

MANGASAFE™
LIFTING EQUIPMENT

THE MOST
INNOVATIVE
**JAW AND CONE
CRUSHER
LINER-LIFTING
TOOLS**
AVAILABLE



DESIGNED TO LIFT LINERS **QUICKLY AND SAFELY** WHILE REQUIRING **MINIMAL PREPARATION**



*Jaw Liner Lifting Eyes
and Stabilizer Bar*



*Cone Liner Lifting Eyes
with Locking Slides*

BUILT TOUGH TO GET THE JOB DONE RIGHT

Amsted Global Solutions developed the Mangasafe™ lifting equipment in response to the challenges of changing crusher liners where the outcome can be dependent on the composition and integrity of the manganese casting.

Amsted Global Solutions wear liners of all sizes are now manufactured with engineered holes, allowing use of the innovative Mangasafe liner-lifting tool. No bolts or additional fittings are required. The tool is simply inserted into the cast holes, turned, and a stabilizer bar prevents the tool from separating from the liner when lifting chains or slings become slack. The unique design means jaw liners adopt an ideal angle for lowering and positioning against the jaw face.

EXCEEDING THE HIGHEST PERFORMANCE STANDARDS

The Mangasafe lifting system has undergone the most rigorous testing available and meets or exceeds load certification to AS3776-2006. Every Mangasafe tool is supplied with a test certificate traceable to the forging manufacturer and material supplier, along with a specification document. When necessary to meet customer requirements for lifting tackle inspection, any component of the Mangasafe system can be returned for full inspection and have a test certificate issued.

HOW IT WORKS

The Mangasafe lifting system is designed to lift any Amsted Global Solutions cone or jaw crusher liner manufactured with engineered cast holes.

Jaw Liners:

The fitting process for jaw liners involves five steps:

1. Fit two Mangasafe lifting tools into the specially cast holes
2. Fit stabilizer bar to the Mangasafe tools
3. Fit the lynch pins to the ends of the stabilizer bar
4. Attach the lifting sling or chain to the Mangasafe tools

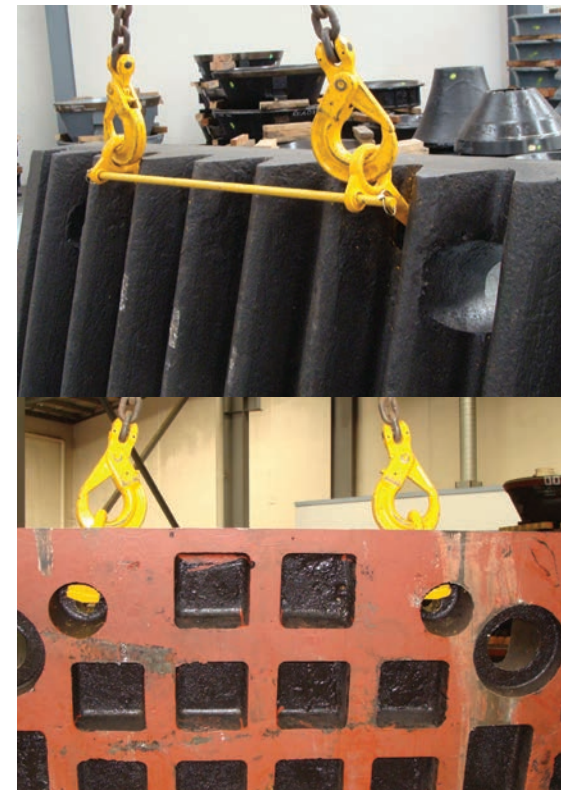
Cone Liners:

Fitting cone liners requires three steps:

1. Fit two Mangasafe lifting tools to the specially cast holes
2. Lock the Mangasafe tools into holes
3. Attach lifting/sling chain to Mangasafe tools

Once the Mangasafe tool is locked into position, it cannot separate from the jaw liner. If needed, the lifting holes can be easily filled with expandable foam and/or plugged with a metal plug once the liner is fitted into place and it will not interfere with crushing operation.

Note: This guide should be read in conjunction with the OEM operating & maintenance manual and is not intended as a substitute.



Proven performance, global strength

Amsted Global Solutions is brought to you by Amsted Rail®, the leading provider of undercarriage and end-of-car railcar components, with 54 locations on 6 continents. When you partner with Amsted Global Solutions, you gain access to the manufacturing expertise, accumulated knowledge and global resources of the world's largest solutions provider for the rail industry.

**Contact us today to start improving
your operations with Mangasafe:**

Australian Head Office

110/189 South Centre Road
Tullamarine VIC 3043
+03 9338 0200

Victoria, South Australia and Tasmania – Sales

+61 3 9338 0200 or +61 4 3939 3717
agsorders@amstedglobal.com

Queensland and NSW – Sales

+61 7 3801 8153 or +61 4 1862 2842
agsorders@amstedglobal.com

Western Australia and Northern Territory – Sales

+61 8 9434 5519 or +61 4 0736 2053
agsorders@amstedglobal.com



www.amstedglobal.com | +61 3 9338 0200

Australia | 110/189 South Centre Road, Tullamarine, Victoria 3043
USA | 311 S. Wacker Drive, Suite 5300, Chicago, IL 60606