

# SPRINTER SERIES



- Can be installed on forward or conventional cab chassis
- Superior body design incorporating convex curved body panels for enhanced strength to weight ratio
- Class leading 48" reach with 3000 lbs. lift capacity
- Fast 12 second lift and dump cycle time
- Advanced hydraulics for increased component life



***“A Wittke? Darling  
you shouldn’t have.”***

*George Seagull*



## Technical highlights

### APPROXIMATE WEIGHT\*

Body capacity (yd <sup>3</sup> )	30	34	38	40
Body weight (lbs.)	14,250	14,500	14,750	15,000

\* Please call for detailed weight information.

### CYCLE TIMES

Container lift/dump/return: 12 seconds  
Automatic pack/return cycle: 20 seconds

### FEATURES

The Sprinter is the ideal choice for those who need solid reliability and turnaround times in a flexible package. Available in a large variety of capacities and configurations, the Sprinter gets the job done quickly and economically.

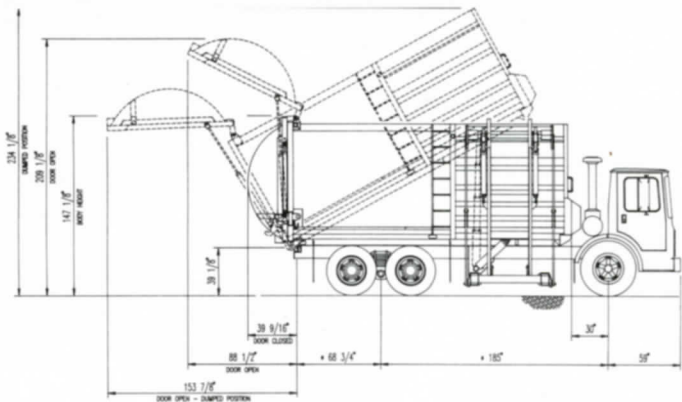
Built with high strength, low alloy steel, its light weight body has superior strength built right into it. With a 12 second lift cycle time and the longest reach in its class able to lift 3000 lbs., it can be installed onto conventional or cabover type chassis. For added convenience, the lift can be ordered for installation on the left or right side of the body with corresponding driver controls to match. The Sprinter's hydraulic system incorporates state of the art components, large diameter hoses and mandrel bent seamless hydraulic tubing to produce an efficient transfer of energy to all functions.

The Sprinter is available with many options such as rear and side vision cameras, onboard scales and automatic lubrication systems. It weighs less, hauls more and packs faster – giving you increased capacity and a greater return on your investment.

Extensive use of cutting edge CAD design technology is evident in every operational detail, making the Sprinter a solid and reliable investment.

### OPTIONS

- Ultrawear® shoes: 6 times the life of T1
- Low profile version, 1/2 blade version
- Conventional or cabover chassis
- Flex arm® lift mechanism
- Call for complete options list



### SPECIFICATIONS

#### Materials:

##### Front Body

- Hopper floor: 1/4" A514 100,000 psi yield
- Sides: lower panel 3/16" A715 80,000 psi yield, upper panel 10 ga. A715 80,000 psi yield

##### Main body

- Body floor: 3/16" A715 80,000 psi yield
- Sides: 10 ga. 80,000 psi yield
- Roof: 12 ga. 80,000 psi yield
- Tailgate: Skin 10 ga. A715 80,000 psi yield

#### HYDRAULICS

- Hydraulic pump: Muncie Live Pak
- Control Valve: Commercial Intertech VA35
- Seamless formed hydraulic tubing

#### LIFT ARM

- Standard lift mechanism will handle 1 1/2, 3 and 4 yard containers
- Capacity: 3,000 lbs
- 48" Reach

#### ELECTRICAL

- Vapor proof
- Sealed compression connections
- Reset circuit breakers

#### WARRANTY

- 1 year body and components
- 3 years hydraulic cylinders



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## SPRINTER BODY SPECIFICATIONS

### Body Capacity

Body capacity is 30 cubic yards including the 3 cubic yard bustle (bubble) style rear door and the 12 cubic yard hopper capacity.

### Hopper

The hopper has a 12 cubic yard usable capacity. Hopper sides are of flat design, with horizontal channel reinforcing. Lower panel is 3/16" - A715 - 80,000 psi yield for 48" in height. Upper panel is 10 gauge - A715 - 80,000 psi yield. Channel reinforcing is 4"x2"x10 gauge - A715 - 80,000 psi yield.

The hopper floor is constructed of 1/4" A514 100,000 psi yield strength abrasion resistant steel. Hopper floor is reinforced with a combination of 1/4" - A715 - 100,000 psi yield strength steel and 3"x3"x.375 H.S.S. and 4"x3"x.375 H.S.S. Body sill under hopper area is 1/4" 80,000 psi yield strength steel with a 10" cross section.

Body hopper opening is 85" wide and 88" long with a depth from top of hopper shield to floor of 108".

Opening at top of hopper shield is 89" wide and 92" long.

### Front Bulkhead

The front bulkhead is constructed from formed plates consisting of three horizontal members spanning the width of the body and an outer vertical plate which lies perpendicular to the horizontal spanning members, creating an integral structure. The outer plate, in addition to structurally reinforcing the entire assembly also seals the bulkhead so that an effective liquid retention height of 22 1/2 inches above the body floor is achieved.

### Load Discharge

Load discharge is of the "full eject" type and is interlocked with the rear door so that it has to be open before the packer plate can pass the 1/2 pack point.

On a full eject the opening of the rear door also disables the auto cycle system so that load discharge is controlled manually with the manual override packing controls.



## SPRINTER BODY SPECIFICATIONS

### Body Roof

Body roof is of rounded design and is constructed of 12 gauge 80,000 psi yield strength steel. Roof is reinforced longitudinally at the point where the roof meets the side with a 6"4"x10 gauge 80,000 psi yield strength formed channel.

### Body Sides

Body sides are rounded in design from top to bottom and constructed of 10 gauge 80,000 psi yield strength steel. The body is reinforced at the upper most point where it joins the roof with a formed channel constructed of 10 gauge 80,000 psi yield strength steel. With no rear body exterior stiffeners the result is a smooth, aesthetically pleasing exterior that can be utilised for signs or custom advertising. Also making daily washing easier with less surface area to wash.

### Body Floor

Body floor is part of the unibody concept and is of rounded design. It is constructed of 3/16" 80,000 psi yield strength steel. In combination with the rear body seal and the unique front bulkhead design body has the capacity to hold approximately 1,200 gallons of liquid waste.

### Body Reinforcing

Mid body reinforcing is achieved by a formed channel, constructed of 10 gauge - A715 - 80,000 psi yield strength steel with dimensions of 4 1/2" x 7" and has inverted channels installed inside in the high stress points constructed of 3/16" - A715 - 80,000 psi yield strength steel with dimensions of 2 1/2" x 6 1/2".

Rear body reinforcing at the door frame area is achieved by a formed channel constructed of 10 gauge 80,000 psi yield strength steel with dimensions of 4 1/2" x 7" and also has inverted channels installed inside in the high stress points for added strength and is constructed of 1/4" - A715 - 80,000 psi yield strength steel with 2"x4" dimensions.

### Lifting Mechanism

The lifting mechanism is capable of handling a 1-1/2, 3 and 4 cubic yard stationary refuse containers. The unit also has the capability of handling 90/120 gallon roll-off containers without the driver having to leave the cab of the truck and without any modifications to the mechanism between container sizes.



## SPRINTER BODY SPECIFICATIONS

The lifting mechanism consists of a horizontal bar with container hook-up points on either end. This achieves horizontal plane motion via the extension and retraction of one double acting cylinder which slides the roller supported mechanism frame work back and forth through a horizontal track mounted above the chassis framework, below the body floor. Vertical motion of the lifting mechanism is achieved through the extension and retraction of two double acting hydraulic cylinders which raise and lower the roller supported frame work through a vertical track. The mechanism is simultaneously connected to a system of link bars attached to a pivot shaft which rotate the container for dumping purposes at its extreme vertical level.

The container hook-up system consists of two horizontal, parallel shafts on either end of the horizontal lifting bar which engage specifically shaped hooks on the container. Gravity retains the container onto the lifting mechanism.

Reach .....48 inches  
Lift Capacity.....3,000 pounds

### Sliding Hopper Cover

The sliding hopper cover is a hydraulically actuated one piece flat sliding assembly to cover the hopper opening during travel to the dump site.

The top cylinder has a 2 1/2" bore x 72" stroke, double acting plated shaft.

The sliding hopper cover is flat 14 gauge sheet, reinforced with 2" x 2" x .250" thick square tubing. It operates inside a track integral with the fixed hopper shields, with steel on steel contact. The sliding hopper cover is operated from inside the cab with an air rocker switch.

### Rear Door

The rear door is a convexed profile to direct material flow during compaction and ensure the body fills completely.

The rear door has a 3 cubic yard capacity, and is constructed of 10 gauge 80,000 psi yield strength steel.

The rear door is attached to the body with 2 heavy duty steel hinges with 1 1/4" diameter, 150,000 psi yield strength steel, rotating in a hardened bearing race.

The rear door incorporates a water tight seal to prevent leakage. This is a replaceable compression type seal attached to the body, extending along the full width of the body-door interface, and 18" up the sides.



## SPRINTER BODY SPECIFICATIONS

The rear door is automatically latched and unlatched in sequence with the rear door hydraulic lift cylinders. The latch hook is constructed of 1" thick, 100,000 psi yield strength steel which contacts with a hardened bearing race on the door. Safety blocks, which must be installed and removed manually, are incorporated to prevent accidental opening of the door.

The rear door is hydraulically actuated from within the cab by 2 1/2" diameter x 42" stroke double acting cylinders with chrome plated shafts. The cylinders are equipped with restrictor fittings to prevent rapid descent in the event of hose failure.

A Federal Motor Carrier approved under ride guard is furnished. The under ride guard is welded to the bottom of the rear door, and swings out of the way with the door when refuse is ejected.

### Packer Ejection Blade

A hydraulically activated plate is furnished to clear the hopper of refuse, compact the body and eject the load. These hydraulic functions are operator controlled from within the cab.

The packer/injection plate lower section is constructed of 1/4" thick 100,000 psi yield strength steel and the upper section is constructed of 3/16" thick 80,000 psi yield strength steel. The entire structure is reinforced with vertical and horizontal boxed sections.

The packer/ejection plate is supported on two 6"x4"x.375" thick rectangular tubing shoes, clad with 3" x 1/4" thick 100,000 psi yield strength steel wear plates. The shoes ride in steel guide channels which are welded directly to the body sides for extra strength. The shoes are replaceable by removing the packer/ejection blade.

### "Full-Eject"

The packing/ejection blade is operated by 2 horizontally mounted, criss-crossed hydraulic cylinders. These cylinders are three stage, 5 1/2" x 4 1/2" x 3 1/2" bore, double acting, and have chrome plated shafts. They are mounted above the floor to prevent damage and are attached by 2" diameter pivot pins.

The packing force in each cylinder stage is as follows:

1st stage: 119,000 psi

2nd stage: 97,000 psi

3rd stage: 76,000 psi

Full eject operation takes about 35 seconds, including return to home position.



## SPRINTER BODY SPECIFICATIONS

### Hydraulic System

The hydraulic system maximum operating pressure is 2500 psi.

A heavy duty commercial shearing Model C230-369 tandem gear pump with combined flow of 70 US GPM @ 1,800 RPM, split @ 35 GPM for each bank is front mounted and incorporates H.O.C., (Hydraulic Overspeed Control). Pump shut down is achieved by means of an electrical switch and solenoid valve.

The hydraulic system utilises seamless steel tubing mounted to the body and secured with cushioned clamps. The tubing has a 2500 psi working pressure with a safety factor of 4. The hydraulic tubing fitting are either J.I.C. flare type of S.A.E. straight thread and O-ring face seal.

The hydraulic system utilises hoses which have a burst pressure rating of 4 times the maximum working pressure of 2500 psi.

The hydraulic system oil reservoir has a capacity of 50 US gallons, located on the curb side and mounted to the chassis frame. The tank comes complete with oil level site gauge, visible from the ground, a filler breather cap, and a shutoff valve. Hydraulic filtration includes a 10 micron return line filter with indicator, and a 100 mesh suction screen. The reservoir is pressurised to 10 psi to ensure that pump has positive pressure at the inlet port, and to keep dust out of the tank.

### Controls

Controls for all functions are located in the cab within easy access to the operator.

Lift/Reach controls are of a dual axis air joystick.

Rear door/top door controls are a air rocker switch.

Packer blade controls are a momentary electrical push button with the following features:

1. Pack - manual pack control and full eject unload.
2. Return - manual return control and full eject return.
3. Auto Pack Cycling - packing control in conjunction with a pack hold timer to hold the load to allow the sponginess to exit the refuse and pack a tighter load. Adjustable from .01 seconds to 10 seconds.
4. Auto Pack Stop - stop control to interrupt the auto packing cycle. Body marker lamp switch and reset.



## SPRINTER BODY SPECIFICATIONS

### Indicator lamps

1. Packer blade/packed home/green
2. Rear door ajar/red
3. Pump indicator/system on/green

### Cycle times

1. Lift arms up/down - 12 seconds
2. Slide - 4 to 6 seconds
3. Packer clear hopper - 18 seconds
4. Load eject and return - 35 seconds

### Body Lights & Wiring

All lighting is in accordance with FMVSS. Light bar on lower section of door include 2 stop turn indicators each side and 1 backup lamp each side.

A mid body signal combination marker lamp is located on each side of the unit, mid lower body.

Body marker lamps are located 1 front, top corner each side (amber).

Rear body marker located in rear door frame 1 top and 1 bottom. There is also a grouping on the outside of the rear door 1 each side and 3 in the centre.

A 107 DBA electrical backup alarm is provided and is activated when the vehicle is in reverse.

Resettable circuit breakers are utilised for circuit protection.

All wiring is enclosed in body member or sealed plastic loom. All wiring is colour coded.

### Mud flaps

Mud flaps are installed front and rear of the tandem axles and have anti-sail provisions.

### Body painting

The entire body is phosphate wash treated prior to the primer paint. A zinc rich rust inhibiting primer is used prior to the polyurethane enamel finish.





## SPRINTER BODY SPECIFICATIONS

### Warranty

A factory warranty covers the basic unit and components for a twelve-month period, with the exception of the Packer Blade Cylinders and Rear Door Cylinders. These are covered under a (36) thirty six-month warranty. The "Body" structure is covered under a (36) thirty six-month warranty on components manufactured by Wittke Waste Products. The Lift System and Hydraulic components are covered under the (12) twelve-month basic unit warranty.