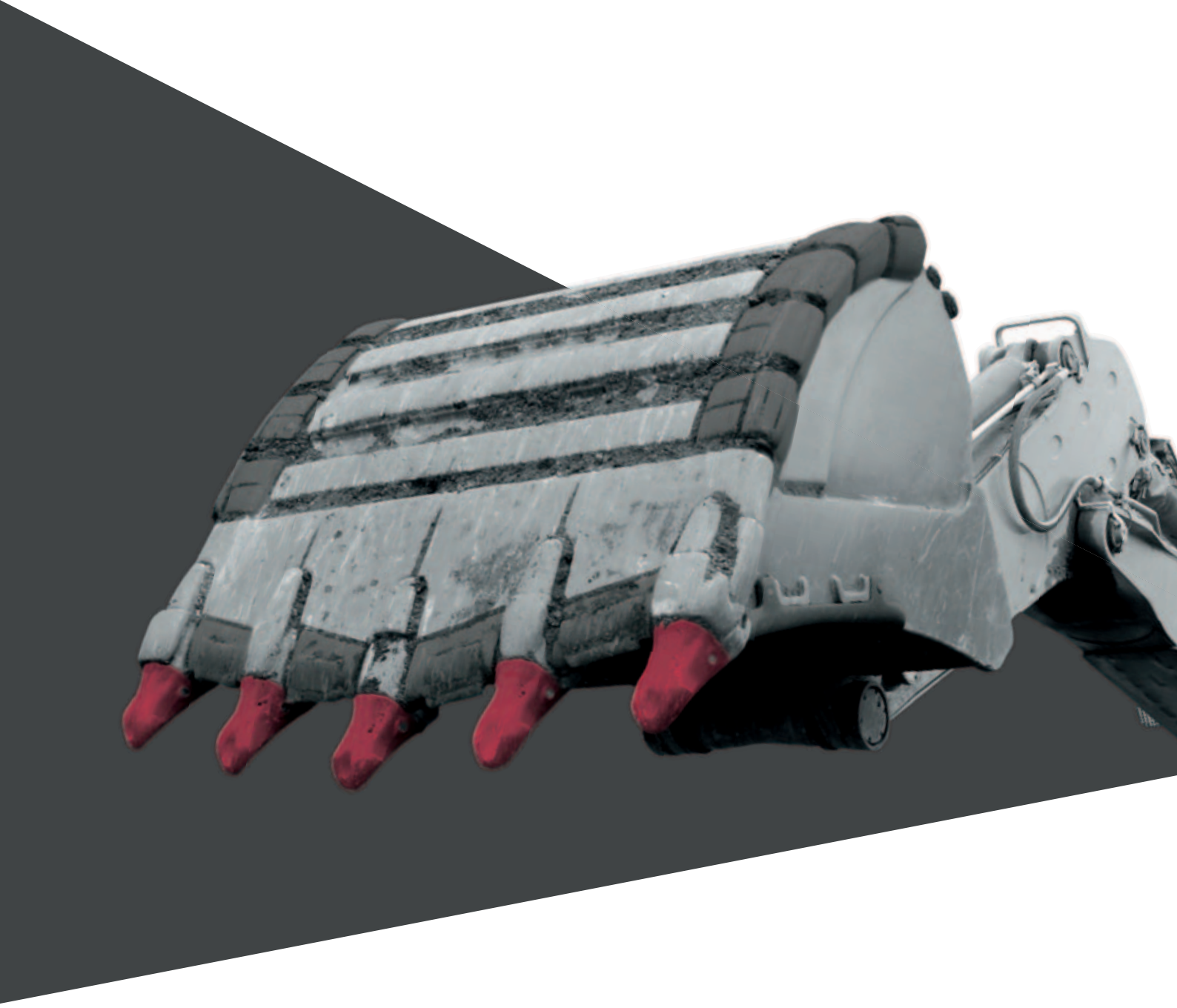


BROCHURE

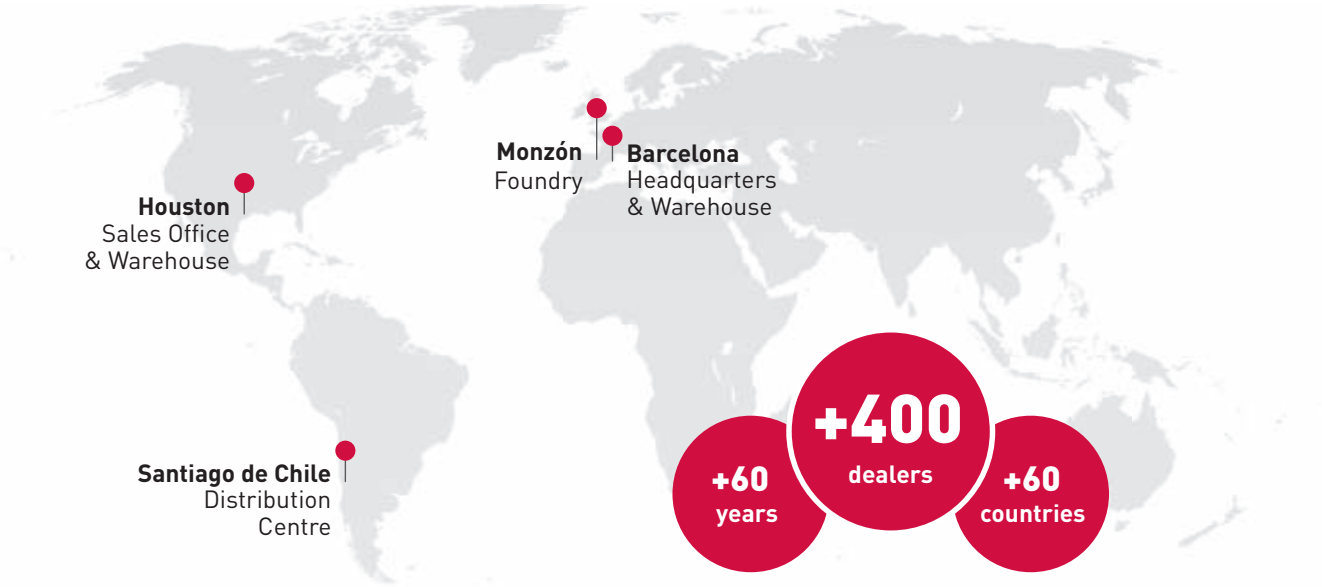
CONSTRUCTION SOLUTIONS

English Edition

MTG
No limits innovation

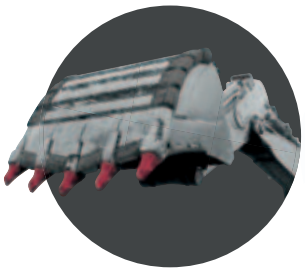
MTG IN NUMBERS

With more than 60 years experience, at MTG we are specialists in the design and manufacture of high quality ground engaging solutions in earth-moving machinery. Our distribution network of more than 400 dealers, based on long-term relationships, lets us operate in more than 60 countries all over the world.

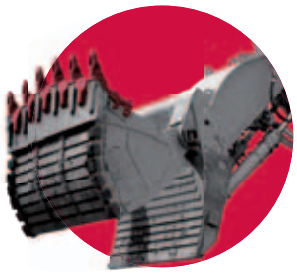


SOLUTIONS WE PROVIDE

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



CONSTRUCTION SOLUTIONS



MINING SOLUTIONS

DREDGING SOLUTIONS

OEM SOLUTIONS

INNOVATION: OUR COMPETITIVE ADVANTAGE

As one of MTG's core values, innovation has always been a key strategy for providing solutions with added value. According to our corporate claim "No limits innovation", MTG's in-house engineering teams and innovation cells continously challenge the present in terms of product design and production technology.

With a cross-cutting corporate culture and steady investments in innovation, MTG collaborates with external technological partners such as universities and laboratories, with the aim of analysing other industry trends and considering out-of-the-box insights.

OUR STRENGTHS, YOUR BENEFITS

Each application and site conditions require specific G.E.T. solutions to ensure safety, reliability, durability and the utmost performance in operating efficiency. To meet our end users needs, MTG has established a holistic approach consisting of various product and service-oriented strengths.

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

	HIGHER PRODUCTIVITY	LONGER OPERATIONAL TIME	MAXIMUM RELIABILITY	FASTER AND SAFER DOWNTIMES
A TOOTH FOR EACH APPLICATION • We provide a wide range of products, making your machine more efficient as a result. The reason for this is that each tooth is specifically designed for each application, depending on the level of penetration, abrasion and impact required. • The optimal wear material ratio of each of our teeth designs make them last longer, improving your machine's performance and reducing the operating costs.	✱	✱		
DESIGNS • The self-sharpening designs allow our G.E.T. a high degree of penetration during all their wear life. • Teeth are designed to increase the adapters' protection, minimising the need for repairs.	✱	✱		
SPECIALISED TECHNICAL SUPPORT • Our Technical Support Engingeers will assist you to better configure your full-bucket protection for minimum blade exposure to impacts and abrasions.	✱	✱		
MTG STEELS • Our steels are designed to withstand the highest levels of mechanical stress and have proved robustness and resistance, even in the most demanding applications. • The low level of impurities and the structure developed using specific heat treatments, optimise hardness/ toughness ratio, avoiding breakages.		✱	✱	
LOCKING SYSTEM • Our hammerless locking systems provide excellent retention, avoiding tooth loss. • The assembly and disassembly of teeth is quick and safe thanks to our hammerless locking system, which provides the utmost in safety and efficiency while performing our product´s routine changeouts.			✱	✱

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EXCAVATORS AND LOADERS

At MTG we provide complete wear solutions for both excavator and loader buckets with a broad range of adapters, teeth and edge protection for a wide assortment of machine models.

Machine Models

Excavators

	10 - 20 t	21 - 40 t	41 - 90 t	100 - 150 t	150 - 250 t
CATERPILLAR[1]	313F 318F 318F L	320/GC 330/GC 336 340	352F 374F L 390F L	CAT6015B	CAT6020B
TEREX[1]	-	-	-	RH40	RH90
HITACHI[1]	ZX120-5 ZX160LC-5 ZX180LC-5	ZX210LC-5 ZX290LC-5 ZX350LC-5	ZX470LC-5 ZX670LC-5 ZX870LC-5	EX1200-7	EX1900-6
KOMATSU[1]	-	-	-	PC1250-11	PC2000-8

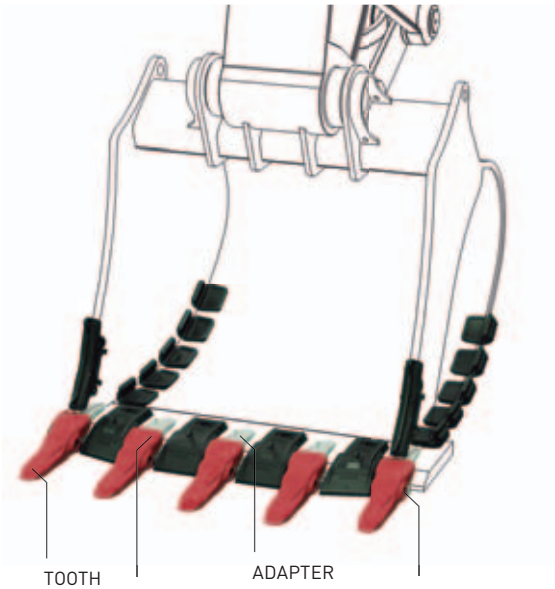
Loaders

	30 - 35 t	45 - 55 t	75 - 85 t	90 - 120 t	130 - 220 t
CATERPILLAR[1]	980M	988K	990K	992k	CAT993k
KOMATSU[1]	-	WA600	-	WA800 WA900	WA1200-6
LE TOURNEAU[1]	-	-	-	LT950	L-1150 L-1350

[1] See the Notes section on the back cover.

MTG *SYSTEMS / STARMET*

MTG Systems *STARMET* is a tooth-adapter system with a hammerless locking, which its numerous benefits provide increased efficiency and maximum reliability for excavators and loaders in construction sites and quarries.



BILATERAL LOCKING SYSTEM

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

SELF-SHARPENING DESIGN

WIDE RANGE OF DESIGNS

OPTIMAL WEAR RATIO

HAMMERLESS LOCKING

Product Range

TEETH AND ADAPTERS

E
Extra

EX
Extra X

ES
Extra Short

U
Universal

P
Penetration

F
Flared

V
Vector

VC
Vector Coal

C
Coal

W
Double Vector

S
Standard

I
Impact

A
Abrasion

AX
Abrasion X

L
Long

D
Delta

H
Heavy

WN
Weld-on nose

UC
Universal Central

WC
Central

WRD
WLD
Delta

WC/M
Central with mechanical wear cap

WRD/M
WLD/M
Delta with mechanical wear cap

FC
Flush Central

OTHER PRODUCTS

HD
Reinforced wear bottom leg

M/M-A
Mechanical wear cap

MS/MS-A
Straddle mechanical wear cap

ACCESSORIES

MTGtwist locking system

Metallic locking system for hot slag applications

Removal Tool

Testimonials

Higher productivity and durability

MTG *SYSTEMS / STARMET*

Machine: HITACHI[1] ZX 850
System: MTG Systems *STARMET*
Terrain: Limestones and quartz
Location: Ireland

Context
Working in limestone and quartz applications.

Results
Increased durability, safety and great tooth reliability, with no breakages.

"The hammerless locking system improves the safety and reliability of teeth, being the main advantage of MTG Systems *STARMET* teeth." [2]

Increased performance even in applications with high impact and abrasion

MTG *SYSTEMS / STARMET / PROMET*

Machine: LIEBHERR[1] R970SME
System: MTG Systems *STARMET* and MTG Systems *PROMET*
Terrain: Granite
Location: Germany

Context
Excavators working in granite terrain, with high impact and abrasion levels.

Results
The teeth's high degree of penetration and the lack of breakages improve productivity and reduce stoppage time of the machines.

"We are extremely satisfied with MTG and all of our machines are equipped with MTG." [2]

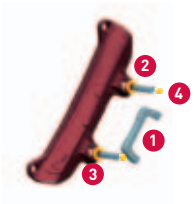
[1] [2] See the Notes section on the back cover.

MTG *SYSTEMS / PROMET*

MTG Systems *PROMET* is our G.E.T. bucket protection system for the construction industry. *PROMET*'s range of mechanical wing and lip shrouds, along with our teeth and adapters, offer a full bucket solution for loaders and excavators.

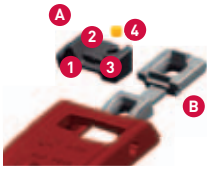
LIP SHROUD
(WITH HAMMERLESS
LOCKING SYSTEM)

WING SHROUD
(WITH HAMMERLESS
LOCKING SYSTEM)



LATERAL LOCKING SYSTEM

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



LIP LOCKING SYSTEM

A. Locking assembly, composed of:
1. Mechanical block.
2. Retention plate.
3. Fixation bolt.
4. Plug to prevent the bolt hole becoming filled with dust.
B. Weld-on base.

ROBUST AND RESISTANT

OPTIMAL WEAR RATIO

HAMMERLESS LOCKING

Product Range

MECHANICAL WING AND LIP SHROUDS

U
Wing shroud

UX
"Heavy" wing shroud

C
Central Lip shroud

L
Delta Left

R
Delta Right

ACCESSORIES

UWB
Weld-on base for wing shrouds

UWBX
Weld-on base for "Heavy" wing shrouds

WB-B
Weld-on base for lip shrouds

MTGtwist locking system for wing shrouds

Locking assembly for lip shrouds

Removal Tool

MTG *PLUS*

MTG Plus is an alternative products category of adaptable systems for excavators and loaders.

Product Range

WING, HEEL AND LIP SHROUDS

UL/ULX
Weld-on wing shrouds

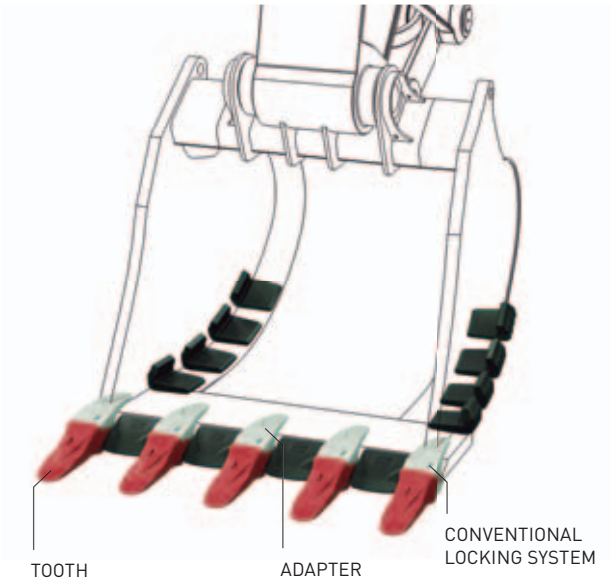
ULH/ULHX
Weld-on heel shrouds

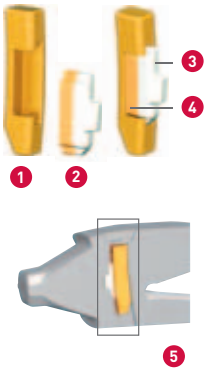
UC/URD/ULD
Weld-on lip shrouds

BC-A/BCX-A/BLD-A/ BLDX-A/BRD-A/BRDX-A
Bolt-on lip shrouds

MTG *SYSTEMS / KINGMET*

MTG Systems *KINGMET* is a robust and resistant teeth-adapter system that offers productivity and versatility for excavators and loaders.





CONVENTIONAL LOCKING SYSTEM

1. Body.
2. Retainer.
3. Polyurethane.
4. ElastoMet.
5. Pin totally protected.

ROBUST AND RESISTANT

SELF-SHARPENING DESIGN

OPTIMAL WEAR RATIO

WIDE RANGE OF DESIGNS

Product Range

TEETH, ADAPTERS AND SHROUDS

E
Extra

EX
Extra X

U
Universal

P
Penetration

S
Standard

F
Flared

V
Vector

W
Double Vector

I
Impact

D
Delta

A
Abrasion

AX
Abrasion X

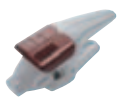
H
Heavy

L
Long

UC
Universal Central / Lower shovel

WC
Weld Center

WN
WN HS
Weld-on nose



WC
HD/M
Weld center with mechanical shroud

FC
Flush Central

FC HS
Flush for hot slag

WC HS
Weld center for hot slag

FCC
Flush clamshell

ACCESSORIES

Standard Locking System

Hot Slag Locking System

Metallic Locking System

Removal Tool

MTG PLUS

MTG Plus is an alternative products category of adaptable systems for excavators and loaders.

Product Range

CATERPILLAR[1] SIDE PIN TEETH

S
Standard

U
Universal

F
Flared

P
Penetration

V
Vector

W
Double Vector

I
Impact

L
Long

D
Delta

H
Heavy

A
Abrasion

AX
Abrasion X

KOMATSU[1] SIDE PIN TEETH

E
Extra

S
Standard

V
Vector

[1] See the Notes section on the back cover.

BULLDOZERS

Our systems provide bulldozers with a longer service life and optimum penetration in the most demanding applications.

Machine Models

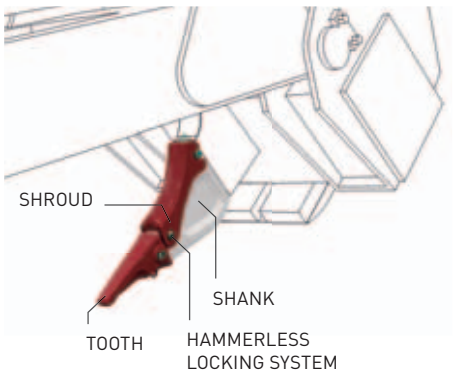
Bulldozers

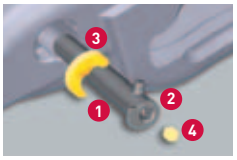
	30 - 35 t	45 - 55 t	75 - 85 t
CATERPILLAR[1]	D8T	D10T2	D11T/D11T CD
KOMATSU[1]	D155AX-8	D375A-6	D1475A-5

[1] See the Notes section on the back cover.

MTG *SYSTEMS / RIPMET*

MTG Systems *RIPMET* is a hammerless system for bulldozers in quarries, which provides a greater wear life and an excellent penetration.





MTGTWIST LOCKING SYSTEM FOR BULLDOZERS

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

ROBUST AND RESISTANT

SELF-SHARPENING DESIGN

OPTIMAL WEAR RATIO

HAMMERLESS LOCKING

Product Range

TEETH, ADAPTERS AND SHROUDS

AX
Abrasion X

PX
Penetration X

S
Standard

I
Impact

P
Penetration

V
Vector

WA
Adapter

WN
Weld-on nose

S2
Shroud

ACCESSORIES

MTGtwist locking system

Removal Tool

MTG *PLUS*

MTG Plus is an alternative products category of adaptable systems for bulldozers.

Product Range

CATERPILLAR[1] RIPPER TEETH

A
Abrasion

AX
Abrasion X

I
Impact

P
Penetration

S
Standard

[1] See the Notes section on the back cover.

MTG

No limits innovation

MTG Quality Certificates

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