



M4 Cascade™

4 Cubic Yard Mechanical Broom Sweeper



*Sweeper shown with optional equipment

THE CONTRACTORS CHOICE



BULKY DEBRIS REMOVAL AND CONSTRUCTION SITE CLEANUP



LOW AND HIGH DUMP CAPABILITY



HIGHLY MANEUVERABLE FOR SWEEPING CONGESTED AREAS



NON-CDL TO ELIMINATE STRENUOUS SKILLS EXAMS

Your Schwarze Dealer.

A FAMILY COMPANY SINCE 1967



WE KNOW CLEAN 

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Street sweeping has been recognized as a best management practice (BMP) for reducing pollutants in storm water runoff. The operation of street sweeping not only improves the roadway's appearance, but also improves safety, potential air quality and helps save our streams and rivers from contaminants.



M4 CASCADE

GENERAL

Travel width	96 in (2,438 mm)
Sweeping width	120 in (3,048 mm) (brooms extended)
Overall height	102 in (2,591 mm)

CHASSIS

Manufacturer	Isuzu
Model	NRR
Engine	4HK1TC/Turbo T4F
GVWR	19,500 lb (8,845 kg)
Number of Cylinders	4
Displacement	317 cu in (5.26 L)
Horsepower	215 @ 2500 rpm
Torque	452 lb-ft @ 1800 rpm
Fuel	Diesel
Air filter	Dry type; heavy duty
Suspension	Rear air ride
Transmission	A465; 6 speed automatic
Wheelbase	109" (2,769 mm)
Tires	(6) Tubeless steel-belted radials 225/70 R 19.5
Wheels	Steel construction
Steering	Integral power
Brake	Vacuum/hydraulics with ABS

SWEEPER ENGINE

Type	TCD2.2 Diesel Tier 4F
Manufacturer	Deutz
Displacement	134.25 cu in (2.2 L)
Brake horsepower	74 @ 2,600 rpm
Cooling system	Liquid-cooled

ELECTRICAL SYSTEM

Voltage	12 V
Alternator	140 amp

MAIN BROOM

Diameter	36 in (914 mm)
Length	58 in (1,473 mm)
Bristles	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 motor
Speed	Forward and reverse, in-cab variable speed standard, independent from engine rpm
Bearings	Self-aligning
Dirt shoes	Trailing arm design with flexible, easily replaceable, strip bushes. Tungsten carbide shoes optional
Suspension	Air suspension with in-cab adjustment and display

GUTTER BROOMS

Location	Behind cab
Diameter	42 in (1,067 mm)
Type	5 segment wire filled plastic recyclable head
Speed	in-cab variable speed standard, independent from engine rpm
Suspension	Free-floating with spring suspension and extension
Drive	Full hydraulic
Adjustments	Manual tilt; in-cab actuator
Bristles	26 in (660 mm) wire
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
Adjustment	Threaded rack
Drive	Direct drive hydraulic; forward and reverse
Hopper connection	Positive seal to eliminate debris spillage
Suspension	Air cylinders with in-cab 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
Cleaning	Built-in flushing system with high volume fan jet nozzles
Conveyer jam warning	Console-mounted, light and alarm

HYDRAULIC SYSTEM

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

WATER SYSTEM

Capacity of tank	220 gal (833 L)
Construction	Polyethylene
Filler	4 in (102 mm) air gap fill; tubular protected fill receptacle
Fill	Hose 25ft with 2.5 in NST hydrant coupling (7,620 mm x 63.5 mm)
Mounting	Bolt-on, removable
Pump	Electric diaphragm 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

Volumetric capacity	4.0 cu yds (3.06 cu m)
Construction	Stainless steel
Gross lift capacity	9,500 lbs (4,309 kg)
Dumping	Scissor-lift with hopper tilt
Dump height	(Variable) 5 in (127 mm) to 120 in (3,048 mm)
Inspection	Large side door

PAINT

One coat of sealer/primer and two coats of in standard white color.	
Paint	White; Sherwin Williams Genesis G2 #100268977

Note: Specifications are subject to change without notice.

Sourcewell

Awarded Contract

Contract # 093021-SWZ

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1055 Jordan Road
Huntsville, AL 35811
800.879.7933
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