CAVALIER Industrial Specialties

“Passion for Precision”

www.GoCAV.com

11715 Charles Road
Houston, TX 77041
phone 713.983.0055
fax 713.983.0058
Assembly Component Manufacturing for Industry

Pump
Valve
Turbine
Medical
Mil-Spec

Power Generation
- Gas Fired
- Coal Fired
- Hydro Generated
- Steam Generated

Renewable Energy
- Hydro Power
- Nuclear Power
- Solar Power
- Wind Power

“Passion for Precision”

CNC Metal Cutting
CNC Machining
CNC Hot Forging
CNC Threading
CNC Low Stress Marking
Vibratory Finishing
Positive Material Identification
Variable Thread Gage Inspection
Digital Read-out Recording
Documented Quality Control

Serving Industry for over 25 years
Industrial Studs

Coarse Thread
Fine Thread
Metric Thread
8 Thread Pitch Series
Special Pitches
Left Hand Thread
Acme Thread
Pipe Thread
Interference Thread
Rolled Thread
All Thread
Body Bound
Tapered Body
Collar
Shoulder
Constant Strength
Chisel Point
Radius End
Knurled Body
Centerless Ground Body
Metal Marking
Tri-roll Inspection

Machined Parts

to meet your specification
details under our
Quality Assurance Program

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A documented Quality Management System (QMS) has been maintained for over 20 years for the consistent improvement of our processes and products.

Accreditation of Cavalier’s QMS to ISO 9001:2015 has been certified for the Manufacture and Supply of Industrial Fasteners and Machined Components by the international accredited registrar DNV/GL.

Cavalier products are supplied to the Military / Defense and Nuclear industries manufactured under the current QMS which meets and exceeds the established requirements.

CAGE code # 3Y787  
CCR registered  
NAICS - 332722  
Federal Supply Class FSC- 5306/5307  
Main Product Supply Class PSC — 5307

On the Quality team there are two active members of the American Society of Testing and Materials (ASTM). Each have participated as ASTM members since 1994.

Cavalier’s supply chain is capable of meeting all domestic requirements, and the DFARS requirement as it relates to Specialty Metals.

Our Quality system maintains full material traceability to the original melting mill on all materials as well as complete chemical and mechanical certifications, all testing requirements are completed at A2LA, accredited laboratories. Cavalier can also provide Positive Material Identification (PMI) and Laser Dimension Inspections when requested.
## Material in Action

### STAINLESS STEELS
- 303
- ASTM A193 B5
- 304
- ASTM A193 B6
- 304 STRAIN HARD
- ASTM A193 B8 CLASS 1
- 304 ELC
- ASTM A193 B8 CLASS 2
- 309
- ASTM A193 B8M CLASS 1
- 310
- ASTM A193 B8M CLASS 2
- 316
- ASTM A193 B8R
- 316 STRAIN HARD
- ASTM A193 B8S
- 316 ELC
- ASTM A193 B8T
- 317 ELC
- ASTM A320 B8 CLASS 1
- 321
- ASTM A320 B8 CLASS 2
- 330
- ASTM A320 B8M CLASS 1
- 347
- ASTM A320 B8M CLASS 2
- 410 HEAT TREATED
- ASTM A453 660A
- 410
- ASTM A453 660B
- 410 HEAT TREATED
- ASTM A453 660D
- 416
- ASTOM A578 660
- 430
- *A286
- 440C
- *254 SMO
- *AL-6XN
- 501 HEAT TREATED
- *CARPENTER 20Cb-3
- 630
- *FERRALIUM 255
- *17-4 PH
- 904L
- *NITRONIC 50
- ALLOY 20
- *NITRONIC 60
- *ZERON 100
- "HEAT TREATED"
- 2205
- "SUPER DUPER"
- 2507

### ALLOY STEELS
- 4140
- 4340
- ASTM A193 B7
- ASTM A193 B7M
- ASTM A193 B16
- ASTM A320 L7
- ASTM A320 L7M
- ASTM A320 L43
- SAE J429 Grade 8

### NICKEL ALLOYS
- *NICKEL 200
- *MONEL 400
- *MONEL R-405
- *MONEL K-500
- *INCONEL 600
- *INCONEL 601
- *INCONEL 625
- *INCONEL 718
- *INCONEL X-750
- *INCONEL 925
- *INCOLOY 800H
- *INCOLOY 825
- *HASTELLOY C-22
- *HASTELLOY C-276

### COPPER ALLOYS
- COPPER
- BRASS
- NAVAL BRASS
- SILICON BRONZE
- CUPRO-NICKEL
- ALUMINUM BRONZE
- PHOSPHOR BRONZE

### ALUMINUM ALLOYS
- 2024T4
- 6061T6

### TITANIUM
- ASTM B348
- ASTM B381

### CARBON STEEL
- ASTM A325 TYPE 1
- ASTM A490 TYPE 1

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Custom Components
Zinc
Cadmium, ASTM B766
Xylan 1424, 1014, 1070, 1052
Xylar 2
Hot-Dip Galvanized
Mechanical Galvanized
Phosphate
Zinc & Manganese
Fluoropolymer
Aluminizing
Armoloy
Black Oxide

Sermagard
Silver
Gold
Nickel
Copper
Chrome
Electropolishing
Passivation
Anodine
Molybdenum Disulfide
Rhodium
O₂ Cleaning

and many more...

CAV meets Industry Leaders' proprietary specifications

Air Liquide
Galvanizing per A-GS-4-2-1 Rev B

Aker Solutions
C-156 & C-169

BAE Systems

Baker Hughes
BCS A401

BP
Cameron
Chevron
Aluminizing per EG-5012

Dresser Rand

Dupont
SP11C

Exxon
GP 29-02-13 &
RUSD-WPE-T2-LS-61100.3403

FMC Technologies
C81000, C81004 & C81007

GE Oil & Gas

Lockheed Martin

National Oilwell Varco

Oil States Industries
SV2D-00-014 & SV5D-00-025

Schlumberger

Vetco Gray
6.3.2, 6.3.1, 6.3.4, 6.3.16,
6.2.12, & 6.3.14

Well Dynamics

Wood Group

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Thread Inspection

System 21: In this standard system the thread Go & No Go functionality is verified by gages Go Ring/Go Plug, No Go Ring/No Go Plug, and a micrometer is used to measure the major diameter of thread. Cavalier carries a whole range of Go & No Go Ring gages for external thread inspection and Go & No Go Plug gages for internal thread inspection.

System 22: This system covers all the requirements in 21 and in addition requires the threads to be measured for pitch diameter, lead, flank angle, minor diameter, and root profile using tri-rolls and optical comparator. Cavalier is equipped with tri-rolls and optical comparator to provide the customers with System 22 requirements.

Advanced Technology for measuring external threads: When customers require precision tolerances with precise measurements and high accuracy then Cavalier’s advanced inspection system is utilized which uses laser technology as a means to measure the thread attributes such as thread count, thread pitch, pitch diameter, major diameter, functional diameter, lead deviation, root radius, flank and angle.

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Custom Components

- Manufacturing for Assembly Components
- Machining for Engineer Designed Studs
- Hex, Square, Slotted, and Socket Drive Products
- Forging with Automation Accuracy
- Quick Response for Emergency Turnarounds
- Documented Quality Control
- Global Shipping

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