

Signs & Safety













INTRODUCTION

www.hsd.ie

We are Ireland's largest CE Certified manufacturer of signs for the roads market, proudly manufacturing all our signs in our facility in Knocktopher, Co. Kilkenny. Our CE certificate of conformance reference is 1358-CPR-0144/2.

- CE certification since June 2013. We are externally certified to the European Standard I.S. EN 12899-1:2007 -
- Vertical Road Traffic Signs and Structures. The scope of this standard is for fixed signs used for the instruction and guidance of road users on public and private land.
- This certification allows us place the CE mark on all our manufactured signs and structures which is mandatory underthe Construction Products Regulation 305/2011/EU since the 1st of July 2013.

The system is audited by a notified body on an annual basis to ensure continued compliance. All of our signs are barcoded, to give full traceability of each component used in the manufacturing process.

We are certified ISO 9001:2015 which is an international standard in Quality Management Systems.

We are also certified OHSAS 18001:2007 which encompasses ensuring the health, safety and welfare of people in the workplace. We are committed to continually monitor, measure and improve our operational performance and management systems to promote the utmost standard in health, safety and welfare in the workplace.

SIGNAGE:

- · Road Signs [CE Certified]
- · LED & Solar Powered Signs
- Commercial Signs
- · Health & Safety Signs
- Tourism Signs, including Aluminium Raised Letter Signs
- Sign Accessories [CE Sign Poles, brackets]

LEISURE PRODUCTS:

- · Waymarker Posts, Walkways & Bridges
- · Furniture, Litter Bins and Planters
- · Water Safety
- Cycling
- · Stiles & Kissing Gates

ROAD SAFETY:

- Road Safety Barriers Permanent & Temporary
- Traffic and Pedestrian Control
- Traffic Management Vehicles and Trailers
- Bollards

SERVICES

- · Bespoke Manufacture
- Design
- Delivery
- Installation
- · Maintenance & Repair
- Refurbish
- Traffic Management
- **CNC** Routing

CONTACT US

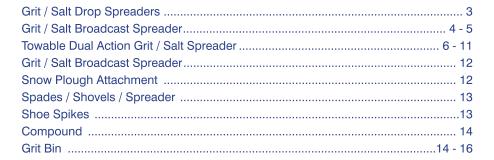
| Contact our dedicated sales team. | Highway Safety Developments Ltd., Knocktopher, Co. Kilkenny, R95 TW83. | Co. 7700064 | Empile sales@bsd ie. | Co. 7700064 | Empile sales@bsd. | Co. 7700064 | Empile sales@bsd ie. | Co. 7700064 | Empile sales@bsd. | Co. 7700064 | Co. 7700064 | Empile sales@bsd. | Co. 7700064 | Co. 7700064 | Empile sales@bsd. | Co. 7700064 | Co. 7700064

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Website: www.hsd.ie [including webshop]



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ROAD SIGNS

TOURISM & LEISURE PRODUCTS

SAFETY SIGNS & EQUIPMENT

TRAFFIC & PEDESTRIAN CONTROL

SAFETY BARRIERS

CORPORATE SIGNAGE

Other brochures available upon request or to download from our website

Cruiser™ Grit/Salt Drop Spreaders

A family of two grit/salt drop spreaders for accurate and controlled spreading to a pre-defined width. Cruiser Towable 80 can be towed by passenger cars, four wheel-driven tractors, vans or trucks, whilst Cruiser Manual 50 is ideal for use on footpaths and pavements, simply wheel forward to disperse.

Specifications

Design Features

- Can be used with dry, damp or wet grit/salt.
- · Continuous rippling action of the rubber plate within the hopper ensures the gritting material does not clog.
- · Rotating rubber paddles scoop material from the trough and dispense it
- · Range of spreading settings an adjusting handle allows accurate control of spreading.
- · No rotating parts inside the hopper.
- Cruiser Towable 80 is supplied as standard with a pin-hitch towbar.

Dimensions

CRUISER TOWABLE 80	CRUISER MANUAL 50
1555mm long	1115mm long
(1725mm fully extended)	x 790mm wide
x 1270mm wide (with mudguards) x 900mm high	x 955mm high
800mm	560mm
400mm adjustable to 640mm	•
160 litres	53 litres
275kg of wet brown rock salt (holds approx. 11 x 25kg bags)	90kg of wet brown rock salt
85kg	48kg
360kg	
720kg	
2,720m2 @ 100gms/m2	900m ² @ 100gms/m ²
	1555mm long (1725mm fully extended) x 1270mm wide (with mudguards) x 900mm high 800mm 400mm adjustable to 640mm 160 litres 275kg of wet brown rock salt (holds approx. 11 x 25kg bags) 85kg 360kg 720kg

Towing options

Maximum spreading width:

Approx. spreading distance: Maximum towing speed:

Cruiser 80 can be towed by two and four wheeldriven tractors, vans and trucks. It can also be towed by passenger cars with the ball hitch option (please refer to the towing vehicle's manufacturer's handbook under towing/trailer recommendations). Not Suitable for use on Public Highways.

800mm

3.4km

20mph

Optional Extras

CRUISER 80 ONLY

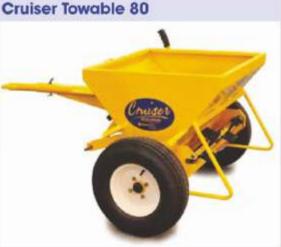
- · Number plate mountings.
- · Rear lights.

500mm

1.8km

- · Reflectors.
- Mudguards.
- · Ball hitch.





Approximate Spreading Rates

DRY ROCK Rate SALT gms/m²	Distance		Area	
	gms/m ²	km	miles	m ²
Cruiser	100	2.6	1.6	2,110
Towable 80	450	0.6	0.4	470
Cruiser	100	1.4	0.8	700
Manual 50	450	0.3	0.2	155

WET ROCK	Rate	Distance		Area
SALT	SALT gms/m ²	km.	miles	m ²
Cruiser	100	3.4	2.1	2,720
Towable 80	450	0.7	0.5	604
Cruiser	100	1.8	1,1	900
Manual 50	450	0.4	0.25	200

Cruiser Manual 50 and Towable 80 carry the CE mark which shows compliance with Machinery Directive (2006/42/EC) which is the European Safety Directive relating to these products.

Turbocast 300™ Grit/Salt Broadcast Spreader

A manual broadcast gritter that spreads dry or wet grit/salt mixture to a width of between 3 and 7 metres with minimum effort. A large area can be covered quickly with minimum passes making it ideal for car parks, approach roads and depots.

Specifications

Design Features

- Chassis manufactured from mild steel with Armortec^{®+} coating.
- 52 litre Durapol^{®*} material hopper.
- · Plastic guards protect all working mechanisms.
- Slim design can fit through a standard 760mm door.
- · Easy to empty.
- Range of spreading settings.
- Solid rubber cushioned tyres.
- · Polypropylene spinning plate protected by a steel frame.
- Agitation mechanism designed to efficiently spread either wet or dry rock salt.

Dimensions

Size: 1235mm long x 670mm wide x 950mm high

Load height: 690mm

Capacity: 52 litres (holds approx. 2.5 x 25kg bags of rock salt)

Maximum payload: 66kg of wet brown rock salt

Unladen weight: 43kg

Maximum spreading width: approx. 7.3 metres (based on using 74kg of damp brown

rock salt @ fast walking pace)



Easy to empty

Front rest allows the unit to be emptied wheelbarrow fashion.



Polypropylene spinning plate

Protected by a steel frame.



All working mechanisms are protected



"Armortec" consion resistant coating is specially formulated to extend the life of Glasdon metal products and components used externally.
"Durapol" material is a polymer formulated to withstand extremes of temperature and is impact tested in our Quality Assurance Laboratory as part of our BS EN ISO 9001:2008 test procedure.

Durapol" material will not chip or rust, is easy to dean and never needs painting.





Range of settings





Slim design

Solid rubber cushioned tyres

Optional Extra

Cover

To provide protection when storing outside.
(Note: Grit/salt should never be left in the Turbocast 300 after use.)



Approximate Spreading Rates

	Damp Brown Rock Salt	Damp White Rock Salt
Slow Walking Pace	3m	3.5m
Medium Walking Pace	5.5m	5.5m
Fast Walking Pace	7.3m	6.5m

Typical Coverage Guide Per Full Hopper

	Rate gms/m²	Area m²
Damp Brown Rock Salt	48	1,375
Damp White Rock Salt	44	1,432

Turbocast 300 carries the **(€** mark which shows compliance with Machinery Directive (2006/42/EC) which is the European Safety Directive relating to these products.

Turbocast 800™ Towable Dual Action Grit/Salt Spreader

A grit/salt spreader with a 200 litre capacity that can be used as a broadcast or drop spreader. Ideal for use by local authorities to grit city/town centres, small to medium sized industrial sites and private roads.

Specifications

Design Features

- Durapol^{®*} material hopper will not rust, chip or corrode.
- · Low maintenance stainless steel chassis, drive mechanism & broadcast spinner plate.
- · Consistently distributed 8 metre spread width.
- · Unique agitation mechanism spreads wet or dry grit/salt.
- Durapol side deflectors create drop-spreading action for accurate high dosage treatments
- Spread adjustment mechanism for complete control of spread output from 5 60gms/m² for broadcast spreading. Can be set far higher for drop spreading (up to 480gms/m²).
- · Adjustable speed control allows for uniform spread output range from 5 20mph,
- DN/OFF switch for drive engagement/disengagement to minimise wastage when travelling between sites.
- · Adjustable height tow bar with pin hitch or ball hitch coupling.
- Encapsulated drive mechanism for low maintenance operation.

Dimensions

Side deflectors not in use: 1935mm Side deflectors in use: 2040mm

Size: 2000mm long x 1210mm

wide x 1050mm high

Capacity: 200 litres (approx. 10 x

25kg bags)

Towbar height: 290 - 690mm

Maximum payload: 250kg*
Unladen weight: 170kg
Maximum laden weight: 420kg
Maximum spreading width: 8 metres
Maximum towing speed: 20mph

"The weight of grit/salt is highly dependent on type and moisture content."



Approximate Spreading Rates

Rate	Distance		Area
gms/m²	km miles	m²	
5	6.23	3,87	49,998
15	2.08	1.29	16,666
30	1.04	0.65	8,333
60	0.52	0.32	4,166

An OFF setting allows the unit to be towed without dispersing grit when required.

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Durapol® material will not chip or rust, is easy to dean and never needs painting.

Broadcast Spreads

An 8 metre spread can be covered at towing speeds from 5 – 20mph, to suit towing vehicle and application.



Drop Spreads

For accurate, controlled spreading, eliminating any waste grit/salt.







Durapol** material hopper



Rubber agitation mat



Agitation mechanism



Broadcast spinner plate



Twin side deflectors



Mudguards



Towing bar and security cable



Jockey wheel assembly



Spread adjustment handwheel

"Durapol" material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our 85 EN ISO 9001-2008 test procedure.

Durapol" material will not chip or rust, is easy to clean and never needs painting.

Turbocast 1000[™] Towable Dual Action Grit/Salt Spreader

A grit/salt spreader with a large $\frac{1}{2}$ tonne capacity and the unique ability to be used as a broadcast or drop spreader. Ideal for use by local authorities, large industrial sites, hospitals, universities and private roads.

Specifications

Design Features

- Durapoi^{®*} material hopper.
- Rubber agitation mat breaks up the grit/salt and feeds it to the hopper funnels
- Agitation mechanism provides a quiet and smooth operation.
- Dual spinner plates distribute the grit/salt evenly and consistently.
- Twin side deflectors create drop-spreading action by limiting the width of spread, can be used independently.
- Spread adjustment and shut off lever allows control of the spread rate.
- Spreads both wet and dry grit/salt. (The spread width and consistency will vary dependent on the moisture content of the grit/salt.)
- Mechanism cover all working mechanisms are encapsulated inside a protective cover.
- · Dump flap apertures.
- · Maintenance hatch.
- Mud guards.
- · 'A' frame & security cable.
- Reversing bars to protect the unit from accidental damage when reversing.
- Light cluster comprising a rear brake, number plate, indicator and rear fog lights.
- · Reflectors
- 20mph sticker.

Dimensions

Side deflectors not in use: 2676mm long x 1637mm wide Side deflectors in use: 2966mm long x 1590mm wide

Load height: 1151mm
Towbar height: 462mm
Capacity: 430 litres

Maximum payload: 500kg (holds approx. 20 x 25kg

bags of rock salt)

Unladen weight: 250kg Maximum laden weight: 750kg

Maximum spreading width: approx. 10 metres

Maximum towing speed: 20mph



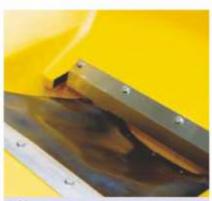


"Durapol® material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our BS EN ISO 9001:2008 test procedure.

Durapol® material will not chip or rust, is easy to dean and riever needs painting.



Durapol** material hopper



Rubber agitation mat



Agitation mechanism



Dual spinner plates



Twin side deflectors



Spread adjustment and shut off lever



Mechanism cover



Dump flap apertures



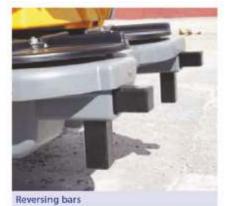
Maintenance hatch



Integrally moulded mudguards



A-Frame & security cable



"Durapol* material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our 85 EN ISO 9001-2008 test procedure. Durapol* material will not drip or rust, is easy to clean and never needs painting.

Turbocast 1000[™] Towable Dual Action Grit/Salt Spreader

Broadcast Spreads

A large area can be covered quickly with minimum passes, for an even and consistent spread.



Drop Spreads

For accurate, controlled spreading, eliminating any waste grit/salt.



Turbocast 1000 converts from a broadcast spreader into a drop spreader with the use of unique twin side deflectors.



Release the catch with a gloved hand.



Lower the first side deflector into position



Repeat the procedure for the second side deflector to complete the conversion.

Approximate Spreading Rates*

Broadcast Spread	Rate	Dist	ance	Area
	gms/m²	km miles	miles	m²
Setting 1	15	3.3	2	33,333
Setting 2	35	1.5	1	14,285
Setting 3	55	1	0.6	9,090

^{*}Based on dry white rock salt.

Rate of Spread

3 spread rate settings have been selected to follow recommended guidelines set by Highways England.

- 1. Precautionary (prior to ground frost, snow and ice).
- 2. Intermediate (following ground frost).
- Priority (following ice and snow).

An OFF setting allows the unit to be towed without dispersing grit when required.

Not Suitable for use on Public Highways.





Towing: Turbocast 1000 is Not Suitable for use on Public Highways

Icemaster 50[™] Grit/Salt Broadcast Spreader

Icemaster 50 Gritter is ideal for spreading dry, granular material onto frozen surfaces and roads. Ideal for smaller locations where larger machines cannot effectively operate.



Specifications

Design Features

- Durapol^{®*} material 50 litre hopper.
- Rotary agitator breaks up the grit/salt for a consistent spread.
- Range of spreading settings an adjusting handle allows accurate control of spreading.
- · Rear stand.
- Pneumatic tyres.

Dimensions

Capacity: 50 litres Width: 655mm Unladen weight: 16kg

Weight capacity: 55kg (holds approx. 4 x tubs of

Glasdon Icemelt)

Icemaster 25[™] Grit/Salt Broadcast Spreader

A handy and lightweight broadcast spreader for use with dry material. Ideal for smaller locations where only a small area needs to be treated.



Specifications

Design Features

- Durapol 25 litre hopper.
- Rotary agitator breaks up the grit/salt for a consistent spread.
- Range of spreading settings an adjusting handle allows accurate control of spreading.
- Rear stand.
- Pneumatic tyres.

Dimensions

 Capacity:
 25 litres

 Width:
 530mm

 Unladen weight:
 9.75kg

Weight capacity: 25kg (holds approx. 2 x tubs of

Glasdon Icemelt).

Griffing Machine Spares

Glasdon offer a complete after-sales service. Spare parts are available for all Glasdon gritting machines. Please telephone our sales office on 01253 600410 for further information and to discuss your requirements.

Snowdozer[™] Snow Plough Attachment

Snowdozer is a unique, easy to fit attachment, simply slide over the forklift truck forks and tighten fixings by hand to secure.



Specifications

Design Features

- Reversible 1750mm wide Durapol material blade.
- 25° angled blade pushes snow to the side of the road.
- · Twist locks easily operated with gloves on.
- Universal fork moulding fits all standard forklifts.
- Steel frame with Armortec⁸⁺ coating.
- Internal steel bump stops indicate when fully engaged.

Dimensions

FRAME

BLADE
Width: 1750mm
Internal diameter: 630mm
Blade thickness: 15mm
Angle of sweep: 25 degrees

25 degrees to Whe left De

Width of blade support: 1220mm Height of blade support: 50mm Length of Legs Right leg: 700mm Left leg: 1000mm

Left leg: 1000mm Width of legs: 150mm Depth of Legs

Right leg: 650mm Left leg: 900mm

"Armortec" corrosion resistant coating is specially formulated to extend the life of Glasdon metal products and components used externally.

"Durapol" material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our BS EN ISO 9001 2008 test procedure.

Durapol" material will not chip or rust, is easy to dean and never needs painting.

Snowshovel[™] spade



Snow covered steps and door entrances can be deared quickly and easily. Simple to use, Snowshovel has been purpose-designed with a broad-angled blade. Mild steel shovel with Armortec®+ coating and a wooden handle.

Snowscoop™ Shovel



Lightweight and easy to push, Snowscoop quickly dears snowdrifts from entrance areas, footpaths and car parks. Wheels are recessed into the 600mm wide steel blade to prevent jamming during snow clearance. Supplied in three snap-together sections. Mild steel construction with Armortec coating.

Digga[™] Shovel

Made from robust polypropylene with a steel pinreinforced shaft, Digga unscrews into two sections.



Glasdon Snospade™ shovel



Snospade has an extending aluminium handle, which can be quickly adjusted using the twist grip lock. The shovel head is manufactured from robust Durapol®* material. Compact size makes it ideal for storage in grit bins or car boots.



Dispensa[™] Spreader



A hand held spreader for use with Glasdon grit/salt storage containers (see pages 12-14).

Glasdon Ice Grips™ Shoe Spikes



Glasdon Ice Grips are dual traction so they can be used on snow and ice. Suitable for temperatures down to ~40°C.

	Medium	Large	X-Large
UK Men's	3-6	6-10	10-13
UK Women's	3-6	6-10	10-13
Euro Men's	35-39	39-46	46-48
Euro Women's	35-39	39-46	46-48
US Men's	4-7	7-12	12-14
US Women's	5-8	8-13	13-15

Amortec concision resistant coating is specially formulated to extend the life of Glasdon metal products and components used externally.

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Durapol* material will not chip or rust, is easy to clean and never needs painting.

Icemelt™ Compound

Icemelt is a unique ice-penetrating formula, which works faster, spreads further and is more effective than conventional rock salt.

Specifications

Design Features

- One 12.5 litre tub will cover 250m³
- · Ice-penetrating action ensures surfaces remain safe to walk on even if refreezing occurs.
- Dispenser supplied.
- Fully bio-degradable.
- 12.5 litre tubs or 25kg bags available. (Icemelt must be kept dry.)



Nestor™ 400 Grit Bin

A large 400 litre capacity grit/salt storage container manufactured in tough Durapol** material.

Specifications

Design Features

- Double skinned lid for supreme strength and weather protection.
- Knuckle hinged lid fully opens exerting little stress on the hinge.
- Angled lid and drainage channels to reduce moisture ingress.
- Large aperture and low front lip for easy access.
- · Choice of 2 lids Plain or moulded-in GRIT-SALT legend.
- Base recesses to allow lifting by a forklift truck.
- Concave base with stability features.
- · Can be stacked for storage up to 3 bins high.

Optional Extras DIN lock Hasp and staple Personalisation · Concrete fixing kit

Dimensions

Capacity: 400 litres Length: 1150mm Height: 950mm Width: 725mm

Weight capacity: 540kg loose grit/salt (or approx. 21 x 25kg bags of rock salt) Colours: Yellow, Deep Green. Other colours are available - please

contact our Sales Office for details.

"Durapol" material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our BS EN ISO 9001:2008 test procedure Durapol® material will not chip or rust, is easy to clean and never needs painting







Nestor™ 90 Grit Bin



A 90 litre grit/salt bin, a smaller version of the Nestor 400, but with all the same design features and optional extras. Ideal for smaller sites, or where a number of smaller bins can be sited across a large site.



Specifications

Dimensions

 Capacity:
 90 litres

 Length:
 630mm

 Height:
 624mm

 Width:
 536mm

Weight capacity: 125kg loose grit/salt (or approx.

4 x 25kg bags of rock salt)

Colours: Yellow, Red, Deep Green.

Other colours are available – please contact our Sales

Office for details.





A spherical grit bin which provides exceptional benefits to the user and unbeatable strength.



Specifications

Design Features

- Manufactured from Durapol^{®*} material.
- Large 800 I tre capacity.
- Integral knuckle and rod hinge with plastic coated neinforcing rod.
- · Spherical design ensures no weak corners.
- · Moulded-in drainage channels on the lid
- · Angled to maximises storage space.
- Lower leading edge for improved access.
- · Front recesses for lid opening
- · Forklift slots with hand holds.

Optional Extras

- · Hasp and staple
- Personalisation









Dimensions

Capacity: 800 litres Height: 1075mm Diameter: 1280mm

Weight capacity: 1000kg lonse grit/salt (or approx.

40 x 25kg bags of rock salt)

Area of coverage: 20,000m² @ 50gms/m² Colours: Ye low, Deep Green.

"Curapple" material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Guality Assurance Laboratory as part of our BS EN ISO 9001:2008 test procedure.

Durapple material will not disport ust, is easy to dean and rever needs pointing.

Slimline™ Grit Bin

The compact shape of Slimline grit/salt bin makes it ideal for siting where space is limited, e.g. pavements, small car parks, reception entrances and shop forecourts.

Specifications

Design Features

- Manufactured from Durapol^{®*} material.
- · Fully rotating lid.
- · Moulded-in drainage features
- · Integral fork lift slots
- · Large, easy access aperture.
- . Light weight (when empty) for easy siting by one person.
- . Choice of 2 lids Plain or moulded-in GRIT-SALT legend:

Optional Extras

- · Hasp and staple
- Personalisation
- · Drainage holes





Dimensions

 Capacity
 160 litres

 Length:
 838mm

 Height
 750mm

 Width:
 515mm

Weight capacity: 208kg loose grit/salt (or approx. 8 x 25kg bags

of rock salt)

Area of coverage: 4,160m³ @ 50gm's/m² Colours: Yellow, Beige, Deep Green, Red.







Rollastor™ Portable Grit Bin

Rollastor can easily be wheeled from one central point to assist with the manual gritting of larger areas.

Specifications

Design Features

- · Manufactured from tough, high-density polyethylene.
- · Front hopper feed aperture for easy removal of contents.
- Supplied with a Digga * Shovel

Dimensions

 Capacity:
 110 litres

 Length:
 480mm

 Height:
 945mm

 Width:
 550mm

Weight capacity: 132kg (holds approx.

5 x 25kg bags of rock salt)

Area of coverage: 2,900m² Colour: Derk Grey



"Disapol" material is a polymer formulated to withstand extenses of temperature and is impact sessed in our Quarty Assurance Euboratory as part of our 35 EN 50 9001-2008 test procedure.

Disapol" material will not due or man, is easy to down and recent painting.

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