

# A BRUSH WITH GREATNESS



## **The Wittke *ROAD WIZARD* is all about performance.**

Wittke's sweeping technology enables you to pick up virtually all debris in a single pass. It's designed to get all the dirt . . . dirt other sweepers leave behind.

### **FEATURES**

- Rugged John Deere auxiliary engine
- Strong 3 belt squeegee elevator
- Independently driven brooms with reserve sweeping torque
- Variable dumping height for easy disposal of debris
- Fully adjustable gutter brooms with a free-floating feature that conforms to the contours of the road
- Large capacity hopper/water and fuel tanks ensure you get the most out of a day's work
- The standard truck chassis makes travelling between jobs fast and efficient





## Efficiency and Convenience

You'll appreciate the *increased productivity and efficiency* the **Road Wizard** offers. Your operators will also appreciate the comfort and safety features built into every unit.

## Lower Maintenance and Operating Costs

If your business is like most, what really matters is the bottom line. If your sweeper is not operating, you are not making money. At Wittke, we understand that when you purchase a piece of sweeping equipment, you expect it to get the job done. That's why we build the **Road Wizard** with features that ensure your time is spent where it should be, on the road sweeping.



### Master Control

Allows you to start/stop all the preset sweeping functions by pressing one button

### Sweeper Mounted on Stock Chassis

Affords a comfortable ride with airbag suspension

### Auxiliary Engine

Power is channeled through a heavy duty hydraulic system right to the brooms

### High Capacity Water System and Fuel Tanks

Allows more sweeping between fills

### Durable 3 Belt Squeegee Elevator

Provides big lifting power and low maintenance costs

### Time Saving Remote Greasing Points

Saves you time and money (less than 12 points daily)

### Easy to Maintain

With good access to all parts of the sweeper



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## SPECIFICATIONS WITTKKE ROAD WIZARD

### GENERAL

GVWR:	32,000 lbs.
Weight with two gutter brooms:	20,300 lbs. (approx.)
Wheelbase:	127"
Overall length:	271"
Overall width:	102"
Sweeping width (two gutter brooms):	120"
Overall height:	114"
Turning radius - curb to curb	223"

### CAB

Forward tilting Freightliner FC70  
Dual steering wheels  
Dual throttle pedals  
Dual brake pedals  
In dash fresh air ventilator / heater / defroster / A/C  
Roll down windows  
Lockable safety latches  
Three speed windshield wipers  
Tinted glass all around  
Two air suspension bucket seats with seat belts  
20" steering wheels  
Single electric horn  
Cruise control  
Air bag dump switch

### CHASSIS INSTRUMENTATION (IN CAB)

(All truck gauges – left & right side location)

Speedometer with trip-ometer  
Tachometer  
Air cleaner restriction gauge  
Air pressure gauge - dual indicator type  
Oil pressure gauge  
Parking brake control  
Low battery light  
Water in fuel light  
Low air pressure light w/buzzer  
Voltmeter gauge  
Low coolant level light w/chimes  
Low oil light w/chimes  
High coolant temperature light with chimes  
Low pressure/high temperature shut-down  
Transmission temperature gauge



## SPECIFICATIONS WITTKKE ROAD WIZARD

### SWEEPER INSTRUMENTATION (IN CAB)

Tachometer/hour meter  
Oil pressure gauge  
Water temperature gauge  
Hydraulic oil temperature warning light  
Low oil pressure light  
Low hydraulic level warning light  
Low pressure/high temperature shut down  
Hopper full light  
Water low light  
Conveyor jam light with buzzer  
Broom position lights  
Hopper position lights

### ELECTRICAL SYSTEM (CHASSIS)

12 volt negative ground system with 130 AMP alternator on chassis  
1300 CCA batteries (combined)  
Fused circuit protectors

### ELECTRICAL SYSTEM (SWEEPER)

Volt negative ground system with 65 AMP alternator on auxiliary engine  
Manual reset breakers  
Illuminated rocker switches  
Master control of sweeping functions  
Back – Lit control panel

### LIGHTING SYSTEM

Two round halogen headlights  
Two combination stop and tail lights  
Two directional signal lights  
Emergency flasher  
Marker lights front and rear  
Spotlights for each broom  
Automatic backup lights/audible backup alarm  
Alternating rear flashers  
Rear strobe light



## SPECIFICATIONS WITTKKE ROAD WIZARD

### ENGINE (CHASSIS)

Engine type:	4 cycle diesel Cummins ISB
Configuration:	Inline – 6 cylinder
Displacement – cu. in.:	359 CID / 15.9
Compression ratio:	17.5:1
Aspiration:	Turbo charged and after cooled air to air
Governor type:	Mechanical full range
Oil capacity – quarts:	17
Rated horsepower:	190 @ 2500
Peak torque – lbs/ft @ rpm	520 @ 1600

### ENGINE EQUIPMENT

Fan clutch (Schwitzer)  
Oil cooler  
Two 1.5 quart full flow disposable oil filters  
Fuel/water separator  
Spin-on type coolant filter/conditioner  
Full range governor (mechanical)  
Dual stage dry type air cleaner  
Air intake warmer

### AUXILIARY ENGINE (SWEEPER)

Manufacturer:	John Deere
Model:	4045D
Displacement:	3405 litres (276 cu. in.)
Brake horsepower:	80 HP @ 2000 rpm (gross intermittent); 71 HP @ 2000 rpm (continuous duty)
Torque:	215 lbs-ft @ 1200 rpm
Fuel economy:	0.370 lb/hp hr @ 2200 rpm
Intake:	Dual stage dry type with Turbo II precleaner

### TRANSMISSION

Automatic:	Allison 2000
Net input power:	300 net HP 225 kW
Input speed range:	2200 – 4500 rpm
Net input torque (max):	520 lb/ft
Gearing:	5 speed forward – 1 reverse Neutral start



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### FRONT AXLE

Taper leaf suspension 12,000 lbs. shock absorber/stabilizer bar with maintenance free bushings

### REAR AXLE

Airliner suspension 21,000 lbs. Meritor RS21-230 2 speed, axle ratio 6.14 / 8.57

### STEERING

Dual driving control  
Full power  
Dual TRW steering gear

### WHEELS/TIRES

Front: Disc type: 10 hole 22.5 x 8.25 wheels with 11R22.5  
Michelin XZE 14 ply

Rear: Dual disc type 10 hole 22.5 x 8.25 wheels with 11R22.5  
Michelin XZE 14 ply

### BRAKES

Anti - lock braking system - Wabco 4 channel

Air brakes: Front - Meritor 15" x 4" Q-plus  
Rear - Meritor 16 1/2" x 7" Q-plus

Meritor auto slack adjuster

Rear brake dust shields

Parking brake Maxi II, spring set rear axle

Slack adjusters: Auto front and rear

Compressor: 13.2 CFM water cooled

Cam drum/ dual system

Air reservoirs: Total of three - 1 supply tank, 1 primary tank and 1 secondary tank  
mounted inside frame rails

Manual drain valves on all tanks

Air brake dryer: Bendix AD-9 with heater

### PAINT

Cab, hood and fenders: High gloss polyurethane white

Chassis running gear: Black acrylic enamel

### FUEL TANK

Dual: 31 US gallon tanks (left and right fill)

Tanks are cross connected.



## SPECIFICATIONS WITTKKE ROAD WIZARD

### HYDRAULIC SYSTEM (SWEEPER)

Tank capacity:	70 US gallons
Pump:	Tandem gear pump
Capacity:	30 gpm at 1200 rpm
Drive:	Direct drive from auxiliary engine
Filter:	10 micron absolute on return side In-tank suction strainer, 100 mesh
Controls:	Electric over hydraulic
Hydraulic motors:	TRW torque motors, all brooms and conveyor motors are interchangeable
Cooler:	Air to oil – Auxillary engine mounted

### DIRT HOPPER

Capacity:	5.0 cu. yd. volumetric
Type of dump:	Right side dump - at 48 degrees
Lift type:	Double scissor with single three stage cylinder
Dumping height:	Variable 48" to 120"
Dumping capacity:	12,000 lbs.

### CONVEYOR

Type:	Squeegee blade (9)
Drive:	Direct – hydraulic with pressure relief valve protection Metal sprocket w/ hardened replaceable teeth / rubber belts
Lift control:	Hydraulic from cab
Speed:	Variable / reversible
Pick-up height	Variable 5" - 12

### MAIN PICKUP BROOM

Diameter:	36"
Length:	58"
Core:	10" diameter steel sectional
Drive:	Direct hydraulic/relief valve protected
Type of filler:	Polypropylene Wafer
Type of suspension:	Hydraulically raised and lowered from cab
Pressure control:	Independent hydraulic suspension Automatic wear compensation



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### GUTTER BROOMS

Diameter: 50" bristle diameter  
Drive: Direct hydraulic with relief valve protection  
Type: Free floating digger type / disposable segments  
Type of suspension: Hydraulic raised and lowered from the cab  
Pressure control: Independent hydraulic suspension  
Adjustments: Automatic wear compensation  
Tilt forward / sideways / pressure / in & out limits

### CENTER DRAG & CROSS DRAG

Free floating  
Polypropylene bristle

### WATER SYSTEM

Capacity: 340 gallons (U.S.)  
Tank material: Polyethylene  
Pump type: Two electric diaphragm pumps – 3.5 gpm  
Spray nozzles: Front – 6 under cab  
Middle – 3 at each gutter broom  
Rear – 3 at main broom  
All lines and nozzles non-corrosive  
Filter: Suction line 80 mesh  
Fill system: Hydrant fill piping with air gap