



Gyrus-Star
TRUE SCREENING®



**COMPACT SCREENING
SYSTEMS BROCHURE**

GYRU-STAR

TRUE SCREENING® SOLUTIONS



Gyru-Star Compact Screening Systems are the world leader in polyurethane star screening solutions. Equipped with our proprietary True Screening® technology, all our products are designed to screen without crushing or shredding, minimising waste and ensuring a high-quality product every time.

Since launching our first screening bucket in 2010, we have been a driving force behind innovation in the onsite screening industry. Our screening buckets set the standard for quality, durability, and performance, with True Screening® technology delivering unrivalled performance in all conditions.

Today, our screening buckets can be found all over the world, from the Arctic Circle to Australia. Each year, our global dealer network continues to grow and now covers every continent. Even as the Gyru-Star brand has grown, we have continued to manufacture every single product here in Great Britain.

TRUE SCREENING®

All Gyru-Star products feature our True Screening® technology, allowing them to screen without crushing or shredding. This innovative technology ensures a high-quality product every time, transforming liabilities into assets.

MADE IN BRITAIN

Gyru-Star Compact Screening Systems are designed and manufactured in Great Britain. This allows us to respond quickly to customer feedback, rapidly implement improvements, and maintain complete control over quality.

OPTIMISED FOR EFFICIENCY

With the industry's largest range of poly-star screening buckets, there is a model to suit any 1-30 tonne excavator, 1-15 tonne loader, or 1-9 tonne skid steer loader. Each model has been optimised for a specific carrier weight range to ensure maximum performance.

DRIVEN BY INNOVATION

Everything we do is driven by our culture of innovation, which guides every decision we make. We are constantly working to not only develop innovative new screening solutions but also enhance our existing product range.



E SERIES

Lightweight and compact, but without sacrificing performance, our E series buckets are designed for 1-5 tonne mini excavators.



HE SERIES

The HE series is our mid-tier range, offering outstanding performance in an affordable package. Designed for 4-20 tonne excavators and 2-8 tonne loaders.



HDX SERIES

Designed for 7-24 tonne excavators and 3-10 tonne loaders, HDX models are reinforced with additional HB400 wear-resistant steel.



L SERIES

The L series offers maximum screening performance for 1-9 tonne loaders, including compact loaders, telehandlers, tractors, and backhoe loaders.



SL SERIES

The SL series was designed from the ground up for 1-9 tonne skid steers and compact track loaders. Each model is fitted with cab entry steps and a skid steer interface.



MAX SERIES

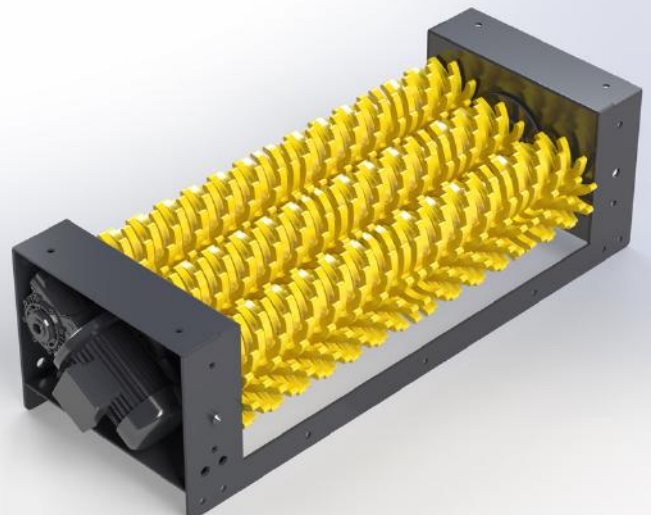
The MAX series was purpose-built to produce high-quality cable and pipeline padding, whilst streamlining backfilling operations.

GYRU-STAR POLY-DECK®

MODULAR SCREENING SOLUTION

The latest innovation in True Screening® – the Gyru-Star Poly-Deck is a modular screening system, consisting of stackable three-rotor units. Utilising the same flexible poly-stars as our screening buckets, the Poly-Deck can screen almost any material without crushing or shredding.

It also features the ultra-low maintenance carbon belt drives used across the Gyru-Star range.



TURN LIABILITIES INTO ASSETS

FAST. EFFICIENT. NON-DESTRUCTIVE.



KEEP YOUR COSTS UNDER CONTROL

Gyru-Star screening buckets offer a cost-effective solution for onsite recycling, allowing you to reduce material and waste disposal costs without the hefty investment and maintenance requirements of traditional screening equipment.



STREAMLINE YOUR OPERATIONS

Turn your existing excavator, loader, or skid steer into a powerful mobile screener and process material right where it's needed. Combine multiple processes, such as screening and loading, into a single operation to reduce labour and maximise efficiency.



REDUCED ENVIRONMENTAL IMPACT

Sustainability isn't just about recycling, it's about smarter operations. Gyru-Star screening buckets help you lower your environmental impact by reducing the number of machines required onsite, cutting fuel consumption and limiting unnecessary material transportation.

LANDSCAPING

Minimise waste and produce premium-quality topsoil while simultaneously blending and aerating materials for optimal results.

PIPELINE AND UTILITIES

Transform trench arisings into high-quality padding material whilst combining the screening and backfilling process for efficient operations.

AGRICULTURE

Streamline compost production by screening, mixing, and aerating in a single, efficient process, improving soil health and crop yields.

CONSTRUCTION AND CIVILS

Turn your liabilities into assets by recycling waste materials such as soil, aggregate, crusher run, and demolition waste onsite.

BIOMASS

Pre-screen biomass materials for automated systems. Remove oversize material and impurities without the risk of contamination.

INDUSTRIAL

Ideal for waste management and material handling applications, preserving product integrity for more efficient material recovery.



HOW IT WORKS

MULTI-LAYER MONOCOQUE SHELL

All Cyru-Star screening buckets feature a multi-layer monocoque shell with a stainless-steel non-stick floor. The shell is reinforced with HB400 wear-resistant steel in high-wear areas and powder-coated for long-lasting protection against corrosion.

CARBON BELT DRIVES

Our screening buckets and modular systems use ultra-low maintenance carbon belt drives in place of traditional chain drives. Not only are the belts self-tensioning, but they also require zero lubrication. Additionally, the belts operate more quietly than chain-driven systems, making them ideal for noise-sensitive sites.

TILTROTATOR COMPATIBILITY

Cyru-Star screening buckets are designed to handle the high back pressures and low flow rates created by tiltrotators. They are compatible with all tiltrotators.

FLEXIBLE POLYURETHANE STARS

Cyru-Star products use flexible polyurethane stars to screen without crushing or shredding. The stars are made from a proprietary polyurethane formula, developed specifically for our products.

Rather than crushing or shredding material, the stars flex under load. This not only prevents damage to the material but provides additional driveline protection.

E SERIES

1-5 TONNE EXCAVATORS



2-50E

- 1-2 t Excavators
- 2 Rotors
- 500mm Wide
- 0.06m³ Capacity
- 121kg



2-100E

- 1.7-2.7 t Excavators
- 2 Rotors
- 1000mm Wide
- 0.12m³ Capacity
- 240kg



3-60E

- 2-4 t Excavators
- 3 Rotors
- 600mm Wide
- 0.13m³ Capacity
- 240kg



3-80E

- 3-5 t Excavators
- 3 Rotors
- 800mm Wide
- 0.18m³ Capacity
- 260kg



The Gyrustar E series is the original compact screening system, offering unrivalled screening performance in a lightweight and compact package. Designed for mini excavators between 1-5 tonnes, the E series allows you to maximise the capabilities of even your smallest machines.

There are four width options from 500mm to 1000mm, with 2 and 3 rotor variants available. Despite their compact size, models in the E series still have all the same standard features as the rest of the Gyrustar range.





Model	Carriers	Flow Rate	Weight	Capacity	Screening Area
2-50E	1-2 Tonne Excavators	40 l/ min	121 kg	0.06 m ³	290 x 480 mm
2-100E	1.7-2.7 Tonne Excavators	40 l/ min	240 kg	0.12 m ³	300 x 1000 mm
3-60E	2-4 Tonne Excavators	55 l/ min	240 kg	0.13 m ³	430 x 560 mm
3-80E	3-5 Tonne Excavators	55 l/ min	260 kg	0.18 m ³	430 x 800 mm



FIND OUT MORE

Scan the QR code to find out more about the E Series.

HE SERIES

4-20 TONNE EXCAVATORS



3-100HE

- 4-6 t Excavators
- 3 Rotors
- 1000mm Width
- 0.23m³ Capacity
- 320kg



3-120HE

- 5-7 t Excavators
- 3 Rotors
- 1200mm Width
- 0.26m³ Capacity
- 437kg



4-100HE

- 7-10 t Excavators
- 4 Rotors
- 1000mm Width
- 0.35m³ Capacity
- 492kg



4-120HE

- 10-13 t Excavators
- 4 Rotors
- 1200mm Width
- 0.40m³ Capacity
- 552kg



5-120HE

- 14-20 t Excavators
- 5 Rotors
- 1200mm Width
- 0.60m³ Capacity
- 855kg



The Gyru-Star HE series is the gold standard for poly-star screening buckets. Featuring some of our most popular models, the HE series is designed for 4-20 tonne excavators and 2-8 tonne loaders.

HE models vary in width from 1000mm to 1200mm, with 3, 4 and 5 rotor options available. These screening buckets provide a step up in performance without compromising on size or weight.





Model	Carriers	Flow Rate	Weight	Capacity	Screening Area
3-100HE	4-6 Tonne Excavators	65 l/ min	320 kg	0.23 m ³	430 x 1000 mm
3-120HE	5-7 Tonne Excavators	65 l/ min	437 kg	0.26 m ³	430 x 1200 mm
4-100HE	7-10 Tonne Excavators	90 l/ min	492 kg	0.35 m ³	615 x 1000 mm
4-120HE	10-13 Tonne Excavators	90 l/ min	552 kg	0.40 m ³	615 x 1200 mm
5-120HE	14-20 Tonne Excavators	90 l/ min* 150 l/min	855 kg	0.60 m ³	845 x 1200 mm

*Low and high flow rate options are available for this model.



FIND OUT MORE

Scan the QR code to find out more about the HE Series

HDX SERIES

7-24 TONNE EXCAVATORS



3-150HDX

- 7-10 t Excavators
- 3 Rotors
- 1500mm Width
- 0.35m³ Capacity
- 600kg



4-150HDX

- 14-20 t Excavators
- 4 Rotors
- 1500mm Width
- 0.60m³ Capacity
- 836kg



6-150HDX

- 18-24 t Excavators
- > 10 t Loaders
- 6 Rotors
- 1500mm Width
- 1.20m³ Capacity
- 1148kg



When the job demands a bigger, tougher screening bucket, the Gyru-Star HDX series is the answer. Reinforced with additional HB400 wear-resistant steel, the three HDX models are ideal for screening aggregate, crusher run, and other abrasive materials.

All HDX models are 1500mm wide, with 3, 4, and 6 rotor options available. These are the largest of our standard screening buckets.





Model	Carrier	Flow Rate	Weight	Capacity	Screening Area
3-150HDX	7-10 Tonne Excavators	70 l/ min	600 kg	0.35 m ³	430 x 1500 mm
4-150HDX	14-20 Tonne Excavators	90 l/ min	836 kg	0.60 m ³	615 x 1500 mm
6-150HDX	18-24 Tonne (E) >10 Tonne (L)	150 l/ min	1148 kg	1.20 m ³	920 x 1500 mm



FIND OUT MORE

Scan the QR code to find out more about the HDX Series

L SERIES

LOADER-COMPATIBLE SCREENING BUCKETS



2-100L

- 1 t Loaders
- 2 Rotors
- 1000mm Width
- 0.12m³ Capacity
- 240kg



3-100L

- Up to 1.2 t Loaders
- 3 Rotors
- 1000mm Width
- 0.23m³ Capacity
- 350kg



3-120L

- Up to 4 t Loaders
- 3 Rotors
- 1200mm Width
- 0.26m³ Capacity
- 390kg



3-150L

- Up to 6t Loaders
- 3 Rotors
- 1500mm Width
- 0.35m³ Capacity
- 600kg



4-150L

- Up to 9 t Loaders
- 4 Rotors
- 1500mm Width
- 0.60m³ Capacity
- 860kg



Designed from the ground up to maximise the capabilities of your 1-9 tonne loaders, our L series models are compatible with all types of loaders. This includes compact and mini loaders, telehandlers, tractors, and backhoe loaders.

The L series consists of five models, between 1000mm and 1500mm wide, with 2, 3, and 4 rotor versions available.





Model	Carriers	Flow Rate	Weight	Capacity	Screening Area
2-100L	1 Tonne Loaders	40 l/ min	240 kg	0.12 m ³	300 x 1000 mm
3-100L	< 1.2 Tonne Loaders	65 l/ min	350 kg	0.23 m ³	430 x 1000 mm
3-120L	< 4 Tonne Loaders	65 l/ min	390 kg	0.26 m ³	430 x 1200 mm
3-150L	< 6 Tonne Loaders	70 l/ min	600 kg	0.35 m ³	430 x 1500 mm
4-150L	< 9 Tonne Loaders	90 l/min	860 kg	0.6 m ³	615 x 1500 mm



FIND OUT MORE

Scan the QR code to find out more about the L Series

SL SERIES

1-9 TONNE SKID STEER LOADERS



2-100SL

- 1-1.5 t Skid Steers
- 2 Rotors
- 1000mm Width
- 0.12m³ Capacity
- 265kg



3-100SL

- 1.5-2 t Skid Steers
- 3 Rotors
- 1000mm Width
- 0.23m³ Capacity
- 356kg



3-120SL

- 2-3 t Skid Steers
- 3 Rotors
- 1200mm Width
- 0.26m³ Capacity
- 465kg



3-150SL

- 3-4 t Skid Steers
- 3 Rotors
- 1500mm Width
- 0.35m³ Capacity
- 701kg



4-150SL

- 4-9 t Skid Steers
- 4 Rotors
- 1500mm Width
- 0.60m³ Capacity
- 924kg



The only poly-star screening bucket purpose-built for skid steer and compact track loaders. In addition to the standard features found on all our screening buckets, SL models are fitted with cab entry steps, a flow control valve, and a standard skid steer interface.

These additional features make SL models a true 'plug and play' solution, that's ready to work the moment it arrives onsite.

There are five models in the SL series, between 1000mm and 1500mm wide, with 2, 3 and 4 rotor versions available.





Model	Carriers	Flow Rate	Weight	Capacity	Screening Area
2-100SL	1-1.5 Tonne Skid Steers	40 l/ min	265 kg	0.12 m ³	300 x 1000 mm
3-100SL	1.5-2 Tonne Skid Steers	65 l/ min	356 kg	0.23 m ³	430 x 1000 mm
3-120SL	2-3 Tonne Skid Steers	65 l/ min	465 kg	0.26 m ³	430 x 1200 mm
3-150SL	3-4 Tonne Skid Steers	70 l/ min	701 kg	0.35 m ³	430 x 1500 mm
4-150SL	4-9 Tonne Skid Steers	90 l/min	924 kg	0.60 m ³	6150 x 1500 mm



FIND OUT MORE

Scan the QR code to find out more about the SL Series

MAX SERIES

PURPOSE BUILT FOR CABLE AND PIPE PADDING



2-100MAX

- 2.5-3.5 t Excavators
- 2 Rotors
- 1000mm Width
- 0.12m³ Capacity
- 260kg



4-120MAX

- 10-13 t Excavators
- 4 Rotors
- 1200mm Width
- 0.60m³ Capacity
- 740kg



3-100MAX

- 5-7 t Excavators
- 3 Rotors
- 1000mm Width
- 0.43m³ Capacity
- 425kg



4-150MAX

- 13-18 t Excavators
- 4 Rotors
- 1500mm Width
- 0.80m³ Capacity
- 980kg



3-120MAX

- 7-9 t Excavators
- 3 Rotors
- 1200mm Width
- 0.46m³
- 580kg



5-150MAX

- 16-24 t Excavators
- 5 Rotors
- 1500mm Width
- 1.30m³ Capacity
- 1200kg



3-150MAX

- 8-10 t Excavators
- 3 Rotors
- 1500mm Width
- 0.55m³
- 640kg



6-150MAX

- 20-30 t Excavators
- 6 Rotors
- 1500mm Width
- 1.60m³ Capacity
- 1370kg



4-100MAX

- 10-13 t Excavators
- 4 Rotors
- 1000mm Width
- 0.50m³ Capacity
- 715kg



FIND OUT MORE

Scan the QR code to find out more about the MAX Series



Designed for backfilling and padding operations, the MAX series is the first choice for utilities contractors around the world. With their increased capacity and extended HB400 cutting edge, MAX models are easily distinguished from the rest of the Gyru-Star range.

These two features make rehandling material from smaller stockpiles far easier, which is vital when recycling trench arisings into high-quality cable and pipe padding.

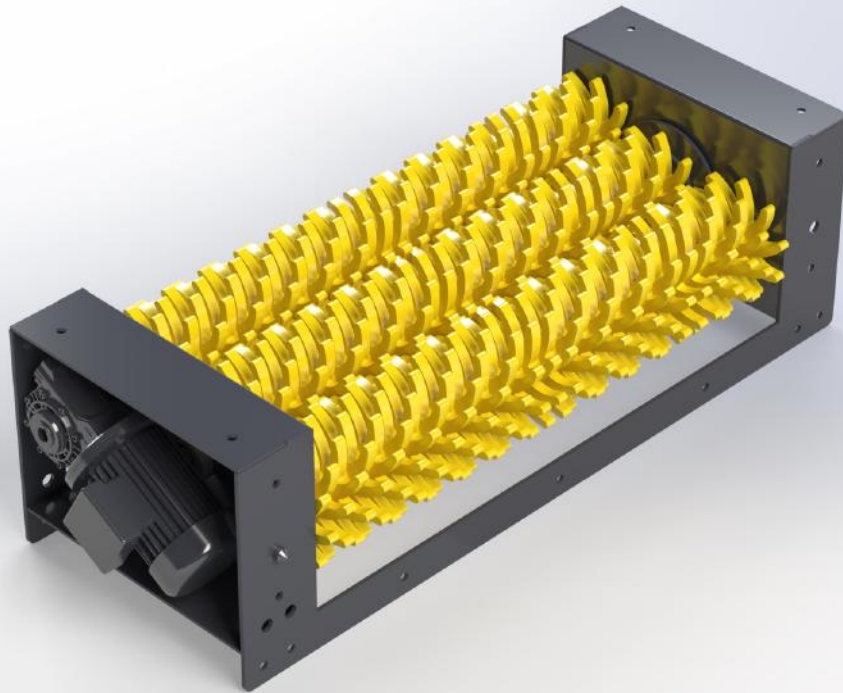
MAX models range in width from 1000mm to 1500mm, with 2, 3, 4, 5, and 6 rotor options available. The MAX series is primarily designed for 2.5-30 tonne excavators, though some models also offer loader compatibility.



Model	Carriers	Flow Rate	Weight	Capacity	Screening Area
2-100MAX	2.5-3.5 Tonne Excavators	40 l/ min	260 kg	0.12 m ³	300 x 1000 mm
3-100MAX	5-7 Tonne Excavators	65 l/ min	425 kg	0.43 m ³	430 x 1000 mm
3-120MAX	7-9 Tonne Excavators	65 l/ min	580 kg	0.46 m ³	430 x 1200 mm
3-150MAX	8-10 Tonne Excavators	70 l/ min	640 kg	0.55 m ³	430 x 1500 mm
4-100MAX	10-13 Tonne Excavators	90 l/ min	715 kg	0.50 m ³	615 x 1000 mm
4-120MAX	13-16 Tonne Excavators	90 l/ min	740 kg	0.60 m ³	615 x 1200 mm
4-150MAX	15-20 Tonne Excavators	90 l/ min	980 kg	0.80 m ³	615 x 1500 mm
5-150MAX	16-24 Tonne Excavators	150 l/ min	1200 kg	1.30 m ³	845 x 1500 mm
6-150MAX	20-30 Tonne Excavators	150 l/ min	1370 kg	1.60 m ³	920 x 1500 mm

GYRU-STAR POLY-DECK

MODULAR SCREENING SYSTEM



The latest innovation in True Screening®. The Gyru-Star Poly-Deck screening system offers an innovative and versatile solution unlike anything else on the market. The modular three-rotor star screen units provide unmatched flexibility across a variety of screening applications.

The modules can serve as the foundation for bespoke static or mobile screening systems, making it adaptable to any material or job site requirement. Its stackable design allows multiple fragment sizes to be produced without increasing the machine's footprint. The Poly-Deck system can also be integrated with mobile and static screeners, replacing the existing screening deck.

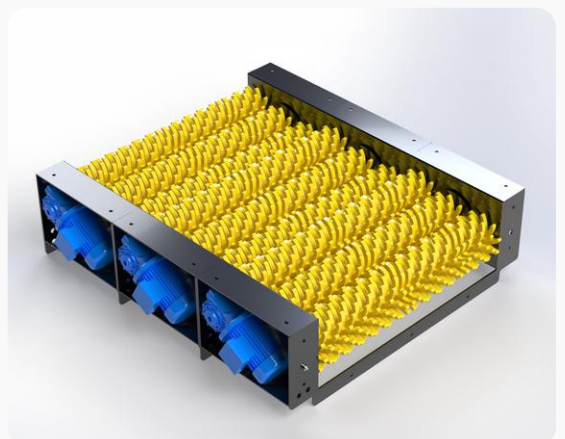
Furthermore, as each module is self-contained, the Poly-Deck seamlessly integrates into existing systems, such as biomass processing systems, production lines and material handling systems. Its simplified installation reduces setup time and minimises system downtime, providing a non-destructive solution that preserves product integrity.

POLY-DECK MODELS

There are currently three poly-deck modules available, each a different width.

- TSM-08 - 800mm
- TSM-100 - 1000mm
- TSM-120 - 1200mm

As standard, each module has a 0-20mm fragment size, though 0-10mm, 0-15mm and 0-40mm options are available.



ACCESSORIES AND FRAGMENT KITS

STANDARD AND OPTIONAL FOR ALL MODELS



HYDRAULIC CROSS-OVER KITS

Available on all models, standard on 4, 5 and 6 rotor models. Changes the hydraulic hose centres.



OIL FLOW CONTROL VALVE

Available on all L and SL models to control oil flow speeds. Standard on SL models.



PRESSURE CONTROL VALVE

Available on all 4, 5 and 6 rotor models. Allows the hydraulic pressure to be manually set where the carrier does not have this option.



ANTI-REVERSE VALVE

Prevents the rotors from running in reverse to avoid accidental damage. Available on all models.



STONE GUARDS

Standard on all models, with extensions available for all 120 and 150 models.



COMB KITS

The first step to reducing the fragment size, comb kits are available on all models. Optional on 20mm fragment kits and standard on 10mm and 15mm kits.

Our range of accessories helps you get the most from your Gyrus-Starr screening bucket. Whether you need to reduce the fragment size or change the hydraulic hose centre, we have everything you need.

Gyrus-Starr screening buckets are available in four fragment sizes: 0-10mm, 0-15mm, 0-20mm, and 0-40mm (all sizes nominal). These fragment kits are compatible with all Gyrus-Starr models, allowing your screening bucket to be adapted for any application.

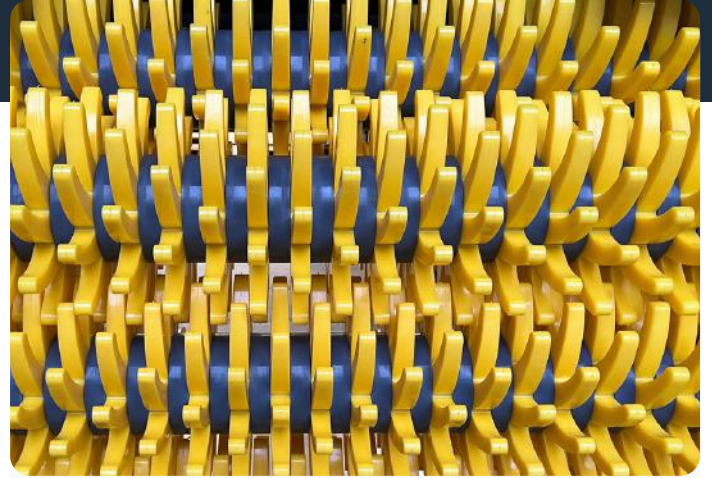
FRAGMENT KITS

AVAILABLE FOR ALL MODELS



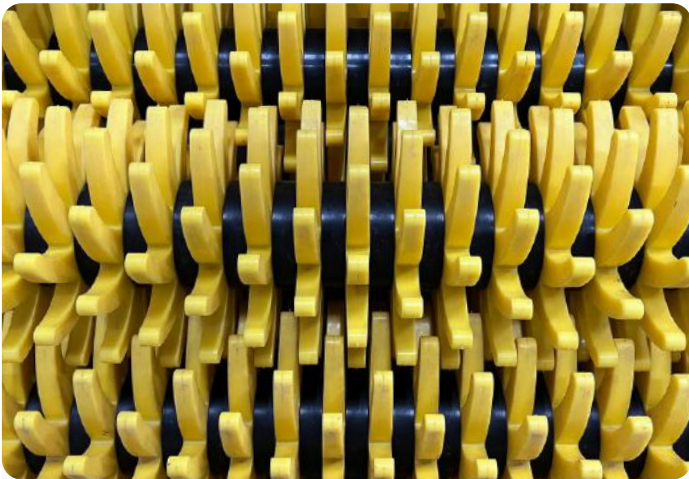
0-10MM NOMINAL

Our smallest fragment size, the 0-10mm fragment kit is denoted by the yellow spacing rings. This fragment size comes standard with a comb kit that replaces the stripper steel in 20mm models.



0-15MM NOMINAL

The 0-15mm fragment kit is the intermediate option, denoted by grey spacer rings. This fragment size comes standard with a comb kit that replaces the stripper steel in 20mm models.



0-20MM NOMINAL

The 0-20mm fragment kit is standard on all Gyru-Star models and is denoted by the black spacer rings. 20mm models are fitted with an adjustable stripper plate, which can be replaced with a comb kit if required.



0-40MM NOMINAL

The 0-40mm fragment kit uses larger stars than the 10-20mm options and is commonly used to screen aggregates and crusher run. 40mm models are fitted with an adjustable stripper steel, which can be replaced with a comb kit if required.

WHAT IS TRUE SCREENING®?

TRANSFORM LIABILITIES INTO ASSETS



NO CRUSHING OR SHREDDING

Our True Screening® technology is at the core of every Gyru-Star screening solution, allowing them to screen almost any material without crushing or shredding. Find out more about the innovative technology behind our market-leading screening solutions.

EFFECTIVE IN ALL CONDITIONS

Thanks to our True Screening® technology, screening is no longer just a fair-weather job. Coupled with the non-stick floor, True Screening® enables our products to remain effective in all conditions, and when screening wet materials.

Every product in the Gyru-Star range features our True Screening® technology, allowing both our buckets and modular systems to screen almost any material without crushing or shredding. It also enables them to remain effective in wet conditions, so you can keep screening no matter the weather.

But how does it work? The most important part of our True Screening® technology is the flexible polyurethane stars. Over the years, we have worked closely with one of the UK's leading plastics manufacturers to develop a proprietary formula specifically for our screening products. This formula allows the stars to flex under load without compromising durability.

Additionally, the stars are designed to create a rolling action inside the bucket rather than dragging material through the rotors. This breaks apart clumps of material without crushing or shredding, producing a high-quality product every time. The stainless steel non-stick floor also plays a crucial role, preventing blockages from forming and ensuring a constant flow of material into the rotors.



WHY GYRU-STAR?

THE WORLD LEADER IN TRUE SCREENING®



DEDICATED TO QUALITY AND INNOVATION

At Gyru-Star, quality and innovation are at the core of everything we do. From concept to production, every decision is driven by a commitment to delivering cutting-edge screening solutions. We continuously refine and enhance our products to ensure they remain at the forefront of the industry, offering operators the most efficient, reliable, and high-performance screening systems available.

TRUE SCREENING® TECHNOLOGY

Our True Screening® technology offers unrivalled versatility, allowing our products to be used across a variety of industries and applications. It also ensures you can keep screening no matter the conditions, as our products handle wet material quickly and efficiently.

NO CONTAMINATION

All of our screening products use a lubrication free driveline and sealed bearings, eliminating the risk of hydrocarbon contamination. This makes our products ideal for environmentally sensitive sites, or projects with strict environmental requirements.

INDUSTRY'S LARGEST RANGE

With 31 models across 6 series, we have the largest range of polyurethane star screening buckets on the market. We are also the only manufacturer to offer a dedicated range of poly-star screening buckets for skid steer loaders. Our extensive range ensures optimal screening performance for any carrier from 1-30 tonnes.

OPTIMISED EFFICIENCY

Our screening buckets are optimised to ensure maximum performance from any carrier. We also offer dedicated loader, skid steer and padding models, to ensure you always have the right tool for the job.

ULTRA-LOW MAINTENANCE

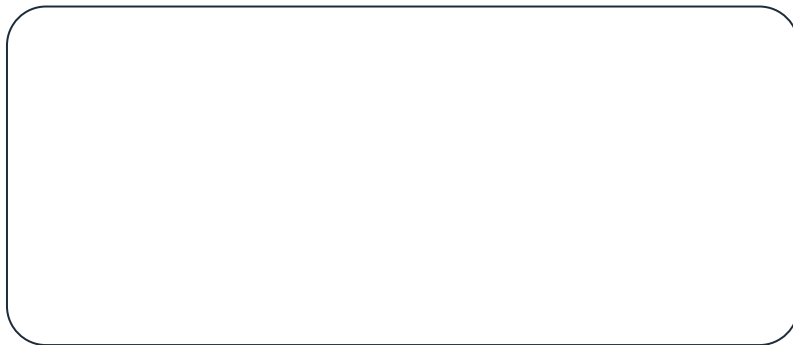
Our screening solutions require almost zero maintenance, thanks to the self-tensioning carbon belt drives and sealed bearings throughout. Reduce downtime from daily maintenance, with a reliable screening solution that's built to last.

MADE IN BRITAIN

Gyru-Star Compact Screening Systems are designed and manufactured in Great Britain by Wheatway Solutions Ltd, at our facilities in Gloucestershire. Since 2024, we have been members of Made in Britain, reinforcing our commitment to British engineering, quality craftsmanship, and local manufacturing.



DEALER INFORMATION



WANT TO FIND OUT MORE?

Want to learn more about how our True Screening® solutions can revolutionise the way you work? Head on over to our website for an in-depth look at our innovative range of screening solutions.

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WHEATWAY

**MADE IN
BRITAIN**®