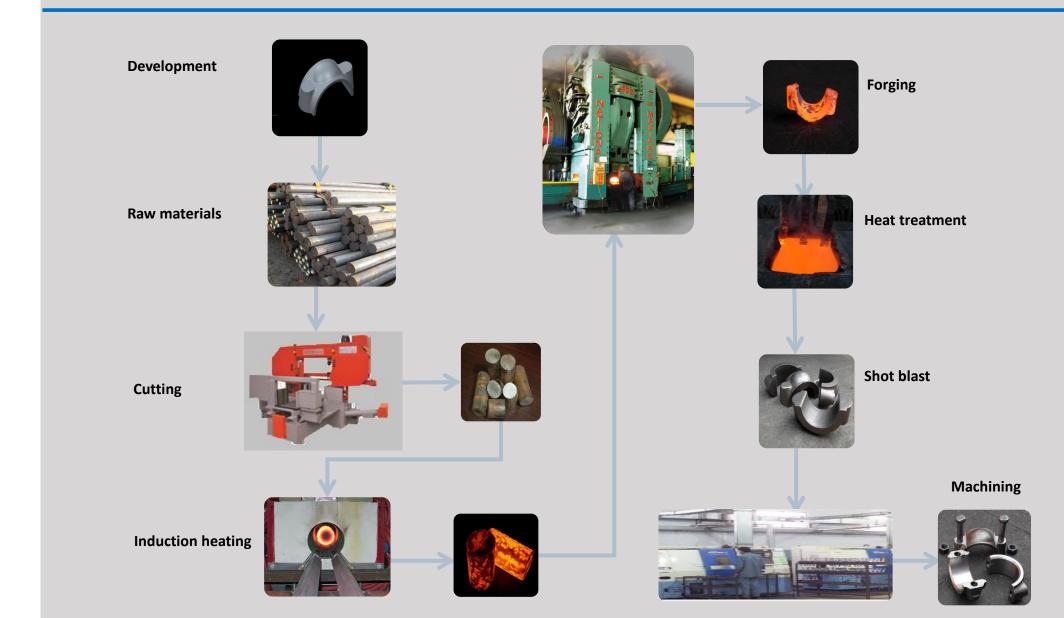


Mannan Shahid Forgings Limited



MSF - A complete forging house





Design & Development



- MSF is fully equipped to provide a range of services including:
 - Developing components according to prints
 - Reverse engineering components as per samples
 - Redesigning existing components



- All performance critical features of a component are discussed threadbare with customer to correctly understand their needs
- Fully equipped design section and independent tooling production facility enable quick service for our customers
- New technologies are continuously inducted to improve design and development capability
- Q-Form, Pro-E and Vera Cad are used to design tooling
- Component are developed at MSF risk customer pays initial tooling cost only after approval of samples





ZAT-OZA-LILLI

4000 Ton Forging Press



CMM

Production facilities

- 13 forging press lines (300 to 4000 MT) provides flexibility to forge components of various weights (0.1kg to 25.0kg) and sizes (max dia 350mm)
- Fully dedicate ring rolling facilities
- Magnetic Particle Inspection (MPI) or Crack detection facility
- Complete range of heat treatment (including induction hardening) and hardness testing
- CNC machining and turning centers
- State of the art inspection and measuring equipment including Coordinates

 Measuring Machine (CMM)

A comprehensive equipment list and range of products is available at the next slide



Product / Services Information and Client Base

Forging Services Product weight and dia		Post Forging Services	
		Heat treatment	
Forgings in carbon and alloy steel:		 Hardening and Tempering 	
Max. weight:	25.00 kg	Isothermal annealing	
Min. weight:	00.10 kg	 Normalizing 	
 Max. dia – forged part: 	350.0 mm	Liquid Carburizing/Nitriding	
 Max. dia – rolled rings 	500.0 mm	Induction Hardening	
		 Rockwell & Brinell hardness testing 	
		Shot Blasting	
		Cold Coining	
		 Magnetic/Ultrasonic crack detection 	
		 Machining and CNC CMM - Inspection 	
		Dynamic Balancing	
Minimum Lot Size		Local Customers	
 1000 - 5,000 pieces (Depends on the size of the 		 Massey Ferguson Tractors 	
and weight of the component)		Honda Motorcycles	
		Perkins Engines	
Average Development Time			
● 10 – 12 weeks		Exports to	
		 Europe(Germany, Italy, France, UK) 	
Production Capacity		• USA	
• 15,000 MT/Year		Brazil	

South Africa



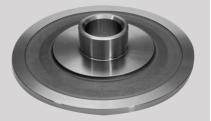
Gears











Yokes











Conveyors









Fifth Wheel





Brake Spyder







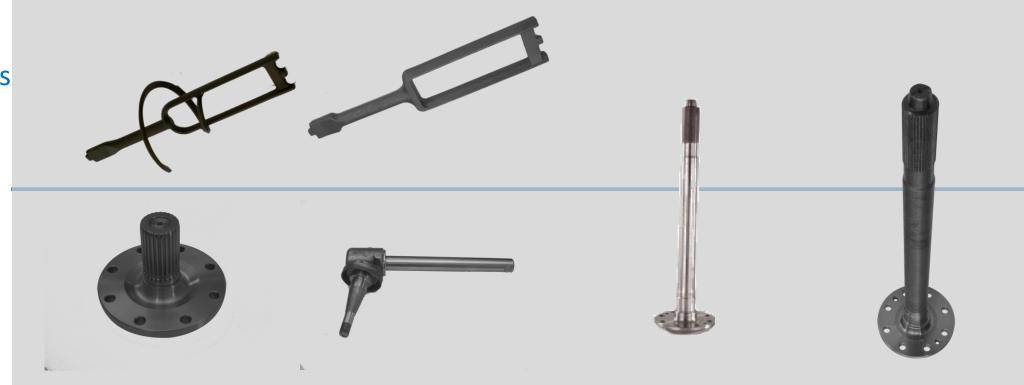


Engine parts



Mischwendles

Axles





Trailer parts



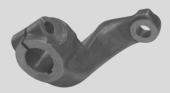




Steering parts







Gear shifters











Mannan Shahid Forgings Ltd Certificate of Registration

Quality certifications

- MSF implements a quality management system that is IATF 16949:2016
- Certification Audit and Reviews are conducted by United Registrar Systems under license from UKAS Management Systems
- The current certificates are valid till January 23rd 2021





Credit Rating

Our current Credit Ratings are as follows:

Short Term A minus

Long Term A-2

Outlook Stable

18 April 2019 Ratings published

VIS Credit Rating Company Limited VIS Credit Rating Company Limited Rating Agency:



Geographical reach and customer reference









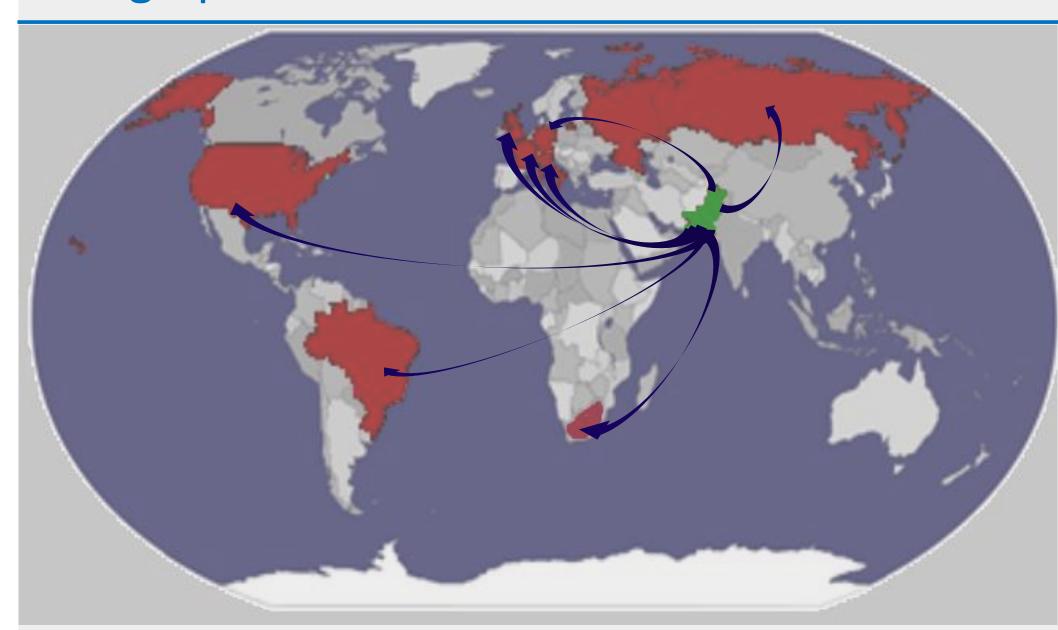














Robust Global Value Chain

- Competitive Prices
- Consistent Quality
- On time Delivery
- World-Class Customer Support



Thank you