



STAR SCREENING BUCKETS

The Rotastar™ is a unique, high-output screening bucket that combines many market-leading features.

Material is constantly rotated, without any chopping or pinching, making screening of damp, fragile and special materials possible. Suitable for top soil, waste, turf, roots, gypsum, knotweed and many other applications. With adjustments, it is possible to produce an 8mm fraction size.

The Lloyd **Rotastar™** bucket has a unique screening action. It rotates the material in a similar manner to a trommel screen, but has the benefit of rotating star discs, agitating and clawing at the material as it turns. This is achieved by mounting star shafts on a large arc, forming the back and top of the bucket.



The impressive performance of the Rotastar™ comes from:

- Lightweight, hard-wearing, flexible, self-cleaning polyurethane stars. This means no pinch or crushing areas, resulting in low power requirement and no contamination from crushed material. The flexible stars are gentle on fragile material such as roots, vegetation and turf.
- Variable speed control is fitted as standard up to the **RS10-20**, so it is possible to adjust fragment size by changing shaft speed. Most importantly, this allows the operator to set the shaft speed to suit conditions and excavator.
- With different star, collar, and spacer options, it is possible to tailor the screening bucket to create a particular fraction size to suit requirements. We can create an 8mm fine material with the correct set up.
- Massive screening area, due to the light weight of the star segments, which results in high output and excellent cost effectiveness.
- The rotary action of the bucket allows complete mixing of material as it is being screened, ensuring complete separation. The bucket is screening throughout its cycle, with no time wasted in stopping and reversing the shafts.



Rotastar



- Replaceable side panels working against replaceable shaft end discs. The area where the rotating star meets the fixed side panel has a unique design where we fit steel end discs. This ensures even star wear across the shaft length and closes the gap between star and side panel, so a genuine fraction size can be maintained.
- Quiet running.
- Rugged construction, using the best materials for long life and reliability. It has a well-protected and easily removable transmission guard and a simple, reliable, chain drive. The shafts are completely covered by the star elements, eliminating shaft wear and eventual replacement.
- Easy maintenance. The side profile design allows for easy shaft removal. The polyurethane stars are an inexpensive, easily replaceable part that reduces down time.
- The shafts operate in one direction only and require a standard one-way hammer circuit. This also eliminates the need for a drain line.
- There is a skid steer and micro-loader option for the **RS4-9** screening bucket. This is an adaptor plate that fits to the skid steer. There are quick hitch hooks that fit to the **RS4-9** so that the bucket can be used on a normal excavator with a conventional top bracket. The change-over takes approximately 3 minutes.
- We can manufacture adaptor plates to suit all sizes of loader.

ROTASTAR

High output screening attachments for TOPSOIL, COMPOST & WASTE

We design and manufacture a range of star screening attachments for 3 to 25 tonne carriers

Unique rotary material flow, no pinching or crushing, low power requirement and no contamination from crushed material

Flexible self cleaning star elements, no chopping, exceptional for screening fragile materials like turf roots and compost



Massive screening area, with replaceable inner panels for machine longevity and shaft end discs for low running costs

Greaseable self-aligning bearings for reliability

Narrow side structure



Speed control as standard, up to R5W, for optimum output and variable fraction size



Heavy duty chain drive for reliability and durability



Easily removable guard for maintenance and inspection



ROTASTAR SCREENING BUCKETS

Screening Applications



- Compost
- Top Soil
- Sand
- Stone
- Fertiliser
- Gypsum
- Mixed waste
- Gully waste
- Street waste
- Fine screening
- Cable padding
- Knotweed

Technical Specification

	RS2-4	RS3-5	RS4-6	RS4-9	RS8-14	RS10-20	RS13-20	RS16-25
Carrier weight	2.2–3.5 tonnes	3–5 tonnes	4–6 tonnes	4–9 tonnes	8–14 tonnes	10–20 tonnes	13–20 tonnes	16–25 tonnes
Output	Average 6–8 t/hr	Average 10 t/hr	Average 15 t/hr	Average 25 t/hr	Average 32 t/hr	Average 40 t/hr	Average 55 t/hr	Average 70–80/hr
Shafts	3	3	3	4	5	5	6	7
Stars	46	58	76	102	137	152	183	213
Bucket capacity	0.12m ³	0.15m ³	0.2m ³	0.3m ³	0.4m ³	0.65m ³	0.9m ³	1.2m ³
Hydraulic requirement	40 litres/min 70–180 bar	45 litres/min 70–180 bar	50 litres/min 70–180 bar	55 litres/min 70–180 bar	64 litres/min 70–180 bar	70 litres/min 70–180 bar	100 litres/min 70–180 bar	130 litres/min 70–180 bar
Bucket weight	250kg	280kg	340kg	460kg	615kg	1000–1060kg	1130–1250kg	1480–1600kg
Working width	640mm	825mm	1056mm	1056mm	1150mm	1260mm	1260mm	1260mm
Overall width	910mm	1070mm	1300mm	1300mm	1402mm	1560mm	1660mm	1660mm

Other sizes can be manufactured on request

- ✓ Affordable on-site screening
- ✓ Easy maintenance
- ✓ Low running cost
- ✓ Light weight

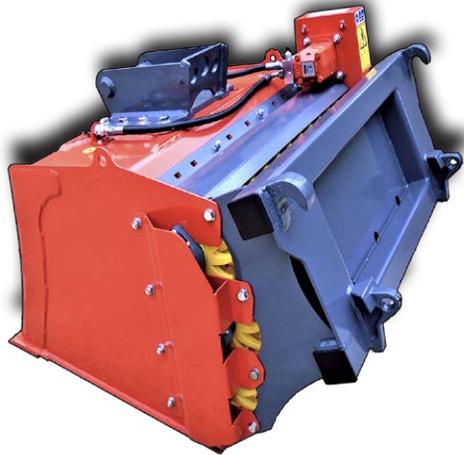
StarTer 



Following the success of the **Rotastar™** range, we have designed a no frills range for mini and midi excavators, skid steer and small loaders.

With the **StarTer** design, we have made affordable on site screening within the reach of any operator.

Loader bracket



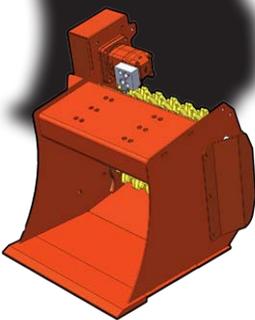
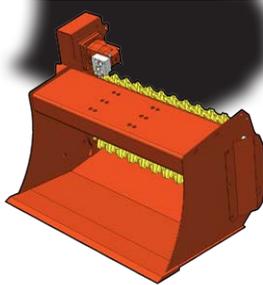
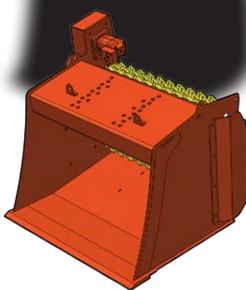
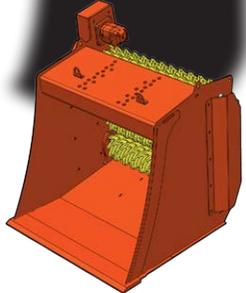
- Suitable for a range of carriers
- Lightweight, easy to handle and transport
- Affordable, fast return on investment
- Low running costs
- Quiet operation
- Easy maintenance
- Skid steer and micro-loader options
- Bagging attachments for all buckets
- All common hitch types
- Fraction size options of 20mm, 15mm and 10mm



Bagging attachment



Technical Specification

Model	ST1-2	760W x 800D x 730H	ST2-4	1120W x 800D x 730H	ST4-6	1120W x 1050D x 945H	ST6-8	1120W x 1100D x 1140H
Carrier weight	1.5/2.7 t		2-4 t		4-6 t		6-8 t	
Shafts	2		2		3		4	
Stars	27		47		71		94	
Bucket Capacity	0.08m ³		0.12m ³		0.28m ³		0.40m ³	
Hydraulic Reqt	32 l/min		38 l/min		41 l/min		48 l/min	
Bucket weight (Kg)	150		195		340		390	



STAR & ROTARY SCREENING BUCKETS

ROTARY We design and manufacture a range of rotary screening attachments for 6 to 25 tonne carriers

Ideal for TOPSOIL, WASTE, RECLAMATION, AND RECYCLING We offer a range of aperture sizes to suit different applications Simple rugged reliable design

Single hammer line, no drain line required

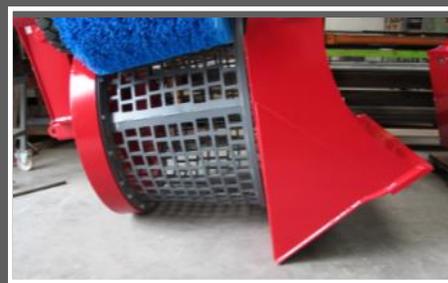
Bolt-on teeth

Foam filled tyres



Unique drum change system on larger buckets offering users the ability to produce varying sized materials throughout the working day with ease

Cleaning brush fitted as standard, improves output and performance



Large apron, set at an optimal angle, allowing control of material during screening

Unique conical drum design for high output and crowding clearance

Minimal dead area

TECHNICAL SPECIFICATION

	Carrier Weight	Output	Shafts	Stars	Bucket Capacity	Hydraulic Req'ment	Bucket Weight	Working Width	Overall Width
Rotary 0.3 Conical	6-12 tonnes	Dependant on drum aperture	N/A	N/A	0.3 m3	40 l/min 130 bar	460kg	900mm	960mm
Rotary 0.7 Conical QC	13-15 tonnes	Dependant on drum aperture	N/A	N/A	0.7 m3	70 l/min 130 bar	1225kg	1200mm	1300mm
Rotary 0.9 QC	18-25 tonnes	Dependant on drum aperture	N/A	N/A	0.9m3	100l/min 130 bar	2050kg	1200mm	1350mm

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A versatile Rotary screening bucket for demolition, top soil, waste, recycling and washing.



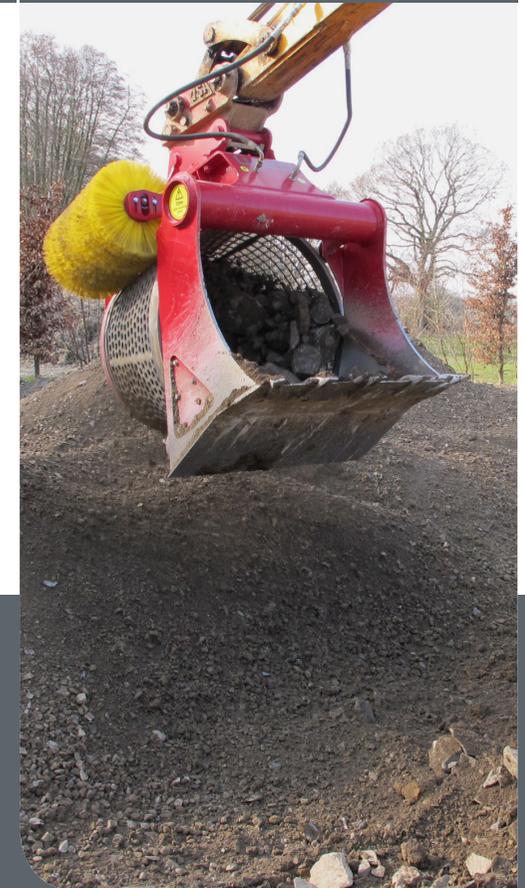
Rotary



Interchangeable drums, from 10mm to 100mm, with cleaning brush fitted as standard.

The unique conical drum working against the angled apron is a result of much development over the years, giving excellent agitation and efficiency. The drum design and quick change drum features are what makes the Lloyd Rotary screening bucket design stand out.

- The conical drum has an aggressive action, as material is lifted during rotation it is also thrown forwards. This helps to break down and strip the material. This results in a high output and cost-effective process.
- Drum options: we offer a range of aperture sizes from a 10x30mm screen to 100mm. Any size and shape aperture can be supplied
- The quick-change drum feature on the **RT13-20** and **RT18-25** allows drums to be changed within 5 minutes without manual handling. This enables the user to create more than one fraction size.



Technical Specification

	RT6-12	RT13-20	RT18-25
Carrier weight	6–12 tonnes	13–20 tonnes	18–25 tonnes
Output	Dependent on drum aperture		
Bucket capacity	0.3m ³	0.7m ³	0.9m ³
Hydraulic requirement	40 litres/min 130 bar	70 litres/min 130 bar	100 litres/min 130 bar
Bucket weight	460kg	1225kg	2050kg
Working width	900mm	1200mm	1240mm
Overall width	960mm	1300mm	1440mm

- The single-piece drum is a complete fabrication, there is little dead area maximising aperture area and of course output. Another benefit of small dead area is the reduced clogging.
- Rugged construction using the best materials for long life and reliability.
- Simple maintenance.
- Variable speed control mounted on the bucket enables the operator to set the optimum drum speed easily.
- It is possible to use the **RT13-20** and **RT18-25** for washing.



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