

BROCHURE

DREDGING SOLUTIONS

2025 Edition



MTG

No limits innovation



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MTG IN NUMBERS

With more than 65 years' experience, we are an independent and family-owned business specialized in the design and manufacture of high quality wearparts for earth-moving machinery. We operate in more than 60 countries all over the world.

65+

YEARS

experience in the design and manufacture of high quality wearparts for earth-moving machinery.

6

CSDs

out of the top 10 most powerful CSDs worldwide have been equipped with MTG CUTTERHEADS.

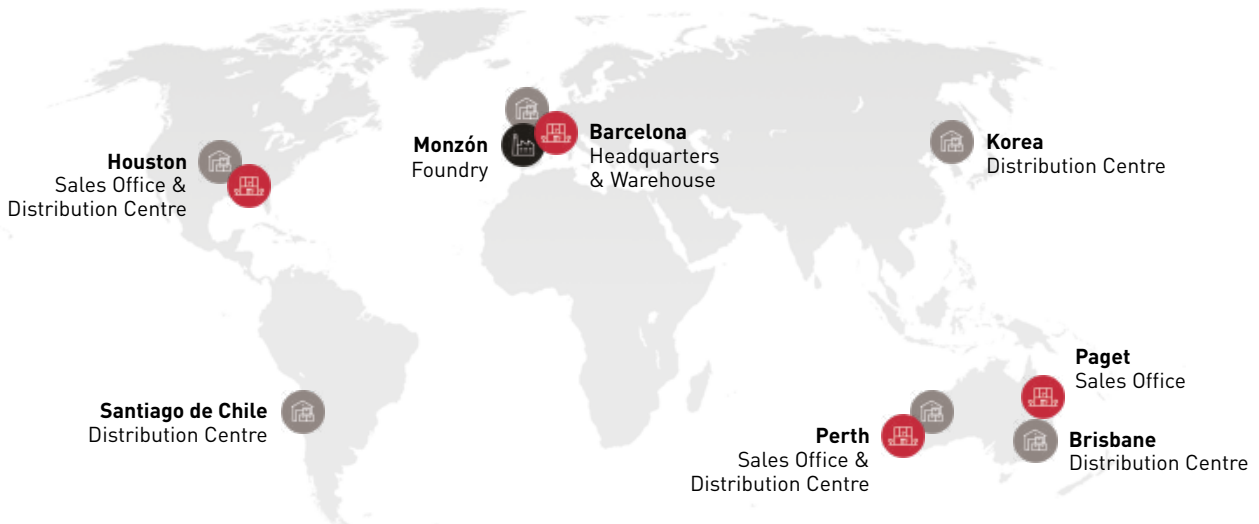
60+

COUNTRIES

are covered by our dealers, allowing us to be the global company we want to be, providing local service to our end users.

MTG IN THE WORLD

An international projection, with a regional commitment.





SOLUTIONS WE PROVIDE

MTG has gained a solid reputation in the Mining, Construction and Dredging industries by constantly challenging market standards and answering customer demands. Our deep knowledge in wear solutions has positioned us as a wearparts specialist, for our MTG branded products and for leading OEMs, providing custom-built solutions to satisfy their needs.



DREDGING SOLUTIONS

MTG provides solutions for dredging equipment. Find the best wear protection systems for your dredgers.



MINING SOLUTIONS



CONSTRUCTION SOLUTIONS



OEMS SOLUTIONS



CSD



BACKHOE DREDGER



TSHD



GRAB DREDGER

MTG VALUES

The results we obtain as well as the achievement of the objectives that we set for ourselves are not only the result of our experience and specialist knowledge but also because of how we make decisions and act, both collectively and individually. It is about our way of doing things, which is specified in five corporate values.



Committed to results

Our results, our success.



Challenge the present

We always seek out new solutions to improve the future.



Move in passion

We enjoy what we do and share our enthusiasm with others.



Strive for excellence

We enjoy exceeding expectations.

**This is what we
are like at MTG,
It is what we are
made of**



Worthy of trust

Our acts speak louder than words.

MTG COMMITMENTS

Quality, Health, Safety and Environment (QHSE) Policy

As a main tool for the achievement of corporate objectives, MTG has adopted the implementation of an Integrated Management System comprising the Quality Management System (ISO 9001), the Safety and Occupational Health System (ISO 45001), and the Environmental Management System (ISO 14001).



Sustainability Plan

Since its beginnings, MTG has always been committed to environmental protection and energy efficiency, as evidenced by holding an ISO 14001 certification since 1999, the annual results of energy audits and the efficiency indexes already achieved in comparison with the “Best Available Techniques Reference Document” of foundries in Europe.

In 2021 MTG initiated the Paris Agreement adherence program on climate change, to accompany our customers and end users in minimizing their carbon footprint.

MTG is now developing a Sustainability Plan taking a leap forward in its commitment to action and transparency, which periodically will be communicating objectives and the progress made, in order to share our achievements with the different stakeholders.



Committed to the community

The investment of more than 10% of the budget in environment and safety reaffirms MTG's commitment to the environment and society. Its execution also has a very positive impact on economic development and the generation of employment in the region.



SPECIALISTS IN WEARPARTS

Each application and site conditions require specific solutions to ensure safety, reliability, durability and the utmost performance in operating efficiency. To that end, both Product Engineering and Product Manufacturing are a key factor.



Product Engineering

Our premium positioning is the result of decades of experience, innovation and investigations. All products created by MTG have been conceived and developed with a customer-centric mindset and through a very strict process leveraging our engineering expertise with state-of-the-art tools.

Technical Services

MTG's Technical Services Team is responsible for technical trainings, on-site visits, product recommendations, bucket layouts, cutterheads and wearparts inspections, welding & rebuilding instructions, performance assessments, productivity and efficiency field comparisons, among other duties.



Product Manufacturing

Our own production plant, inaugurated in 2012, is one of the key pieces in MTG's commitment to quality and competitiveness in the wearparts market. The foundry, which is one of the most modern in Europe, is equipped with the most innovative technological facilities and various implementations of 4.0 industry.

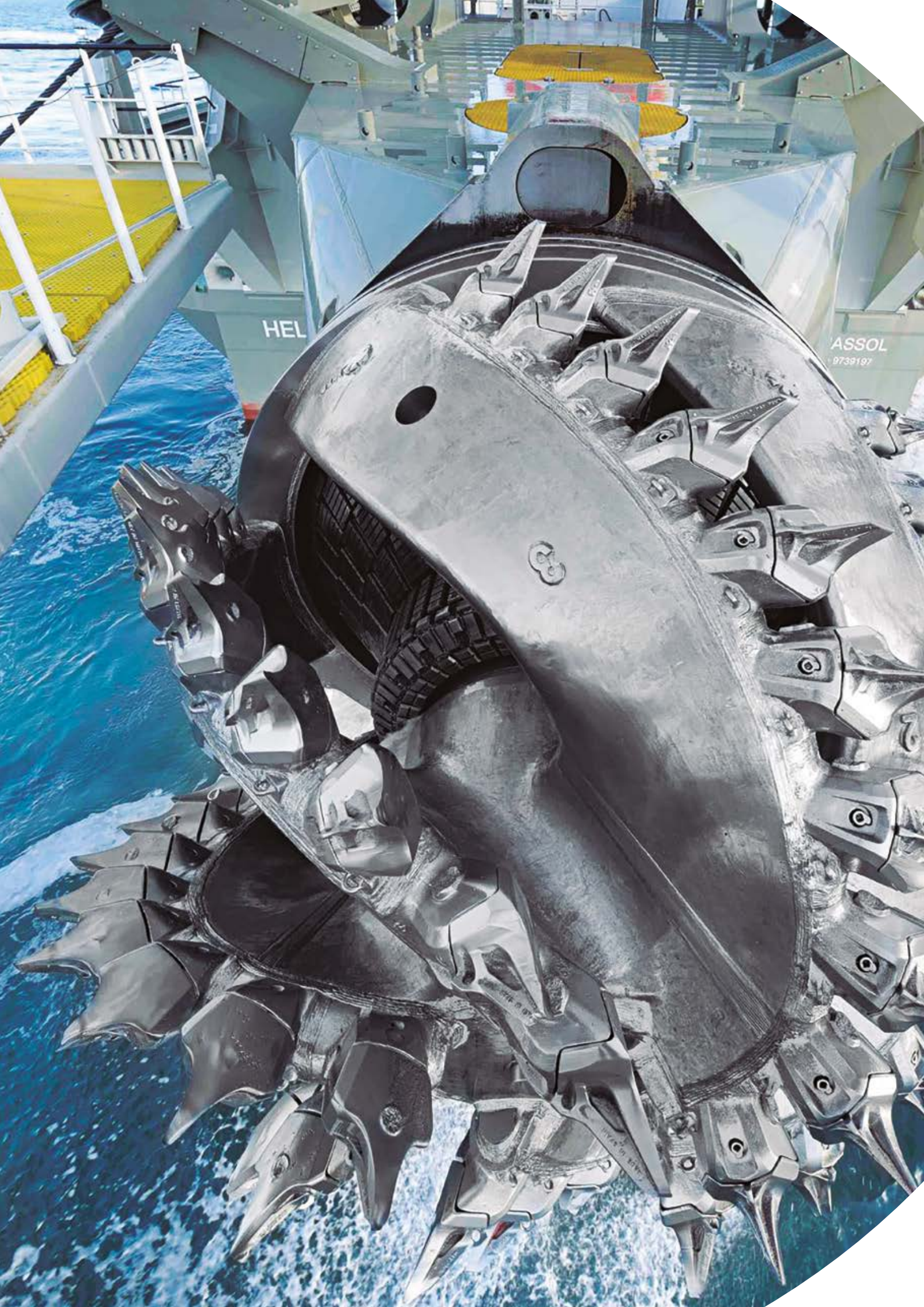
Cutterheads Manufacturing

We provide our customers with top-quality cutterheads, built with the latest technology and the most accurate welding processes supported by our expertise in steels and in producing premium wearparts. Our dimensional requirements are very precise and guaranteed by our state-of-the-art procedures and our strict quality controls.



OUR STEELS

Specially designed to resist the highest mechanical stresses in service, MTG steels maximise the hardness-toughness binomial thanks to their low level of impurities and the transformation achieved in our specific heat treatments.



HEL

ASSOL
8739197

OUR STRENGTHS, YOUR BENEFITS!

Our innovative cutterheads and systems optimize the performance of our customers' dredgers.

It is not what we say, but what our customers say about us.



HIGHER PRODUCTIVITY

At MTG we provide a wide range of customer-tailored cutterheads as well as wearparts systems for dragheads and buckets aiming to increase the production of dredged material. Each wearpart is specifically designed for each application, depending on the level of penetration, abrasion and impact required.



65+ YEARS INNOVATING

MTG's permanent commitment to innovation, both in product design and production technology, has been and is our best future strategy. Thanks to our long-term partnerships and close collaborations with our customers, we have been able to develop customized and innovative solutions according to the market specific needs for more than 65 years.



HIGH QUALITY & RELIABILITY

Produced in Europe, our steels are designed to withstand the highest levels of mechanical stress and have proved robustness and resistance, even in the most demanding applications. Our high standards along with exhaustive quality controls make us a trusted partner for the most powerful mega-dredgers on the market.














WORLDWIDE TECHNICAL SERVICE

Our customers count on a flexible and experienced team, giving technical assistance and support all over the world. Our specialized technical engineers help you to find the most suitable dredging wearparts based on the ground and working conditions.

DREDGING SOLUTIONS

For all types of dredgers and applications.

PRODUCT CATEGORY	PRODUCT FAMILY
<p>MTG CUTTERHEADS Cutterheads solutions for Cutter Suction Dredgers.</p>	 <p>MTG develops its own cutterheads, which are designed and tailored by our Engineering Team, using the most advanced CAD/CAM and prototyping technology, to meet our customers' specific needs.</p> <p>➔ p.22</p>
<p>MTG CAST LIPS Cast lip solutions for Backhoe Dredgers.</p>	 <p>TWINMET The most advanced and versatile cast lip option for standard to high performance applications.</p> <p>➔ p.30</p>
<p>MTG SYSTEMS Our most advanced tooth-adapter and shroud systems with intelligent lockings that provide a substantial added value to your dredging operations.</p>	 <p>DMET Hammerless tooth-adapter system specially designed for Cutter Suction Dredgers (CSD).</p> <p>➔ p.24</p>
	 <p>VEEMET for CSD Hammerless tooth-adapter system specially designed for medium & small CSDs working in sand & clay applications designed to maximize the penetration of your cutterheads enhancing their production.</p> <p>➔ p.26</p>
	 <p>TWINMET The 3-part tooth system for backhoe and grab dredgers offers maximum durability even for the toughest dredging conditions.</p> <p>➔ p.32</p>
	 <p>VEEMET The new generation of tooth system with improved stability, optimized locking, and enhanced penetration for dredging backhoes and clamshells.</p> <p>➔ p.36</p>
	 <p>PROMET Reliable bucket protection system for Backhoe Dredgers.</p> <p>➔ p.38</p>
	 <p>COMET The most advanced and fully hammerless solution for TSHD and small cutterheads.</p> <p>➔ p.42</p>
	 <p>KINGMET Robust and resistant teeth-adapter system that offers productivity and versatility for your TSHD.</p> <p>➔ p.44</p>
<p>MTG PLUS Complementary and direct replacement products made of our high-quality MTG steels.</p>	 <p>DREDGE HELILOK™</p> <p>➔ p.29</p>
	 <p>Complementary Shrouds Weld-on Lip, Wing and Heel Shrouds.</p> <p>➔ p.46</p>



CSD



BACKHOE DREDGER

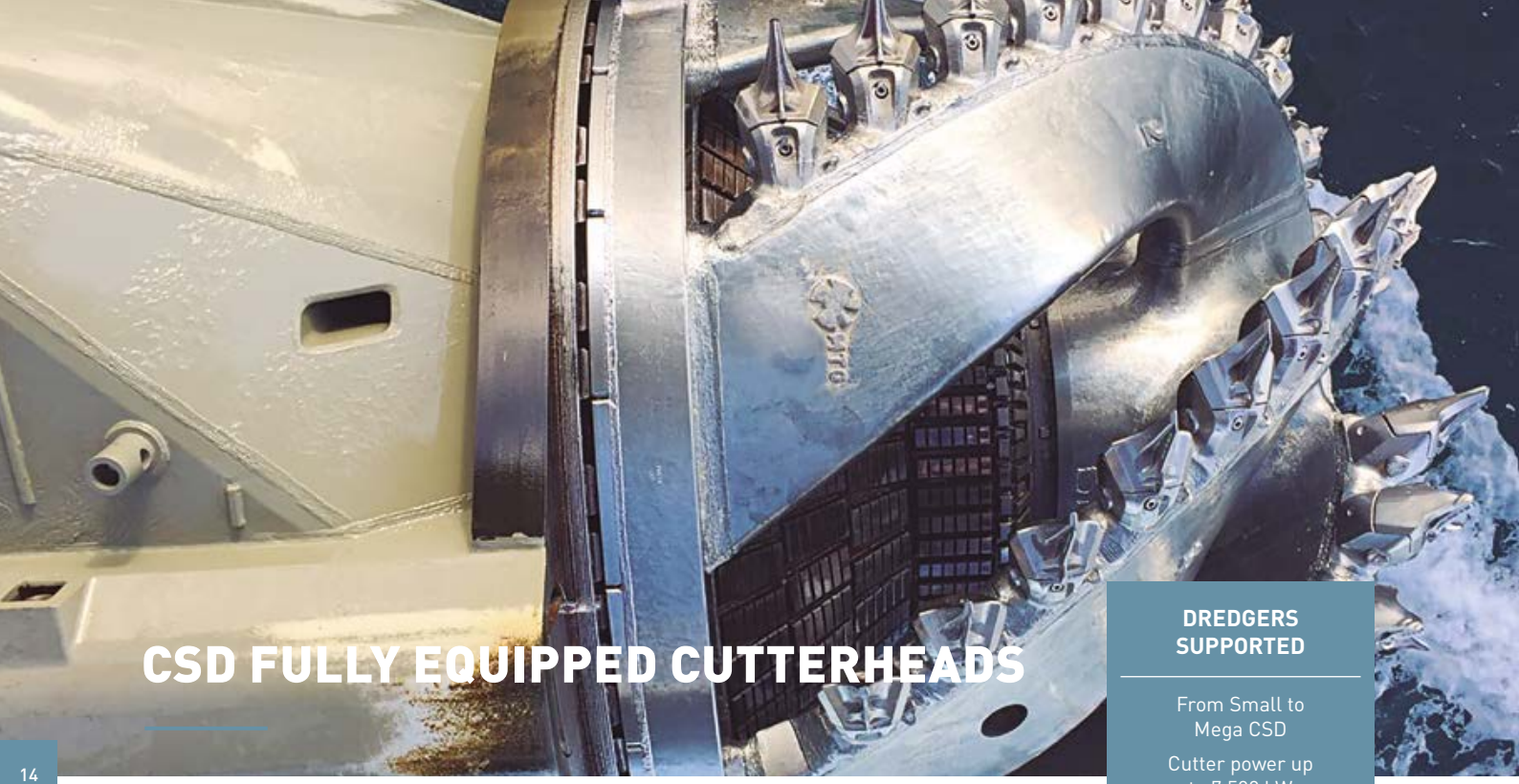


TSHD



GRAB DREDGER

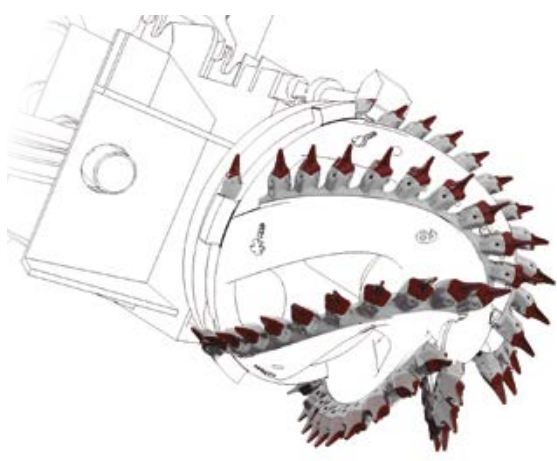
	CSD	BACKHOE DREDGER	TSHD	GRAB DREDGER
	●			
		●		
	●			
	●			
		●		●
		●		●
		●		
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CSD FULLY EQUIPPED CUTTERHEADS

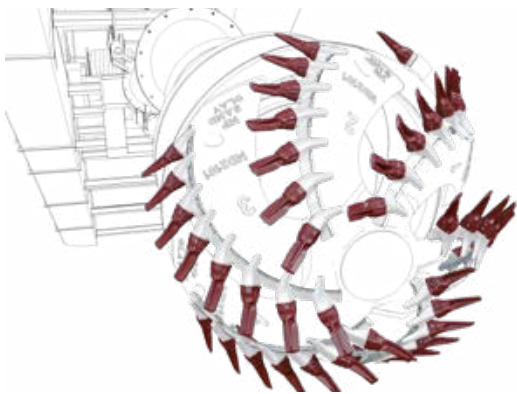
DREDGERS SUPPORTED

From Small to Mega CSD
Cutter power up to 7.500 kW



MTG CUTTERHEADS + DMET

The most advanced and customer-tailored cutterhead option for CSD high performance applications, along with our versatile hammerless tooth-adapter system.



MTG CUTTERHEADS + VEEMET CSD

The customer-tailored cutterhead option combined with the new hammerless tooth-adapter system is specifically designed for small CSD.

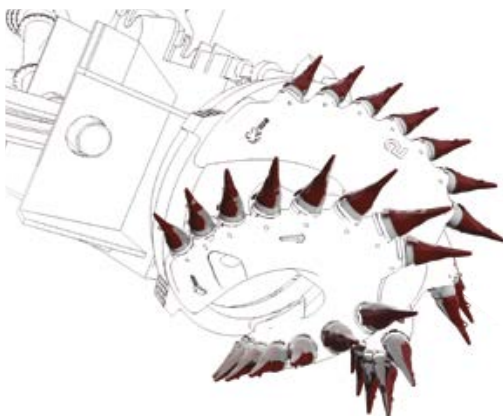
MTG CUTTERHEADS
↗ p.22

MTG SYSTEMS
DMET ↗ p.24 VEEMET CSD ↗ p.26



MTG CUTTERHEADS + COMET

The customer-tailored cutterhead options combined with our hammerless COMET solution for the smallest CSD.



MTG CUTTERHEADS + PLUS

Try our robust and high quality alternative cutterhead option in combination with our reliable tooth-adapter system and the results will convince you to shift to more MTG products.

MTG CUTTERHEADS
↗ p.22

MTG SYSTEMS
COMET ↗ p.42

MTG PLUS
↗ p.29

CSD TOOTH-ADAPTER SYSTEMS

**DREDGERS
SUPPORTED**

From Small to
Mega CSD
Cutter power up
to 7.500 kW



DMET

Your best hammerless option to convert your existing cutterheads working in high performance applications, reducing downtimes and increasing safety.



VEEMET for CSD

The innovative and versatile cap-system for CSDs has been specially designed to maximize the penetration of your cutterheads enhancing their production.

MTG SYSTEMS

DMET ↗ p.24 VEEMET CSD ↗ p.26



COMET for CSD

The customer-tailored cutterhead options combined with our hammerless COMET solution for the smallest CSD.



PLUS

Try our alternative reliable tooth-adapter system in your cutterheads and the results will convince you to shift to more MTG products.

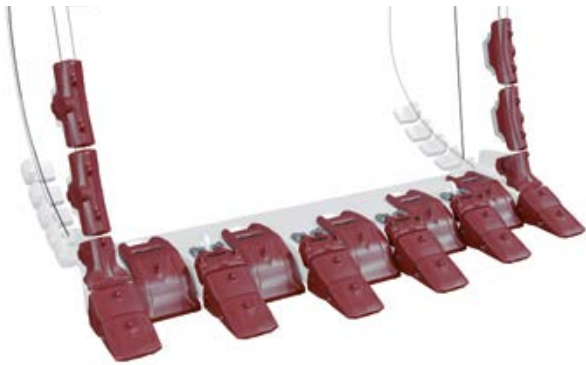
MTG SYSTEMS
COMET → p.42

MTG PLUS
→ p.29

BACKHOE DREDGER CAST LIPS

DREDGERS SUPPORTED

From Small to
Mega Backhoe Dredgers
Installed Power
up to 4.400 kW



TWINMET + PROMET + PLUS

The most advanced and versatile Cast Lip option, from standard to high performance applications, in combination with a robust tooth and easy to assemble shroud systems.



TWINMET Retrofit

Try our robust 3-part tooth system as a retrofit option and the results will convince you to shift to MTG cast lips.

MTG CAST LIPS
TWINMET ↗ p.30

MTG SYSTEMS
TWINMET ↗ p.32 PROMET ↗ p.38

MTG PLUS
↗ p.29

BACKHOE DREDGER PLATE LIPS

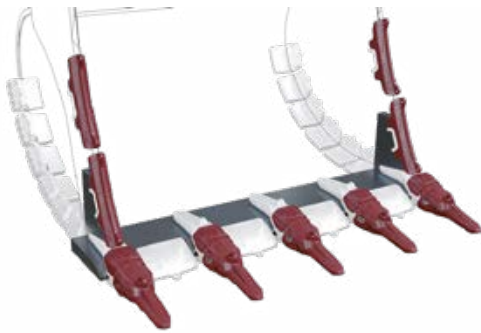
DREDGERS SUPPORTED

From Small to Mega Backhoe Dredgers
Installed Power up to 4.400 kW



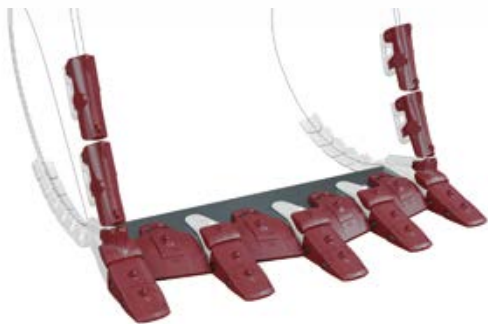
VEEMET + PROMET + PLUS

Your best hammerless option for high performance Backhoe Dredger applications with a versatile tooth system and easy to assemble shrouds.



VEEMET + PROMET + PLUS

Your choice if you like to combine our versatile tooth system with flexible, weld-on lip shrouds.



TWINMET + PROMET + PLUS

For your bigger Backhoe Dredgers, we recommend our robust 3-part tooth system in combination with easy to assemble shrouds.

MTG SYSTEMS

TWINMET → p.32 VEEMET → p.36 PROMET → p.38

MTG PLUS

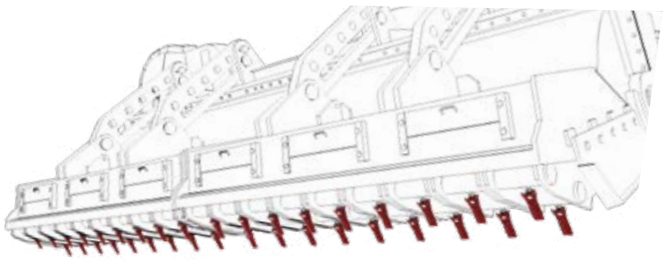
→ p.29



TSHD TOOTH-ADAPTER SYSTEMS

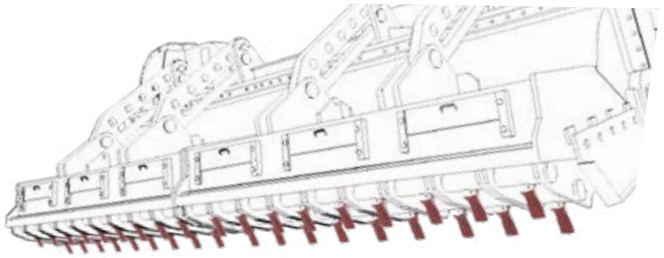
DREDGERS SUPPORTED

From Small to Mega TSHDs
All hopper capacities



COMET

The most advanced and fully hammerless solution for TSHD.



KINGMET

Our versatile tooth system for dragheads allows you to choose from its wide range of designs according to the terrain.

MTG SYSTEMS

COMET ↗ p.42 KINGMET ↗ p.44



GRAB DREDGER TOOTH-ADAPTER SYSTEMS

DREDGERS SUPPORTED

From Small to Mega
Grab Dredgers
All bucket sizes
until 200 m³



VEEMET

Your best option for high performance applications with the penetrating teeth range of our hammerless system which reduces downtimes and increases safety of your Grab Dredger / Clamshell Dredger.



TWINMET

For your larger buckets, we recommend our robust and penetrating 3-part hammerless system which reduces downtimes and increases safety of your Grab Dredger / Clamshell Dredger.

MTG SYSTEMS

TWINMET → p.32 VEEMET → p.36

CUTTERHEADS SOLUTIONS



HIGH PERFORMANCE

We pay special attention to **high-quality design and manufacturing** of our cutterheads as they largely define the performance of the dredger and we want our customers to have the optimal one.



TAILOR-MADE SOLUTIONS

We customize each cutterhead according to our customers' specific needs taking into account the application, the dredger specifications and the project requirements.



SPECIALIZED TEAM

At MTG we offer worldwide **technical services for cutterheads**, both on-site and in our facilities, which have the latest technology. Our customers can also benefit from dedicated **training from our engineers**.



PREMIUM STEELS

MTG Steels are specifically designed to **withstand the highest levels of mechanical stress** when operated. Our long tradition in the production of high quality steels along with the support of leading international experts allow us to meet the specific needs of our customers.





MTG CUTTERHEADS



FOR ROCK TERRAINS

Equipped with **MTG SYSTEMS / DMET**
Tube adapters

N° of Arms:
from 5 to 8
Terrain:
soft to very strong rock



FOR ROCK TERRAINS

Equipped with **MTG PLUS**

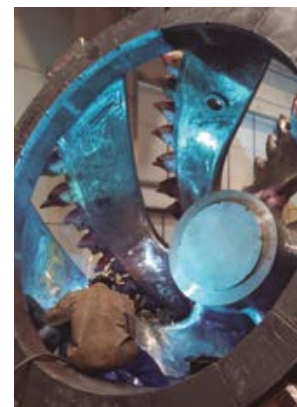
N° of Arms:
from 5 to 6
Terrain:
soft to very strong rock



FOR SAND & CLAY TERRAINS

Equipped with **MTG SYSTEMS / DMET**
Wing adapters

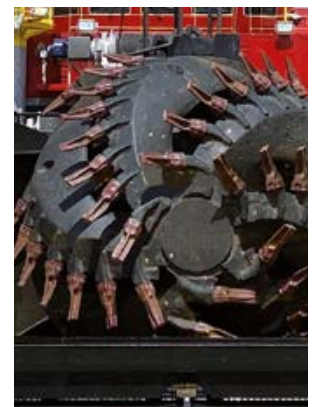
N° of Arms:
from 5 to 6
Terrain:
sand and clay



FOR SAND & CLAY TERRAINS

Equipped with **MTG SYSTEMS / VEEMET CSD**
Wing adapters

N° of Arms:
from 5 to 6
Terrain:
sand & clay + multipurpose



DMET TOOTH-ADAPTER SYSTEM



The hammerless tooth-adapter system DMET has been specially designed to increase the productivity of your Cutter Suction Dredger.

The most powerful mega-dredgers on the market are already equipped with DMET.

Benefits and Features



GREATER DURABILITY

The **self-sharpening** tooth design combined with an increased wear material ratio offer the most efficient solution. The **tooth deflectors** protect the adapters from wear and extend their wear life, avoiding the need for adapters additional protection, like chocky bars or hard facing.



MAXIMUM RELIABILITY

The **stabilization** in all load directions guarantees the reliability of the entire system. The tooth-adapter contact surfaces are orientated according to the direction of the main forces, allowing **better load distribution**.



SAFE & QUICK MAINTENANCE

The **hammerless locking solution** makes tooth assembly and disassembly easier, safer and faster for the operators, reducing the machine's downtime. The **vertical position of the pin** facilitates the access to it and avoids pin loss during tooth replacement.



HIGHER PRODUCTIVITY

The **smooth system design** allows material to flow towards the inside of the cutterhead, increasing its suction efficiency and productivity. The **optimal functioning** of the system reduces the vibrations of the dredger while the increase of the tooth wear material and the durability of the adapters reduce the cost/m³.



Tooth Designs

A range of 4 tooth designs and 3 sizes are available within the DMET product family. We help you to choose the right combination of design and size to achieve the maximum productivity for your cutterhead and dredger.



**CHISEL
(C)**



**FLARED
(F)**



**WIDE FLARED
(FX)**



**SHORT PICK POINT
(P)**



**LONG PICK POINT
(PX)**

Adapter Designs

We have developed 3 designs available in 3 sizes for left or right rotation:



**TUBE
(TBL / TBR)**

The Tube Design TBL (for left rotation) or TBR (for right rotation) designed for rock terrain.



**WING
(WIL / WIR)**

The Wing Design WIL (for left rotation) or WIR (for right rotation) designed for sand & clay terrain.



**WELD-ON
(WNL / WNR)**

The Weld-On Design WNL (for left rotation) or WNR (for right rotation) for backring.

THE NEW HAMMERLESS SYSTEM FOR SMALL CUTTER DREDGERS



Hammerless tooth-adapter system specially designed for medium & small CSDs working in sand & clay applications designed to maximize the penetration of your cutterheads enhancing their production.

Benefits and Features



HIGHER PRODUCTIVITY

The narrow tooth-adapter set design provides the utmost efficient solution for penetration applications.



MAXIMUM RELIABILITY

Adapter's smooth shapes extend its fatigue life. The adapter's large contact surfaces with the tooth give a better load distribution and a minimal load transmission to the pin.



SAFE, EASY AND QUICK MAINTENANCE

The hammerless locking system facilitates the tooth changeout by means of a simple "push & lock" for mounting and a standard ratchet wrench for dismounting. Interferences during the mounting are avoided thanks to the capability of the pin to be assembled from both sides of the tooth.



OPTIMAL PERFORMANCE

The locking incorporates a tensioning element to keep the tooth tightened and minimize nose damage.



Tooth and Adapter Designs



**CHISEL
(C)**



**FLARED
(F)**



**FLARED
(FX)**



**WING
(WIR)**



**WELD-ON
(WN)**

TERRAIN	SAND & CLAY
CSD CUTTERPOWER	≤ 1.500 kW

Combine it with our MTG CUTTERHEADS!

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

TESTIMONIALS
↗ p.55



MTG CUTTERHEADS
equipped with
MTG SYSTEMS
DMET ↗ p.24



MTG PLUS

Our high-quality wearparts manufactured in Europe are made of extremely wear resistant steel, which leads to a longer service life.

Direct Replacement Teeth for Your CSD

Try our alternative reliable teeth in your cutterheads and the results will convince you to shift to more MTG products.



DREDGE HELILOK*

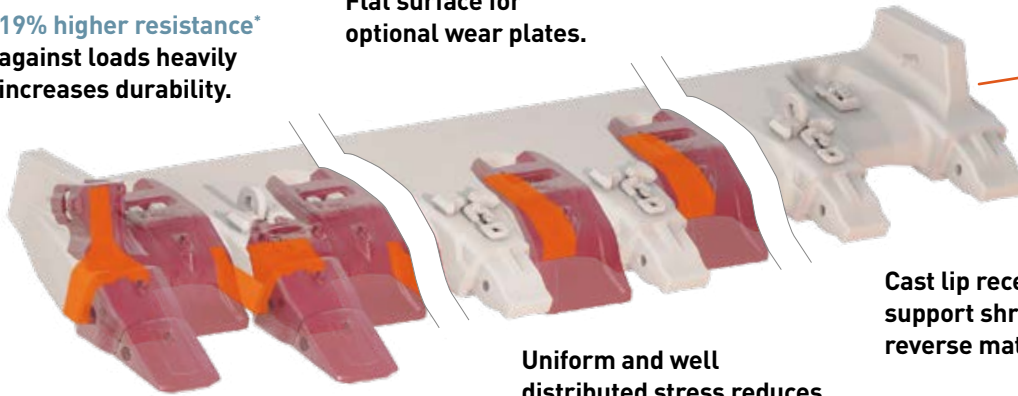


CAST LIP SOLUTIONS

19% higher resistance* against loads heavily increases durability.

Flat surface for optional wear plates.

4% slimmer and 5% lighter design* without compromising robustness.



Cast lip recess areas support shrouds from reverse material flow.

Uniform and well distributed stress reduces plastic deformation and need of maintenance.

Cast lip specific GET wear packages for optimal protection and digging efficiency.

*Benchmark data of CAST LIPS / TWINMET vs. main competitors.



Watch our 3D Video Animation!
TWINMET + PROMET

Benefits and Features



HIGHER PRODUCTIVITY

The **slim cast lip design** along with the cast lip specific and self-sharpening wearparts equipment, guarantees a steady penetration throughout their wear life.



REDUCED OPERATIONAL COSTS

The **optimized design** allows better distribution of the wear material. As a result, the **weight reduction** provides proven fuel and cost savings.



LONGER OPERATIONAL TIME

Large contact areas and **smooth transitions** for lip shrouds reduce plastic deformation at critical areas, preventing the generation of cracks.



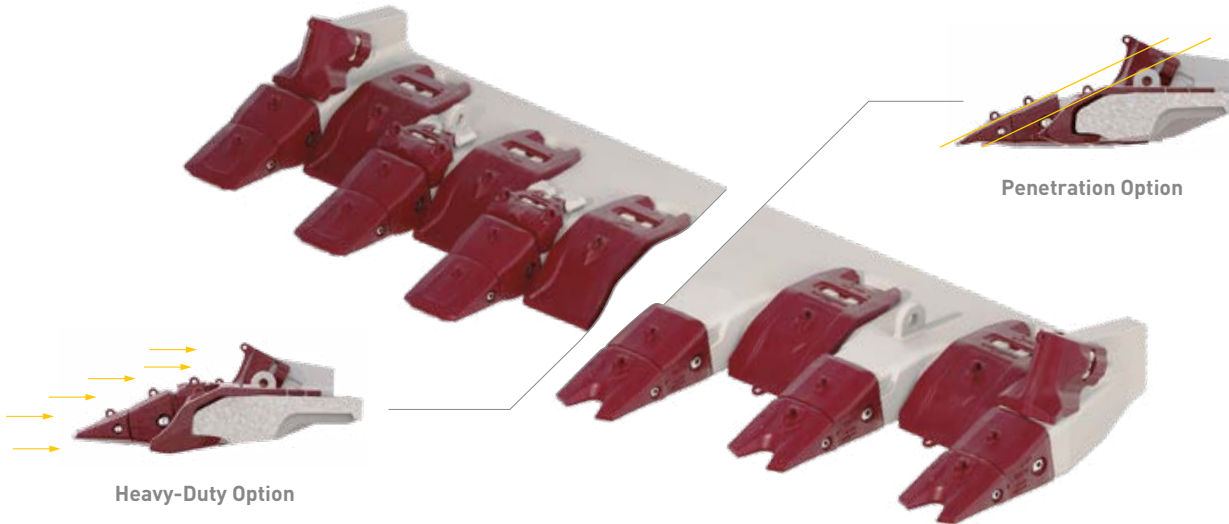
SHORT DOWNTIMES

Critical cast lip areas are optimally protected by **MTG's specific wearparts** to increase the cast lip's wear life thus reducing rebuild needs.



Cast Lip Wear Packages

TWINMET Tooth System + PROMET Shrouds



With the TWINMET tooth system and PROMET shroud options, MTG offers cast lip specific wear packages that provide the most efficient bucket protection contributing to your productivity goals and saving costs.

Depending on your digging conditions, the cast lip wear package can be optimized for penetration or heavy-duty applications. Customize the cast lip choosing between various tooth, intermediate and lip shroud designs.

TWINMET Cast Lip Range Overview

SIZE	INSIDE BUCKET WIDTH	REFERENCE	NUMBER OF POSITIONS	MACHINE CATEGORY
TM1	116" / 2.950 mm	1MT1CL116	5	250-400 t
TM1	122" / 3.100 mm	1MT1CL122	5	250-400 t
TM1	136" / 3.450 mm	1MT1CL136	5	250-400 t
TM1	140" / 3.560 mm	1MT1CL140	6	250-400 t
TM1	144" / 3.650 mm	1MT1CL144	6	250-400 t
TM3	148" / 3.760 mm	1MT3CL148	5	350 - 500 t
TM5/4 TM5/6	148" / 3.760 mm	1MT5CL148	5	450-700 t
TM5/4 TM5/6	163" / 4.150 mm	1MT5CL163	5	450-700 t
TM5/4 TM5/6	169" / 4.300 mm	1MT5CL169	6	450-700 t
TM5/4 TM5/6	185" / 4.700 mm	1MT5CL185	6	450-700 t
TM5/4 TM5/6	201" / 5.100 mm	1MT5CL201	6	450-700 t
TM7/4 TM7/6	169" / 4.300 mm	1MT7CL169	5	650-1.000 t
TM7/4 TM7/6	201" / 5.100 mm	1MT7CL201	6	650-1.000 t

TWINMET TOOTH SYSTEM FOR CAST LIPS



TWINMET 1, 3, 5 & 7

Either as a 2 part or 3 part tooth system, TWINMET stands for high performance and is the optimal solution for toughest dredging applications in combination with a cast lip. A wide range with different size options provides solutions for Backhoe and Grab Dredgers.

TWINMET Retrofit

Try our robust tooth system as retrofit option for cast lip buckets.

Benefits and Features



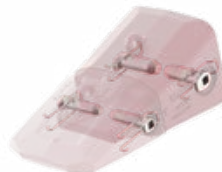
MAXIMUM RELIABILITY

A reinforced nose and fitting design as well as large stabilization surfaces provide maximum **robustness and resistance** to heaviest loads and impacts.



REDUCED OPERATIONAL COSTS

The **symmetrical design** allows to reverse intermediate adapters and teeth. Flipping them extends their wear life.



SHORT AND SAFE DOWNTIMES

A **hammerless dual pin locking system** joins all three parts to one high performance tooth system and allows a quick and safe maintenance in any working conditions.



HIGHER PRODUCTIVITY

The **self-sharpening designs** allow our wearparts a high degree of penetration during all their wear life, keeping your dredger's high performance and reducing the operating costs.



Find Your Tooth Design

SIZE	TWINMET 1			TWINMET 5 & 7				
TOOTH DESIGN								
	EXTRA (E)	EXTRA X (EX)	VECTOR (V)	EXTRA X (EX)	IMPACT (I)	PENETRATION (P)	UNIVERSAL (U)	DOUBLE VECTOR (W)
PENETRATION	●●○	●●○	●●●	●●○	●●●	●●○	●●○	●●●
ABRASION	●●○	●●●	●○○	●●●	●○○	●●○	●●○	●○○
IMPACT	●●○○	●●●○	●○○○	●●●○	●●●●	●●○○	●●○○	●●○○

Choose Your Intermediate Adapter

MTG offers two variants of intermediate adapters: Standard (STD) and Heavy-Duty (HD). While the Standard version is more suitable for terrains that require high penetration, the heavy-duty option provides more resistance in terrains with high level of abrasion and impacts.



STD

HD

Tooth Range for CAST LIPS / TWINMET

TWINMET SIZES		TEETH	TOOTH LOCKING		INTERMEDIATE ADAPTER	INTERMEDIATE LOCKING		WELD-ON NOSE	REMOVAL TOOL
			PIN	RETAINER ⁴		PIN	RETAINER ⁴		
TM1	TM1	MT1E MT1EX MT1PR MT1V	2MT1P 2MT1PSE	2MJ1 STR	-	-	-	1MT1WN	3MT34-1
	TM2	MT2EX MT2U MT2W	2MT2PSE	2MJ2 STR	5MT32	-	-	1MT3WN	
TM3/2	TM3	-	-	-		2MT3P 2MT3PSE	2MJ3 STR	-	-
TM 5/4	TM4	MT4EX MT4I MT4P MT4U MT4W	2MT4P 2MT4PSE	2MJ4 STR	5MT54 5MT54X 5MT56 ¹	-	-	-	3MT1
	TM5	MT5U ³	-	-		2MT5P 2MT5PSE	2MJ5 STR	1MT5WN 1MT5WN-H	
TM 7/6	TM6	MT6EX MT6P MT6U MT6W	2MT4P 2MT4PSE	2MJ4 STR	5MT7 ² 5MT76 5MT76X	-	-	-	
	TM7	-	-	-		2MT5P 2MT5PSE	2MJ5 STR	1MT7WN	

¹ TWINMET 5/6 consists of an intermediate adapter that combines tooth size 6 with nose size 5.

² TWINMET 7/4 consists of an intermediate adapter that combines tooth size 4 with nose size 7.

³ MT5U is a solid tooth that does not require an intermediate adapter.

⁴ Retainer included in tooth and intermediate adapter but can also be ordered separately.

TWINMET TOOTH SYSTEM FOR PLATE LIPS



TWINMET 1

The 2-part tooth-adapter system is especially designed for smaller Backhoe and Grab Dredgers with a plate lip thickness of 140 mm.



TWINMET 3/2

The 3-part tooth-adapter system offers robustness and long wear life for Backhoe and Grab Dredgers with a plate lip thickness of 140 or 160 mm.

Benefits and Features



MAXIMUM RELIABILITY

A reinforced nose and fitting design as well as large stabilization surfaces provide maximum **robustness and resistance** to heaviest loads and impacts.



REDUCED OPERATIONAL COSTS

The **symmetrical design** allows to reverse intermediate adapters and teeth. Flipping them extends their wear life.



SHORT AND SAFE DOWNTIMES

A **hammerless dual pin locking system** joins all three parts to one high performance tooth system and allows a quick and safe maintenance in any working conditions.



HIGHER PRODUCTIVITY

The **self-sharpening designs** allow our wearparts a high degree of penetration during all their wear life, keeping your dredger's high performance and reducing the operating costs.



Find Your Tooth Design

SIZE	TWINMET 1				TWINMET 3/2			
TOOTH DESIGN								
	EXTRA (E)	EXTRA X (EX)	VECTOR (V)	EXTRA X (EX)	IMPACT (I)	PENETRATION (P)	UNIVERSAL (U)	DOUBLE VECTOR (W)
PENETRATION	●●○	●○○	●●●	●○○	●●●	●●○	●○○	●●●
ABRASION	●●●	●●●	●○○	●●●	●○○	●●○	●○○	●○○
IMPACT	●●○○	●●●○	●○○○	●●●○	●●●●	●●○○	●●○○	●●○○

Choose Your Adapter Option

With the central (WC) and corner weld-on adapters (WL / WR) of size 1 and 3/2, TWINMET also becomes a solution for Backhoe and Grab Dredgers with plate lip. It is the perfect option for those who prefer a plate lip solution.



CENTRAL ADAPTER (WC)



CORNER ADAPTER (WL / WR)

Additional Wear Protection



CENTRAL & CORNER WEAR CAP (M / ML)



BOTTOM WEAR PLATE FOR CENTRAL ADAPTER (HD)



BOTTOM & LATERAL WEAR PLATE FOR CORNER ADAPTER (HD-B / HD-L)

TWINMET Range for Plate Lips

TWINMET SIZES		TEETH	TOOTH LOCKING		INTERMEDIATE ADAPTER	INTERMEDIATE LOCKING		PLATE LIP ADAPTERS	WELD-ON NOSE	REMOVAL TOOL
			PIN	RETAINER ¹		PIN	RETAINER ¹			
TM1	TM1	MT1E MT1EX MT1PR MT1V	2MT1P 2MT1PSE	2MJ1 STR	-	-	-	1MT1WC140 1MT1WL140 1MT1WR140	1MT1WN	3MT34-1
	TM2	MT2EX MT2U MT2W	2MT2P 2MT2PSE	2MJ2 STR	-	-	-	-	-	-
TM 3/2	TM3	-	-	-	5MT32	2MT3P 2MT3PSE	2MJ3 STR	1MT3WC140 1MT3WC160 1MT3WL160 1MT3WR160	1MT3WN	3MT34-1

¹ Retainer included in tooth and intermediate adapter but can also be ordered separately.

NEW VEEMET TOOTH SYSTEM

The new generation of tooth system with improved stability, optimized locking, and enhanced penetration.



Watch our 3D Video Animation!
NEW VEEMET SYSTEM



Benefits and Features



SHORT AND SAFE DOWNTIMES

An **optimized locking with reduced parts** allows a hammerless tooth **assembly in only 2 steps** providing an incomparable ease and safety to wearparts maintenance.



HIGHER PRODUCTIVITY

Longer grooves and slimmer teeth further improve the penetration capabilities of our **self-sharpening tooth designs** optimizing your dredging efficiency and reducing costs.



LONGER OPERATIONAL TIME

The **V-shaped fitting** and the **optimized locking with reinforced pin** provide a better stability that reduces plastic deformation and maximizes wear life.




OPTIMAL PERFORMANCE

New and improved tooth designs have been added to the **wide product range** providing a suitable wearparts solution for all sorts of applications.



Find Your Tooth Design

VEEMET								
TOOTH DESIGN	 DOUBLE VECTOR (W)	 EXTRA (E)	 EXTRA VECTOR (EV)	 EXTRA X (EX)	 FLARED (F)	 PENETRATION ROCK (PR)	 UNIVERSAL (U)	 VECTOR (V)
PENETRATION	●●●	●●○	●●●	●●○	●●○	●●○	●●○	●●○
ABRASION	●○○	●●●	●●●	●●●	●●●	●○○	●●○	●○○
IMPACT	●○○○	●●●○	●●○○	●●●○	●●○○	●●●●	●●○○	●○○○

Choose Your Adapter Option

We have different options available depending on the lip type of your bucket or clamshell. As abrasive and high impact applications require additional protection, add our slide-on wear cap to the adapter to extend its service life.



CENTRAL
(WC / WLD / WRD)



STRADDLE
(WS)



CORNER
(WL / WR)

Additional Wear Protection



CENTRAL WEAR CAP
(M)



STRADDLE & CORNER WEAR CAP
(MS / ML)



BOTTOM WEAR PLATE FOR CENTRAL ADAPTER
(HD)



BOTTOM & LATERAL WEAR PLATE FOR CORNER ADAPTER
(HD-B / HD-L)

PROMET LIP SHROUDS

Lip protection solutions for different dredging applications with a reliable hammerless locking.

Benefits and Features



MAXIMUM RELIABILITY

Our premium steels made in Europe have proved **robustness and resistance**, even in the most demanding applications.



LONGER OPERATIONAL TIME

Due to the **optimal wear material ratio and wear distribution** of our protectors' designs, they last longer, reducing the operating costs.



SHORT AND SAFE DOWNTIMES

Our innovative and easy-to-use **hammerless lockings** enhance the safety and efficiency of your operations, with shorter downtimes.



INCREASED PRODUCTIVITY

The range of **self-sharpening** lip and wing shrouds boosts the bucket efficiency while the **optimal protection** increases its capacity volume.

Lip Shrouds for Plate Lips

PROMET shrouds for plate lips are available in central or left / right delta designs.





Lip Shrouds for Cast Lips

Especially designed for the TWINMET cast lip range, the PROMET lip shrouds optimally protect the cast lip to increase wear life thus reducing rebuild needs. Different lip shroud designs are available that either contribute to a better penetration or are especially designed for heavy-duty applications that provide more resistance against impacts and abrasion.



PROMET WING SHROUDS

Wing protection solutions for different dredging applications with a reliable hammerless locking.

Benefits and Features



MAXIMUM RELIABILITY

Our premium steels made in Europe have proved **robustness and resistance**, even in the most demanding applications.



LONGER OPERATIONAL TIME

Due to the **optimal wear material ratio and wear distribution** of our protectors' designs, they last longer, reducing the operating costs.



SHORT AND SAFE DOWNTIMES

Our innovative and easy-to-use **hammerless lockings** enhance the safety and efficiency of your operations, with shorter downtimes.

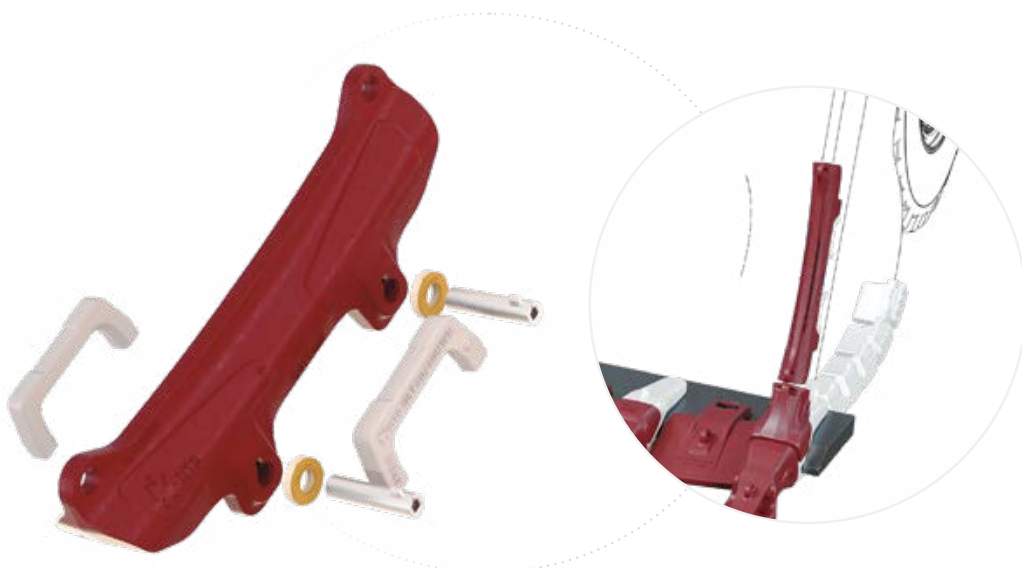


INCREASED PRODUCTIVITY

The range of **self-sharpening** lip and wing shrouds boosts the bucket efficiency while the **optimal protection** increases its capacity volume.

U Wing Shroud (≤60 mm)

Reversible wing shroud design with 70% wear material ratio for standard application and for side wall thicknesses up to 60mm. The PROMET II locking based on pin and retainer provides maximum reliability and offers quick and safe change-outs.





UX Wing Shroud (60-140 mm)

The extremely robust design with 70% wear material ratio is ideal for heavy-duty applications and especially resistant in very abrasive soils. The PROMET II locking based on pin and retainer provides maximum reliability and offers quick and safe change-outs.



UX-S Wing Shroud (40-140 mm)

The UX-S wing shrouds are especially designed for bigger buckets with a sidewall thickness of 40 to 140 mm. The robust and symmetrical design provides maximum resistance in heavy-duty applications and can be exchanged between both sides for longer wear life.

The innovative PROMET III locking system does not require sidewall holes. The weld-on base + locking in combination with weld-on stoppers provide maximum reliability while also allowing quick change-outs.



COMET TOOTH SYSTEM

100% hammerless



The most advanced and fully hammerless solution for TSHD and small cutterheads.

Benefits and Features



SHORT AND SAFE DOWNTIMES

Thanks to the **fully hammerless locking**, tooth change-outs are quick and safe in only **two easy assembly steps**. It is intuitive and an elastomer retainer with flap retention prevents tooth loss.



HIGHER PRODUCTIVITY

The **self-sharpening tooth designs** offer a high level of penetration throughout their wear life and the **reversible teeth** allow an even longer-lasting digging performance.



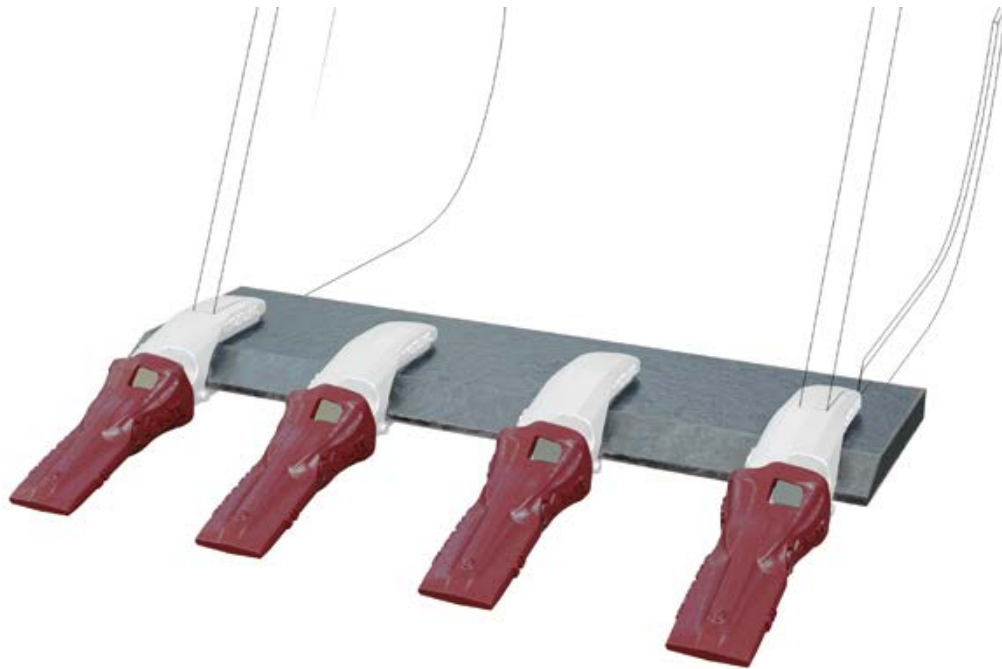
LONGER OPERATIONAL TIME

The system has been designed to **optimally protect adapter, locking and welding seams** from wear caused by material flow. This makes it more resistant and increases wear life.








MAXIMUM RELIABILITY

A **30% larger nose contact area** provides more tooth-adapter stability and results in less plastic deformation while also increasing the wear life of the adapter.



Watch our 3D Video Animation!
NEW COMET SYSTEM

Find Your Tooth Design

COMET					
TOOTH DESIGN					
	FLARED (F)	LONG (L)	UNIVERSAL (U)	VECTOR (V)	DOUBLE VECTOR (W)
PENETRATION	●●○	●●○	●●○	●●●	●●●
ABRASION	●●○	●●○	●●○	●○○	●●○
IMPACT	●●○○	●●●○	●●○○	●○○○	●○○○

Choose Your Adapter



CENTRAL (WC)



UNIVERSAL (UC)



FLUSH (FC)

KINGMET TOOTH-ADAPTER SYSTEM



Our field-proven and robust KINGMET features a conventional vertical locking system that is easy to insert and remove. This versatile tooth system for dragheads allows you to choose among its wide range of designs according to the terrain.

Benefits and Features



MAXIMUM RELIABILITY

Our premium steels made in Europe have proved **robustness and resistance**, even in the most demanding applications.



INCREASED PRODUCTIVITY

Our **self-sharpening** designs offer a high level of penetration throughout their wear life, improving your dredger's performance.



LONGER OPERATIONAL TIME

Due to the **optimal wear ratio** and wear distribution of our tooth designs, they last longer, reducing your operating costs.












OPTIMAL PERFORMANCE

Thanks to our **wide product range**, we are able to offer you a specific tooth design depending on the level of penetration, abrasion and impact required.



Find Your Tooth Design

Each application and site conditions require a specific tooth profile to ensure the best performance throughout the whole wear life of the tooth. Our wide range of tooth designs offers suitable options according to the existing level of penetration, abrasion and impact. Our self-sharpening tooth profiles have an optimal wear material distribution that makes them last longer.

KINGMET									
TOOTH DESIGN									
	EXTRA (E)	FLARED (F)	HEAVY (H)	IMPACT (I)	LONG (L)	STANDARD (S)	UNIVERSAL (U)	VECTOR (V)	DOUBLE VECTOR (W)
PENETRATION	●●○	●●○	●○○	●○○	●●○	●●○	●●○	●●●	●●●
ABRASION	●●○	●●○	●●●	●○○	●●○	●●○	●●○	●○○	●○○
IMPACT	●○○○	●○○○	●○○○	●●●●	●●●○	●●○○	●●○○	●○○○	●●○○

Choose Your Adapter Option

Find the adapter option that best suits your needs depending on your application.



**FLUSH ADAPTER
(FC)**



**WELD-ON ADAPTER
(WS)**



**WELD-ON NOSE
(WN)**



COMPLEMENTARY SHROUDS

We offer lip, wing and heel shrouds for Backhoes.



WELD-ON LIP SHROUDS

Suitable for plate lip with versions for central or delta left / right lip positions.



WELD-ON WING SHROUDS

Lateral weld-on protectors as standard or heavy-duty option for plate lip.



WELD-ON HEEL SHROUDS

Complementary bucket protection for Backhoe Dredgers.



Bucket equipped with

MTG SYSTEMS

VEEMET → p.36

PROMET → p.38



Customer:
Royal Boskalis Westminster N.V.

Country:
United Arab Emirates

Terrain:
Rock

Abrasion level:
Medium

Impact level:
Medium

Dredger

Type: **CSD**
Model: **Cutter Dredger Taurus**

Cutterhead Configuration

DMET: **1MD7ATBR**
MD7AP4

Results

1. High reliability and maximum productivity.
2. Fewer stops for maintenance.
3. Optimum cutterhead penetration.





Customer:
Jan De Nul Group

Country:
Panama

Terrain:
Rock

Abrasion level:
High

Impact level:
Medium

Dredger

Type: **CSD**
 Model: **Cutter Suction Dredger Niccolo Machiavelli**

Cutterhead Configuration

MTG PLUS HELILOK*: **1MSV68SR**
MSV68P

Results

- Exceptional results and quality wearparts.
1. Resistant wearparts with good penetration.
 2. Excellent performance of the cutterhead.





Customer:
Royal Boskalis Westminster N.V.

Country:
Qatar

Terrain:
Limestone

Abrasion level:
Very high

Impact level:
Very high

Dredger

Type: **CSD**
Model: **Cutter Dredgers Taurus & Phoenix**

Cutterhead Configuration

DMET: **1MD7ATBR**
MD7AP4

Results

"MTG's products offer maximum reliability and increased the productivity."





Customer:
Weeks Marine

Country:
USA - Belle Chase, New Orleans

Terrain:
Sand with some clay

Abrasion level:
Low

Impact level:
Low

Dredger

Type: **CSD**
Model: **Cutter Suction Dredger J.S. Chartry**

Cutterhead Configuration

DMET: **1MD5ATBR**
MD5AF

Results

With the new cutterheads, the following improvements have been achieved:

- Resistance to impacts with anchors or submerged objects.
- The adapters suffer very slight wear thanks to tooth protection.
- Self-sharpening of the teeth, very penetrating profile all the way to the end.





Customer:
DEME Group

Country:
Singapore

Terrain:
Clay

Abrasion level:
Low

Impact level:
Medium

Dredger

Type: **Grab Dredger**

Clamshell Configuration

STARMET: **1MA500WN
MA500P**

Results

“Since using MTG SYSTEMS / STARMET teeth-adapter system the cutting process has been optimised, increasing savings and productivity.”





Customer:
DEME Group

Country:
Singapore

Terrain:
Hard rock

Abrasion level:
High

Impact level:
High

Dredger

Type: **Grab Dredger**
Model: **Clamshell Goshu with heavy duty bucket (136 m³)**

Clamshell Configuration

TWINMET: **1MT5WN
5MJ54
MT4U**

Results

“MTG has given an excellent service, from the study and proposal to the on-site monitoring during the installation and start-up of the grab works using TWINMET. With MTG SYSTEMS / TWINMET, we can work in the toughest areas, increasing the productivity and ensuring compliance with the deadlines of our project”. Technical Department, DIAP (Deme International Asia Pacific).





Customer:
Holland Marine Technologies BV

Country:
The Netherlands

Terrain:
Ocean Floor

Abrasion level:
Medium - High

Impact level:
High

Dredger

Type: **TSHD**
Model: **TSHD 5250 m³**

Draghead Configuration

KINGMET: **1MG20FC/MG20U**

Results

"We've perfectly solved our issue of variation in dredged-soil conditions with MTG SYSTEMS / KINGMET. KINGMET tooth's change is easy and it provides a durable and highly wear-resistant cutting solution. We really appreciate both efficient dredging operations and the quick response given by MTG service team." HollandMT Engineering Manager.





Country:
US

Terrain:
Clay

Abrasion level:
Low

Impact level:
Low

Dredger

Type: **CSD**

Cutterhead Configuration

VEEMET CSD: **1MDV1WIR
MDV1F**

Results

- Enhanced production with MTG SYSTEMS / VEEMET CSD
- The tooth-adapter system protects the cutterhead arms, minimizing the need for maintenance
- The teeth stay sharp during the whole life, enhancing the penetration and production.





mtgcorp.com



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MTG HEADQUARTERS

📍 Carrer d'Àvila, 45
08005 Barcelona (Spain)
☎ (+34) 93 741 70 00
✉ info@mtgcorp.com

MTG NORTH AMERICA

📍 4740 Consulate Plaza Drive
Houston, TX 77032 (USA)
☎ +1 (281) 872 1500
✉ info.na@mtgcorp.com

MTG AUSTRALIA

📍 16 – 18 Thorpe Close
Welshpool, WA, 6106 (AUS)
☎ +61 8 6248 6513
✉ info.au@mtgcorp.com

MTG Quality Certificates

