

**AERIAL
SPREADING
EQUIPMENT**
imsheli.com



GROUND-EFFECT
SPREADING BUCKET

a product by IMS



Ground-Effect Spreading Bucket

The **Ground Effect Spreading Bucket range** has been designed by IMS to be strong, lightweight and to maximise the efficiency and distribution of product, while maintaining the flight characteristics of the underslung spreader bucket throughout a speed range.

The **Ground Effect Spreading Buckets** have a sliding valve with interchangeable orifice plates of varying size which determines the rate of application, while the unique hopper design ensures complete evacuation. The engines have been chosen for high power to weight ratios and the spinner designed to ensure a maximum swath width and even product spread.

Ground Effect Spreading Buckets are suitable for application rates of up to 400kg/ha (360lbs/ac) and can be custom made to suit the operator's requirements.



An essential
addition
to any
agricultural
helicopter
operation.

Capacities

Part Number	Capacity (Liters)	Capacity (US Gallons)	Capacity (Cubic Feet)
GE200	200	53	7
GE300	300	79	10.6
GE350	350	92	12.4
GE400	400	106	14.1
GE560	560	148	19.8
GE650	650	172	22.9
GE750	750	198	26.5
GE950	950	251	33.5
GE1200	1200	316	40.6
GE1350	1350	355	45.9
GE1500	1500	396	53
GE1650	1650	436	58.3
GE2400	2400	634	84.7
GE2700	2700	713	95.3

Granular Variable Flow Control

With the option of choosing a **Variable Flow Valve** in this series of the **Ground -Effect Spreading Bucket**, the pilot can manually adjust the Variable Flow Control Valve with the remote speed control. This can be done while in flight.



The variable Flow Valve has been designed for the application of dry media. 1kg to 200kgs per hectare or 0.9lbs to 178lbs per acre.

Product flow rates can be adjusted during flight eliminating the need to land until the bucket is empty.

Capacities

Part Number	Capacity (Liters)	Capacity (US Gallons)	Capacity (Cubic Feet)
GE200	200	53	7
GE300	300	79	10.6
GE350	350	92	12.4
GE400	400	106	14.1
GE560	560	148	19.8
GE650	650	172	22.9
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Ground-Effect Spreading Bucket Accessories

Ground-Effect Spreading Buckets can be specifically designed for purpose including for pest and mosquito control.



Hopper Lid

Robust Hopper lids with zipped openings are available for the entire **Ground-Effect** range.

Spinner & Motor

A range of spinner and motor configurations are available to suit your specific application requirements. The team at IMS New Zealand will work with you to supply the optimum system for your needs.



Bucket Mounted Air Compressor

Providing a compressed air supply to operate the slide valve to ensure fast open and close movements.



Product Agitator

Maximizes product flow to the spinner and reduces product bridging in hopper.





Heavy Rate Applicator

IMS New Zealand have developed a **Heavy Application System** for applying bulk fertilizer products dry or wet at rates in excess of 500 Kgs per Hectare (500lbs per Acre).

The **Heavy Rate Applicator valve** opening is pneumatic and is powered by a bucket mounted air compressor. Adjustment of the door opening position allows the operator to vary the application rate simply and quickly without the requirement of any special tools.

Optional extras are Wing Vane and/or Product Deflector as shown.

Agitator systems are also available for the **Heavy Rate Applicator** which minimizes the risk of dry product bridging or hanging up in the bucket.

These systems are available in a range of sizes and come complete with certified lifting lines, Spreader Bar suited to your helicopter, and wiring to the top of the Lift Lines.

Contact us for information on a system that best suits your application.

Capacities

Capacity (US Gallons)	Capacity (Liters)	Capacity (Cubic Feet)
106	400	14.1
119	450	15.9
132	500	17.6
145	550	19
158	600	21
171	650	23
184	700	24
250	950	33.5
277	1050	37
330	1250	44.1
356	1350	47.7
435	1650	58.2



Concrete/Masonry Skip

A skip for placement of wet cement / masonry products that is available with manual door actuation or pneumatic door actuation.

A robust and effective skip for a wide range of products.

A full range of **underslung skips** are available to suit your specific needs with a range of volumes and release configurations including pneumatic and manual operation.

The tough and effective **skips** are suitable for concrete positioning and masonry product handling and are available in mild steel and aluminum construction.



Capacities

Capacity (US Gallons)	Capacity (Liters)	Capacity (Cubic Feet)
40	150	5.3
53	200	7
66	250	8.8
79	300	10.6
92	350	12.4
106	400	14.1
119	450	15.9
132	500	17.6
145	550	19
158	600	21
171	650	23
184	700	24
237	900	32
290	1100	39
286	1300	46
396	1500	53

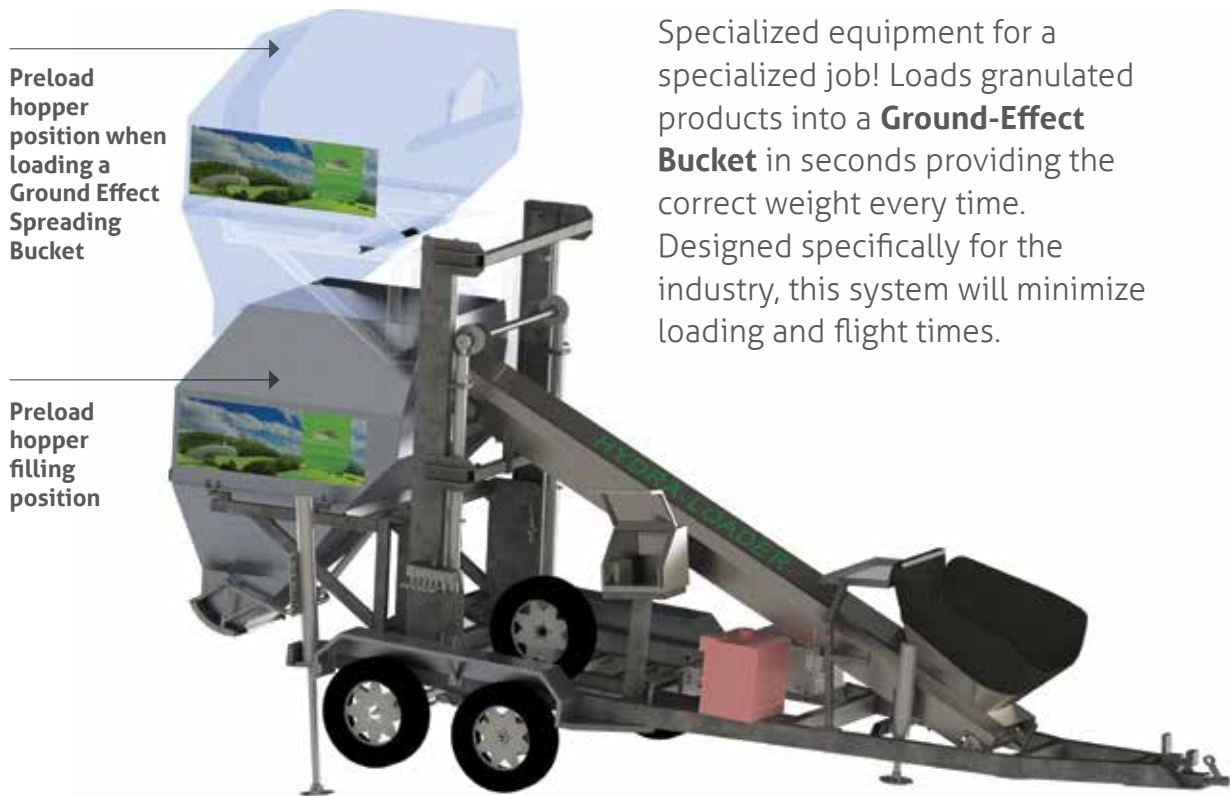


Ground-Effect Hydra-Loader

Looking for a fast and effective way to load your **Ground-Effect Spreading Bucket**? Try our **Hydra-Loader**.

The **Ground-Effect Hydra-Loader** incorporates a digital load cell system to ensure precise bucket loading saving you time and ensuring effortless accuracy and consistency with each job.

Designed with the operator in mind it incorporates features to eliminate product waste, optimize efficiency and have low maintenance requirements.



Ground Effect Fire Lighter

The **Ground Effect Fire Lighter** is manufactured from corrosion-resistant Stainless Steel to withstand the environment and chemicals it will be exposed to.

A 150mm (6inch) filler cap and manual product agitator have been incorporated into the user-friendly design, while a variable speed controller accessible during operation effects the flow rate of product, and the pump and igniter turn on/off simultaneously when switched at pilot controls.



Ground Effect Longlines

The **Ground Effect longlines** come in standard lengths of 50ft(15m), 100ft(30m), 150ft(45m), 200ft(60m), or length can be customised for purpose.

The **longline** is a low-stretch 12 strand Dyneema SK75 rope, with a smooth polyurethane impregnation for increased abrasion resistance. These ropes have high strength to weight ratio, for example an equivalent performing steel rope would be four times heavier and half the strength of Dyneema SK75 rope.

Protective sheaths are made from durable and waterproof PVC with UV protective stitching, and are made to incorporate the electrical cable and pneumatic/hydraulic hoses as required.



Ground Effect Swivels and Hooks

Manual and Remote Hooks

IMS proudly stock and distribute the Mechanical Specialties range of remote hooks which come complete with a full cage and wiring loom to match our swivels. IMS will offer assistance and ongoing product support for required airworthiness inspections and overhauls. There are many manual hook combinations which may be suitable for purpose, please get in contact to discuss further.

Multi-Hook Carousels

Multi-Hook Carousels are manufactured by IMS in 2-10 hook combinations, these multidrop delivery systems are versatile and reliable and make placement of multiple loads efficient and specific.

Swivels

IMS produce a range of high quality swivels suitable for any type of helicopter, with an emphasis on reliability and smoothness of operation. Electrical services are available on swivels and they can be configured to suit any loOnline/accessory configuration.



Ground Effect Cargo Nets and Lifting Stropps

IMS manufacture and stock a wide range of **lifting stropps and nets** for use with the remote or manual hooks and longlines, please get in contact so we can assist in equipment for your utility helicopter operation.





IMS

GROUP



**For all your helicopter equipment
needs, contact us today!**



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