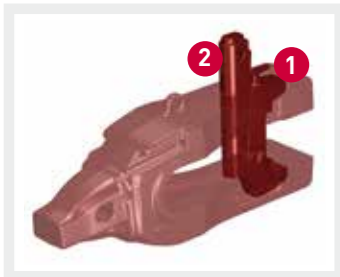


2 Adapter

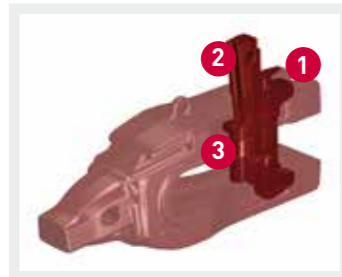
Electric shovel adapters have been designed with the StarMet tooth-and-adapter fitting system and a conventional two- or three-part lip fastener system. MTG is currently developing a hammerless fastener system for these adapters.

It's not required to convert the lip to install the hammerless locking system in a MTG adapter.



Conventional locking (mechanic) in 2 parts Whisler system:

1. Insert the C-Clamp
2. Insert the Wedge



Conventional locking (mechanic) in 3 parts Whisler system:

1. Insert the C-Clamp
2. Insert the Inverter Wedge
3. Insert the Wedge

3 Wear caps

The adapter allows the use of wear caps where necessary. Different wear cap designs are available, depending on the soil abrasion level and type of application.

4 Tooth

MTG Systems StarMet use the MTG Twist hammerless locking solution. StarMet offers proven reliability (the system has been used in mining machinery since 2006), with greater ease and speed of use, as well as improved safety when assembling and disassembling teeth.

Specific tooth design with advanced self-sharpening, offering the perfect balance between penetration and resistance to abrasion. New range of stronger teeth with more wear material which guarantee increased bucket productivity with such machinery.

5 Shrouds

The new wing and blade shrouds, in combination with a conventional mechanical fastener system, offer full bucket protection. The robust design extends the working life of the bucket and its productivity.

6 Templates

MTG offer a range of templates allowing correct lip reconstruction, ensuring the correct installation of adapters and shrouds, extending the bucket's working life and preventing incidents during loading.



MTG
Ctra. Nac. II, Km. 636,6
08330 Premià de Mar
Barcelona - España
Tel. (+34) 93 741 70 00
Fax. (+34) 93 752 15 74
info@mtg.es
www.mtg.es

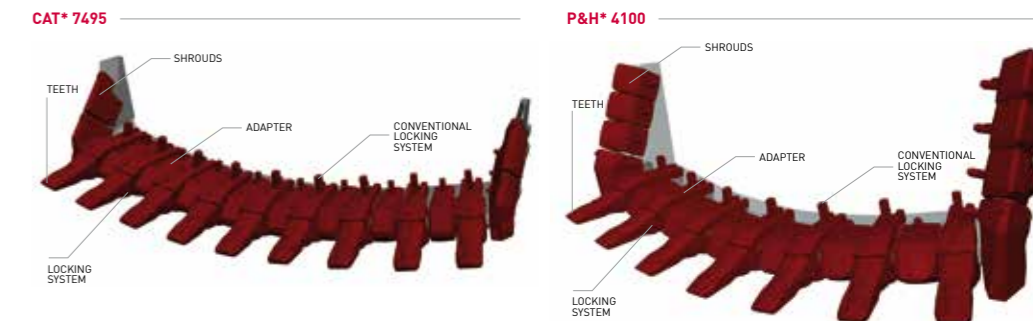
METALOGENIA S.A. is the sole title holder of the brands which identify its products. As such, all industrial property rights which may be derived from the same, such as designs, utility models, and patents, belong to METALOGENIA S.A.. Unauthorized use of these may constitute a violation of the industrial property rights owned by METALOGENIA S.A. The brands marked with an asterisk are not owned by METALOGENIA S.A. and are named for the sole purpose of identifying the destination of the products with no link between METALOGENIA S.A. and the legitimate title holders of the brands.

STARMET ROPE SHOVELS PRODUCT RANGE



MTG Systems StarMet – Rope Shovels

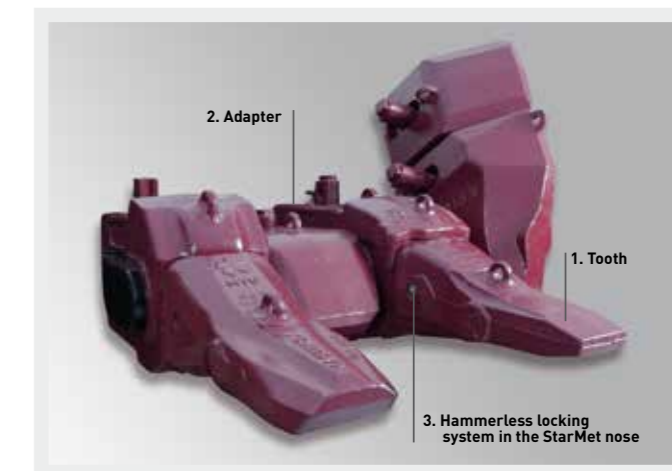
Featuring mechanical locking systems, the StarMet rope shovel products allow the most common lip fitting configurations for P&H* 4100 and CAT*7495 (BE495HR*)-Whisler 12 electric rope shovels. MTG will be extending its product range, adding new configurations (Berkeley*, Whisler 10 etc...) as well as launching a new hammerless locking system for adapters and shrouds.



SYSTEM CHARACTERISTICS AND ADVANTAGES

1 Hammerless locking system in the StarMet nose

The hammerless locking system ensures the robustness in the assembly and disassembly process, turning it faster and safer. For the other parts system we use the conventional (mechanical) locking, waiting to launch the "hammerless" system for the whole system.



RANGE OF TEETH AND ADAPTERS

ALL CONFIGURATIONS



RS RSX WH12 WC-M WC-MX

RS long profile design for cable loaders in hard applications with a very good resistance, penetration and duration ratio.

RSX long profile design for cable loaders in hard and highly abrasive applications, with outstanding resistance, penetration and duration ratio.

WH12 Adapter for Rope Shovel available:
 • WH12-5 for Whisler adapter with 5° nose angle.
 • WH12-0 for Whisler adapter with 0° nose angle.

WC-M Wear-cap slim. Protects the top of the adapter from wear in high abrasion and impact applications.

WC-MX Heavy Wear cap. Mechanical shroud extra-reinforced which protects the top of the adapter from wear in high abrasion and impact applications.

RANGE OF SHROUDS

CAT*7495



Lip shroud center Wing shroud lower right Wing shroud upper right Wing shroud lower left Wing shroud upper left

For CAT*7495 ⁽¹⁾ machine. For CAT*7495 ⁽¹⁾ machine. For CAT*7495 ⁽¹⁾ machine. For CAT*7495 ⁽¹⁾ machine. For CAT*7495 ⁽¹⁾ machine.

P&H* 4100



Lip shroud center Wing shroud upper Wing shroud lower right Wing shroud lower left

For P&H* 4100 machine. For P&H* 4100 machine. For P&H* 4100 machine. For P&H* 4100 machine.

⁽¹⁾ CAT*7495 or Bucyrus* BE495HR

ACCESSORIES

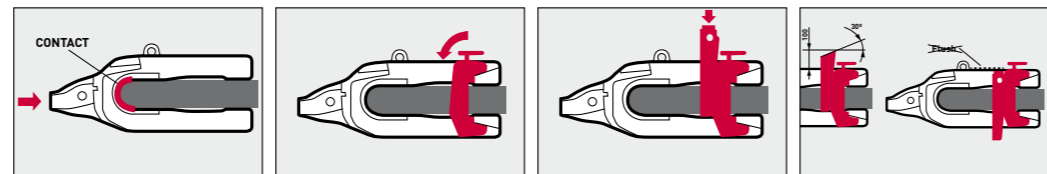


PR R CL W1 W2 IW

PR Locking tooth [pin + retainer]. **R** Locking tooth retainer. **Extraction tool** Extraction tool. **CL** Clamp conventional adapter. **W1** Wedge standard conventional adapter. **W2** Wedge oversized conventional adapter. **IW** Inverted Wedge 3 parts.

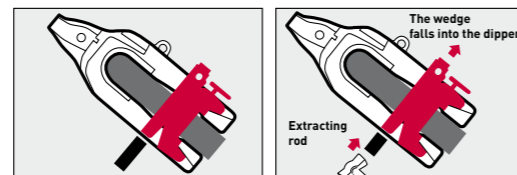
GENERAL ASSEMBLY AND DISASSEMBLY INSTRUCTIONS FOR MTG SYSTEMS STARMET ROPE SHOVELS

Assembly instructions conventional locking 2 parts



Place the adapter. Put the C-Clamp on its position. Introduce the wedge. The wedge fits in its final position.

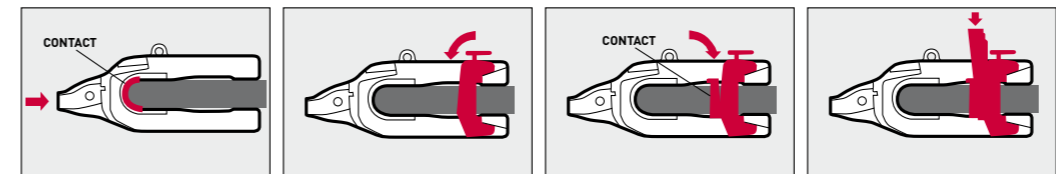
Disassembly instructions conventional locking 2 parts



Place the shovel dipper. Place an extracting rod and hit with a hammer. The wedge falls into the dipper.

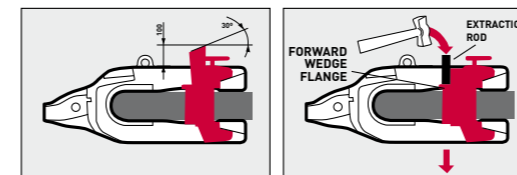
GENERAL ASSEMBLY AND DISASSEMBLY INSTRUCTIONS FOR MTG SYSTEMS STARMET ROPE SHOVELS

Assembly instructions conventional locking 3 parts



Place the adapter. Put the C-Clamp on its position. Place the forward wedge. Introduce the wedge.

Disassembly instructions conventional locking 3 parts



The wedge fits in its final position. Place an extracting rod and hit with a hammer.

SUMMARY OF MTG SYSTEMS STARMET ROPE SHOVELS RANGE

Teeth		
Machine	Design	WH12
P&H* 4100	RS	MA500RS
BUCYRUS 495HR (CAT*7495)	RSX	MA500RSX

Teeth locking devices		
Machine	Design	WH12
P&H* 4100	PR	2MA500PR
BUCYRUS 495HR (CAT*7495)	R	2MA500R

Adapter		
Machine	Design	WH12
P&H* 4100 BUCYRUS 495HR (CAT*7495)	WH12-5	1MA500WH12-5
	WH12-0	1MA500WH12-0
	WC-M	4MA500WH12M
	WC-MX	4MA500WH12MX

Adapter locking devices mechanical 2 parts		
Machine	Design	WH12
P&H* 4100 BUCYRUS 495HR (CAT*7495)	CL	2MWH12CL
	W1	2MWH12W1
	W2	2MWH12W2

Adapter locking devices mechanical 3 parts		
Machine	Design	WH12
P&H* 4100 BUCYRUS 495HR (CAT*7495)	C	2MWHC
	W1	2MWHW1
	W2	2MWHW2
	IW	2MWH12IW

Blade shrouds		
Machine	Description	WH12
P&H* 4100 BUCYRUS 495HR (CAT*7495)	Lip shroud center	4MLWH12C350
	Lip shroud center	4MLWH12BC250

Blade shrouds locking devices		
Machine	Design	WH12
P&H* 4100	CLS	2MWH12CLS
	WS	2MWH12WS
BUCYRUS 495HR (CAT*7495)	BCLS	2MWH12BCLS
	BWLS1	2MWH12BWLS1

Lateral shrouds		
Machine	Description	WH12
P&H* 4100	Wing shroud upper	4MBWH12U
	Wing shroud lower left	4MBWH12LL
	Wing shroud lower right	4MBWH12LR
	Wing shroud upper left	4MBWH12BUL230
BUCYRUS 495HR (CAT*7495)	Wing shroud upper right	4MBWH12BUR230
	Wing shroud lower left	4MBWH12BL230
	Wing shroud lower right	4MBWH12BLR230

Lateral shrouds locking devices		
Machine	Design	WH12
P&H* 4100	CLS	2MWH12CLS
	WS	2MWH12WS
BUCYRUS 495HR (CAT*7495)	BCWS	2MWH12BCWS
	WWS1	2MWH12BWWS1

NOTE 1. The references presented here are valid unless if there is an error or omission.
 NOTE 2. Availability of references presented is not guaranteed. Enquire before ordering.