

**BROCHURE**

# **DREDGING**

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English version



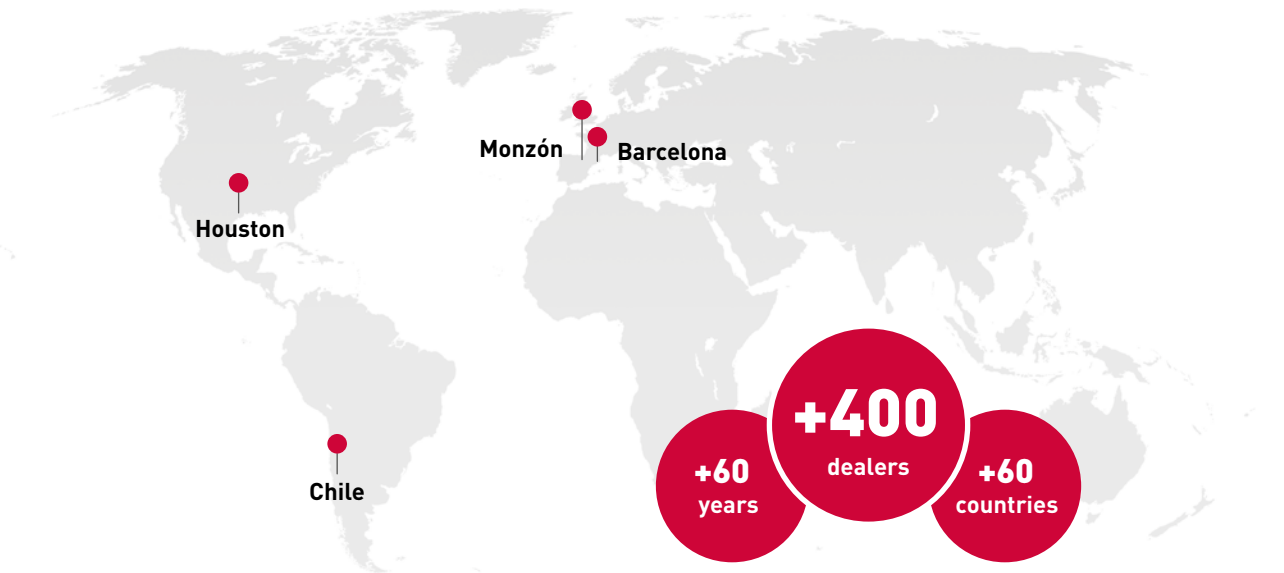
**MTG**

No limits innovation

# MTG IN NUMBERS

With more than 60 years' experience, at MTG we are specialists in the design and manufacture of G.E.T. products. Our distribution network comprises more than 400 dealers, who operate in more than 60 countries all over the world.

MTG has its headquarters and warehouse in Barcelona and its industrial plant in Monzón (Spain). MTG also has its sales offices and an additional warehouse in Houston, Texas (US), and a distribution centre in Santiago (Chile).

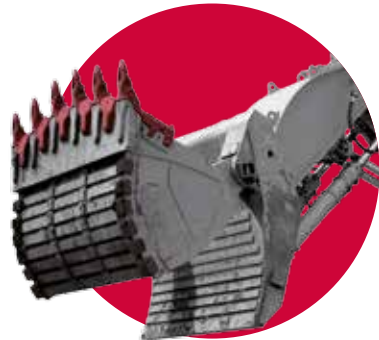


# SECTORS WE WORK IN

We offer a wide range of wear solutions for earth-moving, mining, construction and dredging machinery.



DREDGING



MINING



CONSTRUCTION

# INNOVATION: OUR COMPETITIVE ADVANTAGE

MTG's permanent commitment to innovation, both in product design and production technology, has been and is our best future strategy.

Our solutions guarantee greater productivity and profitability for our users due to the perfect balance between design and wear material, and a wide range of products for each application.

MTG steels are specifically designed to withstand the highest levels of mechanical stress when operated. Our steels maximise the hardness / toughness combination due to their low level of impurities and structure which is developed using specific heat treatments.



# WHAT WE ARE MADE OF

Our high-quality products and services are the result of our core values, which have established us as a leading company with an international vocation.



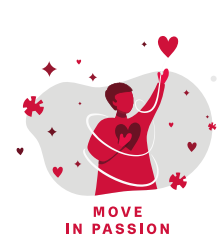
CHALLENGE THE PRESENT



STRIVE FOR EXCELLENCE



WORTHY OF TRUST



MOVE IN PASSION



COMMITTED TO RESULTS

# OUR STRENGTHS

MTG develops innovative systems and provides technological services that help increase the protection and productivity of the dredging equipment. It is not what we say, but what our customers say about our products.



## HIGHER PRODUCTIVITY

Our products are designed to maximise production in each application and minimise the maintenance time and costs.



## LONGER OPERATIONAL TIME

Our teeth designs are self-sharpening, which allow for a high degree of penetration during their life, and an increase in the adapters' protection, thus minimising the need for repairs. Our steels and the optimal distribution of wear material also allow our teeth to last longer, consequently increasing operational time.



## MAXIMUM RELIABILITY

All MTG's G.E.T. products have proved robustness and resistance, even in the most demanding applications. Our hammerless locking systems provide an excellent retention, avoiding teeth loss.



## FASTER AND SAFER TOOTH CHANGES

The tooth assembly and disassembly are easier thanks to our hammerless locking solution, which reduces the dredger's downtime. The locking device is easy and safe, and its use is totally intuitive, increasing ease of replacement.



## SPECIALISED DREDGING TEAM

Our customers count on a flexible and experienced technical team, that comprises key account management, customised product development and specialised technical assistance on-site.

# SUMMARY

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# CUTTER SUCTION DREDGERS



## MTG Cutterheads

MTG develops its own cutterheads, which are designed and customised by our Engineering Team, using the most advanced CAD/CAM and prototyping technology, to meet our customers' specific needs.

At MTG we offer cutting-edge technical services for the repair and conversion of cutterheads, both on-site and in our facilities, which have the latest technology.

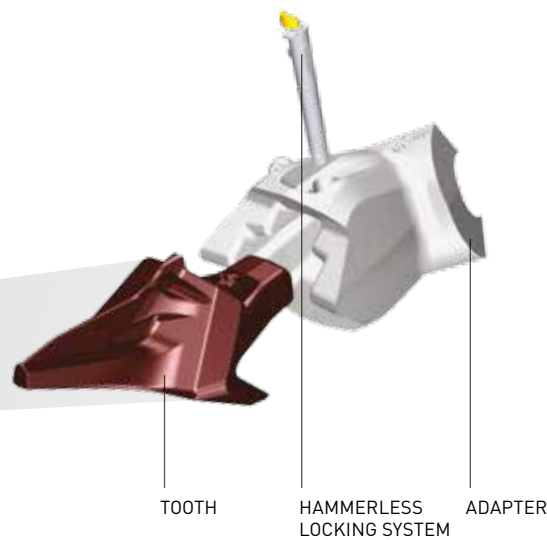
Our high standards and exhaustive quality controls make us a trusted partner for the most powerful mega-dredgers on the market, which are already equipped with MTG Cutterheads.



## MTG Systems DMet



MTG Systems DMet offers a wide range of hammerless tooth-adaptor products specially designed for Cutter Dredgers to maximise the protection and productivity of the cutterhead, even in the most extreme conditions.



## MTG Systems DMet Benefits

### HIGHER PRODUCTIVITY



- The smooth system design allows material to flow towards the inside of the cutterhead, increasing suction efficiency and cutterhead productivity.
- A high degree of penetration during the tooth's life is allowed by self-sharpening designs.
- The optimal functioning of the system reduces the vibrations from the dredger.

### GREATER DURABILITY



- Our wide range of tooth designs for each application, along with an optimised ratio of wear material and a high degree of penetration throughout their service life, make our solutions one of the most efficient.
- Tooth deflectors protect the adapter from wear, reducing the repairs.
- The pin can be reused several times.

### MAXIMUM RELIABILITY

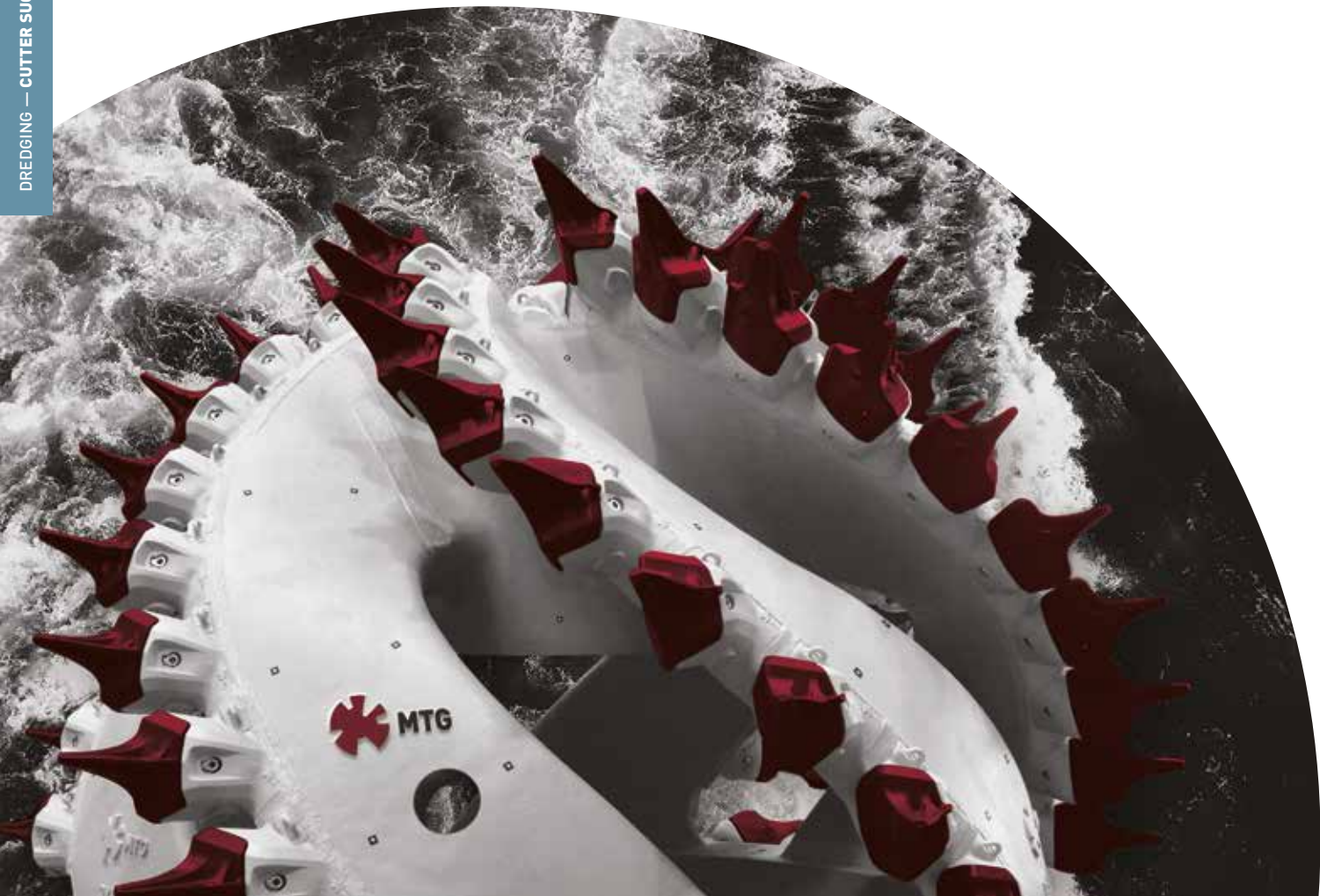


- The stabilisation in all load directions makes the system one of the most robust and resistant on the market, even in the most demanding applications.

### FASTER, EASIER AND SAFER TOOTH REPLACEMENT




- Thanks to our hammerless locking solution, the dredger's downtime is reduced.




# MTG Systems DMet Product Range


## TEETH AND ADAPTERS



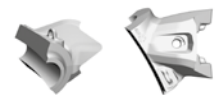
**P\***  
Pick Point



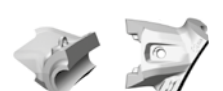
**C**  
Chisel




**F**  
Flared




**TBL**  
Tube Left



**TBR**  
Tube Right



**WIL**  
Wing Left



**WIR**  
Wing Right

## ACCESSORIES



**Pin**



**Retainer**



**Extraction Tool**

\* Different lengths and also Composite Pick Point options for increased lifetime.


# MTG Plus




MTG Plus is an alternative products category of adaptable systems for cutter suction dredgers.

## MTG Plus Product Range


### TEETH AND ADAPTERS (RETROFIT HELILOK<sup>(1)</sup>)




**P**  
Pick Point



**C**  
Chisel



**F**  
Flared



**SR**  
Spherilok<sup>(1)</sup> adapter

<sup>(1)</sup> See the Notes section on the back cover.

# Testimonials

## Great performance of MTG Systems DMet in hard rock application



**Machine:** Cutter Suction Dredgers Taurus & Phoenix<sup>(1)</sup>  
**System:** MTG Systems DMet  
**Terrain:** Limestone  
**Location:** Qatar



### Context

Work in extremely hard and abrasive rock, where blasting could not be performed.

### Results

Maximum reliability, no breakages even in the most extreme conditions and increased productivity.

**“MTG’s products offer maximum reliability and greater productivity.”<sup>(2)</sup>**

## MTG Cutterheads performing with excellent results in the field



**Machine:** Cutter Suction Dredger Niccolo Machiavelli<sup>(1)</sup>  
**System:** MTG Cutterhead equipped with MTG PLUS size 68  
**Terrain:** Rock  
**Location:** Panama



### Context

Mega cutter dredger, working in rock application.

### Results

An excellent performance of the cutterhead, and long-lasting and reliable teeth.

**“We are very satisfied with MTG products: high-quality wear parts and cutterhead made with excellent steel, giving outstanding results on the field.”<sup>(2)</sup>**

<sup>(1) (2)</sup> See the Notes section on the back cover.



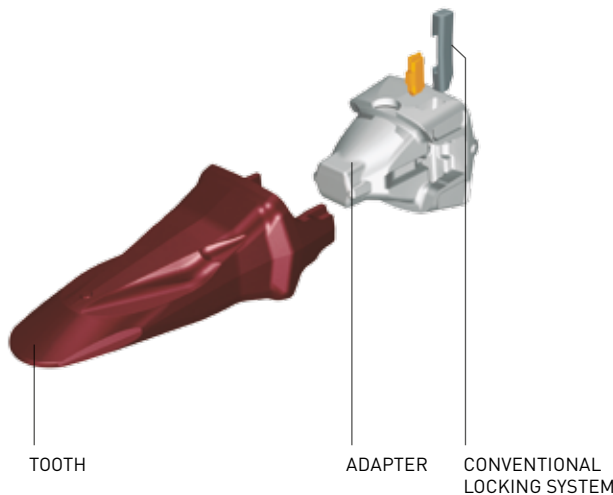
# HOPPER DREDGERS



## MTG Systems KingMet



MTG Systems KingMet is a robust and resistant teeth-adapter system that offers productivity and versatility for the draghead.



## MTG Systems KingMet Benefits



### INCREASED DREDGER'S EFFICIENCY

- Our designs allow our teeth to always remain sharp, achieving a high degree of penetration throughout the service life of the tooth.



### LESS DREDGER DOWNTIMES

- Due to the perfect balance between our self-sharpening teeth designs and wear material, and a wide range of products for each application, our solutions have longer wear life.



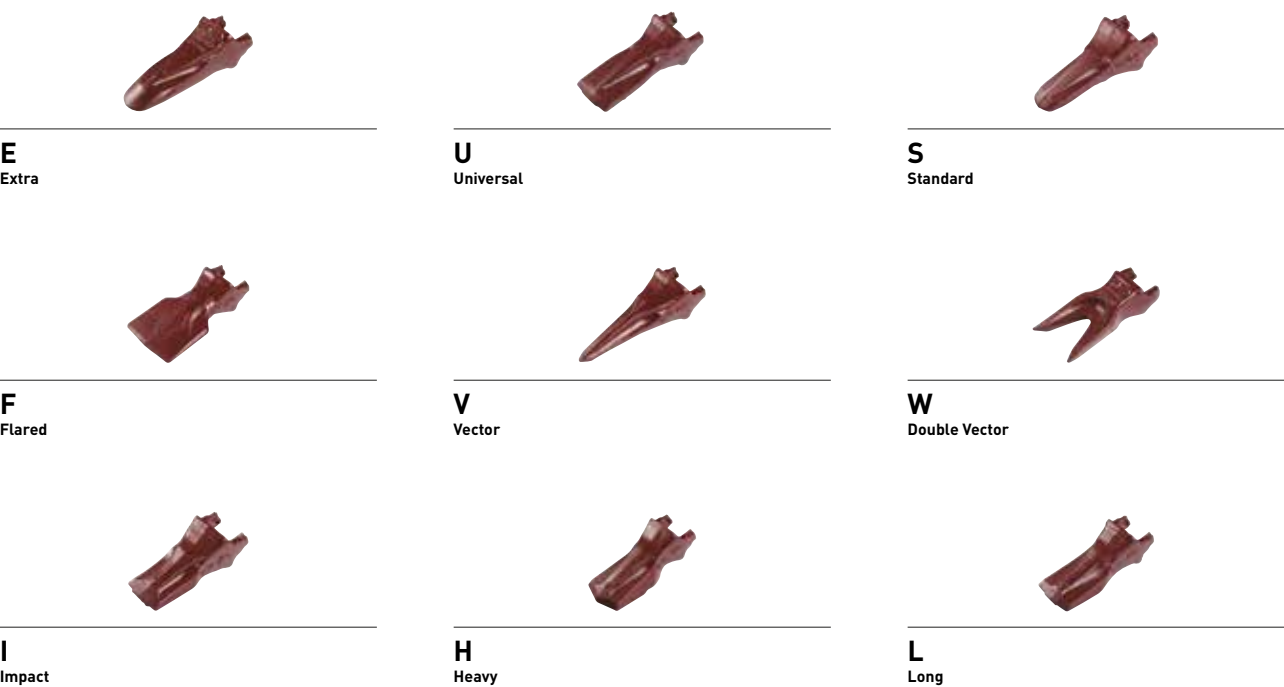
### EASY MAINTENANCE

- Thanks to the vertical pin retention system, which reduces any possible side interferences, tooth replacement is faster.

+ For the toughest applications, MTG Systems RipMet is also an option for rippers. If you want to know more, please, contact us.

## MTG Systems KingMet Product Range

### TEETH



+ If you want to have a look at our full product range for MTG Systems KingMet, please, contact us or visit our website [mtgsystems.com](http://mtgsystems.com).



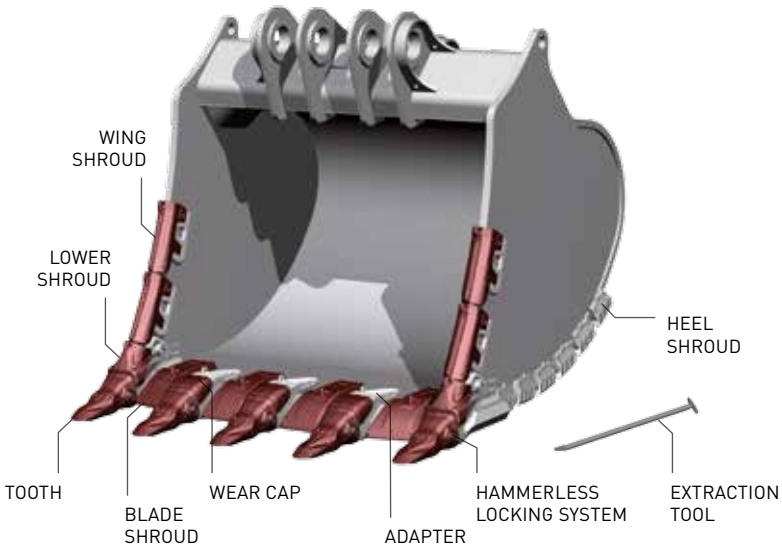
# CLAMSHELL DREDGERS AND BACKHOE DREDGERS



## MTG Systems StarMet and ProMet



A combination of our best-selling teeth-adapter system, MTG Systems StarMet, and our hammerless system for full bucket protection, MTG Systems ProMet, that guarantees a higher resistance and ruggedness for backhoes and clamshells.



## MTG Systems StarMet and ProMet Benefits



### FASTER, EASIER AND SAFER TOOTH CHANGES

- Thanks to our hammerless locking solution, the dredger's downtime is reduced.



### INCREASED DREDGER'S EFFICIENCY

- Our designs allow our teeth to always remain sharp, achieving a high degree of penetration throughout the service life of the tooth.



### LESS DREDGER DOWNTIMES

- Due to the perfect balance between our self-sharpening teeth designs and wear material, and a wide range of products for each application, our solutions have longer wear life.

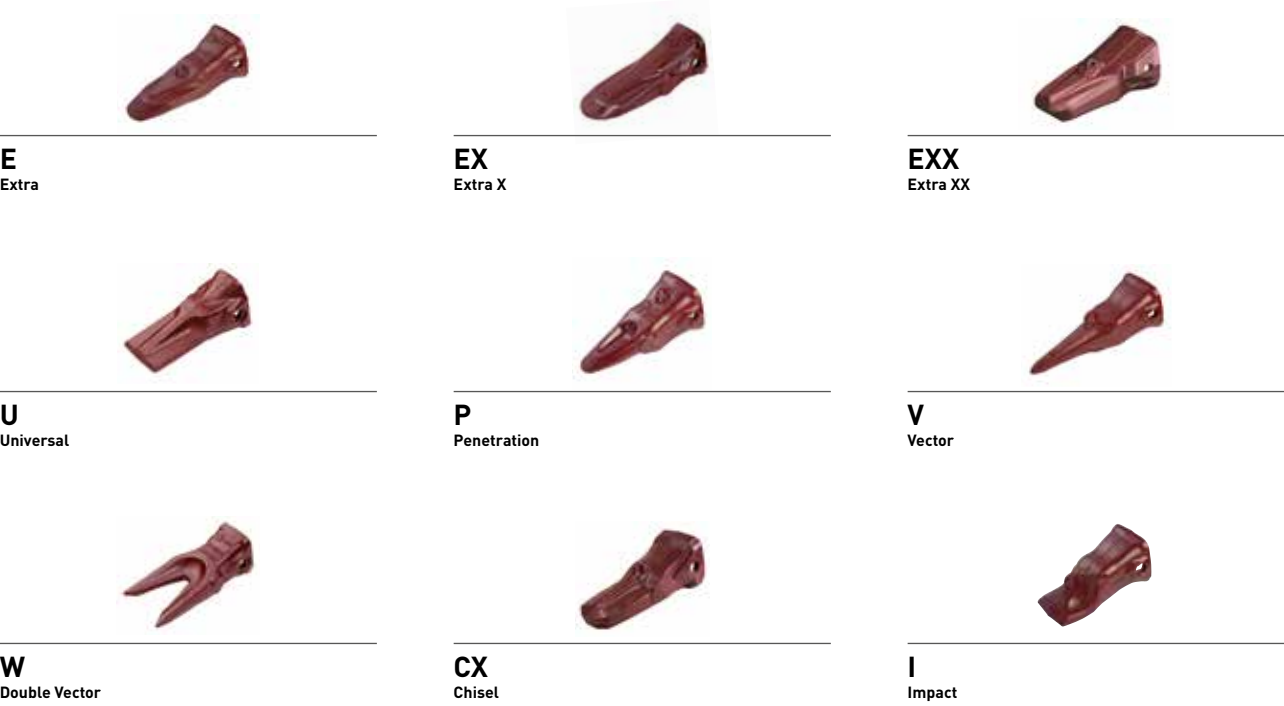


### MAXIMUM RELIABILITY

- Our steels give our G.E.T. products a maximised hardness / toughness combination, avoiding breakages.
- The tried and trusted system offers excellent retention, preventing tooth loss.

## MTG Systems StarMet Product Range

### TEETH



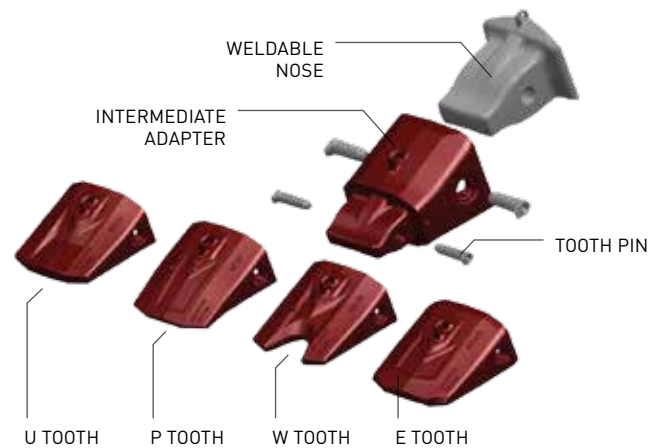
If you want to have a look at our full product range for MTG Systems StarMet, please, contact us or visit our website [mtgsystems.com](https://www.mtgsystems.com).



# MTG Systems TwinMet and ProMet



MTG Systems TwinMet is an innovative three-part system (tooth - intermediate adapter - nose), which, along with MTG Systems ProMet, provide large clamshells and backhoes with robustness and reliability.



## MTG Systems TwinMet and ProMet Benefits



### MAXIMUM RELIABILITY

- MTG's locking system provides an excellent retention, avoiding teeth loss.
- The stabilisation areas in the multiple axes allow increased reliability of the entire system.



### HIGHER PRODUCTIVITY AND SAVINGS

- Our teeth's self-sharpening designs allow a high degree of penetration during their wear life.
- The reversible system permits the rotation of parts if deemed necessary.



### LESS DREDGER DOWNTIMES

- Optimum tooth box design that allows an increased wear material ratio, while preserving their penetration capacity.



### SAFER AND SHORTER DOWNTIME

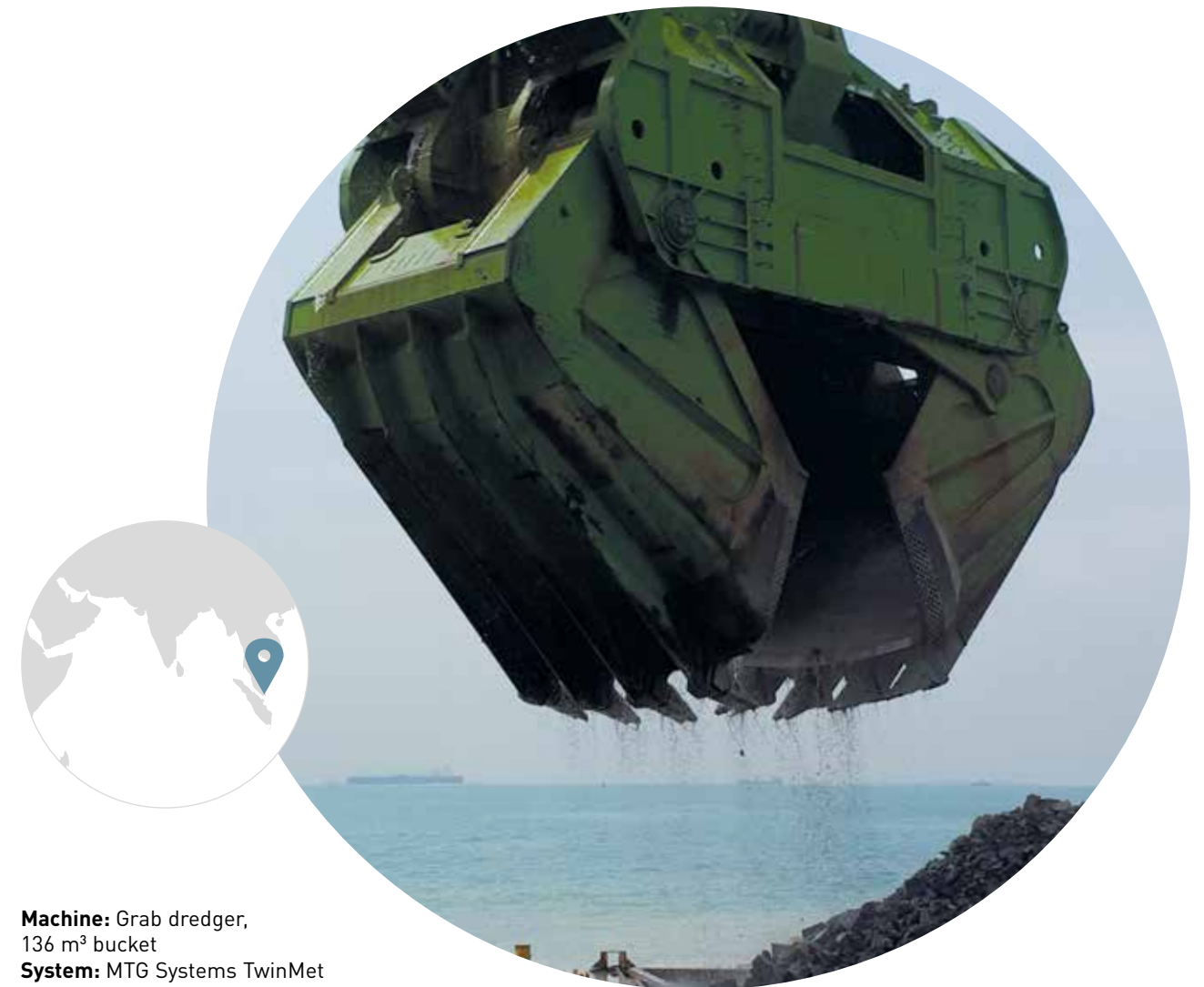
- Thanks to our hammerless locking system's swapping ease, safety is increased, and downtime is reduced considerably.



Complete this configuration with Cast Lips Terra, suitable for all applications and terrain types. If you want to know more, please, contact us.

# Testimonial

## Increased productivity with MTG Systems TwinMet



**Machine:** Grab dredger,  
136 m<sup>3</sup> bucket  
**System:** MTG Systems TwinMet  
**Terrain:** Stiff hard clay  
**Location:** TTP1 project  
in Singapore

### Context

Solving breakage problems which were an inconvenience for the targeted production.

### Results

Better production due to higher efficiency, great reliability and excellent technical and after sales service.

**“With MTG Systems TwinMet, we can work in the toughest areas, increasing productivity and ensuring compliance with the deadlines of our project.”<sup>(1)(2)</sup>**

<sup>(1)(2)</sup> See the Notes section on the back cover.





#### MTG Quality Certificates



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