HIGH PERFORMANCE SPRAYERS
Sands Agricultural Machinery Ltd have been involved in the application of agrochemicals since the 1960s and have been designing and building self-propelled crop sprayers since 1975. This has given the Company a wealth of knowledge and experience that enables them to produce high specification machines to satisfy the demands of today’s farmers and growers.

The latest Horizon range of self-propelled crop sprayers has been designed to offer maximum in-field performance with the highest level of operator comfort. Available in three model sizes, these technically advanced sprayers have been developed in house by Sands and have incorporated numerous ‘operator’ led features. This has made the Horizon a true drivers’ machine, with the impressive cab layout allowing for long days spraying without excessive fatigue.

All the components used in manufacture have been carefully selected for quality, reliability and durability to ensure minimum downtime and maximum output.

The 4000 litre capacity Horizon 4.0 offers the user high in-field performance without the excessive weight of other similar capacity machines. When fitted with a 24m boom unladen weight is a class leading 7.8t. This enables it to cover the ground lightly in the wetter seasons when fitted with flotation wheels. On rowcrop wheels underbelly clearance is a minimum 1000mm reducing crop damage and aiding visibility in tall crops.

Front brakes are a standard feature giving improved stopping performance on the road and extra security when working in steep fields.

The Horizon 4.0E has a longer (+550mm) chassis than the standard model. This significantly reduces the overall tank height. In this case by 135mm (nearly 6 inches) giving a lower centre of gravity, improved road holding and better handling of wider booms when at a 1.8m (72in) track width.

The “E” variant with its low overall height is especially suitable for those working on extreme slopes. When fitted with the optional “Smart Drive Traction Control” the “E” is probably the most stable and safest machine for tackling the worst of conditions.

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The largest capacity Horizon boasts a payload of 5500 litres. Powered by the Deutz TCD 6.1 engine (242hp) but now driving through the larger Poclain motors the 5:5 is capable of extremely high outputs.

As befits a machine of this capacity full dynamic braking on all wheels is standard, together with the Premier Plus Drive system which automatically changes wheel motor displacements as speed increases. An in-field cruise control function is a standard feature ensuring a more constant spraying speed and thus a more uniform spray quality.
Specifications

<table>
<thead>
<tr>
<th></th>
<th>Horizon 4 &amp; 4E</th>
<th>Horizon 5:5/6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine</strong></td>
<td>Deutz Tier 4 Final TCD6.1 with AdBlue</td>
<td>180kw-242hp</td>
</tr>
<tr>
<td><strong>Fuel Tank Capacity</strong></td>
<td>280 litres</td>
<td>280 litres</td>
</tr>
<tr>
<td><strong>Drive System</strong></td>
<td>Poclain Easy Drive System</td>
<td>As per 4 and 4E with cruise control</td>
</tr>
<tr>
<td><strong>Brakes</strong></td>
<td>Front dynamic brakes</td>
<td>Dynamic brakes on all 4 wheels</td>
</tr>
<tr>
<td><strong>Park Brake</strong></td>
<td>Multi wet plate</td>
<td>Multi wet plate</td>
</tr>
<tr>
<td><strong>Hydraulics</strong></td>
<td>Load sensed hydraulic system</td>
<td>Load sensed hydraulic system</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>3.75m</td>
<td>3.9m</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>7.25m - 7.85mE</td>
<td>7.85m</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>2.9m</td>
<td>2.9m</td>
</tr>
<tr>
<td><strong>Working Weight (with 24m boom)</strong></td>
<td>7.8 tonnes approx</td>
<td>9.1 tonnes approx</td>
</tr>
<tr>
<td><strong>Turning Circle</strong></td>
<td>7m - 8.5mE</td>
<td>8.5m</td>
</tr>
<tr>
<td><strong>Axle - all models</strong></td>
<td>1727mm - 2134mm (68-80in) or 1830mm - 2743mm (72-84in) both manual adjusting</td>
<td>1800mm - 2420mm (72-84in) both manual adjusting</td>
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<tr>
<td><strong>Speed - all models</strong></td>
<td>0 - 45kph</td>
<td>0 - 45kph</td>
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<tr>
<td><strong>Tank Capacity</strong></td>
<td>4000 litres</td>
<td>5500/6000 litres</td>
</tr>
<tr>
<td><strong>Spray Pump</strong></td>
<td>300 litres/min</td>
<td>400 litres/min</td>
</tr>
<tr>
<td><strong>Boom</strong></td>
<td>12/24m gullwing - booms to 40m available in steel or aluminium</td>
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</tr>
<tr>
<td><strong>Maximum Nozzle Clearance</strong></td>
<td>2.45m - 2.75m depending on wheel equipment</td>
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</tr>
<tr>
<td><strong>Minimum nozzle clearance</strong></td>
<td>0.56m depending on wheel equipment</td>
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</tr>
<tr>
<td><strong>Spraylines</strong></td>
<td>19mm stainless steel with triplet nozzle bodies, automatic prime and purge re-circulation</td>
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</tr>
<tr>
<td><strong>Rowcrop Wheels</strong></td>
<td>380/85 R34, 420/90 R30, 420/85 R34, 540/65 R30. Other sizes by request</td>
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</tr>
<tr>
<td><strong>Rotation Wheels</strong></td>
<td>600/60 R28, 600/60 R30 Michelin Xeobibs 710/55 R30 Michelin Mach X Bibs. Other sizes and makes by request.</td>
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</table>

**Standard features**

- Permanent hydrostatic four wheel drive
- Intelligent four wheel steer
- Single hydrostatic drive pump with torque split capability
- Full hydraulic suspension with Dual Ride option
- 24m gullwing boom (booms up to 40m are available)
- Single sprayline with triplet nozzles and prime and purge re-circulation
- Clean water rinse tank
- Stainless steel induction hopper with can wash and rinse ring
- Hand wash and clothing locker
- Extra storage boxes either side
- Air take off point

**Panoramic Category 4 Cab Standard Features - Internal and External**

- Twin amber beacons
- Electric adjustable and heated mirrors
- Hid work lights front and rear 4 + 4
- Auto rate controller
- Indicators on joystick when in road mode
- Digital climate control
- Rear view camera
- Removable fridge unit
- Grammer, high back air seat with electronic lumbar support
- Training seat
- Electric joystick with illuminated buttons indicating main on/off and sections selected
- Wide opening full glass door
- Sunblinds front and rear
- Bluetooth radio/CD with USB connection
- Underseat storage
- Easy access to cab filter
The all new range of Horizon high performance sprayers majors on operator comfort, quality and reliability.

Featuring an all new ‘sprayer specific’ panoramic cab with category 4 filtration, the Horizon is well capable of allowing the operator to achieve high daily outputs with the minimum of fatigue. Designed from the outset to offer the highest levels of comfort, ease of use and visibility together with class leading low noise levels. The result is the ultimate for a self-propelled sprayer.

The use of twin curved rear screens with a central support has removed the corner pillars giving an unimpeded view to the booms. An all new armrest console and joystick together with tactile and illuminated electric switches and spool controls has been ergonomically designed for ease of use.

Options

- GPS systems from Agleader, Trimble and Topcon
- Boom leveling from Norac
- Booms over 24m
  - Steel 28, 30, 32, 36 and 40m
  - Pommier aluminium boom available in 30, 32 and 36m
- Variable Geometry - "VG" boom
- Duo react 4 + 1 nozzle bodies
- Hydraulic fast fill pump
- Fast fill port
- 400l/min dual speed pump
- Infill meters
- Airjet spraying system
- Airstream spraying system
- Blue boom lights
- End jets – cab controlled
- High power washdown kit
- Side mounted 50 litre induction hoppers
- Slug pelleting systems
- Spreader de-mount kits
- Hydraulic axle adjustment – 1727mm to 2134mm (68in to 84in)
- Extra wide hydraulic axle adjustment – 1830mm to 2743mm (72in to 108in)
- Dual ride suspension
- Automatic headland boom lift
- Drawbar
- SMART Drive traction control
- Floatation wheels

Cab

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Sands are major exporters of self-propelled sprayers to many parts of the globe. The map shows areas where our sprayers have been exported to, please contact us for details of our overseas representatives.