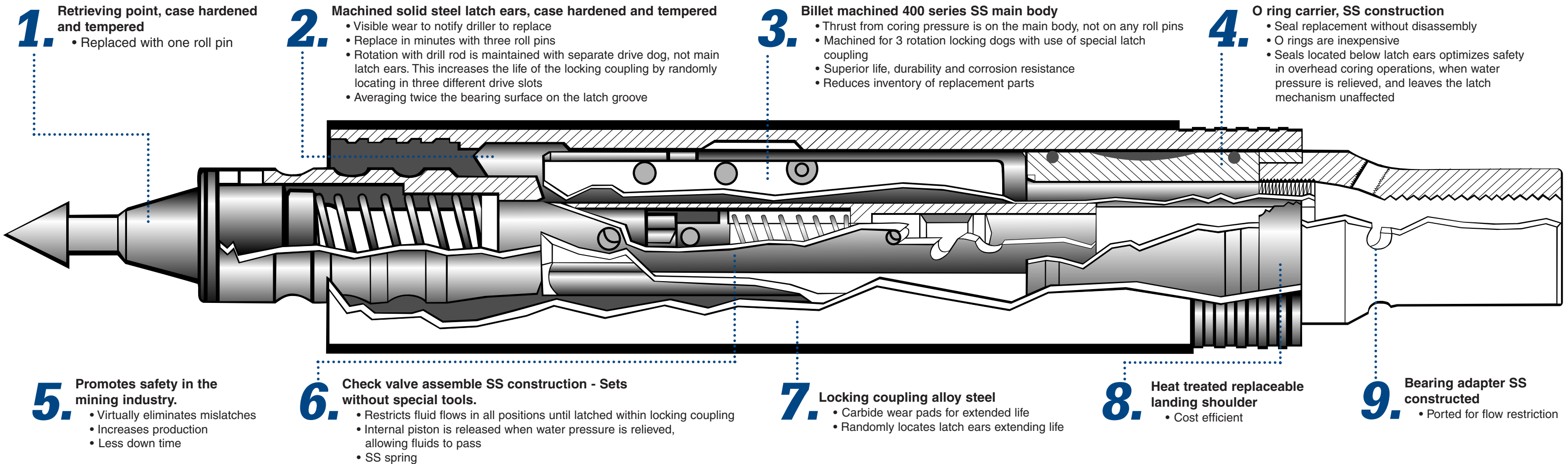


# Revolutionizing the coring industry in **SAFETY, DURABILITY, EASE, and COST EFFICIENCY**

The patented Northwest Machine Works *LOCK n LOAD™* latch head is unlike any latch head you've ever used. With a multitude of features not available on any other unit on the market, the *LOCK n LOAD™* is unsurpassed in safety, durability, efficiency and ease of operation and maintenance. The *LOCK n LOAD™* latch head is so efficient it actually earned its name in the field, not in the marketing department...so unique it earned a U.S. patent (foreign patents pending).



**Compare these features with what you're using now, then give us a call:**

**Northwest Machine Works**  
 2318 Grand Park Drive, Grand Junction, CO 81505 • (970) 242-1356 • FAX: (970) 241-1825 • [www.northwestmachine.com](http://www.northwestmachine.com)

**SPECIALIZED DRILLING TOOLS & SUPPLIES • PRECISION CNC MACHINING**  
**Serving the industry since 1949**

**LOCK n LOAD™**

Made in the USA

Proudly



Made in the USA



U.S. and Foreign Patents Pending

# LOCK n LOAD™

Revolutionizing the coring industry

## .....DURABLE

- CNC machined stainless steel body.
- Wear parts constructed of precision machined, case hardened, tempered steel.
- SS springs and roll pins.

## ...SAFE

- Coring pressure bears on the main body of unit NOT the roll pins.
- Engineered wear areas give the driller easy visual indication when it's time for latch ear replacement.
- Ease of maintenance helps promote safety.
- Engineered spring housing forces latch ears into position.
- Check valve system:
  - ✓ gives positive indication that the latch head has landed.
  - ✓ restricts drilling fluid flow until the latch head is locked and fluid pressure is relieved by driller.
  - ✓ gives positive pressure indication of latch head malfunction.
  - ✓ check valve assembly in the slide tube locks into position, presetting without the use of any special tools.
  - ✓ resets automatically depending on drilling conditions.
- Tapered spring housing tightens in direct response to increased coring pressure. The higher the pressure, the tighter the unit.
- Upon retrieval, the spring housing extends past latch ears to open ports and relieve down hole vacuum, and to unlock the latch.

## EFFICIENT

- Unlike traditional latch heads, the LOCK n LOAD™ disassembles easily and quickly without the use of special tools for fast field repair and maintenance.
- Latch ears replace in minutes with just 3 roll pins, and without complete disassembly of the unit.
- Rotation locking dog engineered to align latch ears randomly and minimize wear in the latch coupling groove.
- O-ring carrier standard for polymer and water drilling.
- Compact design for underground drilling where space is premium.
- Compatible with current core barrels and retrieving assemblies.

## LOCK n LOAD™

SIZE	LENGTH	WEIGHT
BWL	18"	7.0 lbs.
NWL	20.5"	12.5 lbs.
HWL	25"	25.5 lbs.

**LIGHTER and  
SMALLER  
than standard  
latch heads**



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# LOCK n LOAD™

**The latch head that  
Revolutionized the  
Coring Industry.**

