

**When It's
CRITICAL...**



...It's

CARDINAL



When **QUALITY** is Critical...

- A2LA accredited in house laboratory
- ISO 9001:2008 Certified
- Domestic material & manufacture
- A490 / A325 / B7 manufactured to ASTM specification



A2LA Accredited
Laboratory # 1117.01



ISO 9001 : 2008
CERTIFIED
09.002.1



When **SERVICE** is Critical...

- Largest hot forging capacity in North America
- Extensive inventory available for same day shipment
- Quote response in minutes
- We put the **FAST** in **FAST**ener





When **COST** is Critical...

- Lean Manufacturing = Lowest Cost
- In House Machining
- Flexible Manufacturing Cells
- Proprietary Manufacturing Processes



When **SPECIALTY** is Critical...

- Manufacture to Print – Roll Threading before or after Heat Treat
- Charpy Impact Testing
- Forged Lot Traceability on Head
- Non-Standard Lengths





	HVY HEX Structural	HEX	SHCS	12 PT	SQ	FHSC	Stud
1/2-5/8"							
3/4"							
7/8"							
1"							
1-1/8"							
1-1/4"							
1-3/8"							
1-1/2"							
1-5/8", 1-7/8"							
1-3/4"							
2"							
2-1/4"							
2-1/2"							
2-3/4"							
3"							

	Hex	SHCS	Hvy	Stud
M20				
M24				
M27				
M30				
M33				
M36				
M42				
M48				
M56-M72				

Materials & Grades

SAE J429

- GR5
- GR8
- CFS 180

ASTM A193

- B7
- B8/B8M
- B16

ASTM

- A320 L43
- A325 TYPE I
- A354 BC
- A354 BD
- A449
- A490 TYPE I/TYPE III
- A574
- F593
- F835

Metrics

- 8.8
- 10.9
- 12.9

Stainless

- 304
- 316

Exotics