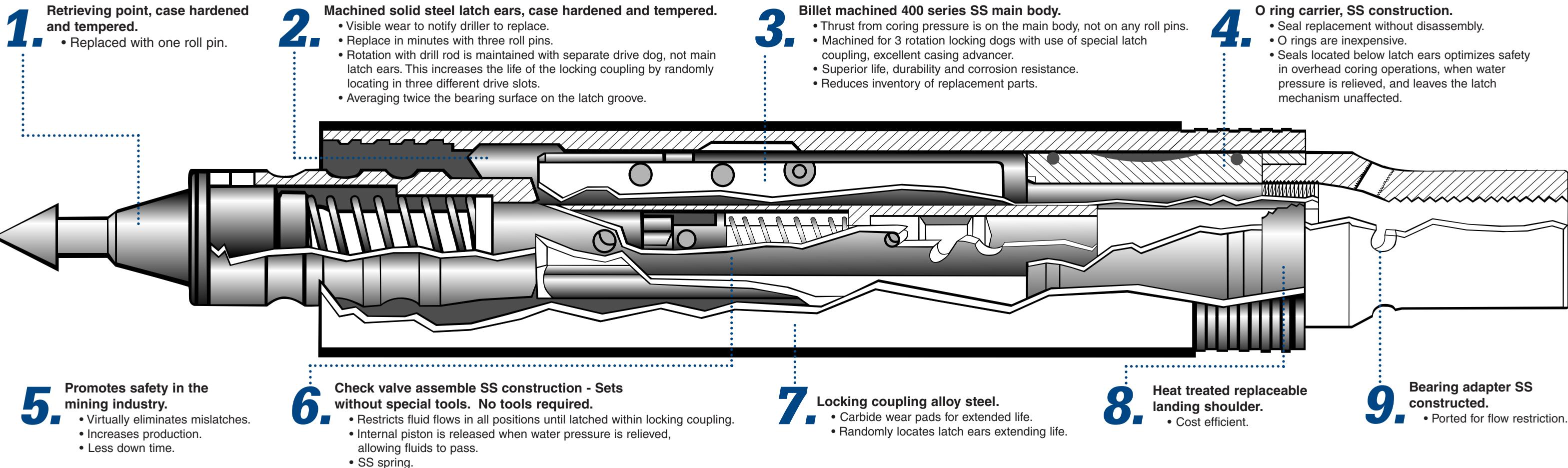


Revolutionizing the coring industry in SAFETY, DURABILITY, EASE, and COST EFFICIENCY

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

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

LOCK n LOAD™

Made in the USA



Made in the USA



U.S. and Foreign
Patents Pending



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.
- Conversion kit available to transform the unit to a casing advancer.
- 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.



SIZE	LENGTH	WEIGHT
BQLL	18"	7 lbs.
NQLL	20 1/2"	12.5 lbs.
HQLL	25"	25/5 lbs.

**LIGHTER and
SMALLER
than standard
latch heads**

Conversion kits available for:
HQ, NQ, NQ2, NTW, BQTK, BQ, BTW, ATT and ATW core barrels.



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

