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WITKKE



INDUSTRIAL AIRPORTS

**WITKKE**

**STARLIGHT™**

#### Speedy Operation. Increased Productivity.

The Wittke Starlight™ is known for its low arm cycle time – no time lost! The design of the hydraulic system, superior hydraulic components and adjusted acceleration and deceleration ramps increase productivity! Operators will love it!

#### Constructed with Superior Hardness & Superior Strength. Low Maintenance Costs.

By using HARDOX treated wear plates in the entire body construction, the new Wittke Starlight is the strongest Front Loader in the Industry. The body is even stronger and more resistant to abrasion, increasing stability, longevity and reducing body weight. Stronger all around, and your key to success. Low maintenance costs mean maintenance crews will appreciate its durability.

#### Reduced Body Weight. Maximized Payload.

Everything is possible with Wittke. By using HARDOX, steel thickness is reduced and body properties are enhanced. This new design permits the heaviest legal payload ever! Ideal to handle both residential and commercial routes!

#### Easy To Maintain. Simple to Troubleshoot.

We are committed to design systems that are easy to maintain and simple to troubleshoot. The new Wittke Starlight is built to answer your customers' needs - Just what you want in a Front Loader!





Large HARDOX steel hopper



Packer panel face with 'snow plow' effect



Durascope™ pack/eject cylinders

## HARDOX BODY CONSTRUCTION

The new Wittke Starlight body is made out of HARDOX 450 steel. HARDOX – a high wear material up to 5 times more abrasion resistant than typical steel is used to increase the useful body life. The new body configuration eliminates multi-piece seams that invite corrosion overtime. The Wittke side walls are made of a single piece HARDOX 1/8" thick rated at 175,000 PSI that create greater body strength and durability. With HARDOX 4mm/.160" thick rated also at 175,000 PSI, body floor will perform to extreme conditions.

## POWERFUL HYDRAULIC DESIGN

The Wittke's hydraulic system offers the fastest pickup and compaction on the market. The Muncie LivePak hydraulic pump, rated at 54 GPM and 1500 RPM provides exceptional performance. A typical packing cycle takes only 18-20 seconds, as well as, the arm cycle which takes 14 seconds. All tubes are plated for resistance to corrosion, and hydraulic lines are strategically placed and protected.

## LARGE AND STRONG HOPPER

With a 12 C.Y. hopper, large or over-filled containers can be discharged more easily. Hopper walls are made of a single HARDOX steel formed piece 4mm/.160" rated at 175,000 PSI and the hopper floor is made of 1/4" thick HARDOX also rated at 175,000 PSI for biggest impact property.

## HEAVY-DUTY ARMS & FORKS

Durable, reliable box construction is internally braced, creating a strong truss from within the arm itself. The curved arm is designed for strength and evenly distributed stress points.

## PACKER PANEL

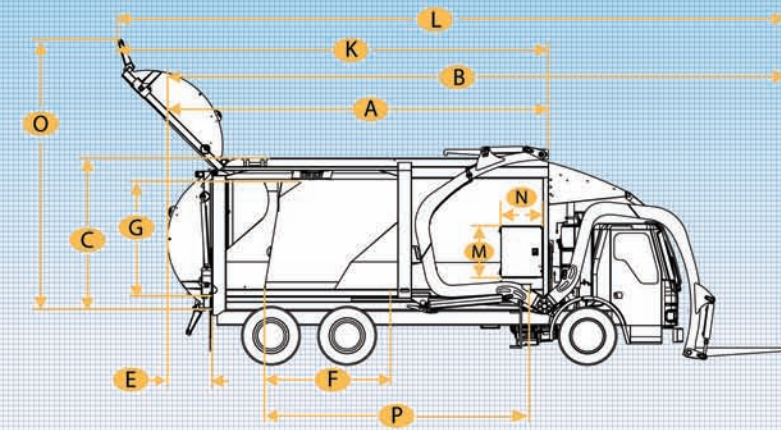
The Wittke Packer Panel is designed with more efficient angles and construction, resulting in better compaction and increased payload and productivity. The "snowplow" style prevents refuse from creeping up the face of the packer. The lower face panel is made of 1/4" thick HARDOX rated at 175,000 PSI for higher abrasion resistance.

## TAIL GATE AUTO-LATCH SYSTEM

The new Wittke tail gate hydraulic locking device is one of the most simple and efficient in the industry. The tail gate is easily locked and unlocked from the in-cab control panel.

## DURASCOPE™ PACK/EJECT CYLINDERS

A revolutionary pack/eject cylinder with advanced seal protection. This state-of-the-art component, standard on all Wittke front loaders, was designed to be more durable and more productive than ever before. The cylinder features an enhanced seal configuration with improved wear and temperature resistance, along with an aggressive scraper sleeve.



## Dimensions

	Imperial 36 + 4 cu. yd	Metric 31m <sup>3</sup>	
A	O.A. length, forks up, travel position	273"	6934 mm
B	O.A. length, forks down	447"	11 354 mm
C	O.A. height above frame, forks travel position	109 3/4"	2788 mm
D	O.A. width*	98 1/2"	2502 mm
E	Tailgate length	32"	813 mm
F	Packer ram stroke	91"	2311 mm
G	Packer height	83 1/2"	2121 mm
H	Packer width*	82 1/4"	2089 mm
I	Hopper opening length*	91"	2311 mm
J	Hopper opening width*	80"	2032 mm
K	O.A. length, tailgate raised, travel position	278"	7061 mm
L	O.A. length, tailgate raised, forks down	482 1/2"	12256 mm
M	Hopper access door: height	39"	991 mm
N	Hopper access door: width	32 1/2"	826 mm
O	O.A. height above frame, tailgate raised; forks travel position	195 3/8"	4963 mm
P	Eject panel travel	191 1/4"	4858 mm

\*not shown on drawing

## Body Specifications

Body floor: .....curved body floor, 4mm/.160", HARDOX high-strength steel 175,000psi  
 Sides: .....curved body sides, 1/8", HARDOX high-strength steel 175,000psi  
 Roof: .....curved roof, 1/8", - high-strength steel 175,000psi  
 Cab shield: .....curved shape, with front part hinged, 12ga, yield strength 80,000psi  
 Long sills: .....HSSR 6" x 2" x 1/4" yield strength 50,000psi

## Body Capacities

Capacities: .....32, 36 and 40 cu. yd

## Hopper Specifications

Floor: .....flat shape, 1/4", HARDOX high-strength steel 175,000psi  
 Side: .....curved, 4mm/.160", HARDOX high-strength steel 175,000psi  
 Long sills: .....HSSR 6" x 2" x 1/4" yield strength 50,000psi  
 .....with "C" shape 3" x 2" x 3/8"  
 Access door opening: .....Steel, hinge type, 32 1/2" wide x 39" high

## Tailgate Specifications

Type: .....curved bubble tailgate, 1/8", HARDOX high-strength steel 175,000psi  
 Opening: .....top hinged  
 Anti-leak rubber seal: .....at bottom and 42 1/4" on each side  
 Locks: .....(2) automatic tailgate latches on either side  
 Capacity: .....2, 4 & 6 (4 cu. yd. standard)

## Packer Specifications

Type: .....full-eject type, full height  
 .....with dual double-acting telescopic cylinders; criss-cross configuration  
 Upper face plate: .....4mm/160", HARDOX high-strength steel 175,000psi  
 Bottom face plate: .....1/4", HARDOX high-strength steel 175,000psi  
 Packer wear shoes: .....HARDOX 450 on packer; HARDOX 500 on body  
 Blocks for cylinder pin attachment: .....split type, bolted for easy service and maintenance

## Arm Specifications

Construction: .....high-strength steel 100,000psi  
 Capacity: .....8,000 lb standard  
 .....10,000 lb (option)

## Hydraulics

Operating pressure: .....2,500psi  
 Pump type: .....Muncie LivePak Gear  
 Directional valve: .....Parker, 5 sections with Air actuator (electric solenoids with autodump)  
 Packer control: .....automatic cycle of the compactor  
 Arm and fork: .....Two handle joystick standard  
 .....Single four-way joystick (Option)  
 Hydraulic tank: .....Aluminum, Capacity of 66 US gallons  
 In-tank return filter: .....with dirt indicator / magnetic plug / level indicator

## Cylinders

Packer: .....(2) telescopic cylinders, 170" stroke, three stages bore 5/2", 4 1/2", 3 1/2",  
 Top hopper door: .....(1) double-acting cylinder bore 2.5" x 92" stroke and rod 1.5"  
 Forks: .....(2) double-acting cylinders bore 3 1/2" x 19" stroke and 1 3/4" rod diameter  
 Lift arms: .....(2) double-acting cylinders bore 4.5" x 45 3/8" stroke and 2" rod  
 Tailgate: .....(2) double-acting cylinders bore 2.5" x 39" stroke, rod 1.75"

## Productivity Data

Packer cylinders' force: .....118,800 lb. at 2,500psi  
 Top door opening: .....11 sec. at 1,500 rpm  
 Eject-panel cycle time: .....33 sec. at 1,500 rpm  
 Packer cycle time: .....20 sec. at 1,500 rpm  
 Lifting arms' cycle time: .....14 sec. at 1,500 rpm  
 Fork cycle time: .....4 sec. at 1,500 rpm  
 Body tare weight 40 cu. yd.: .....15,500 lb.