

WHF Capabilities



- API 20B • API 20C • ISO 9001 • IATF 16949
- ISO 45001 • ISO 14001 • PED
- NABL ISO/IEC 17025 LAB



WESTERN
HEAT & FORGE

Vision

To be the First Choice of our Customers, Employees & all other partners including our community

Mission

To achieve its stated Vision, WHF will strive to deliver 100% Quality and 100% OTD to its Customers and Partners

About Us

- Founded in 1982. > 600+ employees. >40 % Exports. 2 Manufacturing Plants in Pune, India
- **1st Company in the world to get API 20B and 6th to get API 20C certified**
- ISO 9001 • IATF 16949 • ISO 45001 • ISO 14001 • PED ISO/IEC 17025 LAB
- **Global Supplier of Forged, Machined, Coated, Turn-key Components**
 - Annual Installed Forging Capacity - 30,000 Tons
 - Closed Die Forging 24,000 Tons-Annual. Single piece < 75 kgs
 - Open Die Forging 6,000 Tons-Annual. Single piece < 1000 kgs
 - In-house Heat Treatment AMS 2750 certified, CAT, Voith Gmbh, SLB, NOV, Alfa Laval approved
 - In-house NABL/ISO 17025 Metallurgy Lab
 - Phosphating, PTFE Coatings WHF Joint Venture with Technicoat Functional Coatings of Czech Republic
 - ***Total Productive Maintenance (TPM) to ensure 100% Quality and On-Time Delivery***
- **ISO 9001 Machining Components Division**
 - **Advanced CNC Machining & Metrology Lab** Karl Zeiss CMM, Karl Maher Surface roughness tester, Gagemaster thread gauge, 3D scanning systems to ensure precise CTQ measurement

Our Prestigious Clientele



WHF Certifications

Certification Name	Certification Institute	Certification Number	Validity
API 20B	American Petroleum Institution	20B-0061	26-May-26
API 20C	American Petroleum Institution	20C-0030	26-May-26
ISO 9001:2015	Bureau Veritas	CZE - 220080, IND.22.10853/QM/U	29-Oct-26
IAFT 16949	Bureau Veritas	IN045159 - IATF	26-Oct-26
PED	Pressure Equipment Directives	IND.20.6314/QM/N	10-Nov-26
ISO 14001:2025	Bureau Veritas	IND.23.7012/IM/U	12-Sep-28
ISO 45001:2025	Bureau Veritas	IND.23.7012/IM/U	12-Sep-28
ISO 17025 / NABL - LAB	NABL	TC-5671	18-Jul-26

Quality Systems to meet Customer requirements

Technical Feasibility Study	FMEA
Capacity Analysis	Method / Process Sheets
APQP	Control Plans / MSA
Contract / PO Review	Dock Audits

Forging Capabilities

Closed Die	Open Die
CNC controlled Presses and Hammers 1.5 Ton, 2 Ton, 4 Ton, 8 Ton - Existing Setup 1000 Ton Press - 1 Nos - Existing Setup 1600 Ton Press 1 Nos- Existing Setup New Forging Plant - 50,000 Sq. Feet 4 Ton CNC Hammer (Under Commissioning) 2 Ton CNC Hammer (Under Commissioning)	2 Ton Hydraulic Hammer 3 Ton Hydraulic Hammer
Forging Range and Capacity Weight: 1- 75 Kgs single piece Capacity >2000 Tons / Month Capacity > 500,000 Pieces / Month Spare Capacity > 40%	Forging Range and Capacity Weight: 50 - 1000 Kgs single piece Capacity > 500 Tons / Month Spare Capacity > 50%



State-of-the-art Die Design and Forge Simulation Expertise

- Developed > 6000 unique forged components in Close Die Forgings
- **FeatureCAM** - create Numerically Controlled Tool Path for die cutting on high speed CNCs
- **Transvalor** - State of the art software for **forging simulation** to obtain **1st time right forgings**
- Solid works, AutoCAD, Unigraphics for design and engineering



Heat Treatment

- Heat Treatment Facility - API, CAT, SLB, Alfa Laval, Voith Approved

Batch Furnace	Continuous Furnace	Instrumentation
Capacity 1.5 - 6 Tons - Gas Fired	Capacity 1 Ton/hour Capacity 500 kg/hour } Gas Fired	Calibrated to API 6A, AMS 2750 standards
Processes - Normalizing - Annealing, ISO-Annealing - Solution Annealing - Post Weld Stress Relieving - Hardening & Tempering - Precipitation Hardening - Quenching Media i. Oil ii. Water iii. Polymer	Processes - Normalizing - ISO-Annealing - Hardening - Tempering - Quenching Media i. Oil ii. Water iii. Polymer	- Chino HT Chart Recorders - Chino Data Loggers - K - Type Thermo-Couples - Temperature Controllers - Auto Charger for Quench Application - Deep-throat, fully automated Hardness Tester calibrated as per ISO 6506-1

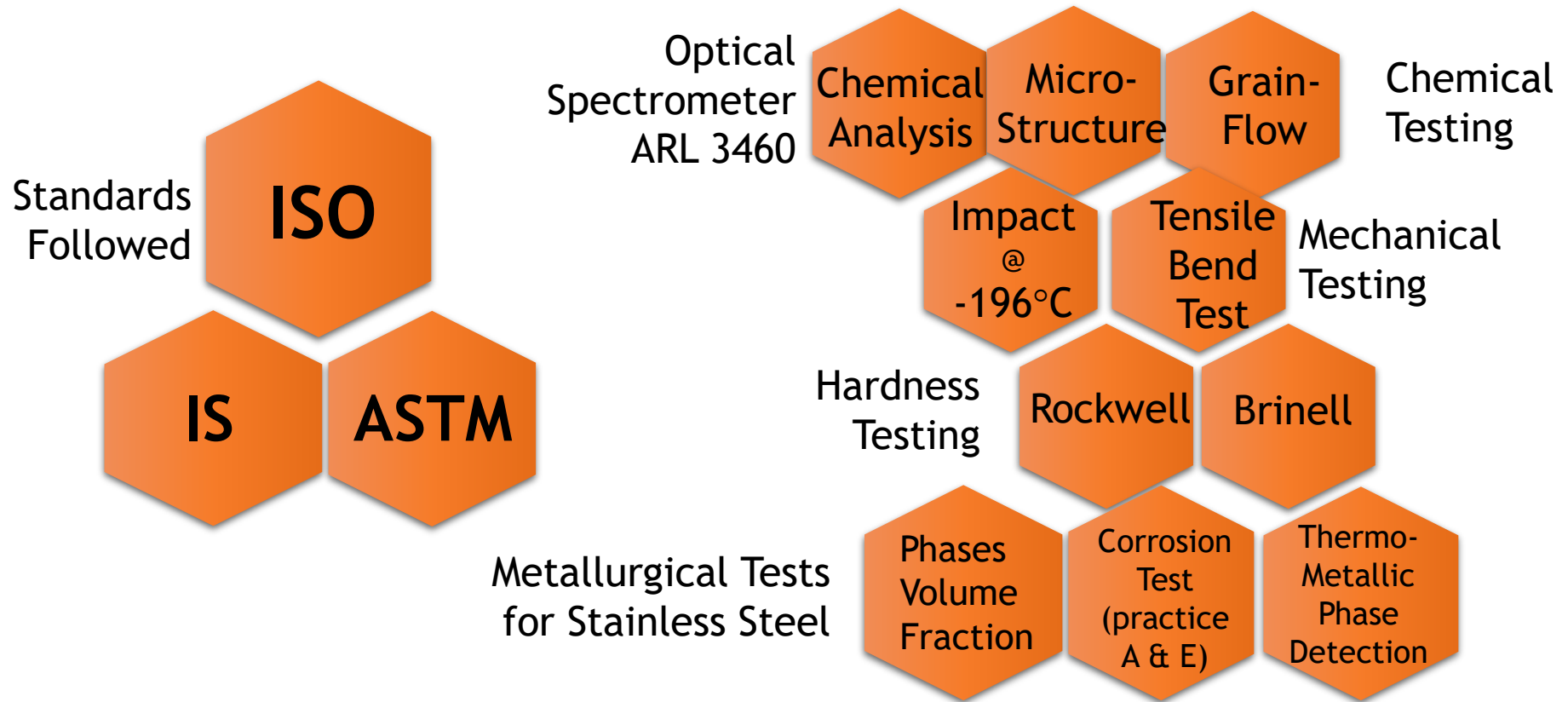
Quality Forgings Need Quality RM

- Strategic buying with renowned Steel Mills - JSW, Kalyani Steel, Saarloha, Nippon Sanyo Special Steels, Mukand, Laxcon, Sunflag, Usha Martin, SAIL, Ambica, Aarti, Venus Metals, others
- Original mill test certificates with each supply. 100% incoming testing.

WIDE VARIETY OF STEELS					
Carbon and Low Alloy Steels	Case Carburizing Steels		Stainless, Duplex & Super Duplex Steels		Through Hardening & Other Steels
ASTM A105	AISI 8620	SAE 8822 H	AISI 410	DIN 1.4462	42CrMo4/EN 19
A350 LF2 Class 1, SAE 350 LF6	17NiCrMo6-4	18CrNiMo7	AISI 316/316L	DIN 1.4418	43B17
A694 F60	EN 36C	EN353	AISI 304/304L	DIN 1.4057	AISI 4330V, 8630
AISI 4130 upto 95Ksi	EN 354	AISI 4320, 4320H	AISI 420, 431	ASTM A182 F321	ASTM A 182 F22
AISI 4140 / 4145H upto 130Ksi	20Mn/ 16MnCr5		ASTM A182 F347	17-4PH	EN 24/817M40, EN 26
AISI 4340, 4320H	AISI 8720		ASTM A182 F6A	ASTM A182 F51, F55	ASTM A182 F6NM
S355J2, S355J0	AISI 9313			Inconel - 625,718,825	ASTM A182 F9, F11,F91
API 5L X42	AISI 4815				

ISO/IEC 17025 Accredited Lab

- Customer Approvals - Schlumberger, GE, Emerson, Siemens, Wesco, Goodwin, NOV, Baker Hughes



WHF Machining Plant



WESTERN
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WHF - Machining

- ISO 9001:2015 Approved
- Turnkey Tested Components for Emerson, GE Oil and Gas, Schlumberger and Wipro Infrastructures
- In-house Hydrostatic Testing up to 1500 Bar/21,000 PSI
- Metrology Lab with CMM, Conturograph, Video Image Analyzer



CNC Machining Capabilities

Description	Capacity
Turning Centers : 18 nos Make: Doosan, DMG Mori, ACE, LMW, BFW	Turning Diameter: Upto 20 Inch Length: Upto 40 Inch
Vertical Turning Lathe (VTL): 4 Nos Make: Hwacheon, BFW, LMW	Turning Diameter: Upto 30 Inch Length: Upto 30 Inch
Horizontal Machining Centers (HMC): 4 Nos Make: Okuma, Mitsui Seiki, Doosan, BFW	Max Bed Size - X - 40 Inch; Y-30 Inch; Z-33 Inch
Vertical Machining Centers (VMC): 8 Nos Make: Okuma, Haas, LMW, Mazak	Max Bed Size with B-axis X - 42 Inch; Y-22 Inch; Z- 22 Inch
Hydrotesting Machine	10 bar TO 1500 bar
Laser Marking machine & Dot punch marking machine	

State-of-the-art Metrology Lab

- Carl-Zeiss CMM: X-700mm. Y-1000mm. Z-570mm
- Carl-Zeiss Conturograph: Hauser Profile Projector
- Gage Master for Thread Profile Measurement
- Surface roughness tester: Karl Maher
- 3-D scanners for measuring CTQs

Machines & Measuring Instruments



WESTERN
HEAT & FORGE

Technicoat Functional Coatings



- ✓ PTFE, PFA, FEP, ETFE, E-CTFE, PA-11, Thermoplasts, PEEK, Epoxy, Polyurethane, Epoxy GF, etc.
- ✓ More than 50 different coating types

Coated Components



Products

OIL & GAS



Valve Body



Bonnet



Major Gate



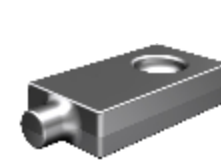
Minor Gate



Flanges



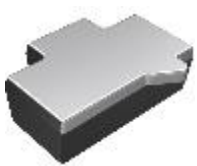
Wing Nut



Slab Gate



Slab Gate



Ram Forging



Cross



Solid Tee



5A Body



Adapter



Butterfly Valve
Disc



Dual Plate



Check Valve Body



Tees/Cross
Block



Round/Gear
Blank



Flange Shaft



Adaptor



Spool



Hollow Shaft



Tubular



Tubular

Products

CONSTRUCTION, DRILLING, MINING



Back Head



Cylinder



Front Head



Retainer



End Piece



Handle



DTH BIT



Trunion



Piston Eye



UCB Bottom



Track Link



Track Roller



Sprocket Segment



Leg Forging



Cap End Cover



Trunion



Flange



Rod Eye



Rod Eye



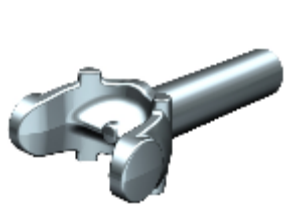
Piston Rod



Cone Forging

Products

AUTOMOTIVE & OTHERS



Yoke Shaft



Stub Yoke



Half End Yoke



End Yoke



Axle Yoke



Tow Hook Yoke



Yoke



Whl Brg Spindle



Bearing Block



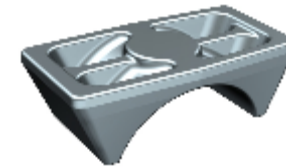
Steering
Knuckle



Bracket Relay
Arm



Pitman Arm



Spring Saddle



Link



Crank Shaft



Conn Rod



Spindle Forging



Gear Forging



Bowl Body



Bowl Hood



Damper Fastener

Products

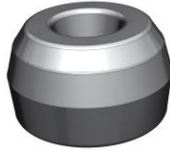
Railways - Metros



Stem



Stuffing Box Forging



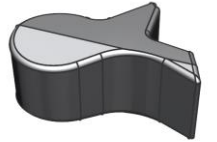
Gland



Lug Forging



Draw Bar



SR Pawl



Muff
Couplings



Hook Plate



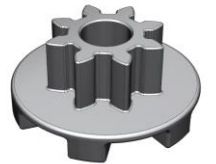
Support Forging



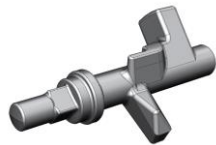
Support Forging



Shaft Wheel



Pinion Gear



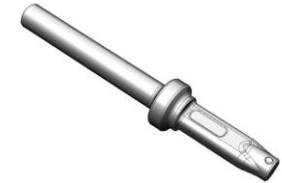
Cam Shaft



Yoke Assembly

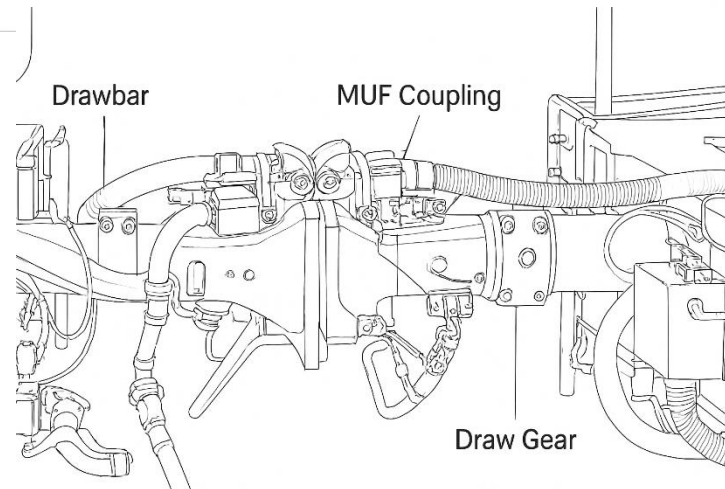
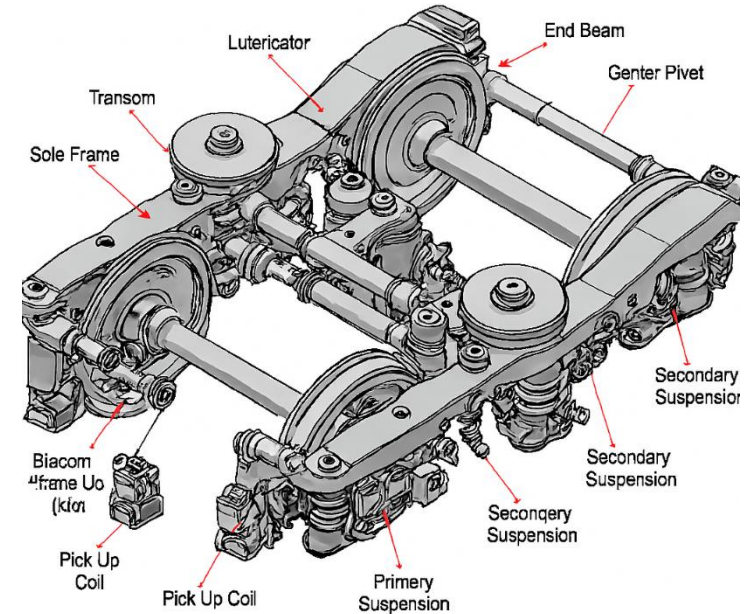
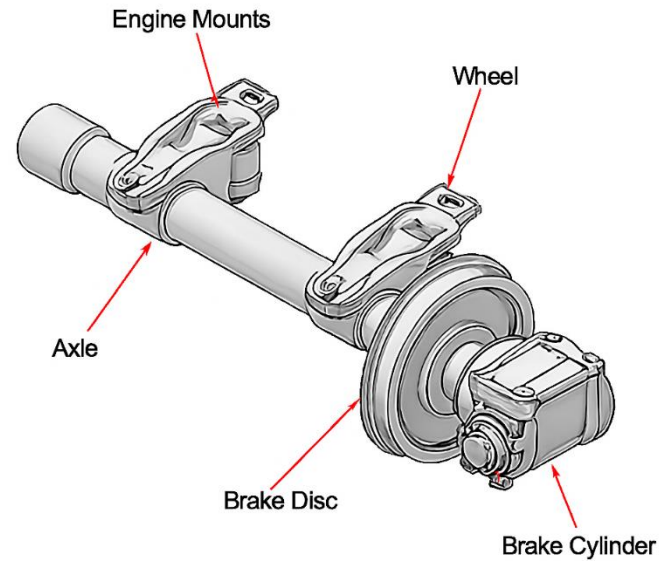
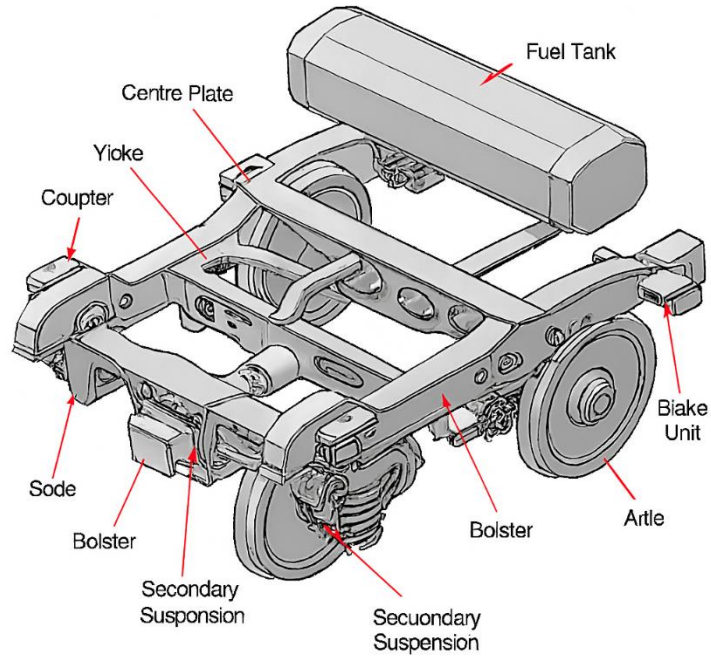


Gear Blank

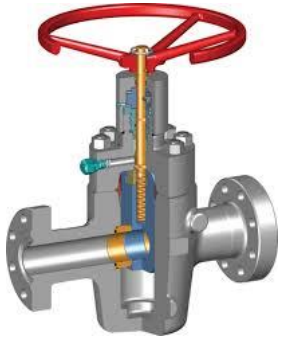


Draw Bar

Railway Applications



Oil & Gas Applications



Gate Valve components



Check Valve components



BOP Components



Pneumatic & Hydraulic Actuator Components



Well Head - Xmas Tree Components

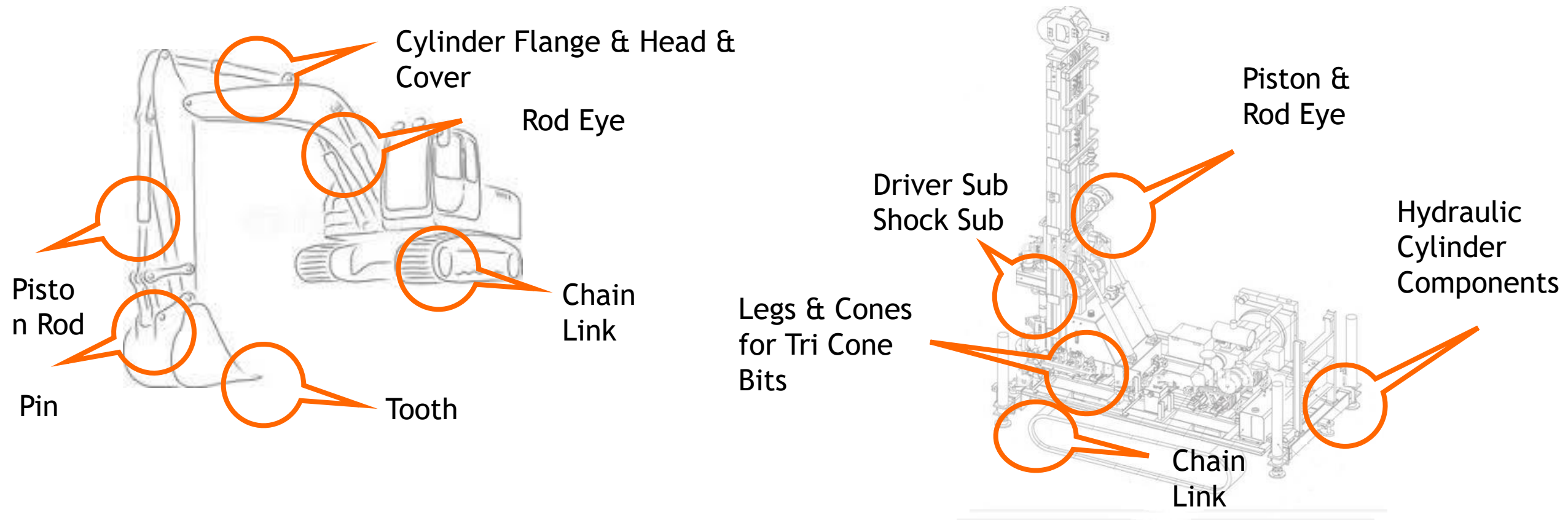


Frac Mud pump valve components



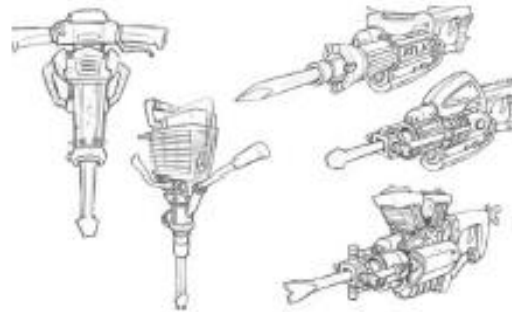
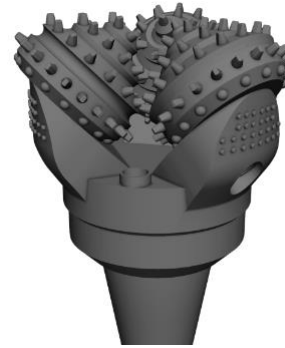
Stem Ball Valve Components

Construction & Mining Applications

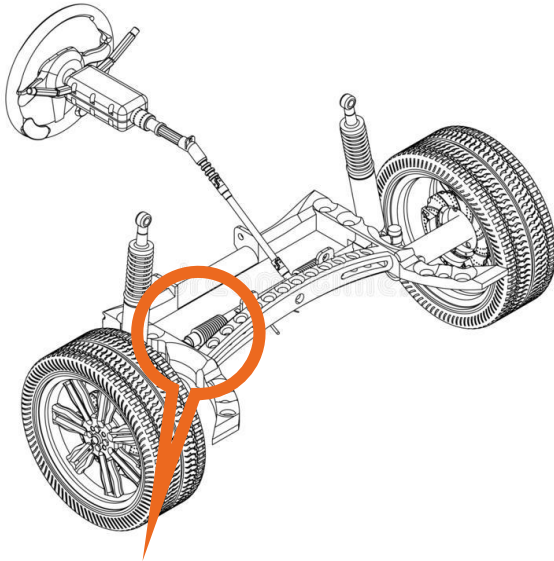


Drilling & Mining Applications

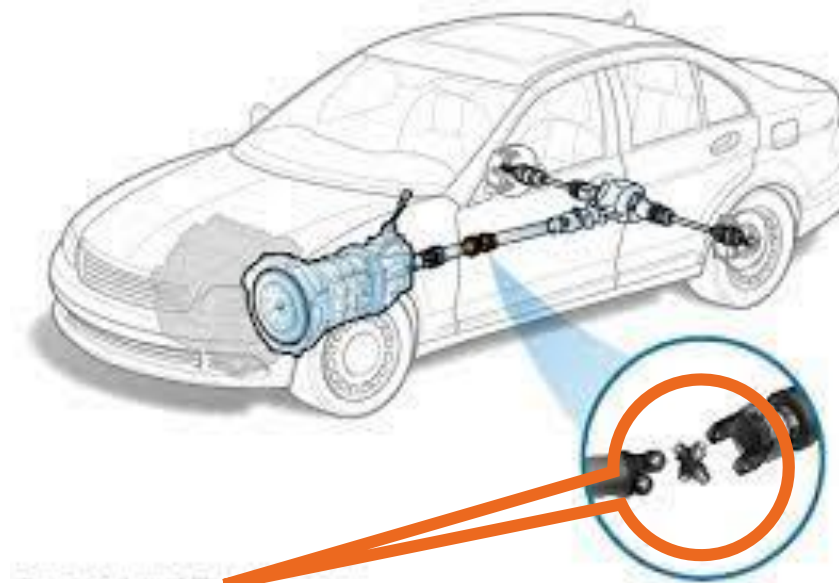
- Legs & Cones for Tricone upto 17 ½
- Driver Sub
- Pick Holder
- Main Shaft Sleeve
- Drive Stub Shafts
- Open Die Forged Parts for Stone Crushe
- Jack Hammer - Front Head / Back Head Cylinder



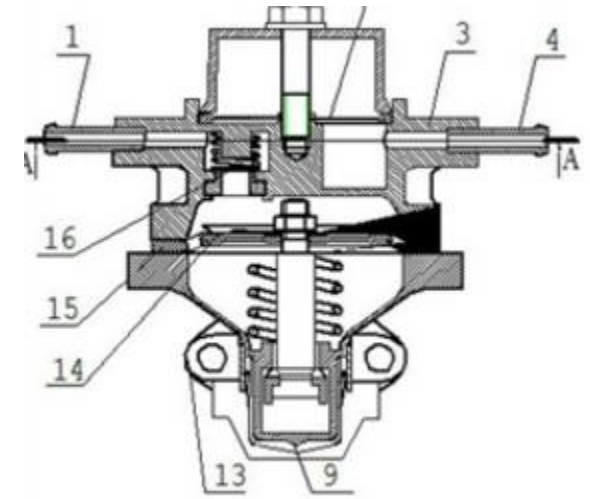
Automotive Applications



Stub Yokes and Steering
Parts



Universal Joint yokes



Fuel injection pump body
for gasoline engines

Western Heat & Forge Pvt. Ltd.

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Thank You!!!!

