoes	Self-aligning Trailing arm design with 2 in (51 mm) wide Tungsten carbide shoe with elastomeric flex link
Fill	Hose 25 ft with 2.5 in nst hydrant coupling (7620 mm x 63.5 mm)	Suspension	Air suspension with in-cab adjustment and display
Mounting Pump	Bolt-on, removable Electric diaphragm pump, 5.88 gpm (22.3 Lpm) at 50 psi (3.5 bar)	<b>DEBRIS HOPPER</b> Volumetric capacity Construction	5.0 cu yds (3.82 cu m) 3/16 in floor, 10 gauge sides/roof, temper pass/
Spray bars	In-cab, independent control; 7 nozzles located across front bumper, 4 nozzles at each gutter broom and 5 nozzles across the main broom	Gross lift capacity Dumping	pickled in oil carbon steel optional stainless steel 14 000 lbs (6350 kg) Scissor-lift with hopper tilt
Spray nozzles Filter	All brass 80 degree fan pattern with 100 mesh tip strainer 200 mesh screen primary with 5 micron	Dump height Inspection	(Variable) 16 in (406 mm) to 138 in (3505 mm) Side door with ladder access, front view window with double skylight and led illumination
	high capacity secondary filter		
FUEL SYSTEM Fuel tank	Diesel, 50 gallons (189.25 L) CNG, 50 DGE (Diesel Gal. Equivalent) at 3600 psi	<b>GENERAL</b> Wheelbase Length	<i>SE and TE</i> - 139 in (3532 mm) <i>Cabover</i> - 132 in (3353 mm) <i>SE and TE</i> - 273 in (6934 mm) <i>Cabover</i> - 269 in (6833 mm)
HYDRAULIC SYS Pump Reservoir Oil cooler Valves	STEM Variable displacement load sense piston pump 35 gal (133 L) mounted above pump 120 000 btu twin electric fans Electro-mechanical; 12 V dc with lighted din	Travel width Sweeping width Overall height GVWR	<i>Cabover</i> - 269 in (6833mm) 96 in (2438mm) 134 in (3404mm) (brooms extended) 113 in (2870mm) 33 000 lbs (14 969 kgs)
Protection Controls Filtration	Pressure relief In-cab; all electric 100-mesh suction, 10-micron return, 5-micron breather	thane white color	orimer and two coats of DuPont Imron Elite polyure- are subject to change without notice.
			,
ELECTRICAL SYS	TEM 12 V		
Alternator	160 amp		

- 12 V 160 amp

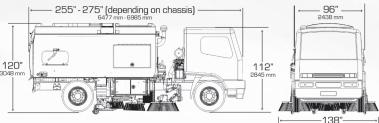
# Schwarze Hypervac 7.8 Cubic Yard PURE VACUUM Sweeper



# Schwarze Hypervac







SWEEPING PATH		
Suction nozzle only Suction nozzle,	28 in. (813 mm)	
transfer brooms and one side broom Dual suction nozzles,	108 in. (2743 mm)	
dual side brooms and transfer brooms	138 in. (3505 mm)	
CHACCIC		

#### CHASSIS

Mounts on various chassis to meet requirements

#### SWEEPER BODY

Construction	Welded 10-gauge stainless steel plate
Safety props	Dual steel bars under body
INSTRUMENT	ATION
Auxiliary engine	Flat panel display; tachometer; hourmeter; voltmeter; temperature gauge; oil pressure gauge; warning icons
<b>AUXILIARY EN</b>	GINE
Model/type Aspiration	4045T in-line 4 cylinder Tier/Stage 4 turbo-charged diesel
Manufacturer Displacement horsepower Torque	John Deere 275cu in (4.5 L) Brake 134hp (10 kw) @ 2400 rpm 398ft lb (540 Nm)

@1600 rpm

Full-flow/spin-on

4.20 in (106 mm)

Three-point automatic

5 in (127 mm)

19 to 1

Electronic

90 amp

Centrifugal precleaner;

and restriction indicator

dry type with safety element

Manufacturer
Displacement
horsepower
Torque

Air cleaner

Oil filter Stroke Bore Compression ratio Safety shutdown Throttle control

#### ELECTRICAL SYSTEM

Voltage	12 V
Sweeper engine	
alternator	90 a

#### DUST SUPPRESSION SYSTEM

Type Capacity Tank construction Filter Fill diameter Fill hose Controls Water level gauge

Dual positive displacement diaphragms 380 gal (1438 L) Polyethylene 50 mesh; cleanable 2.5 in (63.5 mm) 25 ft (7620 mm) Electric: in-cab In-cab

## **FAN SYSTEM** Type Drive

Construction Balance Diameter Housing lining Mounting

## SUCTION NOZZLES Ту Ор

Туре	Tow bar
Operating direction	Forward with lift in reverse
Suspension	Caster wheel
Nozzle area	250 sq in (2032 mm)
Suction hose diameter	12" (305 mm)
Hose construction	Wire-reinforced,
	3/8" (9.5mm)
	thick molded rubber
Reach	8" (200mm) beyond tire
Leaf/litter door	Pneumatic with
	adjustable timer
Controls	Pneumatic raise and lower
Construction	Abrasion-resistant steel with corded rubber seal flaps.

Closed-face radial

Direct via 5 groove;

banded power belt

32.75 in (832 mm)

Bolt-in corded rubber

1.5 g on 2 sides

2 regreaseable

sealed bearings

Hardox steel

### SIDE BROOMS

Туре	Vertical steel digger
Location	Right; left;
	forward of pickup head
Diameter	39" (1118 mm)
Drive	Hydraulic
Suspension	Air float
Wear adjustment	Automatic
Pressure	In-cab pneumatic adjustable
Speed	Variable; non-reversing
Segments	4 per side; disposable
Tilt angle adjustment	In-cab controls

### TRANSFER SCRUBBING BROOMS

Туре	Vertical Steel digge
Quantity	3
Size	28"
Drive	Hydraulic
Suspension	Air float
Wear adjustment	Automatic
Lift	Air cylinder



#### **DEBRIS HOPPER** Volumetric capacity Usable capacity Dump angle Floor angle Lifting Hopper dump door Inspection doors Hopper Dump height Debris screens

\* TYPICAL MEASUREMENTS SHOWN . EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTUREF

8.4 cu yd (6.4.cu m) 7.0 cu yd (5.4 cu m) 46 degrees 3 degrees Twin hydraulic cylinders Hydraulic open, close, lock 1 on each side 45 in (1143 mm) Drop down for cleaning



## HYDRAULIC SYSTEM

	Туре	Variable displacement
	Pump capacity	34 gpm 129 lpm
		@ 2200 rpm
	Drive	Belt
	Maximum pressure	2750 psi (190 bar)
	Reservoir	42 gal (158 L)
	Filter	10 micron; in-tank
		pressure relief valve
	Controls	Electro-hydraulic
J		
	<b>AUXILIARY HYD</b>	RAULIC SYSTEM
	Туре	Gear type;
		driven by 12v electric mot
	Function	Lower hopper;

driven by 12v electric motor
Lower hopper;
open/close hopper door;
raise brooms & pickup head

#### PAINT

One coat of sealer/primer and two coats of Imron® Elite polyurethane in standard white color

Note: Design and specifications subject to change without notice.

# **GS6 Tempest** 6 Cubic Meter Various Chassis Mounted Sweeper



# **GS6 Tempest** 6 Cubic Meter Various Chassis Mounted Sweeper

## Schwarze GS6 Tempest<sup>™</sup> 6 Cubic Metre Regenerative Air Sweeper

#### SWFEPING PATH

OVVEL INVO I AT	••
Pickup head only	2032 mm (80 in)
Pickup head and	
one gutter broom	2717 mm (107 in)
Pickup head and	
two gutter brooms	3404 mm (134 in)
-	. ,

#### DEBRIS HOPPER

#### Volumetric capacity 6 cu. m (7.8 cu. y) 4.97 cu. m (6.5 cu. y) Usable Capacity Dump angle 46° 3° Floor angle Lifting Twin hydraulic cylinders Hopper dump door open/close/lock hydraulically 1 on each side of hopper Inspection doors Screens Drop down design Safety Prop Dual steel tubes

#### CHASSIS

Mounts on various chassis to meet requirements

#### INSTRUMENTATION

Sweeper engine	Tachometer; hourmeter; voltmeter; temperature
Sweeper	gauge Load weight warning Hopper up indicator Hydraulic level indicator

#### STANDARD ENGINE

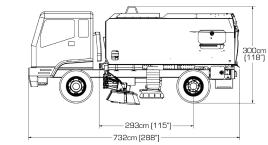
Model/type	4045HF285
Aspiration	Turbo-charged diesel
Manufacturer	John Deere
Displacement	4.5 l (275 cu. in)
Brake horsepower	86 kW (115 hp)
	@ 2400 rpm
Torque	430 nm (317 ft. lb.)
	@1500 rpm
Air cleaner	Dual element dry type
	w/centrifugal pre-cleaner
	& restriction indicator
Oil filter	Full-flow/spin-on
Safety shutdown	Three-point automatic
Throttle control	Electronic

#### DUST CONTROL SYSTEM

F

Pump	Run Dry Diaphragm
Capacity	946 I (250 gal)
Tank construction	Polyethylene filter;
	50 mesh; cleanable
Fill diameter	63.5 mm (2.5 in)
Fill hose	7620 mm (25 ft)
Controls	Electric; in-cab
Nozzles	2 on each broom;
	2 inside transition tube;
	1 inside suction nozzle;
	7 on hopper spray bar
	(ii)





\* TYPICAL MEASUREMENTS SHOWN, EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER

BLOWER SYSTEM		
Туре	Closed-face radial	
Drive	Direct via 5 single power	
	belts	
Construction	Hardox steel	
Balance	1.5 g on 2 sides	
Dimensions	832 mm x 127 mm	
L la cata a linina	(32.75 in x 5 in)	
Housing lining Mounting	Bolt-in corded rubber Double sealed bearing	
wounding	spindle	
Vacuum enhancer	For heavy/light material	
PICKUP HEAD		
Туре	Dual chambered	
	full-width blast orifice	
Operating direction	Forward and reverse	
Suspension	Adjustable spring	
L		
Length Hose diameter	2032 mm (80 in)	
Hose construction	355.6 mm (14 in) 9.5 mm (3⁄8 in)	
	wire-reinforced molded	
	rubber	
Head area	12903 cm <sup>2</sup> (2000 sq. in)	
Front flap	Hydraulic open and close	
1	· · ·	
SIDE BROOMS		
Туре	Vertical steel digger	
Location	Right; left; forward of	
Diamatan	pickup head	
Diameter Drive	990 mm (39 in) Hydraulic	
Suspension	Torque-sensing spring	
Wear adjustment	Automatic	
Pressure	Manual	
Speed	Variable; non-reversing	
Segments	4 each side; disposable	
Tilt angle adjustment		
HYDRAULIC SYS		
Type Pump capacity	Gear type 24.6 l/min @ 1800 rpm	
Fump capacity		

lype	Gear type
Pump capacity	24.6 l/min @ 1800 rpm
	(6.9 gpm)
Drive	Direct gear
Maximum pressure	173 bar (2500 psi)
Reservoir	94 I (22.5 gal)
Filter	6 micron; spin on
Protection	Pressure relief valve
Controls	Electro-hydraulic

#### **AUXILIARY HYDRAULIC SYSTEM**

Туре Function

Gear type; driven by electric motor Raise/lower hopper; open/close hopper door; raise/lower brooms and pickup head

#### **ELECTRICAL SYSTEM** 12 v

Voltage Sweeper engine alternator

75 amp

#### **OPERATOR CONVENIENCE**

Access platform behind cab Low pressure wash-down

#### PAINT

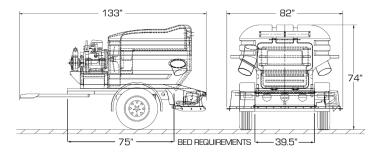
One coat of sealer/primer and two coats of Dupont imron elite polyurethane in standard white color

Note: Design and specifications subject to change without notice.

# SuperVac Aero 2 Cubic Yard Portable Slide-In/Trailer Sweeper



# SuperVac Aero 2 Cubic Yard Portable Slide-In/Trailer Sweeper



Robin Subaru

Electric start

12 V; 15 amp

polyethylene

Replaceable

V-twin cylinder (4-cycle)

39.90 cu in (653 cc)

22.0 hp @ 3,600 rpm

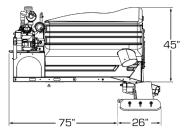
1.64 qt (1500 cc)

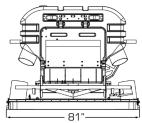
2.0 cu yd (1.53 cu m)

Gasoline; 5 gal tank capacity

EH-65

8:3:1





\* I YHILAL MEASUREMENTS SHOWN. EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRAILER MANUFACTURER

Gravity-to-intake

25 gal (94.6 L)

At sweeping head;

Outside at water tank

Non-corrosive plastic

#### AUXILIARY ENGINE:

Manufacturer Model Number of cylinders Displacement Compression ratio Brake horsepower Starting system Fuel Oil filter Charging system

#### **DEBRIS HOPPER:**

Volumetric capacity Construction

Dust separator Separator screen

#### FAN SYSTEM:

Type Drive Number of blades Speed Diameter Construction Mounting Slide-in replaceable Radial blade Belt driven; 3V 6 3600 rpm

Impact and abrasion-resistant

20 in Welded; abrasion-resistant steel Pillow block bearings

Debris-moving blast and suction

#### SWEEPING HEAD:

Type Suspension Construction Width Flap design Skids Suction hose diameter Pressure hose diameter Lift/Lower

#### UNIT:

Stands Curb Weight 2 trailing arms Steel 78 in (1981 mm) 2 flaps Tungsten Carbide 10 in (254 mm) 10 in (254 mm) Manual crank winch

## WATER SYSTEM:

Type Location Controls Tank capacity Tank construction

### STANDARD EQUIPMENT:

Pulse-type fuel pump Full pressure lubrication Manual throttle & choke with remove cables Full flow spin-on oil filter Solenoid fuel shutdown carburetor Cast iron cylinder sleeves Oil pressure shut-off switch Large dual element air cleaner Large ball bearing on PTO side 12 V electric starter with remote mount key switch Wireless rear view camera with 7" color monitor

#### **OPTIONAL EQUIPMENT:**

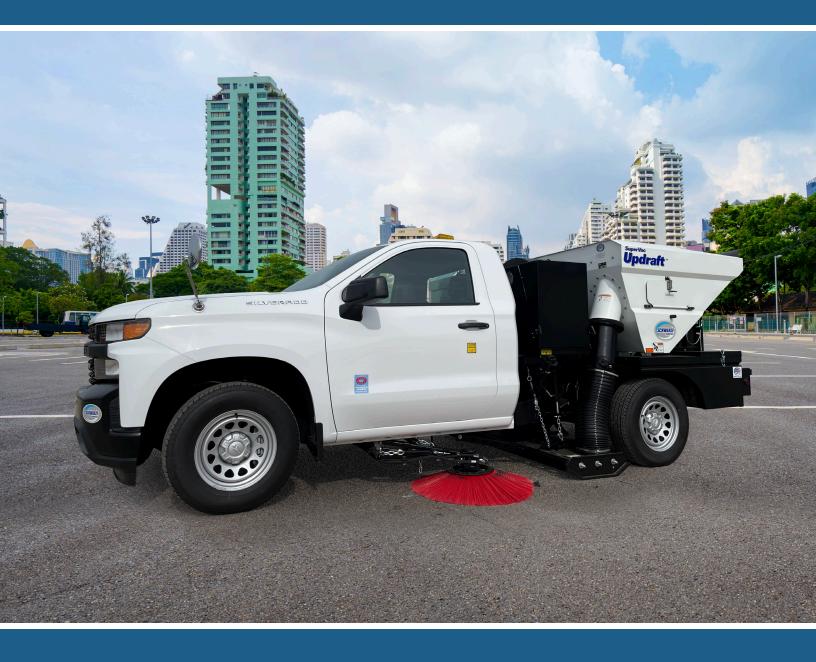
Strobe light Flood light Mounted clean air blower Backpack blower rack Trailer mounted

Note: design and specifications subject to change without notice.

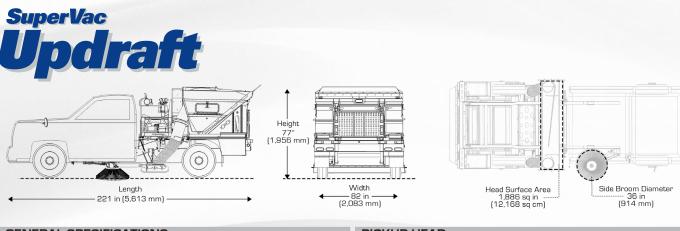


4; one at each corner 1000 lbs (approximately)

# SuperVac Updraft 2 Cubic Yard Low Profile Parking Area Sweeper



# SuperVac Updraft 2 Cubic Yard Low Profile Parking Area Sweeper



#### **GENERAL SPECIFICATIONS:**

Total empty weight 6200 lbs (2812 kgs) Wheelbase Sweeping width With one gutter broom option 97 in (2464 mm) Turning radius Overall length Overall height (without beacon) 77 in (1956 mm) Overall width

## **AUXILIARY ENGINE:**

Manufacturer Horse power Туре Warranty

#### **DEBRIS HOPPER:**

Volumetric capacity Dumping Material Dump height Dumping tilt angle Inspection doors Controls Paint

133 in (3378 mm) 81 in (2057 mm) 274 in (6960 mm) 221 in (5613 mm) 89 in (2261 mm)

Kohler 30 Water cooled gasoline 3 vear

2.0 cu yd (1.53 cu m) Hydraulic high dump Stainless steel 67 in (1702 mm) 88° 1 on left side 1 on right side Electric; in-cab Imron Elite®

#### **ELECTRICAL SYSTEM:**

Battery Controls Circuit protection Rear view camera

#### FAN SYSTEM:

Type Drive Number of blades Diameter Construction Housing liner Mounting Vacuum enhancer

#### HYDRAULIC SYSTEM:

Type Fluid capacity Purpose Dump system hydraulics

1 @ 12 V, 750 cca each Electric: in-cab Resettable circuit breakers Color: dash mounted

Whisper wheel turbine Belt driven 10 24 in (610 mm) Welded abrasion-resistant steel Bolt-in corded rubber Pillow block bearings For heavy/light material

Belt driven gear pump 3 gal (11.4 I) Power gutter broom

12 V power unit

**PICKUP HEAD:** Туре

Material Operating direction Suspension Length Pressure hose diameter Suction hose diameter Flap design Controls Skids

#### **OPTIONAL WATER SYSTEM:**

Туре Tank capacity Construction Pump Controls Filter Mounting Fill diameter Nozzles Optional

#### SIDE BROOM:

Type Wafers Diameter Drive Speed Mounting Location Suspension Wear adjustment Impact protection Tilt angle adjustment

Poly wafer 2 - disposable wafers 36 in (914 mm) Hydraulic torque motor Variable Trailing arm design Left hand side Free floating Automatic Spring

Manual; at broom

#### **OPTIONAL EQUIPMENT:**

Polyethylene tool box Rear trash bag rack Cab mounted strobe Extra flood light Air compressor with in-cab controls

Note: design and specifications subject to change without notice.

Debris-moving blast and suction Stainless steel Forward and reverse 2 trailing arms; 4 springs balanced 81 in (2057 mm) 10 in (254 mm) 10 in (254 mm) 3 flaps Hydraulic raise and lower Tungsten carbide

Diaphragm 12 gal (46 l) Aluminum Electric 12 V dc Electric; in-cab 100 mesh screen Removable 3 in (76.2 mm)

2 on broom; 2 inside hopper

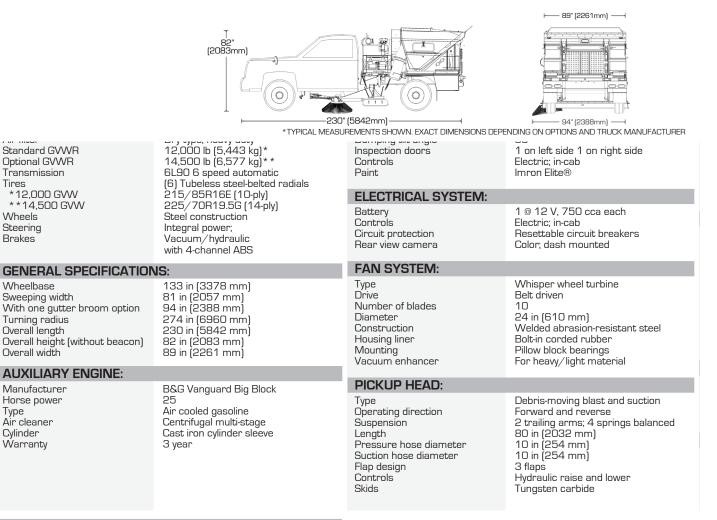
Front spray bar

# SuperVac Super Updraft

3 Cubic Yard Low Profile Parking Area Sweeper



## SuperVac Super Updraft 3 Cubic Yard Low Profile Parking Area Sweeper



#### SIDE BROOM:

Tires

Wheels

Steering

Brakes

Туре

Cylinder

Warranty

Туре Bristle Diameter Drive Speed Mounting Location Suspension Wear adjustment Impact protection Tilt angle adjustment Vertical digger Wire or poly 26 in (660 mm) Hydraulic torque motor Variable Trailing arm design Left hand side Free floating Automatic Spring Manual; at broom

#### **HYDRAULIC SYSTEM:**

Type Fluid capacity Purpose Dump system hydraulics Belt driven gear pump 3 gal (11.4 Ĭ) Power gutter broom 12 V power unit, 1 gal (3.8 l)

#### **OPTIONAL EQUIPMENT:**

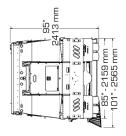
Polyethylene tool box Rear trash bag rack Cab mounted strobe Extra flood light Curb blower.

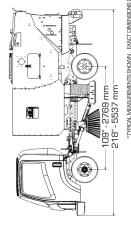
Note: design and specifications subject to change without notice.

# A.5 Cubic Yard Parking Lot Sweeper



# 4.5 Cubic Yard Parking Lot Sweeper





#### **GENERAL SPECIFICATIONS:**

Pickup head only	80 in (2,032 mm)
Pickup head and	
one gutter broom	96 in (2,438 mm)
Pickup head and	
two gutter brooms	112 in (2,845 mm)

#### **AUXILIARY ENGINE**

Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner Safety shutdown Warranty

#### **DEBRIS HOPPER**

Volumetric Capacity Construction Type of Dumping Inspection Doors Controls Dumping Height Dumping Tilt Angle Exterior Coating

#### **ELECTRICAL SYSTEM**

Voltage Battery Alternator

Kohler
45.6 cu in (747 cc)
30 @ 3500 rpm
Liquid-cooled
Dual element dry-type
Three-point automatic
3 Year

V-twin liquid cooled gas

4.5 cu yd. (3.4 cu m) Stainless Steel Hydraulic 1 on each side of hopper Electric: in cab 77 in (1956 mm) 88 dearees Sealer/primer; polyurethane

**Circuit breakers** 

SIDE BROOMS

Type

### 12 volt 1 @ 750 CCA 145 amp chassis Resettable type

Vertical steel digger

Location

Diameter Drive Wear adjustment Pressure Speed Segments

Left and/or right, forward of pickup head 26 in (660 mm) Hydraulic torque motor Automatic Manual Variable, non-reversing Bolt-on disposable; tempered steel wire filled Manual

Fixed displacement gear

2500 psi (173 bar)

Pressure relief valve

8.4 gal (31.8 L) 10 micron, spin on

Electro-hydraulic

80 mesh

#### Tilt adjustment

#### HYDRAULIC SYSTEM

Type Drive Maximum pressure Reservoir Filter Protection Controls Filter

#### PAINT

One coat of sealer/primer and two coats of Axalta Imron Elite polyurethane in standard white color

Belt

Note: Design and specifications subject to change without notice.

#### DUST CONTROL SYSTEM

Type Capacity Tank construction Filter Fill diameter Controls Nozzles Optional	Electric diaphragm, run dry capable 93 gal (352 L) standard opt. to 159 gal (601.8 L) Polyethylene 50 mesh, cleanable 4 in (102 mm) Electric; in-cab 2 on each broom; 2 inside hopper Hopper or front spray bar
PICKUP HEAD	
Type Operating direction Suspension Length Hose Diameters	Blast to suction Forward and reverse 4 adjustable spring balanc 80 in (2032 mm) 10 in (254 mm)

nced 10 in (254 mm)Hydraulic raise and lower Tunasten carbide Bolt in replaceable steel transitions.

#### **FAN SYSTEM**

Construction

Controls

Skids

Type Closed-face radial Drive Banded belt Construction Hardox steel 1.5 grams on both sides Balance Diameter 24 in (610 mm) Housing lining Bolt-in corded rubber Mounting 2 sealed bearings Vacuum enhancer For heavy/light material

#### CHASSIS

Model / type Manufacturer Engine Fuel Air filter Standard GVWR **Optional GVWR** Transmission Tires

\*12,000 GVW \*\*14,500 GVW Wheels Steering Brakes

NPR Gas lsuzu GM V8 Vortec 6.0 Liter Gas, 30 Gal In Frame Tank Dry type; heavy duty 12,000 lb (5,443 kg)\* 14,500 lb (6,577 kg)\* \* 6L90 6 speed automatic (6) Tubeless steel-belted radials 215/85R16E (10-ply) 225/70R19.5G (14-ply) Steel construction Integral power; Vacuum/hydraulic with 4-channel ABS

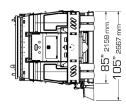


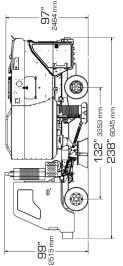
\*On Standard Stainless Steel Hopper

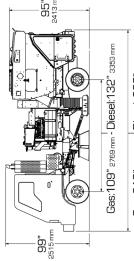
## **SuperVac Gale Force** 4.5 Cubic Yard Parking Lot Sweeper



# **SuperVac Gale Force** 4.5 Cubic Yard Parking Lot Sweeper







Yć	ard Parking I	Lot Sweepe	r	
_ ا	GENERAL SPECIFICAT	TIONS	DUST CONTROL SYS	TEM
TYPICAL MEASUREMENTS SHOWN , EXACT DIMENSIONS DEPENDING ON OPTIONS AND TRUCK MANUFACTURER	Total empty weight Overall width Overall length Overall height Wheelbase Turning radius Sweeping width (Head only) Sweeping width (1 broom) Sweeping width (2 brooms)	10,480 lb (4753.64 kg) 85 in (2159 mm) 238 in (6045 mm) 99 in (2515 mm) 132.5 in (3365 mm) 20 ft curb to curb 82 in (2083 mm) 103 in (2617 mm) 124 in (3150 mm)	Pump Capacity Tank construction Filtration Nozzles Optional tank	Heav elect 130 65 g Polyo Clea Hopy side 45 g
	STANDARD ENGINE		TOOL STORAGE	
VIENSIONS DEPENDING	Type Manufacturer Displacement Brake horsepower Cooling system Air cleaner	QSF2.8 diesel Tier 4F Cummins 171 cu in (2.8 L) 74 @ 2500 rpm Liquid-cooled Dual element,	Location Capacity Latches Shovel rack	Two 17.2 Lock 2 x 2 side
ACT DIN		dry-type with restriction indicator; centrifugal		l Fixed
JREMENTS SHOWN , EXA	Safety shutdown Instrumentation	pre-cleaner Three-point automatic Digital display tachometer; hourmeter; voltmeter; temperature; oil pressure.	Type Capacity Drive Filtration Hoses	gear 15 g Direc 10 n Roug doub
MEASI	DEBRIS HOPPER		CONTROL SYSTEM	
*TYPICAL	Volumetric Capacity Construction Dump door Inspection doors Controls Dumping height Dump angle Dust separator Intake tube	4.5 cu yd. (3.4 cu m) Stainless steel* (A36 carbon optional) Hydraulic to the rear Twin cylinder hydraulic 1xper side (10in x 24in) In cab 77in 88 degrees Centrifugal Bolt-in AR steel	Location Switches Labeling Throttle Vacuum enhancer Gauges	In ca Heav Inter Elect Elect with Tach oil pr wate
	SWEEPER WARRANT		CHASSIS (PRIMARY)	
6045 mm	<ul> <li>12 months / 1200 hour</li> <li>60 month limited on hydr</li> <li>PICKUP HEAD</li> <li>Type</li> </ul>	s aulics Blast to suction	Make Model Type GVWR/GCWR	lsuzu NPF Cab- 14,5 (515
ů m		lateral transfer	Engine	Dies char
Diesel: 238" 6045 mm	Suction side Suspension Construction	Left (Driver side) 4 x adjustable springs Single piece A36 steel formed channel	Transmission Frame	6 sp with 11.8
218" <sup>5537 mm -</sup> [	Width Suction diameter Blast diameter Skids	82 in (2083 mm) 10 in (254 mm) 10 in (254 mm) Carbide on adjustable side plates	Tires Wheels Brakes Steering	215 6 hc Vacu with
Gas: 2	Rubber flaps	2 x front; 1 x rear	Electrical	with 12 v
	SIDE BROOM Type Diameter Drive	Vertical steel digger 39 in (991 mm) Direct-drive hydraulic	Alternator Batteries Exhaust	140 Dual Vert
	Speed Segments	torque motor Variable 4 x bolt-on disposable	PAINT Hopper Underbody	DuP Text
	FAN SYSTEM		SAFETY EQUIPMENT	'

WhisperWheel<sup>tm</sup>

30 in (762 mm)

Radial pressure

backward incline

Hardox AR steel

Less than 1.5 grams

Bolt-in corded rubber

Banded belt

## SAFETY EQUIPMENT

- Hopper safety props •
- 4 way LED flashing lights •
- Dual rear facing strobes .
- .
- .
- Optional: strobes; beacons; arrow boards

Note: design and specifications subject to change without notice.

#### AGE

#### SYSTEM

#### YSTEM

In cab Heavy-duty rocker International symbol Electronic Electric actuator with indicator Tachometer; hour-meter; oil pressure; water temperature

Heavy duty electric diaphragm 130 gal (Diesel chassis); 65 gal (Gas chassis)

Cleanable 50 mesh filter Hopper; pickup head; side broom 45 gal

Two at rear of sweeper 17.25 cu ft (0.489 m<sup>3</sup>) Lockable and adjustable

2 x 2 inch tubes side to side

Fixed-displacement gear pump 15 gal (57 L) Direct mount to engine 10 micron element Rough-service

double wire

Polyethylene

#### RIMARY

Make Model Type GVWR/GCWR Engine Transmission Frame Tires Wheels Brakes Steering Electrical Alternator Batteries Exhaust	Isuzu NPR HD Cab-over engine (COE) 14,500 lb / 20,500 lb (5152 kg / 9298 kg) Diesel 215 hp turbo charged 4HK1-TC 6 speed automatic with double overdrive 11.89 cu in section modulus 215/85R-16E (10 ply) 6 hole steel disc Vacuum / hydraulic with 4 channel ABS Integral hydraulic with 4 cleescopic 12 volt 140 amp Dual 750 cca
	vertical
PAINT	
Hopper	DuPont Imron Elite

Textured black urethane

- •
- Rear view camera system
- Back-up alarm

Drive Construction Balance Housing liner

Design

Туре

Diameter

# Road and Asphalt Repair Patchers



# **Patchers** Road and Asphalt Repair Units

• Depressions • Edge Ravelingto meet requirementswith pintle hitchaggregate and towed with a dependence <b>AUXILIARY ENGINE</b>	l unit carries its own d emulsion, and can b one-ton pickup 10 rpm np
Shoulder Work Depressions Edge RavelingMounts on various cabover chassis to meet requirementsFed from a standard dump body with pintle hitchSelf contained aggregate and towed with a ofAUXILIARY ENGINEManufacturer ModelPerkins T4F 404F-E22TA 67 HP @ 2600 rpmDeutz T4F TD2.9Perkins T4F 404F-E22TA 67 HP @ 2600 rpmBattery 	d emulsion, and can b one-ton pickup O rpm np
Edge Ravelingtowed with a descriptionAUXILIARY ENGINEDeutz T4FPerkins T4FManufacturer404F-E22TADeutz T4FPerkins T4FModel404F-E22TATD2.9404F-E22TAHorsepower67 HP @ 2600 rpm74 HP @ 2600 rpm67 HP @ 260Starting systemElectricElectricElectricCharging system12 volt; 85 amp12 volt; 85 amp12 volt; 85 ampBattery12 volt; 550 cca12 volt; 550 cca12 volt; 550 ccaFuel tank40 gallon40 gallon40 gallonDirect DriveDriveDirect DriveDirect DriveOutput435 cfmCfm18.97 cubic meters per minute) @ 2200 RPMLobe-Type Air	one-ton pickup O rpm np
AUXILIARY ENGINEManufacturerPerkins T4FDeutz T4FPerkins T4FModel404F-E22TATD2.9404F-E22TAHorsepower67 HP @ 2600 rpm74 HP @ 2600 rpm67 HP @ 260Starting systemElectricElectricElectricCharging system12 volt; 85 amp12 volt; 85 amp12 volt; 85 ampBattery12 volt; 550 cca12 volt; 550 cca12 volt; 550 ccaFuel tank40 gallon40 gallon40 gallonUppeDriveDirect DriveDirect DriveDutput435 cfmCfm18.97 cubic meters per minute) @ 2200 RPMLobe-Type Air 435 cfm	O rpm np
ManufacturerPerkins T4FDeutz T4FPerkins T4FModel404F-E22TATD2.9404F-E22TAHorsepower67 HP @ 2600 rpm74 HP @ 2600 rpm67 HP @ 260Starting systemElectricElectricElectricCharging system12 volt; 85 amp12 volt; 85 amp12 volt; 85 ampBattery12 volt; 550 cca40 gallon40 gallonBLOWER SYSTEMTypeLobe-Type Air BlowerDirect DriveDriveDirect Drive235 cfmDirect DriveOutput435 cfm2200 RPM435 cfm	np
Model404F-E22TATD2.9404F-E22TAHorsepower67 HP @ 2600 rpm74 HP @ 2600 rpm67 HP @ 260Starting systemElectric12 volt; 85 amp12 volt; 85 ampBattery12 volt; 550 cca12 volt; 550 cca12 volt; 550 ccaFuel tank40 gallon40 gallon40 gallonBLOWER SYSTEMTypeLobe-Type Air BlowerDirect DriveDriveDirect Drive35 cfmDirect DriveOutput435 cfm2200 RPM435 cfm	np
Horsepower67 HP @ 2600 rpm74 HP @ 2600 rpm67 HP @ 260Starting systemElectricElectricElectricCharging system12 volt; 85 amp12 volt; 85 amp12 volt; 85 ampBattery12 volt; 550 cca12 volt; 550 cca12 volt; 550 ccaFuel tank40 gallon40 gallon40 gallonBLOWER SYSTEMTypeDriveLobe-Type Air BlowerDirect DriveDriveDirect DriveG70 cfm (18.97 cubic meters per minute) @ 2200 RPMLobe-Type Air 435 cfm	np
Starting systemElectricElectricElectricCharging system12 volt; 85 amp12 volt; 85 amp12 volt; 85 ampBattery12 volt; 550 cca12 volt; 550 cca12 volt; 550 ccaFuel tank40 gallon40 gallon40 gallonBLOWER SYSTEMTypeDriveLobe-Type Air BlowerLobe-Type Air BlowerLobe-Type Air BlowerDriveDirect Drive670 cfm (18.97 cubic meters per minute) @ 2200 RPMLobe Type Air	np
Charging system Battery Fuel tank12 volt; 85 amp 12 volt; 550 cca 40 gallon12 volt; 85 amp 12 volt; 550 cca 40 gallon12 volt; 85 amp 12 volt; 550 cca 40 gallon12 volt; 85 amp 12 volt; 550 cca 40 gallonBLOWER SYSTEMType Drive DuryetLobe-Type Air Blower Direct Drive 435 cfmLobe-Type Air Blower Direct Drive 670 cfm (18.97 cubic meters per minute) @ 2200 RPMLobe-Type Air Direct Drive 435 cfm	
Fuel tank     40 gallon     40 gallon     40 gallon       BLOWER SYSTEM     Ible-Type Air Blower     Lobe-Type Air Blower     Lobe-Type Air Blower       Drive     Direct Drive     Direct Drive     Direct Drive       0utput     435 cfm     670 cfm (18.97 cubic meters per minute) @ 2200 RPM     Lobe-Type Air	
BLOWER SYSTEMLobe-Type Air BlowerLobe-Type Air BlowerLobe-Type Air BlowerDriveDirect DriveDirect DriveDirect DriveOutput435 cfm670 cfm (18.97 cubic meters per minute) @ 2200 RPM435 cfm	
TypeLobe-Type Air BlowerLobe-Type Air BlowerLobe-Type AirDriveDirect DriveDirect DriveDirect DriveDutput435 cfm670 cfm (18.97 cubic meters per minute) @ 2200 RPM435 cfm	
Drive Direct Drive Direct Drive Direct Drive Direct Drive Direct Drive 435 cfm 435 cfm 435 cfm 18.97 cubic meters per 435 cfm minute) @ 2200 RPM	
Output 435 cfm 670 cfm (18.97 cubic meters per 435 cfm minute) @ 2200 RPM	Blower
minute) @ 2200 RPM	
	2 mm x 152.4 mm)
AGGR. DELIVERY HOSE	,
	abrasion resistant,
	ed, non-kinking
Inner diameter 2 <sup>1/2</sup> in (63 mm) 4 in (101.6 mm) 3 <sup>1/2</sup> in	ou, normanig
Hose length 35 ft 19 ft 19 ft	
Maximum flow 150 lbs per minute 150 lbs per minute 125 lbs per n	ninute
AGGREGATE HOPPER BODY	
Capacity         6.5 cu yd         2 cu ft         2 cu yd	
Cover n/a n/a Nylon/Hinger	
Conveyance Conveyer to air lock air flow system Venturi air flow system Gravity fed wit Venturi air flow system Venturi air flow system	th vibration assist;
Construction 10 gauge Steel 10 gauge Steel 10 gauge Steel 10 gauge Steel	
Fill opening         9'10" x 6'10"         n/a         5'3" x 5'3"	
EMULS. STORAGE & DEL.	
Emulsion capacity 300 to 400 gallon 300 gallon 100 gallon	
Compressor 18 cfm 12 cfm 12 cfm	
Delivery pressure 70psi 70psi 70psi	
Heating element         110 volt, 2000 watt;         110 volt, 2000 watt;         110 volt, 2000	
thermostatically controlled thermostatically controlled thermostatical	ally controlled
Nozzle temp160° F160° F160° FFlush Tank Capacity30 gallon30 gallon30 gallon	
Flush Tank Capacity     30 gallon     30 gallon     30 gallon       Tank Insulation     Polyurethane Foam     Polyurethane Foam     Polyurethane	Foam
Insulation R-Value 20 20 20	- Gam
SAFETY EQUIPMENT           Lighting         Amber LED strobe light;         Amber LED strobe light;         Amber LED strobe light;         Amber LED strobe light;	obe light:
	ehicle emblem;
	gle; optional directiona
arrow board arrow board arrow board	, ,, an eeaona
Alarm Backup alarm Backup alarm Backup alarm Backup alarm	
Fire 5 lb fire extinguisher 5 lb fire extinguisher 5 lb fire extinguisher	juisher
PAINT	
	er/primer; two coats
Brand polyurethane polyurethane polyurethane polyurethane Austra langua Elite	
Color Axalta Imron Elite Axalta Imron Elite Axalta Imron Elite Axalta Imron I Standard white Standard vellow Standard vello	
Standard white Standard yellow Standard yello	JVV
	and specifications
subject to cha	



Schwarze is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Schwarze.



## The People You Know. The Products You Trust.

Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

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