



Cruiser Turbocast Towable 1000

The new Cruiser Turbocast 1000 Broadcast Gritting Machine has been designed to take all of the best features from the Cruiser and Icemaster ranges to produce a new high performance machine.

Product Features.

Durapol Hopper

- **Durable** – The double skinned moulding produces an extremely strong and robust component
- **Safety** – The bright traffic yellow colour is highly visible to other road users.
- **Impact Resistant** – The material is ideal for use in cold weather, as it is unlikely to crack when impacted in freezing conditions.
- **Corrosion Resistant** – the material does not chip or corrode therefore no painting or surface treatment is required.
- **Ease of Maintenance** – The material is self-coloured throughout therefore scratches are not easily visible.
- **Environmentally Friendly** – The hopper can be 100% recycled after its usable life.
- **Efficient Operation** – Large tapered hopper encourages the grit/salt to fall into the agitation mat. Efficiently breaking up and dispensing the grit/salt.
- **Efficient to Use** – The 500kg capacity allows a large area to be gritted saving time and effort when refilling.

Mud Guards

- **Safety** – Integrally moulded mud guards stops grit, dirt and water being sprayed up when the machine is being towed. The mud guards conform to road vehicle regulations allowing the vehicle to be used on public roads.
- **Durable** – The mud guards are integrally moulded into the hopper which helps minimise damage.

Light Cluster

- **Safety** – Fitted as standard are rear brakes lights, indicator lights, number plate light, rear fog light and triangular reflectors. These make the machine highly visible in adverse weather conditions and at night. Also a smooth area is positioned on the hopper for the registration plate of the towing vehicle to be attached. The registration plate will be illuminated by the surrounding.
- **Durable** – The lights are recessed into the hopper moulding protecting them from damage.

Side Amber Reflectors and 20MPH Sticker

- **Safety** – The machine is highly visible in adverse weather conditions and at night time. The users and pedestrians are made aware of the maximum towing speed of the machine.
- **Durable** – The reflectors are recessed into the hopper moulding protecting them from damage.

Front Reflectors

- **Safety** – Two white reflectors makes the machine highly visible in adverse weather conditions and at night time.
- **Durable** – The reflectors are recessed into the hopper moulding protecting them from damage.

Chassis

- **Robust** – The Chassis is fabricated from 6mm thick mild steel therefore is very strong and robust.
- **Corrosion Resistant** – All Mild steel components are Armotec Coated and all fixings, chains, sprockets and gears are produced from stainless steel.
- **Easy to manoeuvre** – The chassis and the machine mechanism have been designed to ensure the replacement of parts can be carried out with ease.

'A' Frame

- **Easy to Transport** – For ease of storage and transit the 'A' frame is detachable. The detachable A frame allows the machine to be stored with ease and also aids transportation to the customer.
- **Robust** – The shape of the 'A' frame provides an extremely strong and robust linkage to the towing vehicle.

- **Easy to Use** – A standard ball hitch is utilised to easily attach and detach the machine to a towing vehicle, which is equipped with a ball hitch toe ball.
- **Easy to Manoeuvre** – The jockey wheel allows the machine to be easily manoeuvred when not attached to a towing vehicle.

Stainless Steel Security Cable

- **Safety** – Hooked over the ball hitch toe bar the cable is a precautionary safety feature, which keeps the gritter, attached to the towing vehicle if the ball hitch accidentally releases.

Agitation Mechanism

- **Robust** – The agitation shaft is made up of a series of staggered cams, which engage with the gritter attached to the towing vehicle if the ball hitch accidentally releases.
- **Simple Operation** – The Cam shaft is powered by the right hand wheel of the gritter (drive wheel). No additional power supply or motor is required therefore easy to maintain.
- **Quiet Operation** – The unique cam shaft is in the constant contact with the bearings on the agitation fingers which provides a smooth and quiet performance when in operation.

Agitation Mechanism

- **Efficient Operation** – The stainless steel agitation fingers are triggered by the cam shaft to break up wet and dry grit/salt effectively.
- **Corrosion Resistant** – The agitation fingers are made from stainless steel for a long life and ease of maintenance.
- **Robust** – The agitation fingers incorporate a 'U' shaped section, which provides increased strength and robustness preventing the fingers bending.

Rubber Agitation Mat

- **Efficient Operation** – The 3mm thick agitation mat is attached to the agitation fingers and creates an oscillating rippling effect to the base of the hopper. This action not only breaks up the grit/salt but also feeds the spinner plates (via the funnel moulding) with the material to be spread.

Hopper Funnels

- **Efficient Operation** – The funnel moulding incorporates two V shape funnels, which dispense and accurately distribute grit/salt to the spinner plates. This allows an even and consistent broadcast spread of grit/salt.

Dual Spinner Plates

- **Efficient Operation** – The machine incorporates two spinner plates, which rotate in opposite directions to distribute the grit/salt evenly and consistently. As a broadcast spreader the machines twin spinner plates achieve a massive 10m-spread width when towed at 20mph.
- **Safety** – The spinner plates anti release nuts have left hand and right hand threaded fixings to ensure they are always firmly secure during operation.
- **Impact Resistant** – The vacuum-formed Durapol spinner plates are extremely robust and strong.
- **Ease of Maintenance** – The spinner plates are self-coloured throughout therefore scratches are not easily visible.

Spinner Plate Bevel Gears

- **Robust** – The strong bevel gears transfer power directly from the drive wheel to the spinner plates with the use of stainless steel sprockets and chains.
- **Corrosion Resistant** – The sprockets gears and chains are made from stainless steel for long life and ease of maintenance.

Drive Shaft, Agitation Shaft and Spinner Plate Shaft.

- **Efficient and Smooth Operation** – All shafts are all mounted onto the chassis with the use of radial bearings which enable all shafts to rotate smoothly and efficiently without wear.

Mechanism Cover

- **Protection** – All the working mechanisms of the gritter including the chain, sprockets and gears are encapsulated in a protective cover. This shields the working parts from girt/salt and debris, increasing the longevity and efficiency of the machine.
- **Corrosion** – The protective cover helps protect the working components from corrosion therefore extending its usable life and reduces the frequency of greasing.
- **Ease of Maintenance** – Due to the nature of the product the protective cover can be easily removed so the customer can easily carry out a regular maintenance regime.
- **Robust** – A Strong Durapol component offers corrosion resistance, impact resistance and ease of maintenance.

Maintenance Hatch

- **Easy to Use** – Once the spread adjustments handle has been removed the hopper can be pivoted forward so access can be gained to the drive components and mechanism.
- **Ease of Maintenance** – All Components within the machines mechanics are easily accessible for maintenance, repairs or replacements if required.
- **Safety** – A stay bar is attached to the chassis and locates into the hopper to keep the hopper in an upright position.
- **Corrosion Resistant** – The stay bar is manufactured from stainless steel for corrosion resistance and longevity.

Spread Adjustment Handle

- **Flexibility** – The spread adjustment handle allows the spread rate to be controlled and fixed at the desired setting. The machine has been factory calibrated at three settings, precautionary spread, intermediate spread and priority spread.
- **Efficient Use** – Easily controlled dosing to ensure grit/salt is not wasted and the machine operates efficiently and economically. The agitation mechanism can be disengaged when commuting between sites therefore reducing waste and unnecessary gritting.
- **Corrosion Resistant** – The spread adjustment mechanism is manufactured from stainless steel for corrosion resistance and longevity.

Dump Flap Apertures

- **Easy to Maintain** – The apertures are moulded into the protective cover and allow excess grit/salt that is left in the hopper to be released onto the floor. This allows the gritter to be easily cleaned and maintained. The grit is directed towards the apertures by the dump flap shoot, which are connected to the hopper.

Seven Pin Plug Socket

- **Safety** – A standard 7-pin plug socket is utilised to easily attach to the towing vehicle to provide power to the gritter. The plug conforms to road vehicle regulations allowing the gritter to be used on public roads.

Auxiliary Plug Socket

- **Safety** – An auxiliary plug socket is supplied as standard to be used with a lamp (optional extra) or can be used for a range of alternative electrical equipment.

Wheels and Tyres

- **Easy to Replace** – The standard size 14" wheel can accept a variety of tyres and is easily available from many tyre suppliers.

Twin Side Shields

- **Easy to Use** – The side shields are easily activated to turn the gritter from a broadcast spreader to a drop spreader by limiting the width of spread when both shields are activated. The large clasp can be easily released with a gloved hand for speed of operation.
- **Versatile** – The side of shields can be used independently to prevent spreading from one side of the machine (for example to protect flower beds and gardens)
- **Protection** – The side of shields are integrated with the hopper moulding and so are fully protected when not in use.
- **Safety** – Securely holds the side shields in place when not in use.
- **Efficient Use** – The side shield arms are place when not in use.

Optional Extras

Operators Box

- **Security** – The key locked operators box located at the front of the machine above the "A" frame provides an area for the user to store equipment and essential tools. The operator's box is locked using an 8mm-din lock keeping the contents safe and secure.
- **Corrosion Resistant** – The operator's box is made from stainless steel to prevent corrosion for long life and ease of maintenance.

Maintenance Lamp

- **Safety** - The lamp is an optional extra that plugs into the adapter inside the operator's box. This will give the user a powerful source of light to help with repairs and refilling.

Amber Flashing Light

- **Safety** - Highly visible amber flashing light warns pedestrians and road users of the machine for safe gritting on private and public roads. The light is located at the rear of the hopper in a prominent position for high visibility when viewed from all angles.

Digga

- **Efficient Use** - Allows user to easily fill hopper and dispense small amount of grit/salt in hard to grit places i.e. stairs etc...
- **Efficient Use** – Can be used to refill the hopper.

Pin Hitch

- **Efficient Use** – Allows the customer an alternative fixing method for their towing vehicle.

Filling Grille

- **Efficient Use** – Allows user to easily dispense bags of grit/salt into the hopper.
- **Safety** – User can rest heavy bags of grit/salt onto the grille to fill the hopper.