

CONSTRUCTION



▶ OBJECTIVE

To supply construction machinery with efficient, safe and resistant bucket protection systems, extending the service life and providing maximum performance to the machine in multiple soils.



Savings

The combination of teeth with a self-sharpening design and a stable and robust fitting system ensure a better penetration of the bucket and a lower consumption is achieved by the machine.



Safety

MTG Systems incorporate the MTGtwist hammerless locking system that provides safety in the fitting and an excellent retention, preventing breakages and minimizing the risk of accidents.



Productivity

The tooth-adapter-shroud assembly ensure maximum productivity thanks to its stability and comprehensive design, lengthening the service life of the system in all soils: loose, compact and pre-blown stone quarries.



EXCAVATORS

12 - 20 TON 312E L 314E L CR 318E L	21 - 40 TON 320E L/N 329E L/LN 336F L/LN	41 - 90 TON 349E L 374F L 390F L	CAT ⁽¹⁾
PC138USLC - 10 PC170LC - 10	PC210LC - 10 PC290LC - 10 PC390LC - 10	PC390LC - 11 PC490LC - 10 MH PC800LC - 8 HM	KOMATSU
ZX130LNC - 5 ZX160LC - 5 ZX180LC - 5	ZX210LC - 5 ZX290LC - 5 ZX380LC - 6	ZX470LC - 5 ZX670LC - 5 ZX870LC - 5	HITACHI



LOADERS

30 - 35 TON	45 - 55 TON	75 - 85 TON	95 - 110 TON
CAT ^[1] 980	CAT ^[1] 988 WA ^[1] 600	CAT ^[1] 990	CAT ^[1] 992 WA ^[1] 800



PATENTED MTG SYSTEMS FOR CONSTRUCTION

SYSTEMS	S
STARMET	7

Tooth-adapter hammerless locking system for construction and quarries, which provide maximum protection for excavator and loader buckets.



Hammerless locking system for bucket protection. Includes complete range of wing and lip shrouds for buckets in excavators and loaders.



Patented wear parts MTG Systems RipMet for bulldozers in quarries. Wear parts with longer wear life and optimal penetration.



Robust and resistant teeth-adapter system for light, medium and heavy construction.

OTHER PARTS FOR CONSTRUCTION



A wide range of innovative designs of teeth, adapter and shrouds adaptable to the most common systems on the market.



Visit mtgsystems.com or our MTG Pro app (iOS and Android phones) and set up your machine.

LT⁽¹⁾ - 950

^[1] See note on the back cover.





MTG SYSTEMS STARMET

Tooth-adapter hammerless locking system for construction and quarries, which provide maximum protection for excavator and loader buckets.



Excavators for quarries and construction.



Loaders for quarries and construction.



> STARMET ADVANTAGES

Provides safety, savings and greater productivity

Teeth

- Quick, easy and safe replacement of the teeth, providing greater safety for the operator. There is no chance of accidents being caused by flying metal particles.
- The hammerless MTGtwist locking system offers an excellent retention, preventing the loss of its teeth. Since it is housed in the adapter, the pin is completely protected from wear and impacts thus enhancing the longevity of the locking system. With MTG Systems StarMet teeth sizes 20 to 60, the locking system allows the pin and the retainer to be mounted on either side of the adapter (only one pin and one retainer are required per kit).
- MTG Systems StarMet includes a metallic locking system for hot slag applications. Exclusive design of the pin and the metallic retainer. Entirely compatible with MTG Systems StarMet teeth and adapters, it does not require replacing the tooth or adapter.
- All our designs offer improved penetration, are **self-sharpening** and include more wear material, **increasing the productivity** of the machine.

Adapters

- **Designs that protect the bucket's welds,** as well as the side and blade of the bucket, thus extending the service life of the adapter.
- Optimized designs reduce the number and length of stoppages generating savings in maintenance downtimes due to its longer wear life.





BILATERAL LOCKING SYSTEM

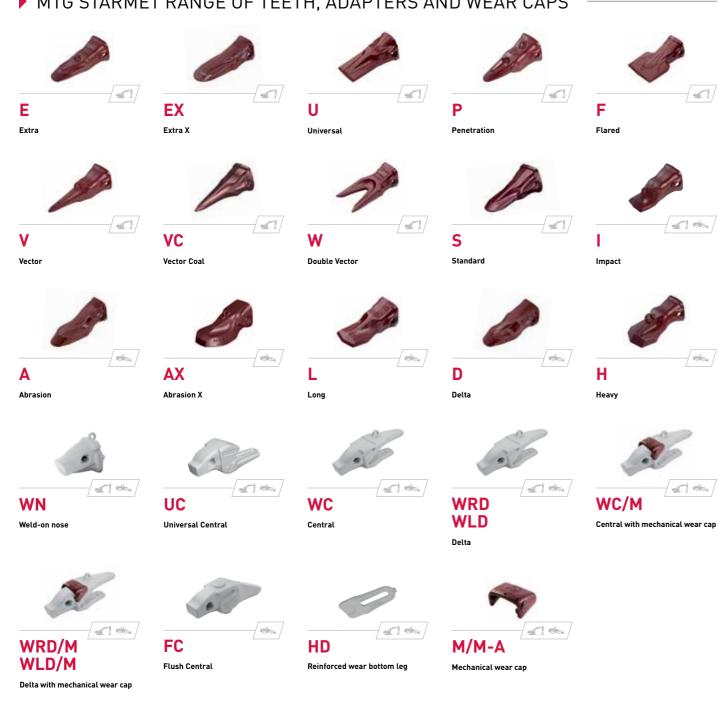
- 1. Hammerless conical pin for an easier extraction.
- 2. Standard shaped square hole.
- 3. MTGtwist retainer made of ElastoMet and polyurethane.
- Plug to prevent the square hole becoming filled with soil, saving cleaning time during disassembly.

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CONSTRUCTION



▶ MTG STARMET RANGE OF TEETH, ADAPTERS AND WEAR CAPS



▶ ACCESSORIES



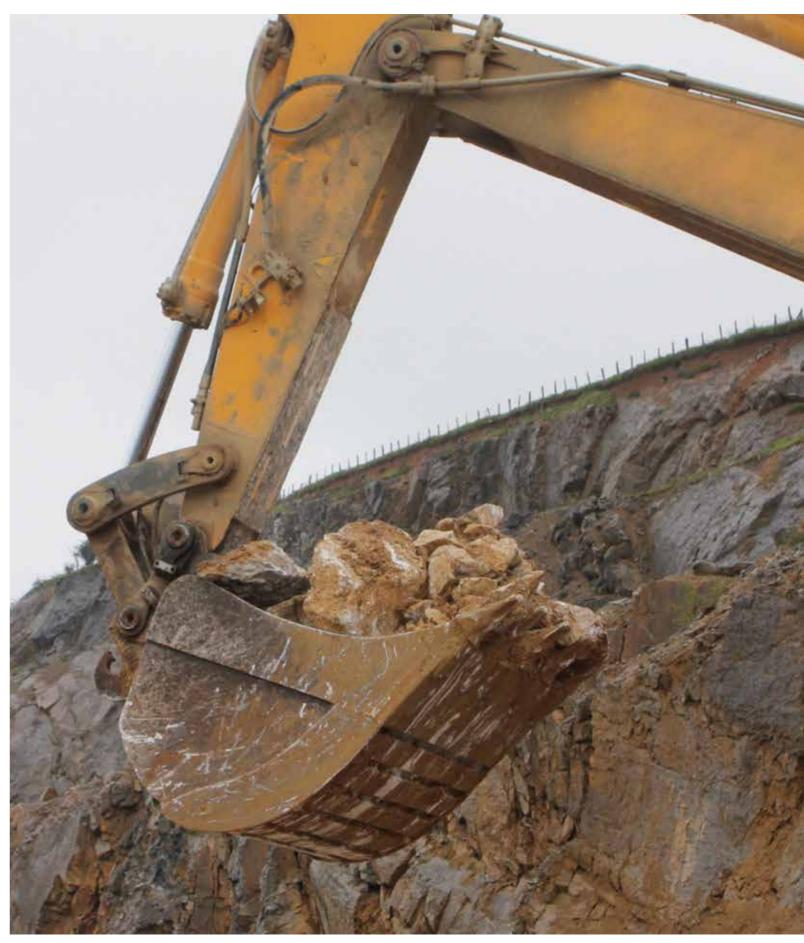




Metallic locking system for hot slag applications



Extraction tool



MTG Systems StarMet teeth working in a Spanish quarry.

CONSTRUCTION



MTG SYSTEMS PROMET

Hammerless locking system for bucket protection in the construction industry. Complete range of ProMet shrouds, as well as the most common MTG Plus weldable and bolt-on shrouds.



Excavators for quarries and construction.



Loaders for quarries and construction.



Stand MTG at Bauma Munich, April 2016.

▶ **PROMET** ADVANTAGES

Longer wear life, safety and reliability

Wing shrouds

- Offer a wide range of reversible wing shrouds which allow exchanging its position in order to achieve a complete wear of the part, and extends its wear life.
- Protect the sides of the bucket from exposure to impacts and abrasions, increasing the bucket's wear life.
- Complete range, for wing thicknesses between 30 and 60 mm.
- MTGtwist hammerless locking system offers security and reliability to the system.
- Its sharpness and lightness increase penetration of the bucket, thus improving machine productivity.

Lip shrouds

- Customized designs, for the purpose of offering up to 30% more wear material as compared to the equivalent model on
- Reduce the exposure of the blade to impacts and abrasion, increasing the useful life of the bucket.
- The front of the shroud contains between 10% and 20% more steel.
- The fitting system only requires welding a base for each shroud, thus making installation easy and quick while reducing machine downtimes.
- Customized design for the locking system, improving wear parts contact and stability.



PROMET LATERAL LOCKING SYSTEM

- 1. Weldable bases.
- 2. MTGtwist hammerless pin
- 3. MTGtwist retainer made of ElastoMet and
- 4. Plug to prevent the square hole becoming filled with soil, saving cleaning time during disassembly



PROMET BLADE LOCKING SYSTEM

- 1. Only one weldable base required.
- 2. Mechanical locking block.
- 3. MTGtwist retainer made of ElastoMet and polyurethane.
- 4. MTGtwist hammerless pin.
- Plug to prevent the square hole becoming filled with soil, saving cleaning time during disassembly.



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▶ MTG PROMET RANGE OF MECHANICAL WING AND LIP SHROUDS



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Wing shroud

For excavators and loaders with 30-60mm wings. For abrasive applications with a medium high impact level.



Protects the left wing of the bucket in excavators and loaders.



"Heavy" wing shroud

For excavators and loaders with 60-140mm wings. For high abrasion/impact applications.



Central Lip shroud

Protects the bucket blade in excavators





Protects the right wing of the bucket in excavators and loaders.

ACCESSORIES



Weld-on base for ProMet wing shrouds



Weld-on base for ProMet "Heavy" wing



Weld-on base for ProMet lip shrouds



Mechanical block for lip shrouds



MTG twist locking system for wing

MTG twist locking system for lip shrouds



▶ MTG PLUS RANGE OF WELD-ON AND BOLT-ON WING, HEEL AND LIP SHROUDS



UL/ULX

[1] See note on the back cover

Wing shrouds

For excavators. Provide excellent penetration for the bucket wing.



ULH/ULHX

Heel shrouds

Protect the corner of the bucket and adapt to its curvature. Range that covers excavators from 20 to 300 tonnes.



UC/URD/ULD Welded blade shrouds

Welded blade shrouds for excavators in multiple applications. Range which covers blade thicknesses of 40mm to 120mm.



MTG PLUS

BC-A/BCX-A/ BLD-A/BLDX-A/ **BRD-A/BRDX-A**

Bolt-on blade shrouds

Bolt-on half arrow blade shrouds for Caterpillar⁽¹⁾ loaders which work on abrasive applications.



More bucket protection and productivity with MTG shrouds.

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MTG SYSTEMS RIPMET & MTG SYSTEMS KINGMET

Robust and resistant traditional MTG tooth system offering optimal penetration in quarries and construction work.



Excavators for quarries and construction.



Loaders for quarries and construction.



Bulldozers for quarries and construction.



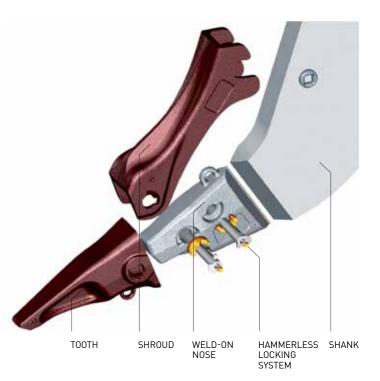


▶ **RIPMET** ADVANTAGES



Increased wear life and optimal penetration

- Teeth with a higher percentage of wear material, which increases their wear life.
- The teeth's longer self-sharpening channel maintains the penetration until the end of their life.
- The shroud protects and optimizes the penetration of the arm durably, preventing the wear on the central nerve to the maximum.
- Excellent resistance on the toughest applications. The stability of the fitting system better distributes the forces when working, minimizing breakages even on the toughest applications.
- Safety and ease when changing teeth. MTG Systems RipMet wear parts incorporate the MTGtwist hammerless locking solution which offers safety, comfort and faster changing of the parts.



MTGTWIST LOCKING SYSTEM FOR BULLDOZERS

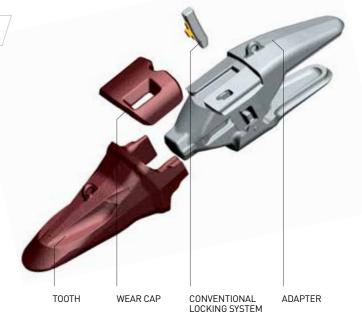
- 1. Hammerless conical pin for an easier extraction.
- . Standard shaped square hole.
- 3. MTGtwist retainer made of ElastoMet and polyurethane.
- Plug to prevent the square hole becoming filled with soil, saving cleaning time during disassembly.

KINGMET ADVANTAGES



More wear life and bucket penetration

- · Robust and resistant teeth.
- Teeth operate without breaking.
- Faster and easier tooth changing. Conventional locking system, which includes a vertical pin that reduces any possible side interferences.
- Teeth with a longer service life. Long lasting and extended performance thanks to the good quality wear material and because they are built using steels by MTG Steels, which last longer and break less.
- Teeth remain always sharp, improving bucket penetration throughout the service life of the tooth.





CONVENTIONAL LOCKING SYSTEM

- 1. Body

- 3. Polyurethane 4. ElastoMet.
- 5. Pin totally protected.

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TESTIMONIALS FOR CONSTRUCTION



MTG SYSTEMS STARMET IN LIMESTONE AND QUARTZ APPLICATIONS



MTG Systems StarMet tooh in a limestone and quartz quarry.



Construction excavator with MTG wear parts operating in Ireland.

STARMET

RESULTS: THE HAMMERLESS LOCKING SYSTEM IMPROVES THE SAFETY AND RELIABILITY OF TEETH, BEING THE MAIN ADVANTAGE OF MTG SYSTEMS STARMET TEETH. ^[2]



Machine: HITACHI⁽¹⁾ ZX 850 System: MTG Systems StarMet Terrain: Limestones and quartz quarries Location: Ireland

MTG SYSTEMS STARMET TEETH FOR HOT SLAG APPLICATIONS



MTG systems working at extreme temperatures.



G.E.T. in hot slag applications in Spain.

STARMET

RESULTS: MAXIMUM RESISTANCE AND DURABILITY AT EXTREME TEMPERATURES WITH MTG SYSTEMS STARMET FOR HOT SLAG. ⁽²⁾



Machine: LOADER CAT⁽¹⁾ 980 System: MTG Systems StarMet Terrain: Hot slag application Location: Spain

10122 See notes on the back cover.

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