

# THE TUSKS

**FRONT LOADER  
GARBAGE TRUCK  
2021**





# TUSKS

## THE FOREFRONT OF FRONT LOADER WASTE TECHNOLOGY

STG's Tusks is Australia's most efficient front-loader garbage truck. Boasting industry-leading strength and durability, Tusks is one of the most reliable trucks on the road.

Extensive driver feedback drove the design of this highly functional and automated loader. Tusks features state-of-the-art technology, including an intuitively designed joystick and iPad interface, allowing owners to streamline routes and save on costs.

With its mix of strength, long-lasting materials and intelligent automation, STG's Tusks is a business asset you can rely on.







## TOUGH LONG- LASTING DESIGN

Tusks trucks are built to last. The tough, abrasion-resistant body and rear door are made from Hardox™ – a steel used specifically for high wear applications – which keeps trucks looking good as new.

The floor of the body is made from Hardox™ HiAce, a corrosion-resistant steel plate designed specifically for the waste industry, to extend the service life of your vehicle.



# INDUSTRY-LEADING TECHNOLOGY

Our bin pickup system has more power, functionality and data-capturing capability than any competitor. The loading system is safe, fast and easy to use. With one touch, the Tusk lifts and tips the bin before the triple butterfly door closes securely, trapping the waste in a 12-second lift cycle.

Our proprietary software includes route navigation and daily checklists and integrates with third-party external software. The result is a seamless operation and a clean cabin with minimal hardware.



Our integrated control system features:

- all-in-one single display
- easy integration – load your own apps and decrease cabin clutter
- 'split-screen' capability, which allows a second app to run in parallel on the same screen
- built-in electronic daily driver checklists
- simple, multi-camera selections with multiple display layouts
- on-screen incident capture buttons
- built-in GPS for route navigation
- day/night mode to alleviate operator eye strain and in-cabin distraction
- dimple, intuitive user interface
- a direct interface to DVR

While our control system is designed for Apple iPad Pro, it is also available on Android.



## LOADRITE

Data is crucial for all operations and offers endless opportunities to boost efficiencies. We provide software that accurately weighs each bin, so you know which pickups earn or cost money.

Tusks incorporates the LOADRITE E270 advanced bin weighing system directly into the iPad. The system automatically measures the net weight of the bin, ensuring that your vehicle is not overloaded. The bin weight and other information can be printed in the truck using the optional LOADRITE printer or sent electronically to a separate on-board computer. These scales are user friendly and require no specialised training.

Trimble LOADRITE E2750 weighing system uses LR970 solid-state position sensors to continuously report lift arm's position, ensuring optimal accuracy. These sensors can also report acceleration, angles, pitch and roll and rotation rates.

## JOYSTICK CONTROL

After rigorous testing in real-world settings, our designers selected the Danfoss HR1 Joystick for our cabins.

The ergonomic design of the Danfoss HR1 makes movement inputs smooth, with easy-to-use fingertip controls creating maximum comfort and steering precision.

The combination of the iPad interface and the joystick control provides a truly seamless experience.



**OPTIMISED BODY  
DESIGN AVAILABLE IN  
LOW PROFILE, MID-PROFILE  
OR RAISED PROFILE.**

**26m<sup>3</sup>**

**28m<sup>3</sup>**

**31m<sup>3</sup>**

**33.5m<sup>3</sup>**

## QUALITY SERVICE AND TRAINING

We're known for fast, quality service and have the infrastructure to place our team and vehicles where they're needed.

We provide the best after-sales support within the industry, and our nationwide network provides global expertise on a local scale. Our units are also tracked by GPS, which allows us to anticipate servicing needs in real-time.

We carry a full range of spare parts and offer repair and maintenance packages at competitive rates. With dedicated service centres in Victoria, New South Wales, and Queensland, our trained technicians are here to help.

We provide comprehensive training to help you operate your truck correctly and get the most out of our state-of-the-art technology. We also offer on-demand refresher training programs.



## INTERACTIVE MANUALS

Our industry-leading iPad Pro interface holds hundreds of coloured and detailed renders. This highly interactive manual has a dual purpose: it assists with operating tips and makes ordering parts a seamless experience. Simply hover the cursor over the relevant part of the 3D CAD model, and within four clicks, a replacement is ordered.

Paper manuals are easily lost, but our live digital system ensures everything you need is at hand and that parts are an exact match for your model.



# HIGH-QUALITY HYDRAULICS

We've partnered with industry leaders to provide the highest quality and most reliable hydraulics for our Tusks.



## HYDRAULICS

STG understands the importance of minimising downtime. We have partnered with the industry's leading players to provide reliable hydraulics, resulting in maximum profitability at all times.



### PARKER CHELSEA

Parker Chelsea has been serving the auxiliary power market since 1945 with the broadest product range in the market. Chelsea products are at the cutting edge of innovation and performance, making Parker Chelsea a market leader in Power Take-Off products for the truck and mobile vocational markets. Parker Chelsea PTOs are designed with a wide range of internal speeds, torque capacities and output options and can support almost every driven equipment requirement.



### OMFB

OMFB is located in Provaglio d'Iseo, in the province of Brescia, Italy. Its products are known for their excellent performance, reliability, and quality. OMFB PACIFIC PTY LTD is the Australian subsidiary established in late 2019, which has the scope to guarantee excellent local market support in terms of availability and technical assistance.



### PERMCO

Permco is a leading manufacturer of high-pressure hydraulic gear/vane pumps and motors, flow dividers, intensifiers, and accessories.



### HYDROCONTROL ELECTRONICS

Hydrocontrol is an Italian manufacturer of market-leading hydraulic valves and is part of the Interpump Group.

Hydrocontrol products are known for their excellent performance, quality and durability.



TECHNICAL SPECIFICATIONS

GENERAL DATA				
Body Capacity		26 m³ [34 yd³]	31 m³ [40.5 yd³]	33.5 m³ [43.8 yd³]
Hopper Capacity		8.5 m³ [11.1 yd³]		
Cab Chassis Configuration		6x4 - 22,500 kg [49604 lb] GVM	8x4 - 28,000 kg [60627 lb] GVM	
Wheelbase (Approx.)		5245 mm [206.7"]	5780 mm [227.6"]	5775 mm [227.4"]
Body Length (in Travel Mode)		9500 mm [374"]	10470 mm [412.2"]	11010 mm [433.5"]
Body Height		2540 mm [100"]		
Body Weight		6500 kg [14330 lb]	7100 kg [15652 lb]	7300 kg [16093 lb]
Tailgate Opening Angle		110°		
PRODUCTIVITY SPECIFICATION				
Body Size		26 m³ [34 yd³]	31 m³ [40.5 yd³]	33.5 m³ [43.8 yd³]
Maximum Compaction Force		380 kN [85427.4 lbf]		
Compaction Density*¹		180 - 450 kg/m³ [303.4 - 758.5 lb/yd³] - Adjustable		
Maximum Bin Loading Rate*²		3 bins/minute = 180 bins/hour		
Bin Lifter Times	Forks - raise	3 - 4 seconds		
	Forks - lower	3.5 - 4.5 seconds		
	Lift arms - raise	4 - 5 seconds		
	Lift arms - lower	3 - 4 seconds		
	Sliding forks	5 - 6 seconds		
	Sliding forks - out	6 - 7 seconds		
	Total cycle time	10 - 12 seconds		
Body Function Times	Tailgate - open	22 - 25 seconds		
	Tailgate - close	22 - 25 seconds		
	Hopper lids - open	1.5 - 2 seconds		
	Hopper lids - close	3.5 - 4 seconds		
	Eject Blade - Retract	14 - 18 seconds	16 - 20 seconds	22 - 26 seconds
	Eject Blade - Extend	28 - 32 seconds	34 - 38 seconds	42 - 46 seconds
	Half-Pack cycle time	20 seconds		
	Full-Pack cycle time	41 seconds	53 seconds	68 seconds
	Flipping roof - raise	2 - 4 seconds		
	Flipping roof - lower	4 - 5 seconds		
Bin Sizes	660 L - 1100 L [174.4 - 290.6 gal] MGB	Yes		
	80 L - 360 L [21.1 - 95.1 gal] MGB	Yes		
	1 m³ - 6 m³ [1.3 yd³- 7.8 yd³] front loader bins	Yes		

PERFORMANCE			
Bin Lifting Capacity	2,500 kg [5511.6 lb]		
Bin Suitability	1.0 m³ - 6.0 m³ [1.3 yd³- 7.8 yd³] front loader bins & full range of MGB's*		
Compaction Force	38760 kg [85451.2 lb]		
Bin Lift Cycle Time	11 seconds		
Half Pack Cycle Time	20 seconds		
Full Blade Eject Cycle Time	42 Seconds	55 seconds	66 Seconds
MATERIAL LISTING			
Body Side Sheets	4 mm [0.15"] Wear Resistant Hardox Steel		
Body Floor Sheet	5 mm [0.19"] Wear Resistant Hardox Steel		
Body Roof Sheet	4 mm [0.15"] Wear Resistant Hardox Steel		
Hopper Lids	3.2 mm [0.13"] Wear Resistant Hardox Steel		
Fork Blades	20 mm [0.79"] Wear Resistant Hardox Steel		
Lift Arms	6 mm [0.24"] Wear Resistant Hardox Steel		
Ejector Blade / Wear Pads	Replaceable wax filled nylon pads		
Tailgate Sheets	4 mm [0.15"] Wear Resistant Hardox Steel		
Ejector Blade	4 mm [0.15"] Wear Resistant Hardox Steel		
HYDRAULICS AND CONTROLS			
Control System	CANBus control system with 12" touch screen iPad		
Hydraulic Pump	125-135 L/min [33.0 - 35.7 gal/min] Variable displacement load sensing pump		
Operator Interface	Danfoss multi-function joystick with touch screen controls		
Maximum System Pressure	265 Bar [3843.5 psi]		
Hydraulic Filters	10 Micron filters		
Hydraulic Oil Tank	250 L [66 gal]		
Hydraulic Piping	Zinc plated steel piping		
Hydraulic Valving	Proportional hydraulic control valves		



## FEATURES AND ACCESSORIES

## PAINT FINISH AND SIGNWRITING

The colours, graphics and signwriting on Tusks can be customised according to your needs.

## INTEGRATED STORAGE

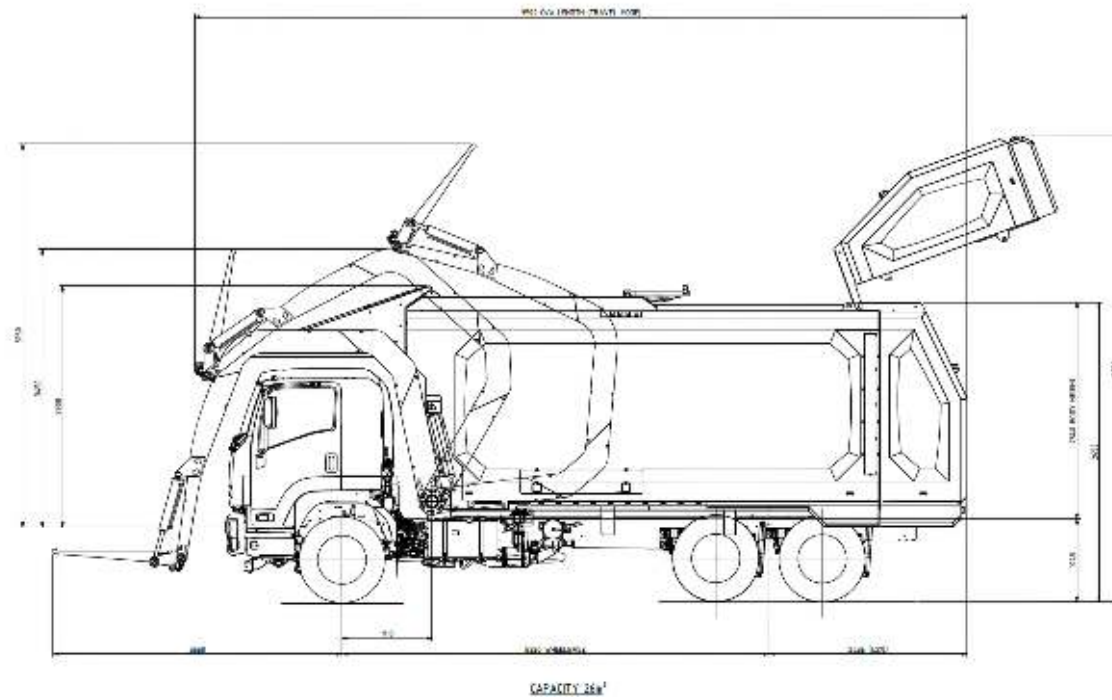
Integrated dual storage on both sides of Tusks provides safe access to the operator's personal items and much needed tools.



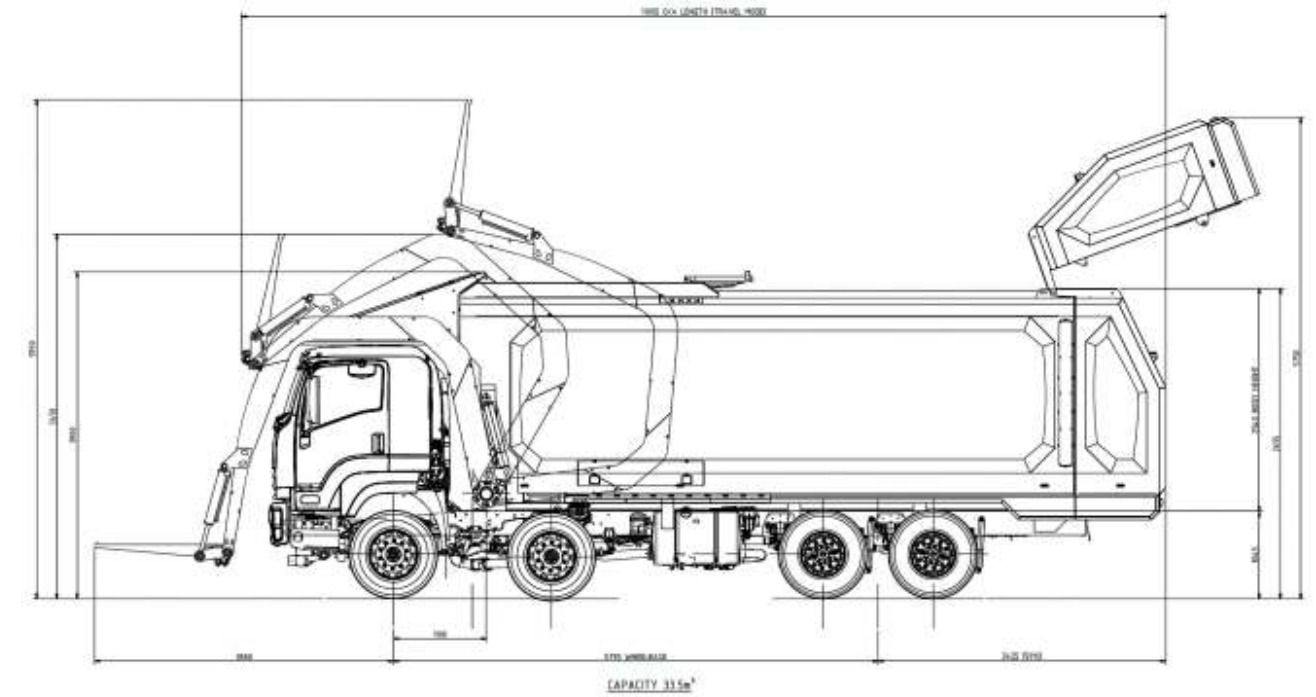


## DIMENSIONS

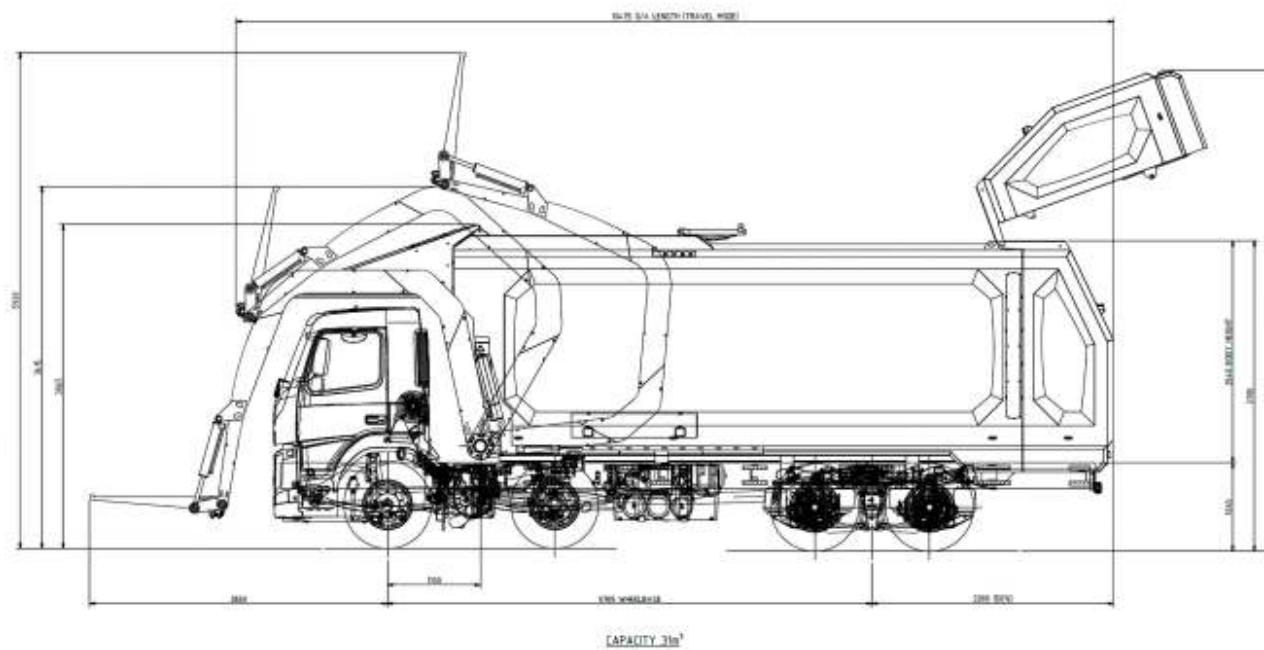
**26m<sup>3</sup>**



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**31m<sup>3</sup>**





# THE ENVIRONMENT

We continually work to improve our processes, products and services to minimise our impact on the environment. From research and development to end of life treatment, we focus on reducing the consumption of resources, avoiding hazardous materials, and creating design solutions that are gentle on the planet.

## STG

STG provides world-class products that fuse innovation with efficiency. Our designs are inspired by Australia's rugged environment. Tough, safe and smart, each truck is purpose-built and made to last.

Our approach to product development and innovation begins with our partners. We build strong relationships and tailor our designs to help clients thrive in any environment.

People depend on us, and every STG vehicle undergoes rigorous inspections before it is deployed. Our extensive list of safety devices means our vehicles can be operated anywhere in the world. From local streets to remote locations, STG is there.

## MANUFACTURING AND ENGINEERING

STG leads the way in the development and innovation of ready-to-work trucks. We've built our success through sheer determination and investment in R&D.

We manufacture modules for water trucks, diesel trucks, mobile lube trucks, vacuum excavation trucks, tilt tray trucks, sweeper trucks and waste trucks. You name it, we can do it.

## STG WASTE

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## THE BANDIT AND THE CLAW

The STG Waste range also features a side-loader waste truck, The Bandit and a rear-loader waste truck, The Claw.







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