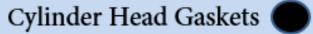


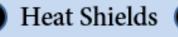
COOPER GASKETS

Moving ahead with excellence...









Rubber Gaskets

Washer & Shims

Exhaust Manifold Gaskets

● N

MLS Gaskets

COMPANY PROFILE





Established: 1978

Sales Turnover : 272 Million

Covered Area :2100 Square Metres

Location : Panchkula, Haryana

Number of Employees :80

LEADERSHIP ORGANIZATIONAL CHART







MR. VIVEK SHARMA **HOD- SALES, PURCHASE & PRODUCTION** EXP: 12 YEARS



MR. RAMESH **HOD-HR**

EXP: 27 YEARS



MR. AJAY PATHANIA **HOD- RESEARCH & DEVELOPMENT** EXP: 14 YEARS



MR. SAIDUL ISLAM **HOD - TOOL ROOM & MAINTENANCE** EXP: 38 YEARS



MR. DEVENDER **HOD - ACCOUNTS**

EXP: 27 YEARS

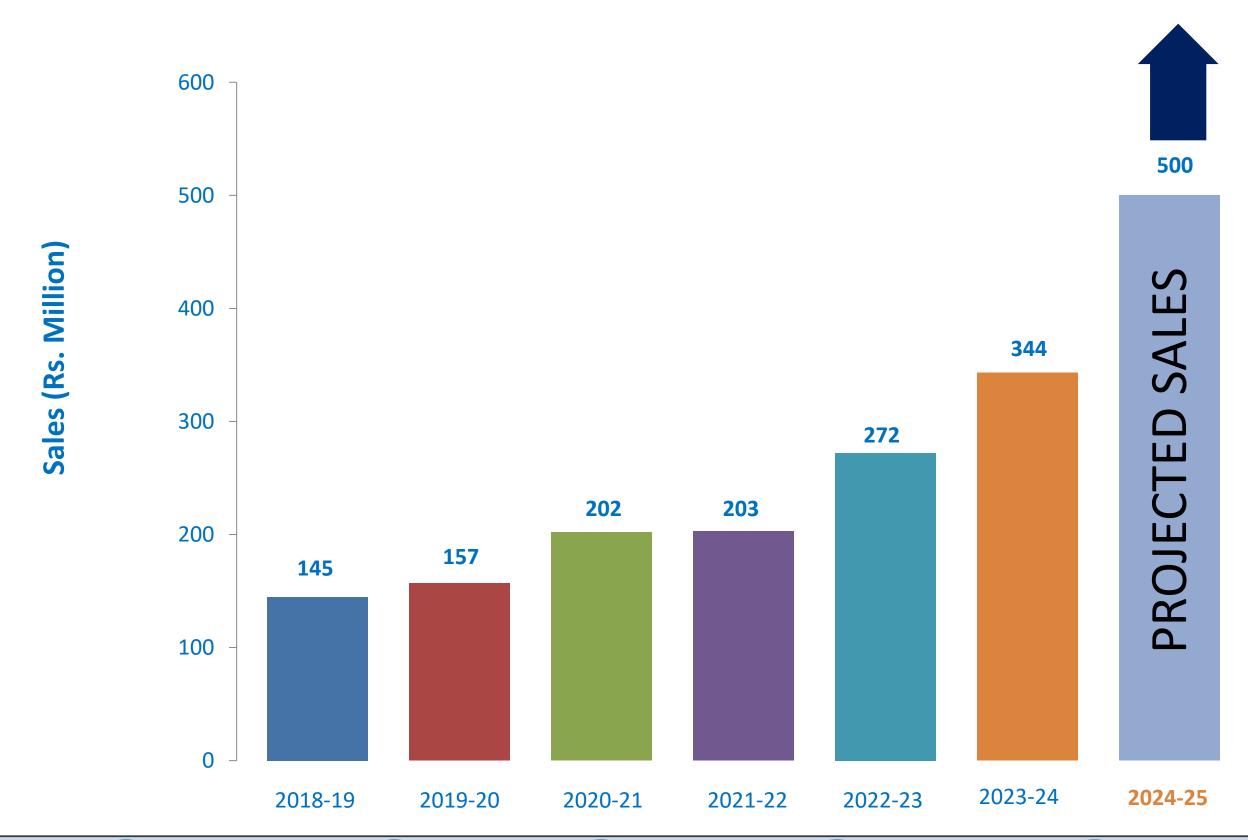


MR. AMIT KUMAR **HOD - QUALITY**

EXP: 16 YEARS

SALES





Cylinder Head Gaskets (

Secondary Gaskets

Heat Shields

Rubb 💮 Rubb

Rubber Gaskets

Washer & Shims

Exhaust Manifold Gaskets

MLS Gaskets

CUSTOMERS





























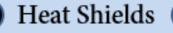






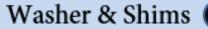




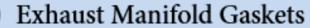












PRODUCT RANGE

Cylinder Head Gasket

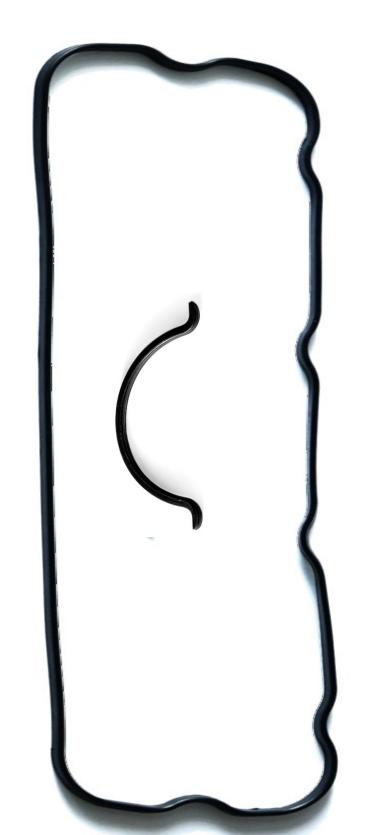
Exhaust Manifold Gasket

Secondary Gaskets

Oil Pan Valve Cover Intake Manifold Oil Pump Water Pump

Shims & Washers

Heat Shield







Secondary Gaskets Heat Shields

Rubber Gaskets

Washer & Shims

Exhaust Manifold Gaskets

MLS Gaskets

CYLINDER HEAD GASKET

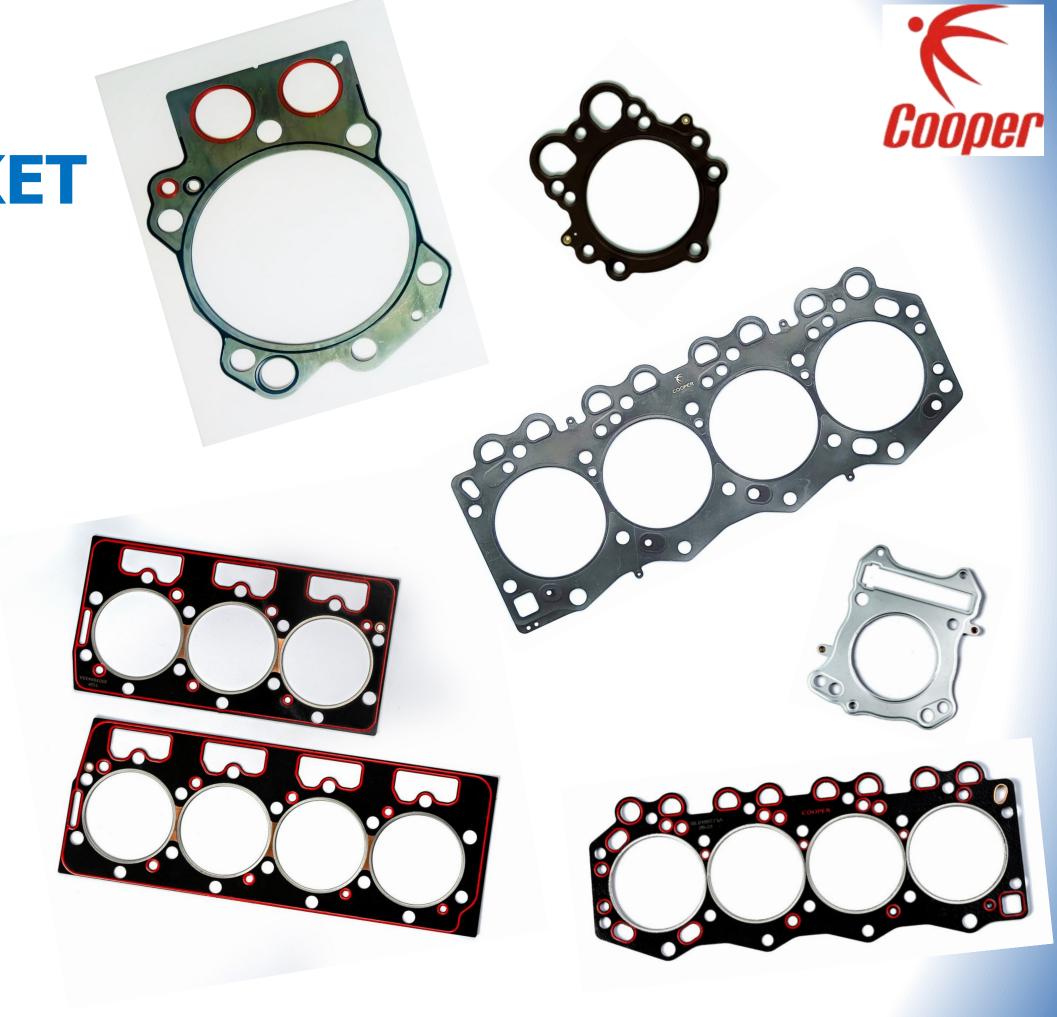
Capacity: 350 CC to 3500 CC

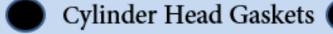
Multi Layer Steel

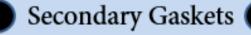
Single Layer Steel

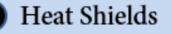
Steel Edge Moulded

Non Asbestos Composite



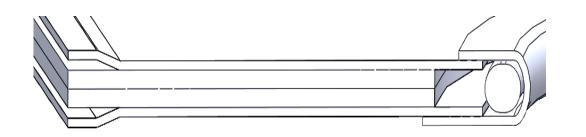








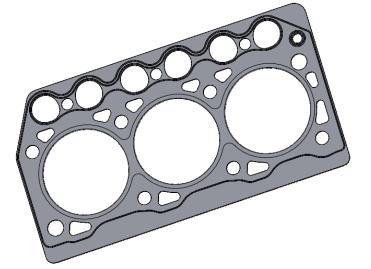
Multi Layer Steel Cylinder Head Gasket

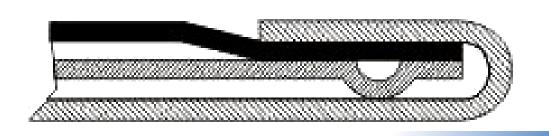


Advantages

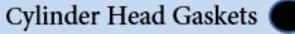
- Durability
- Lower combustion chamber crevice volume
- Reduced bore distortion
- Low hot creep relaxation
- Elastic conformability

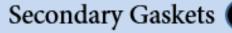


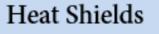








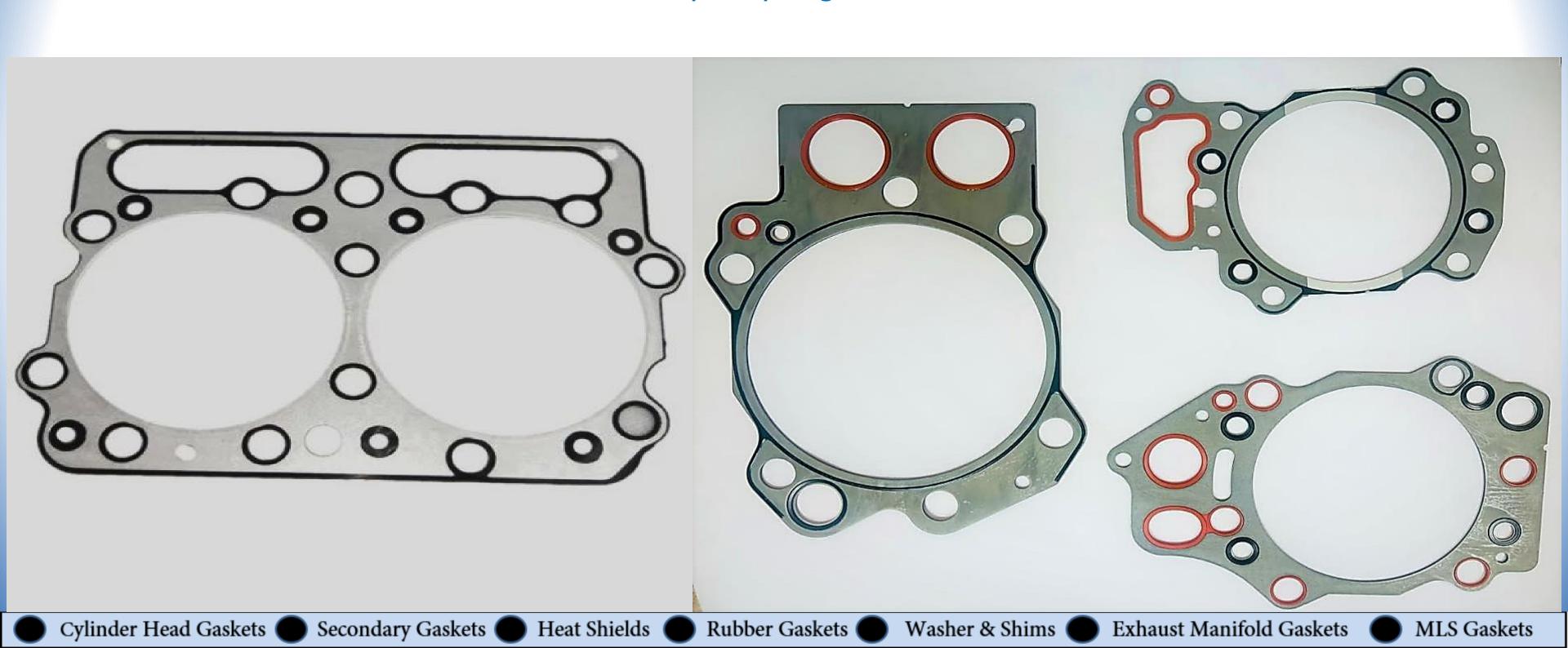




Steel Edge Moulded Cylinder Head Gasket



Used on Heavy Duty Engines



Exhaust Manifold and Seal Ring Gaskets

Cooper

Single Layer Steel

Non-Asbestos Composite

Wiremesh + Graphite

Ring with Non Asbestos

Spiral Wound Gasket



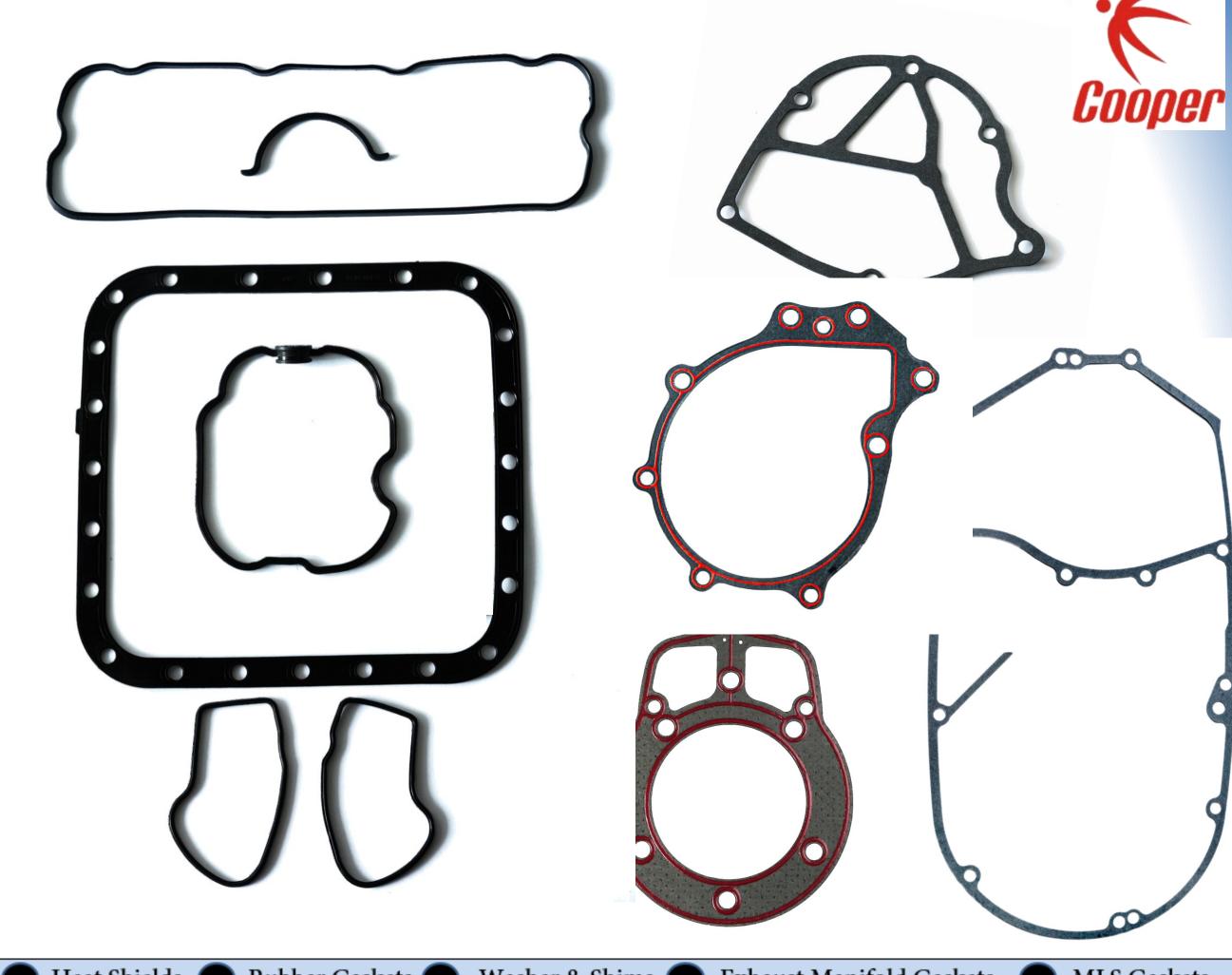
Secondary Gasket

Rubber Gaskets

Composite

Paper/Jointing Sheets

Rubberised Cork



Heat Shields



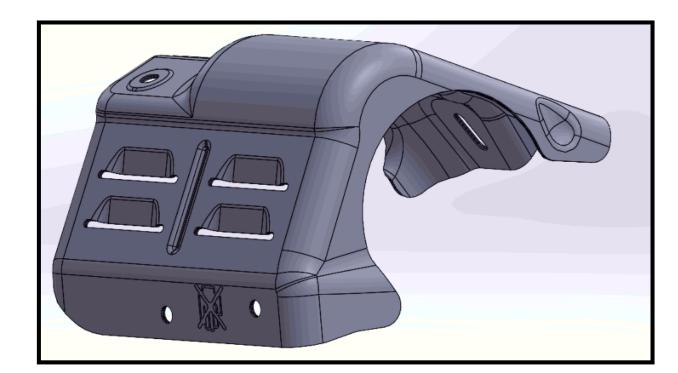
Aluminized Steel

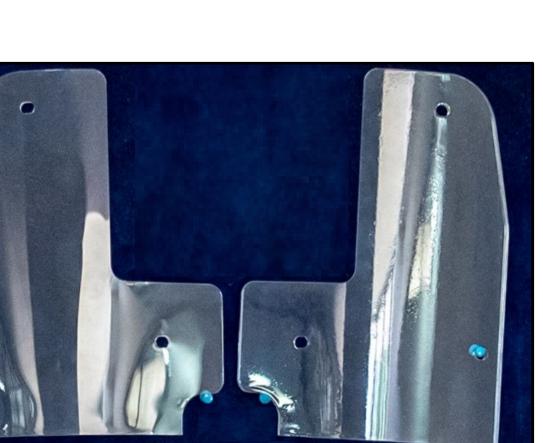
SA1D Aluminized Steel Heat Shields

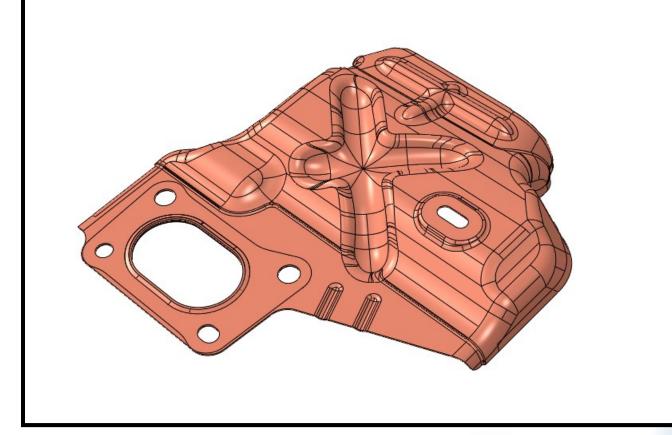
Dimpled Heat Shield

Acrylic

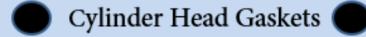
Composite

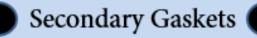




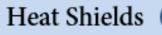






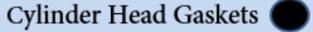




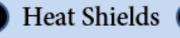




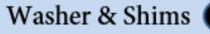


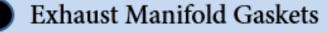




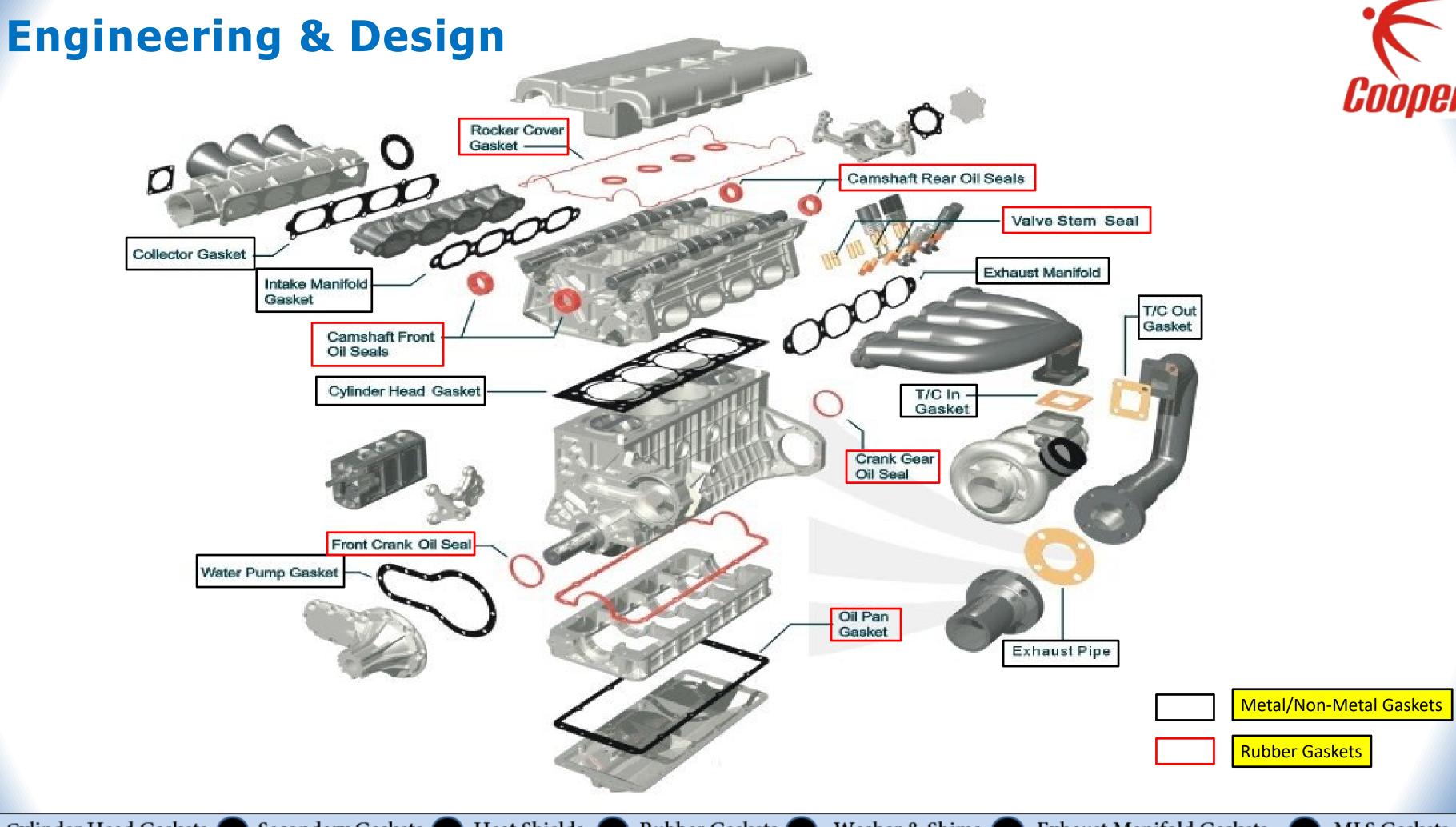




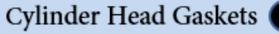




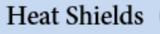














Washer & Shims

Exhaust Manifold Gaskets



MLS Gaskets



Cylinder Head Gaskets

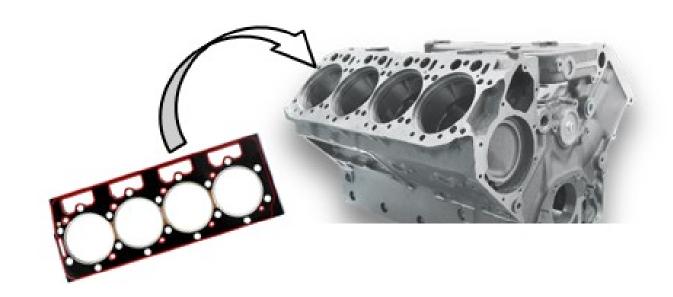
What is Required From a Cylinder Head Gasket?

It must seal both internally and externally:

- Combustion Gas
- Oil
- Coolant

It must meet the customer's expectations of:

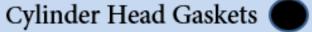
- Durability
- Consistent Quality
- Ease of Assembly/Disassembly
- Pressure Resistance
- Cost



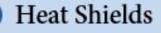
How Does a Cylinder Head Gasket Function:

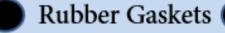
- Achieves gas and fluid sealing by redistributing available clamp load to sealing areas
- The Cylinder Head Gasket must:
 - accommodate any lack of head/block stiffness and flatness
 - accommodate thermal deflections
 - counterbalance the firing pressure
 - maintain a controlled head/block clearance





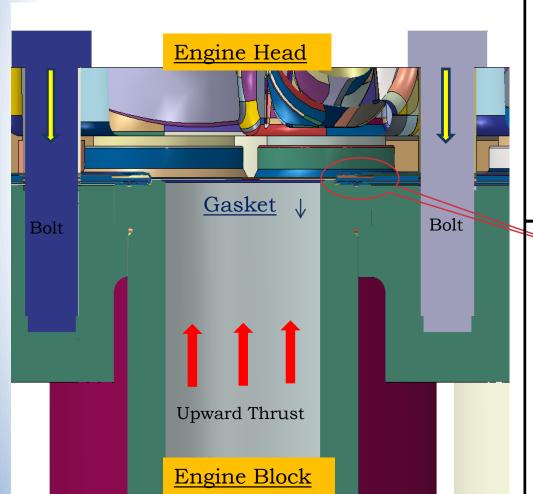


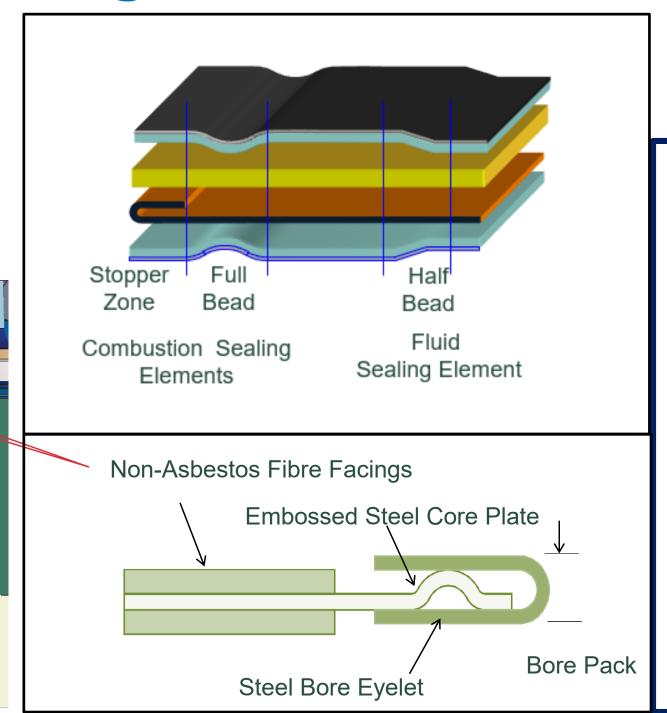


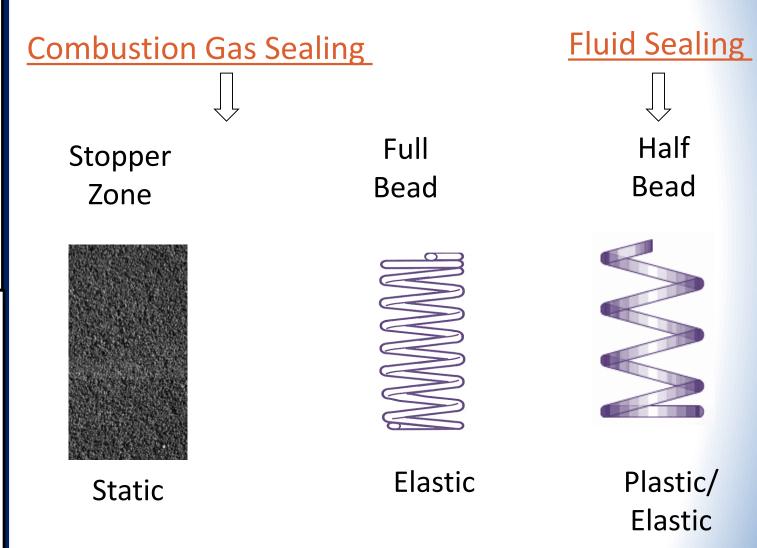


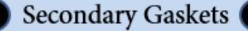


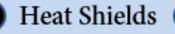
Multi-Layer Steel Gasket



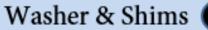












Exhaust Manifold Gaskets



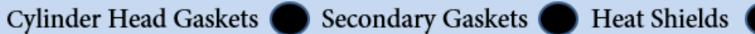


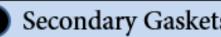
Inputs required from the Customer

_		 			
1	Combustion Type	Diesel/Gasoline/CNG	29	a. Cylinder Head Material	Al-alloy / cast iron
2	Aspiration	Natural/Turbo/Supercharged	1	Material Standard	
3	Ignition	Spark /Compression	1∟	2. Young's Modulus	GPa/Mpa/N/mm2
<u> </u>	Compression ratio		┨	3. Poisson's Ratio	
-			∤	4. Density	Tonne/mm3
5	Fuel injection type	Carb/Mpi/Spi/Di/IDI	<u> </u>	5. Yield Strength at Room Temp	
6	Valve Train	Push Rod/SOHC/DOHC		6. Yield Strength at an Elevated Temp	
7	Working principle	2 stroke/4 stroke	31	Casting Tolerance (Holes/Ports)	Please identify casted holes/ports
8	Cylinder configuration	Inline/V type	1	Tolerances (min/max)	μ
—	Max. Torque	Nm	31	Machining Tolerance (Cd / Position Tol.)	Please identify machined holes/ports
			∤ ∟	Tolerances (min/max)	μ
	Max. Power	Kw	1		
11	Speed @ max power	RPM	67	Number of Police	
12	Speed @ max torque	RPM		Number of Bolts	M2 M100 / If Other Please specify)
	Peak Combustion Pressure	Bar	68 69	Metric Threads Standard Bolt Grade	M2-M100-(If Other Please specify)
			69.1	Bolt head diameter	mm
				Don't House statistics:	
21	Max oil pressure	bar	70	Yield Strength	N/mm2/Mpa
	Max oil Temperature	°C	71	Nominal Cylinder Head Bolts force	KN
			72	Cylinder Head Bolts strength	N/mm2
	Oil and Coolant Passages:	locations and sizes of oil and coolant passages	73	Expected bolt force loss	%
22.2	Tolerances and Clearances		73.1	Maximum Allowed Elongation	mm
23	Oil Grade		74	Tightening Torque	Nm
24	Engine Mounting Locations	Required Location snaps	1	1. Minimum Torque	Nm
	Compressed thickness of CHG.		1	2. Nominal Torque	Nm
1	Compressed unormose of original			3. Maximum Torque	Nm
25		mm	75	Equivalent Bolt Force	KN

Tightening sequence					Nut runner or attach Tightening sequence chart				
Gasket Performance Requirements									
85	Gasket Sealing Acceptance Criteria					For Combustion Bead- If Any			
86	Gasket Sealing Acceptance Criteria					For Oil/Water/Bolt Beads-If Any			If Any



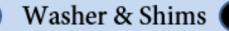










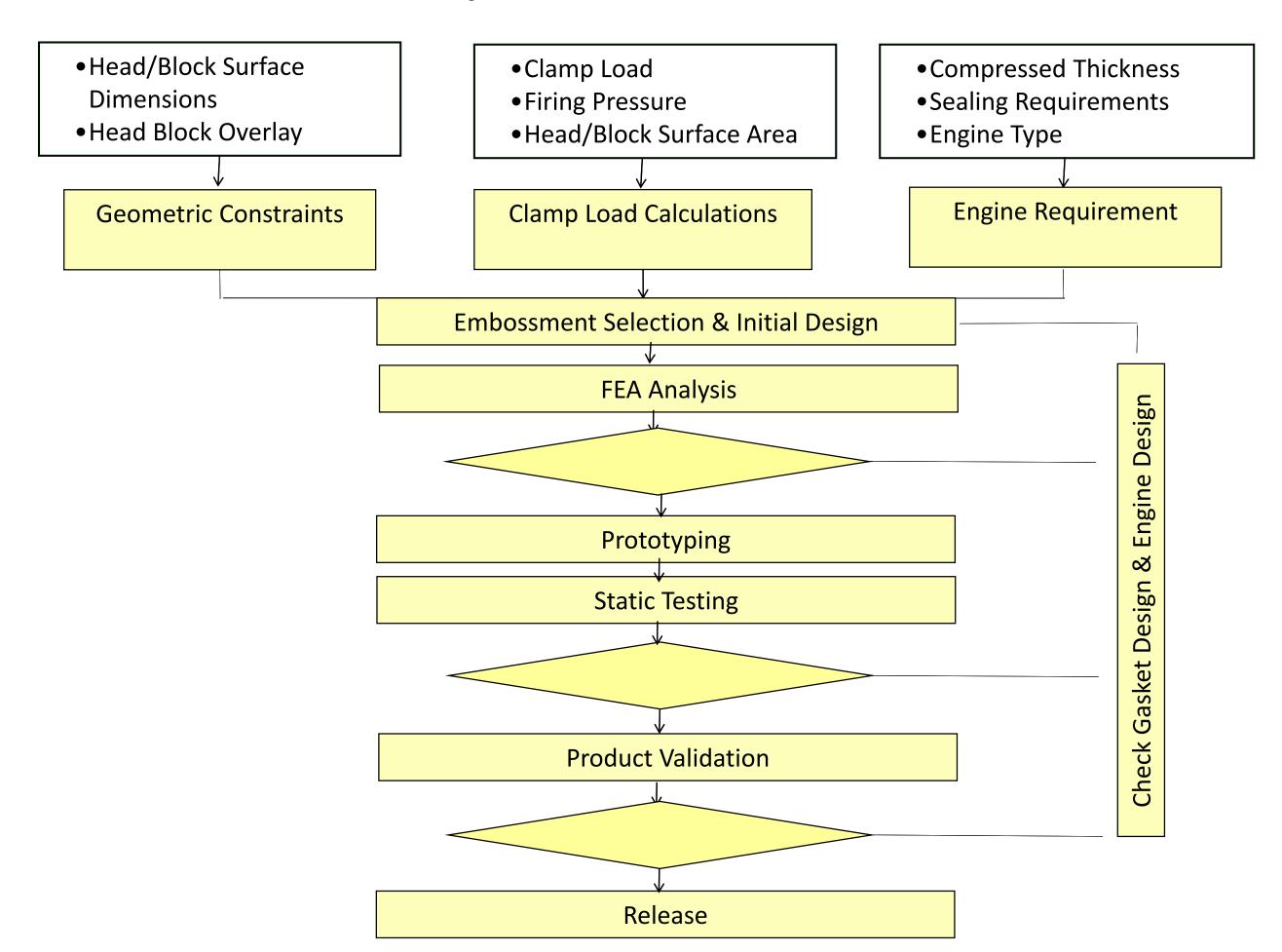




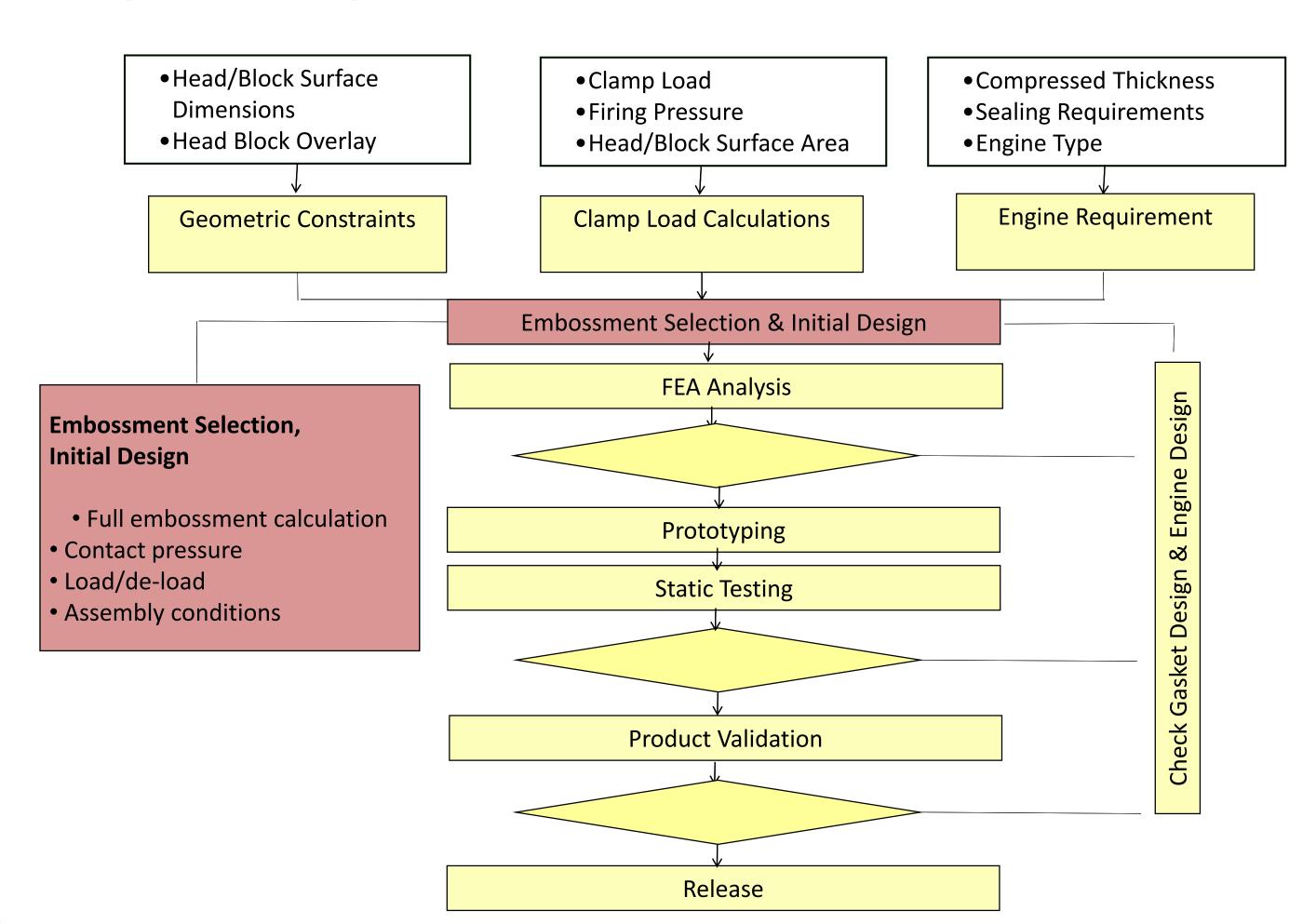


Cylinder Head Gaskets











Design Calculations

No. of Bolts : 17

Bolt Torque : 49 N-m, 50 N-m, 60Deg

Equivalent Liner Torque: 137 N-m

Bolt Load : 64.8 KN

Peak Pressure : 140 Bar

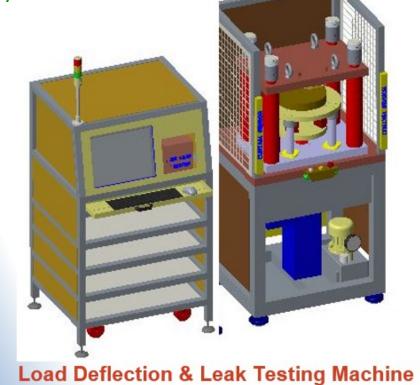
Bore Diameter : 97 MM

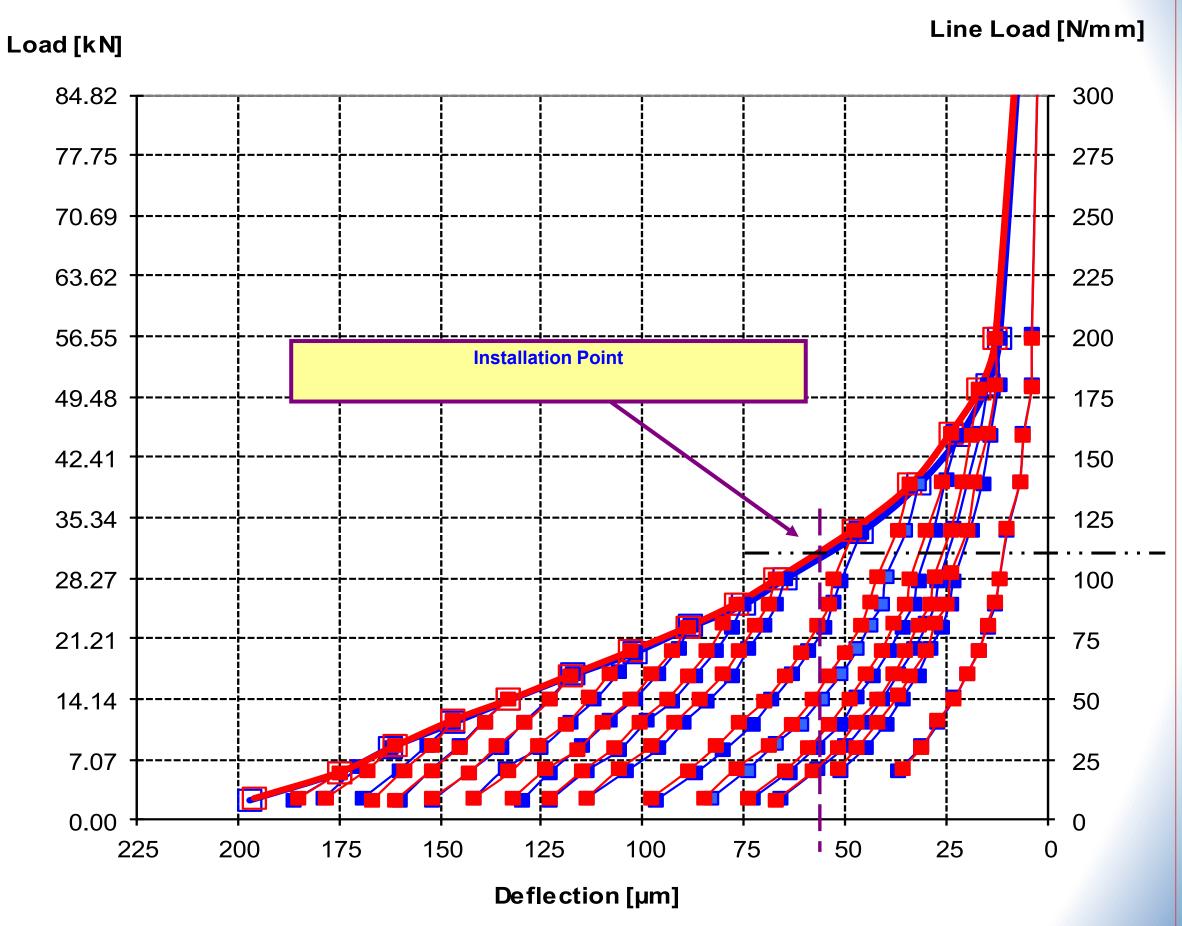
No. of Cylinder : 4

Clamping Factor: 2.58

Min. Required Line Load @ Installation

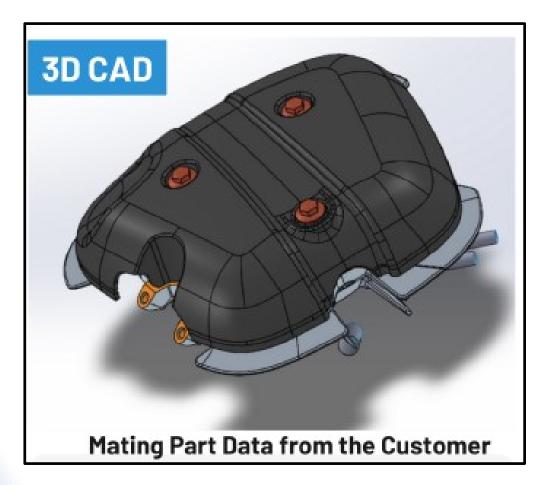


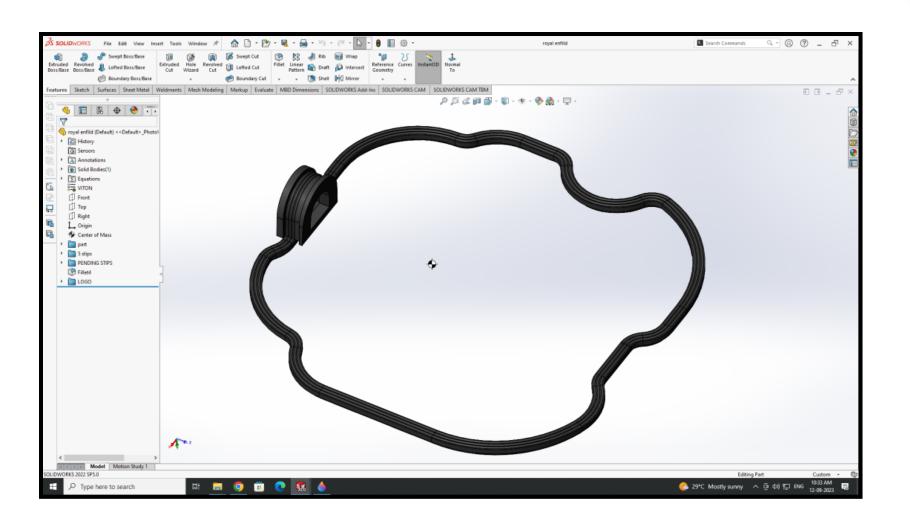




Engineering competence:

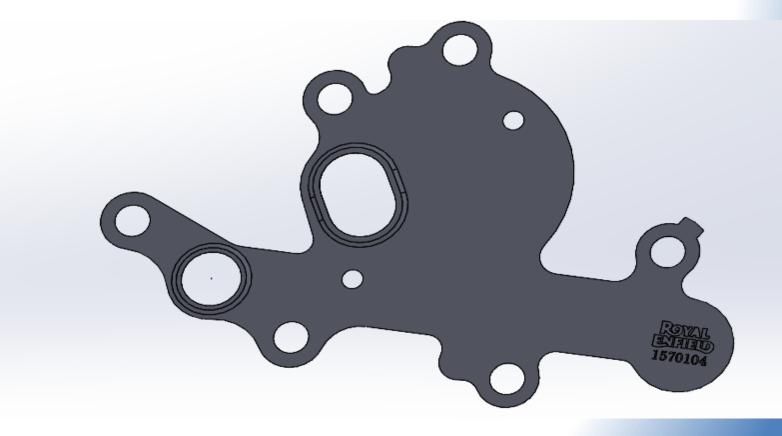








Interfaces: IGES, STEP, Part Files



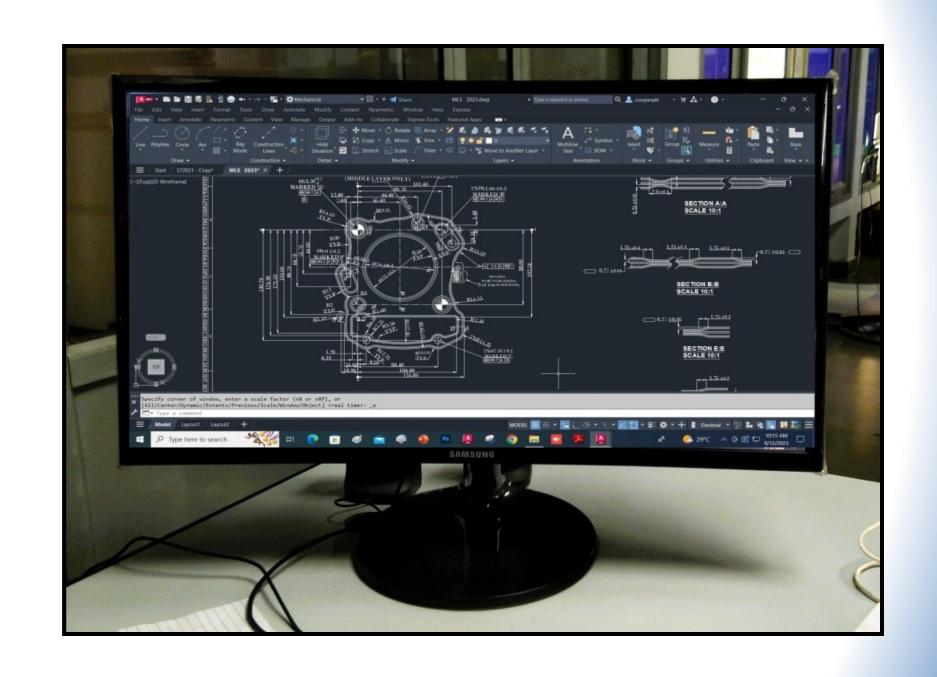


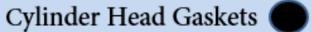
Drawing Generations

- Geometric shape and Profile Generation.
 - Dimensioning and Measurements
 - 2D Modeling
 - Drafting and Documentation

Interfaces: Dwg, DXF.

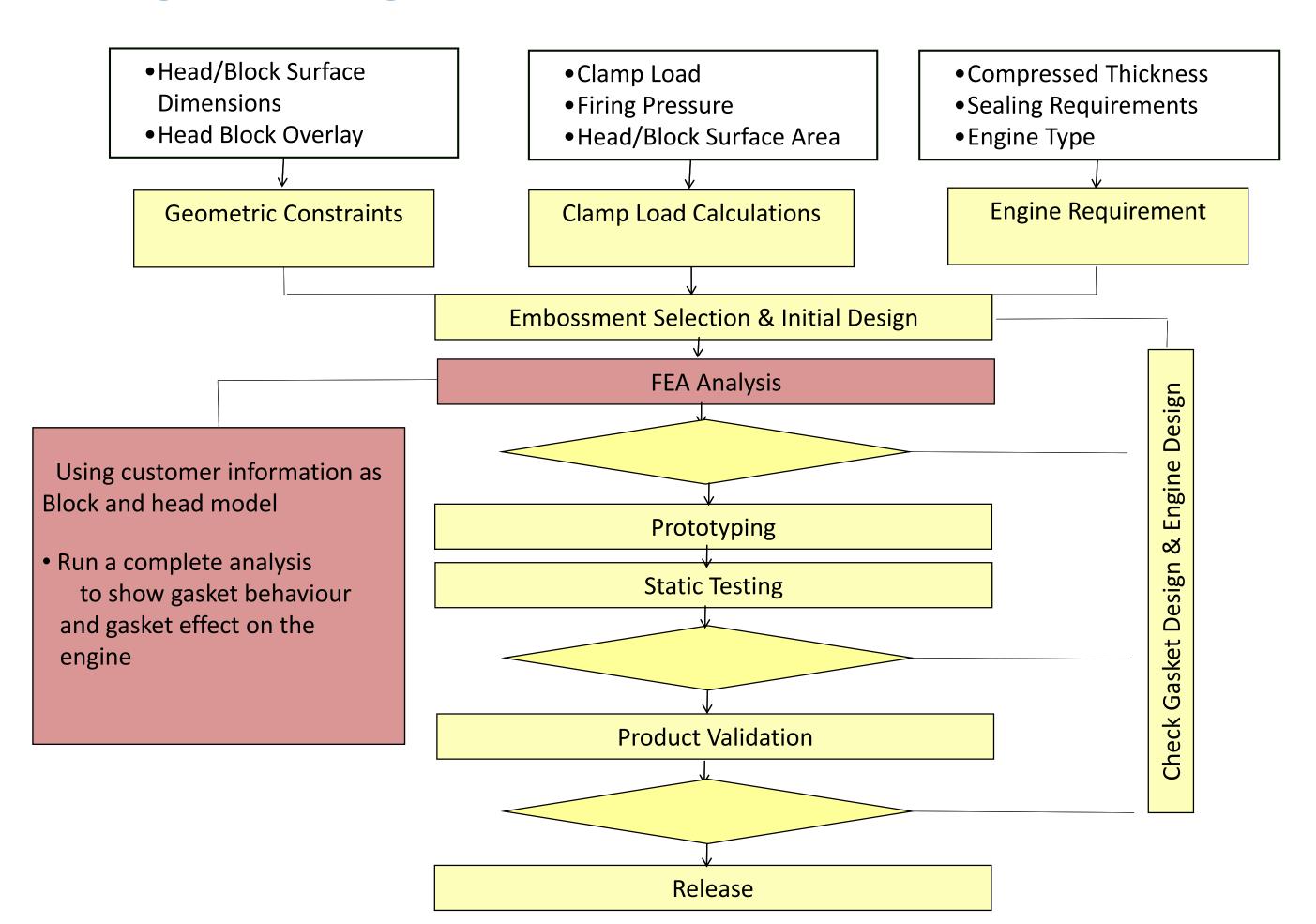














Finite Element Analysis

- Structural Linear/Non-Linear Analysis
 - **Dynamic Analysis-** behavior under dynamic loading conditions, such as vibration, impact, or shock.
 - Frequency Response Analysis Eigen Value Extraction
 - Coupled Thermal Structural Analysis
 - Thermal Analysis
 - Contact Pressure Analysis
 - Stress Analysis

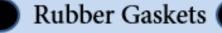




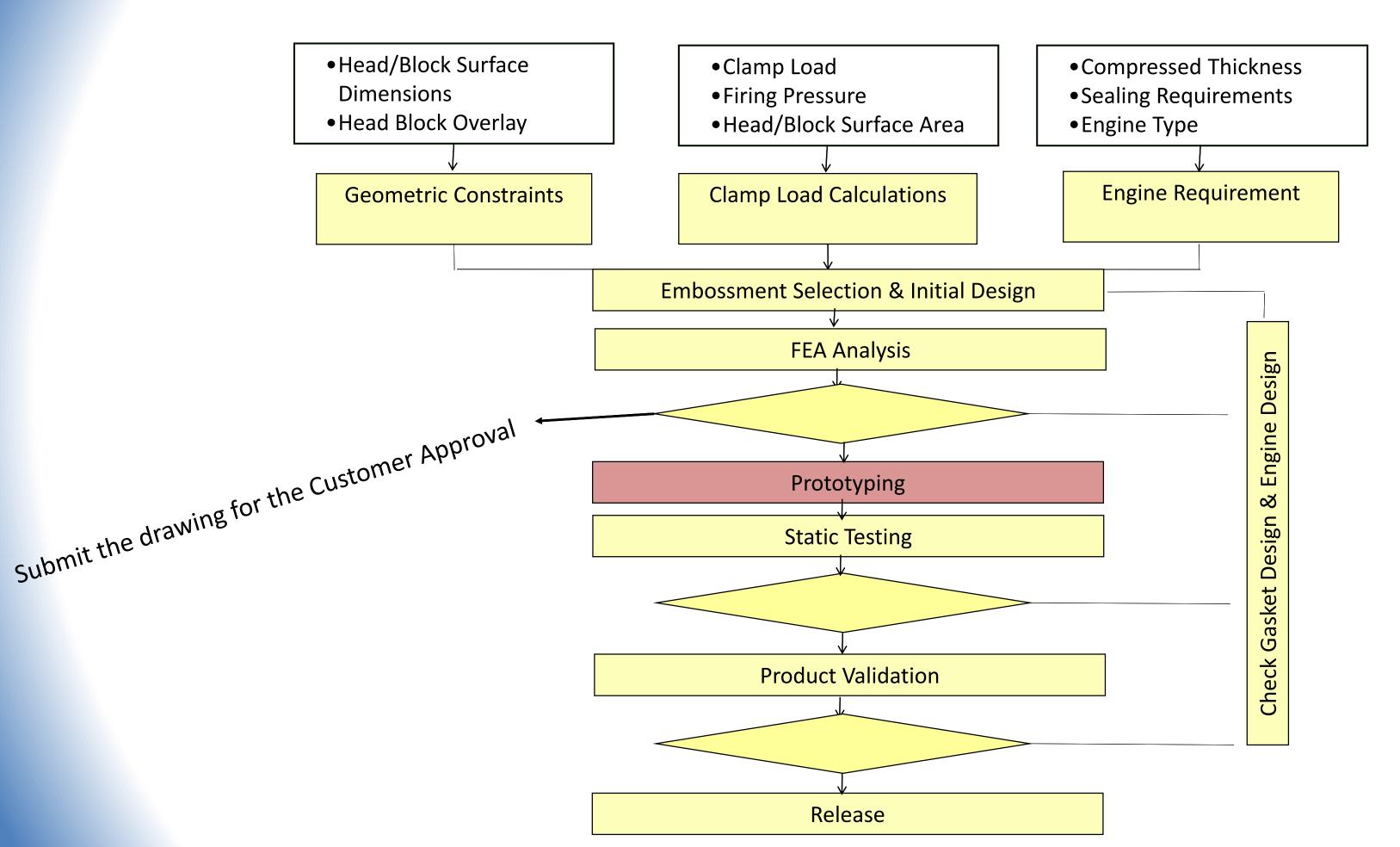




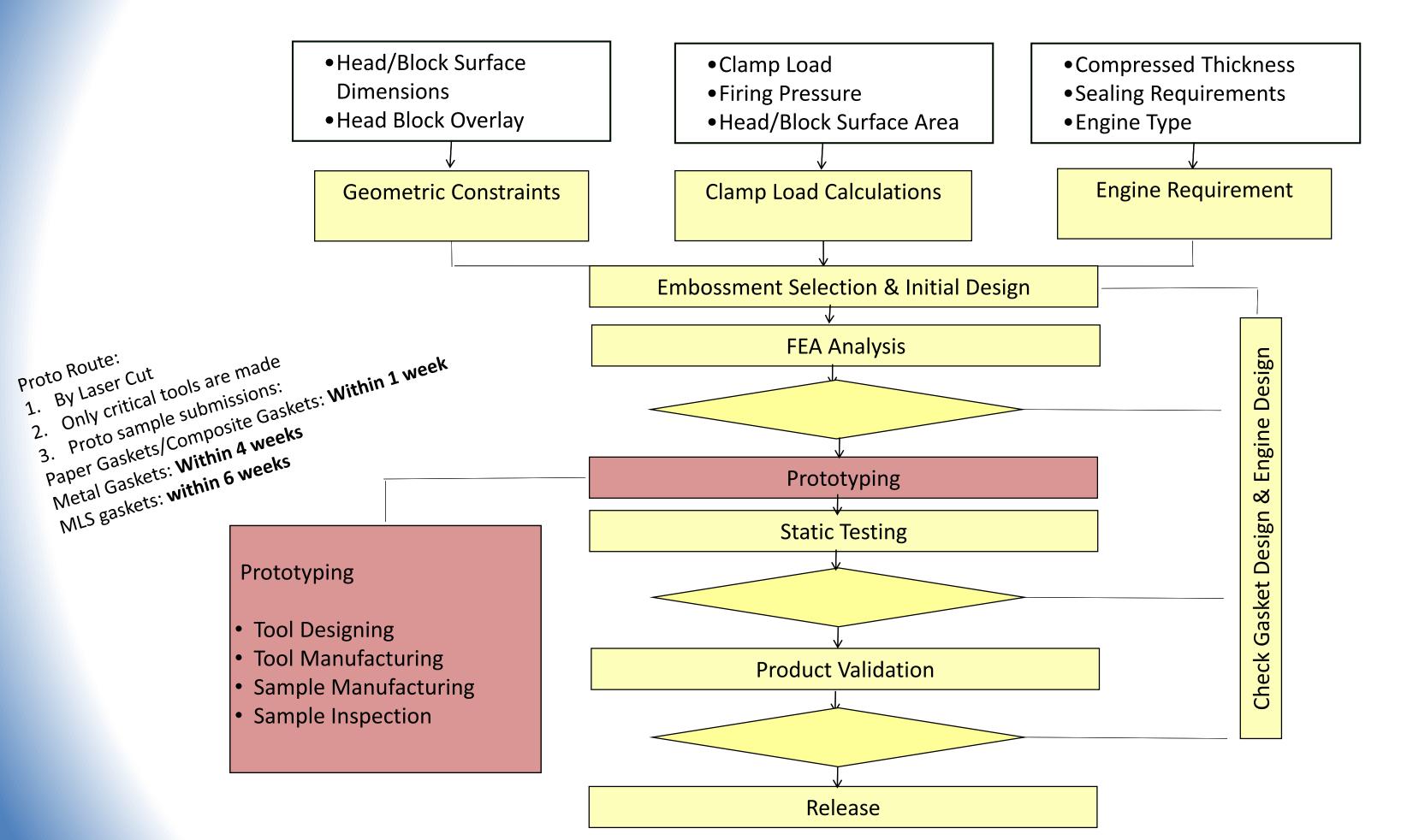




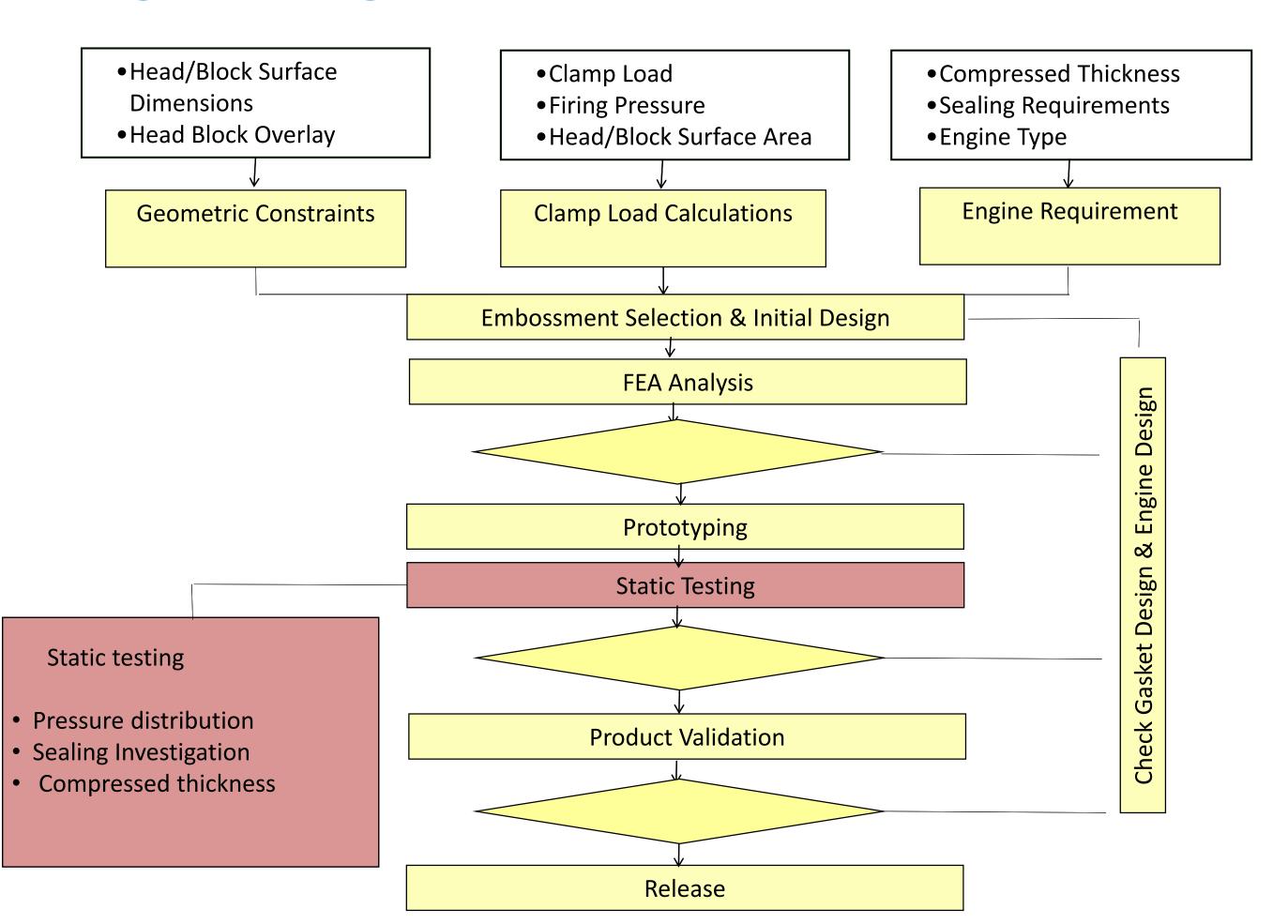








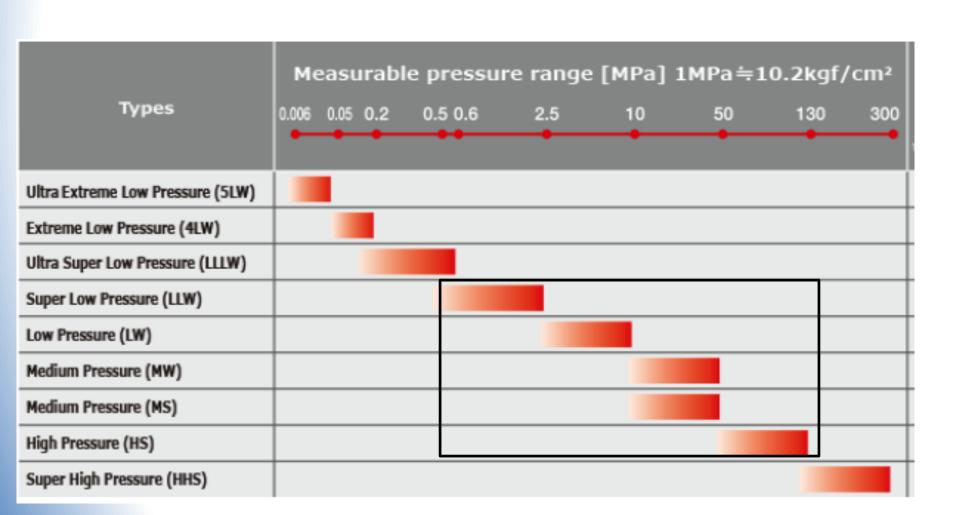


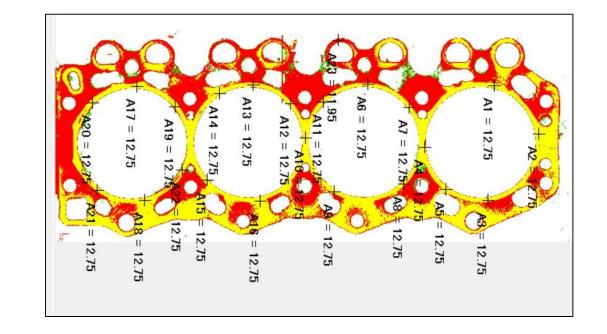




Static Testing:

Pressure Distribution- Fuji Film

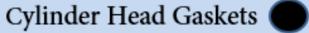


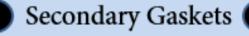


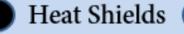


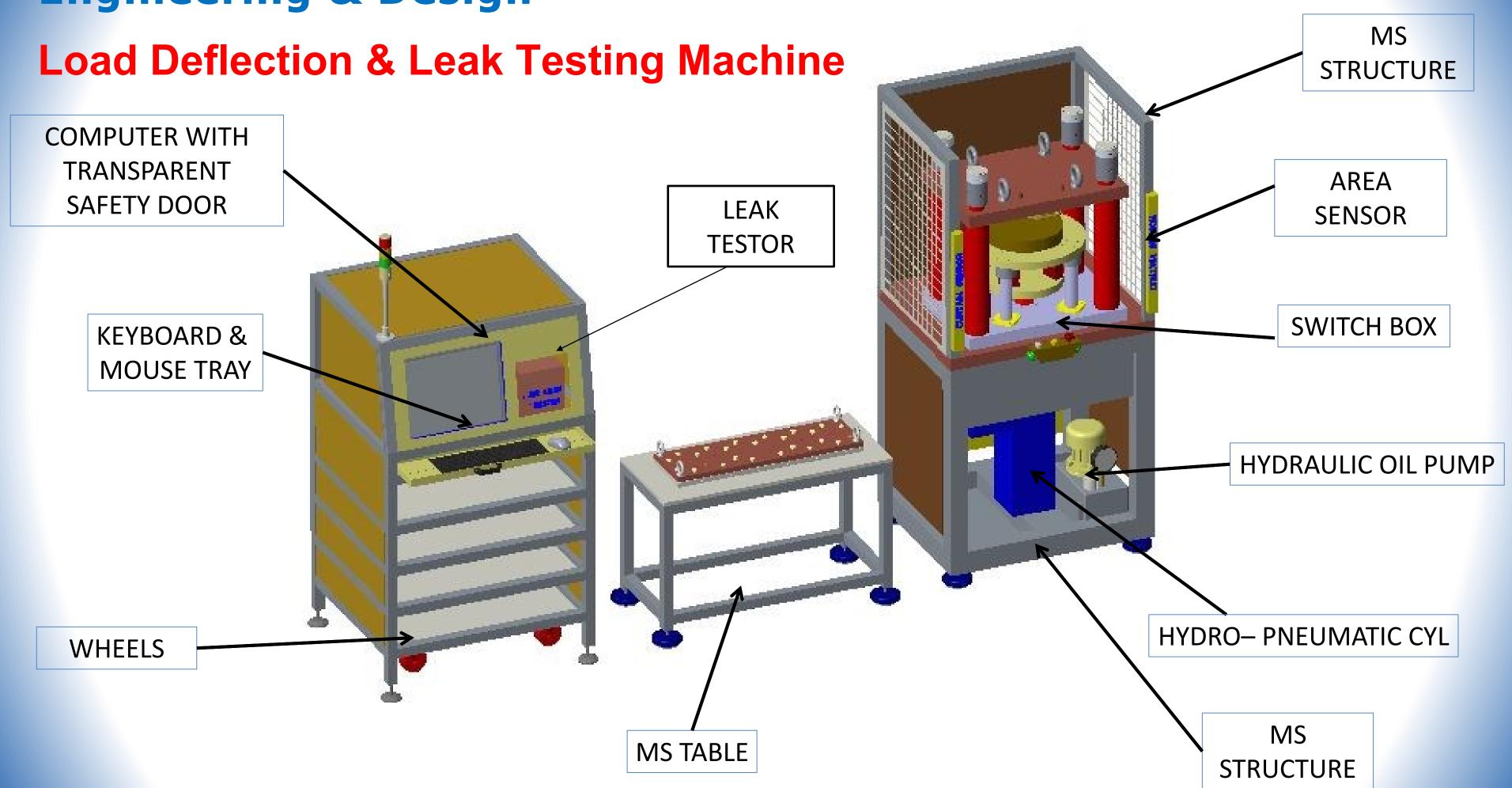








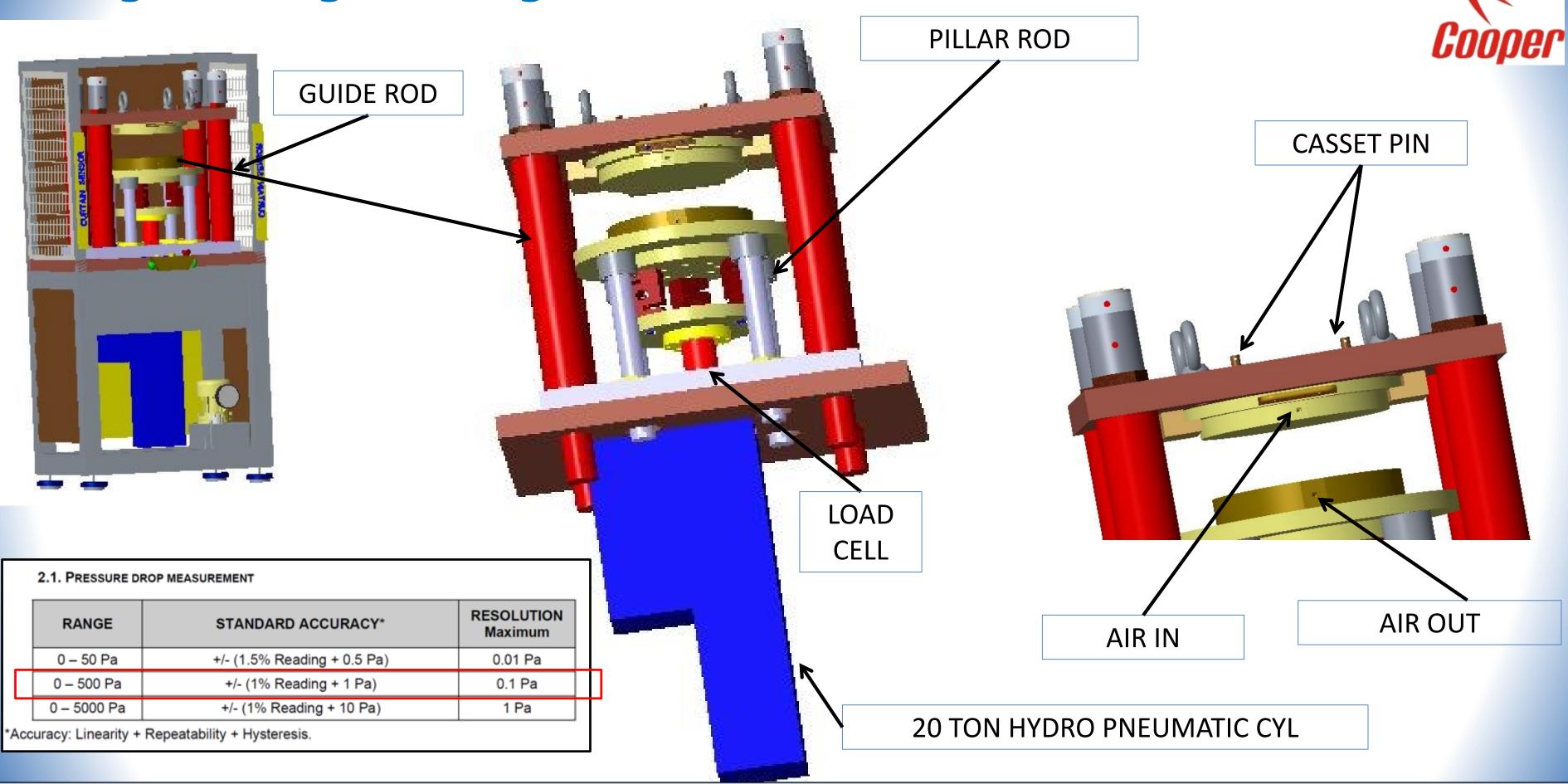




Cylinder Head Gaskets

Secondary Gaskets

Heat Shields



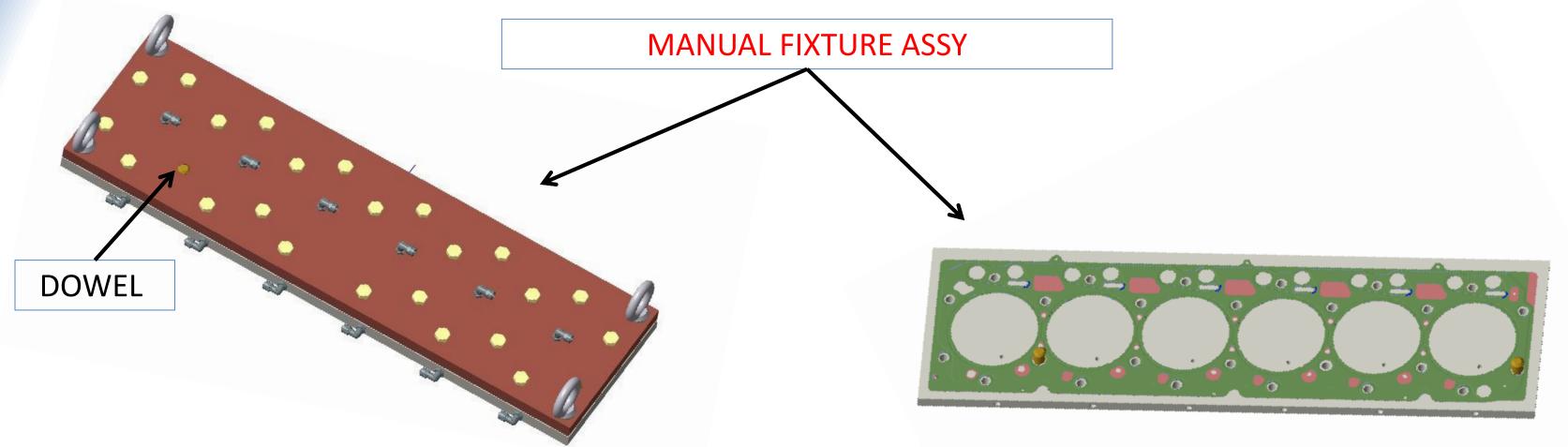
Rubber Gaskets

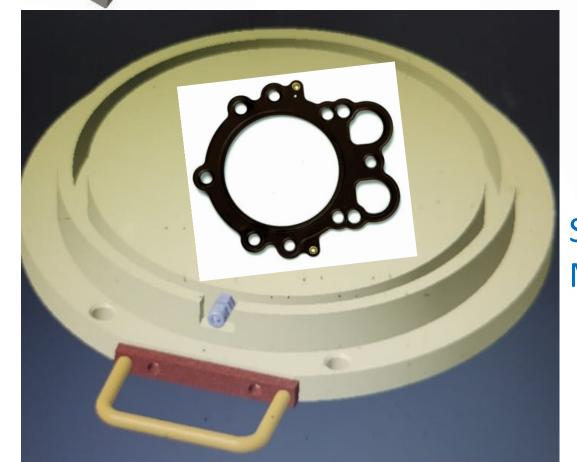
Washer & Shims

Exhaust Manifold Gaskets

MLS Gaskets







Setup for leak testing of single-bore MLS Gaskets and Secondary Gaskets



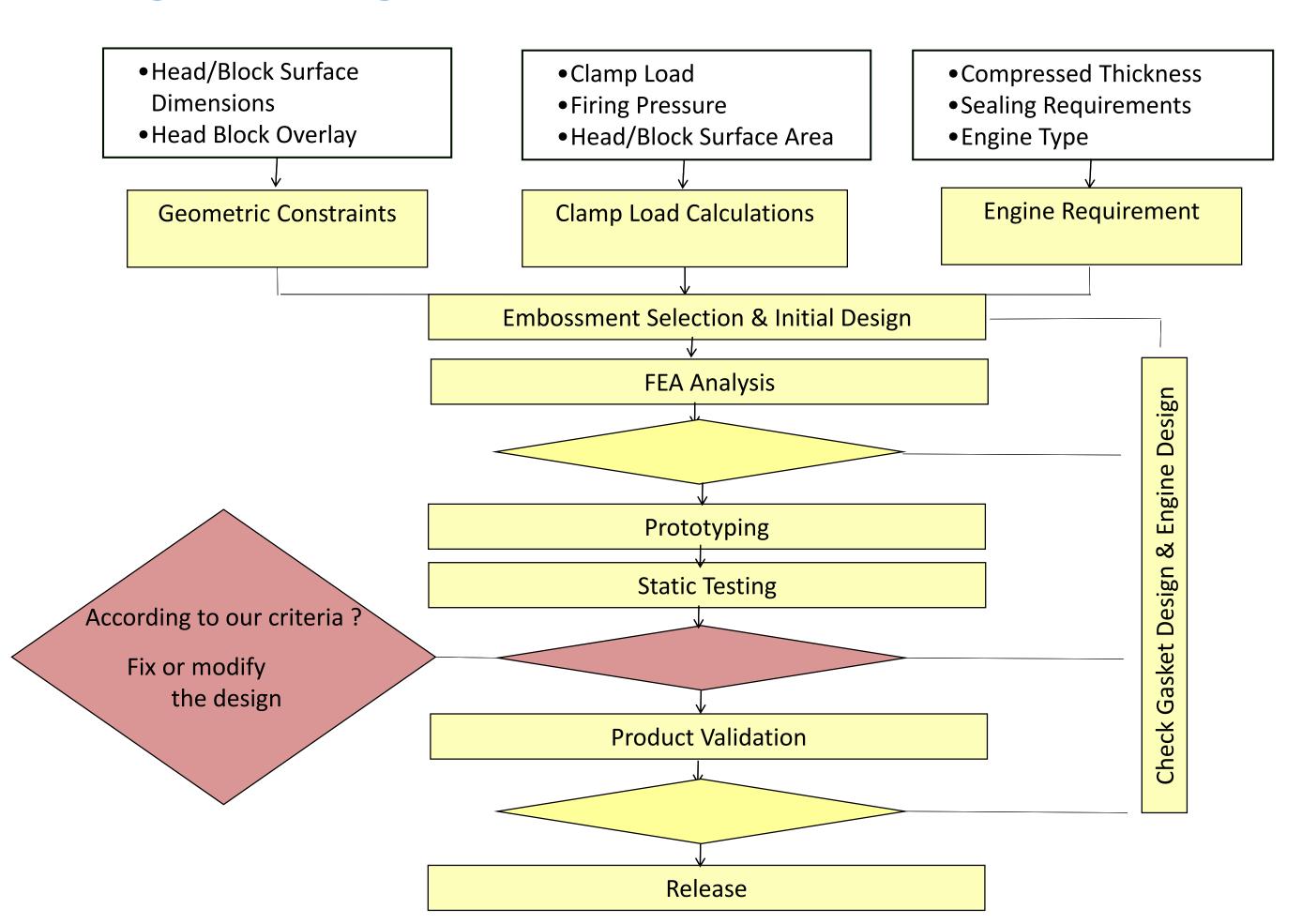
Static Testing:

Compressed Thickness- Lead Pellet Test:

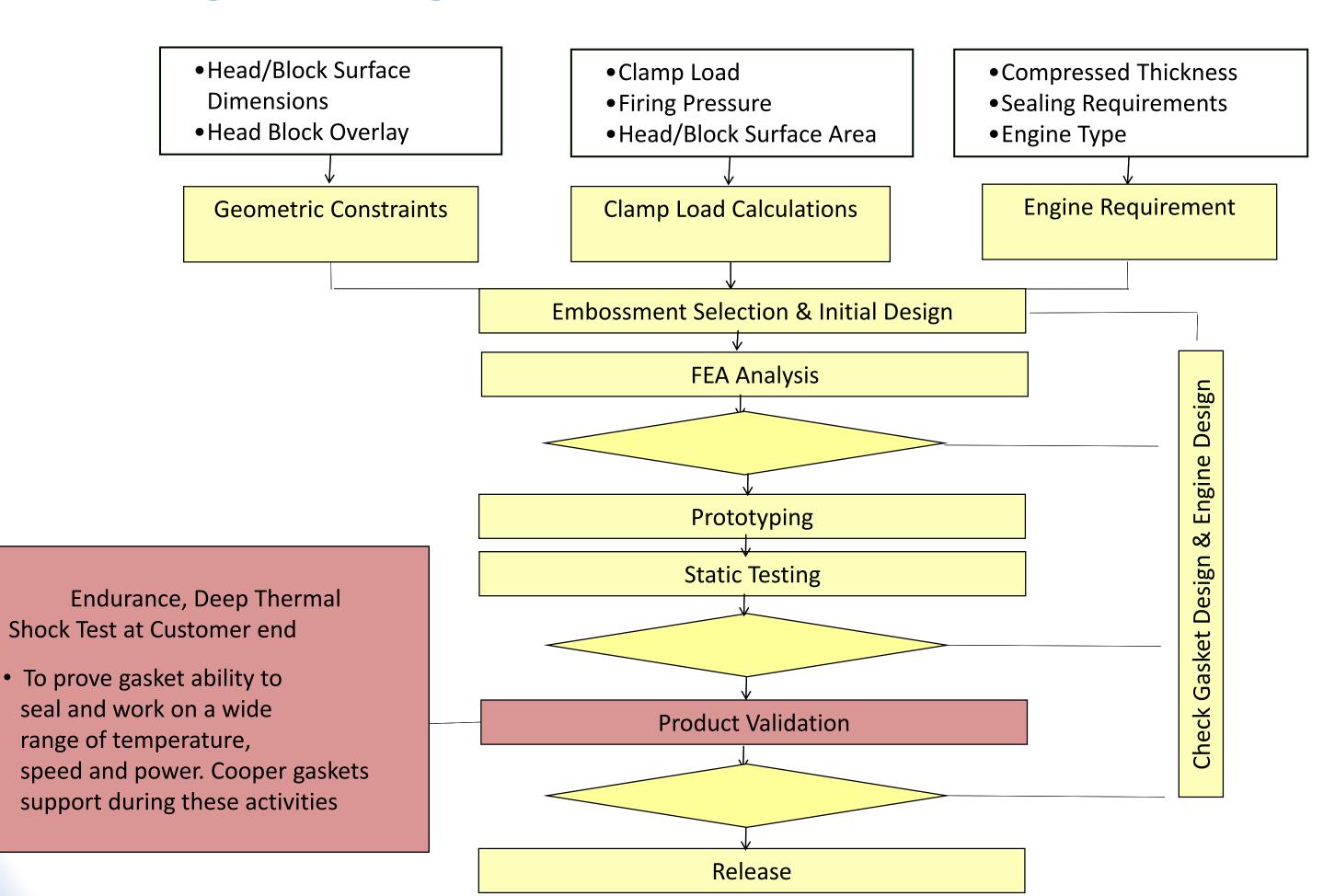
Lead shot Testing is being carried out at Customer End



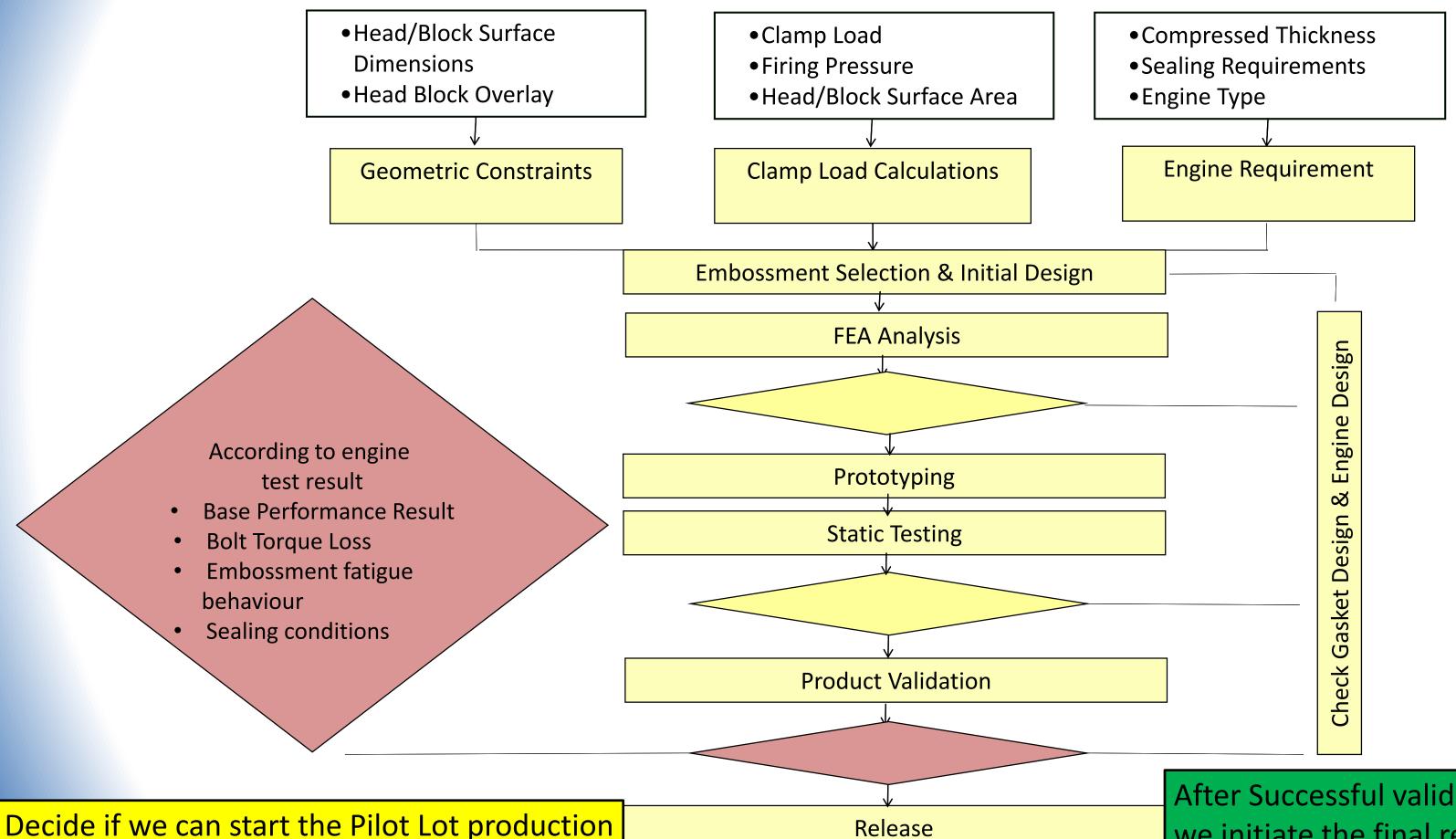












After Successful validation of the Pilot Lot, we initiate the final release process

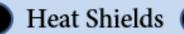


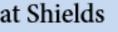
CASE STUDIES



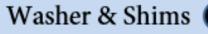


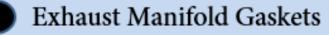










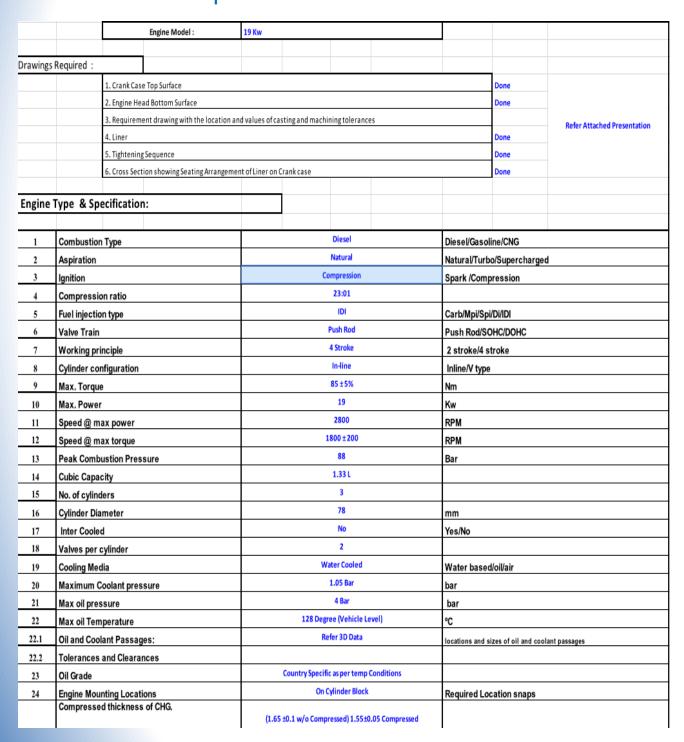


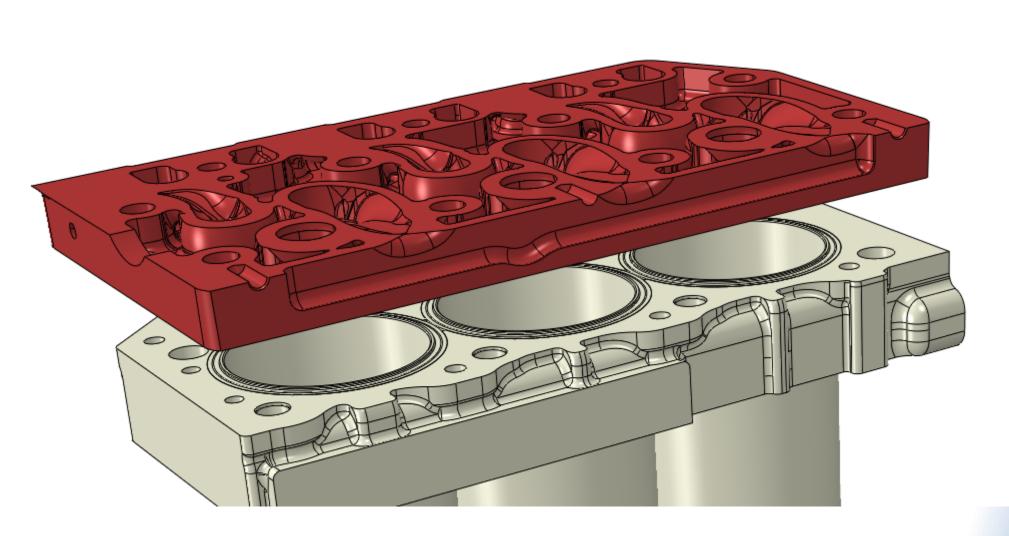




Case Study – Cylinder Head Gasket

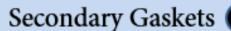
Inputs received from the Customer

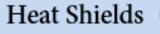




Head and Block received from the Customer









79.00

1.00

0.50

Case Study

Margin considered for Gasket ID (mm)

Bore Dia (mm)

Land (mm)

Gasket Design Calculations

20110 (11111)	
Embossment Width (mm)	3.00
Circ. of embos. Width around the bore if PCD not availabl	e
P.C.D of embossment around the bore (Manual Entry)	85.90
Circ. of embos. Width around the bore	269.86
Area of Embossment	5795.30
Area of embos. around the bore	
Area of Bore	4901.67
No. of Bores	3.00
Total length carrying load around the bore	809.59
Bolt Torque (N-m)	114.00
Bolt Torque (N-mm)	114000.00
Bolt Dia (mm)	12.00
Coefficient of Friction	0.18
Number of Bolts	8.00
Dolb Lood (NI)	F2 777 70
Bolt Load (N)	52,777.78 52.78
Bolt Load (KN)	4,22,222.22
Total Bolt Load (N)	4,22,222.22 422.22
Total Bolt Load (KN)	
Line Load (N/mm)	521.53
Line Load (N/mm) on embossment	110.82
Peak Firing Pressure (Mpa)	8.80
Dook Figins Load (Harroad Thurst) N	42424.70
Peak Firing Load (Upward Thrust) -N	43134.70
Peak Firing Load (Upward Thrust) -KN	43.13
Number of bolts at middle Bore	2.00
Clamp Load at middle Bore	105555.56
Cover Factor on Middle Bore	2.45
Total Clamp Load Available for Gasket	
Clamp Factor on total Gasket	3.26
Clamp Load for consideration (%)	85.00
Clamp Load with assumed consideration (N)	89722.22
Clamp Load with assumed consideration (KN) Pressure on Body Mpa	89.72
	332.47

Proposals Considered and discussed



						Option 1								
						Description	'	Embossment	Total stack		Coating (micron	ıs)	Thickness	Thickness with
				<u>'</u>		Description	Thickness mm	height-outer	height-outer	1st Side	2nd side	Considered	with coating	considered coating
	,@ Bore					Top layer	0.25	0.28	0.53	25	25	25	0.58	0.55
Description	'		Coating (mic	crons)		Any other functional Layer	0	0	0	0	0	0	0	
Description	Thickness mm	1st Side	2nd side	Considered		Distance layer	1		1	25	25	25	1.05	1.02
Top layer			A	0	<u> </u>	Bottom Layer	0.25	0.28	0.53	0	25	12.5	0.555	0.542
Fire Ring	0.9				0.9±0.05	Total	1.5	0.56	2.06	<u> </u>		62.5	2.185	2.1225
Cullot	0.4			0		Total Compress Thickness					1.5625			
Cullot opposite side	0.4		A		<u> </u>									
Any other functional Layer			A = I'	0	<u> </u>		Compressed	<u> </u>				W/	/O Compressed	
Distance layer				0			Mean	Min	Max			Mean	Min	Max
Bottom Layer				0		Requirement	1.55	1.5	1.6		Requirement	t 1.65	1.55	1.75
Total	1.7	<u>/</u>	'	0	<u></u>	Tolerance +	0.05		<u> </u>		Tolerance +	0.1		
Total Compress Thickness			1.7			Tolerance -	0.05				Tolerance -	0.1		
				-			-	Compression in	in a fire ring		0.1375			

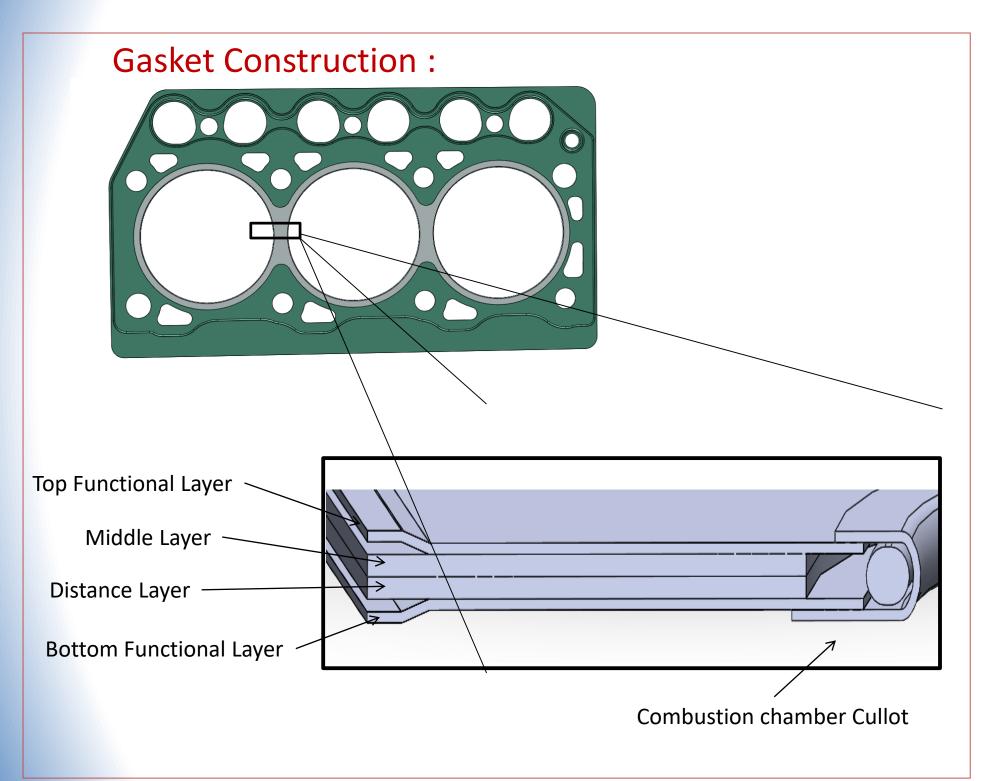
	,@ 0016								bouy						
Description		C	oating (mi	crons)	Description		Embossment	Total stack	Embossment	Total stack		Coating (microns)	Thickness with	Thickness with
Description	Thickness mm	1st Side	2nd side	Considered	Description	Thickness mm	height-Bore	height-Bore	height-Outer	height-Outer	1st Side	2nd side	Considered	coating at Bore	considered
Functional layer No. 1	0.25	25	25	25	Functional layer No. 1	0.25	0.25	0.5	0.25	0.5	25	25	25	0.55	0.525
layer No. 2	0.5		25	12.5	layer No. 2	0.5		0.5		0.5		25	12.5	0.525	0.5125
Distance Layer	0.5			0	Distance Layer	0.5		0.5		0.5			0	0.5	0.5
Functional layer No. 3	0.25	25	25	25	Functional layer No. 3	0.25	0.25	0.5	0.25	0.5	25	25	25	0.55	0.525
Total	1.5			62.5	Total	1.5	0.5	2	0.5	2			62.5	2.125	2.0625
Total Compress Thickness			1.5625	5	Total Compress Thickness							1.50	625		

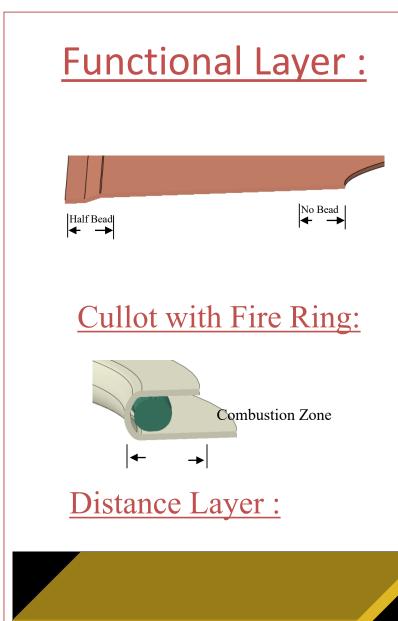
Final

	,@ Bore								Body						
Description		C	oating (mid	crons)	Description		Embossment	Total stack	Embossment	Total stack		Coating (ı	microns)	Thickness with	Thickness
Description	Thickness mm	1st Side	2nd side	Considered	Description	Thickness mm	height-Bore	height-Bore	height-Outer	height-Outer	1st Side	2nd side	Considered	coating at Bore	conside
Functional layer No. 1	0.25	25	25	25	Functional layer No. 1	0.25	0.25	0.5	0.25	0.5	25	25	25	0.55	0.525
layer No. 2	0.5		25	12.5	layer No. 2	0.5		0.5		0.5		25	12.5	0.525	0.512
Distance Layer	0.5			0	Distance Layer	0.5		0.5		0.5			0	0.5	0.5
Functional layer No. 3	0.25	25	25	25	Functional layer No. 3	0.25	0.25	0.5	0.25	0.5	25	25	25	0.55	0.525
Total	1.5			62.5	Total	1.5	0.5	2	0.5	2			62.5	2.125	2.0625
Total Compress Thickness			1.5625)	Total Compress Thickness							1.56	525		

Cooper

Case Study – Cylinder Head Gasket

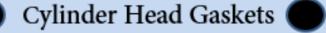




- SS Material with AL Coating
- Combustion Sealing is performed by Fire Ring
 Fluid Sealing by Full/Half Beads.
- Generally are in contact with Head & Block surface.

- Stainless Steel Material.
- First stage sealing element for combustion gases.

- Low Carbon Steel Material with or without Elastomer Coating.
- Used for adjusting the gasket thickness.



Secondary Gaskets

Heat Shields

Rubber Gaskets

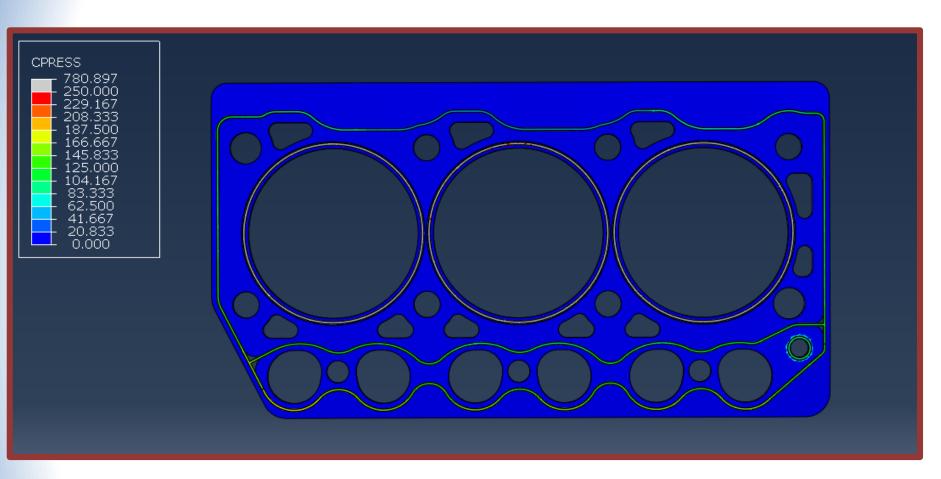
Washer & Shims

Exhaust Manifold Gaskets

MLS Gaskets

FEA- Design Verification



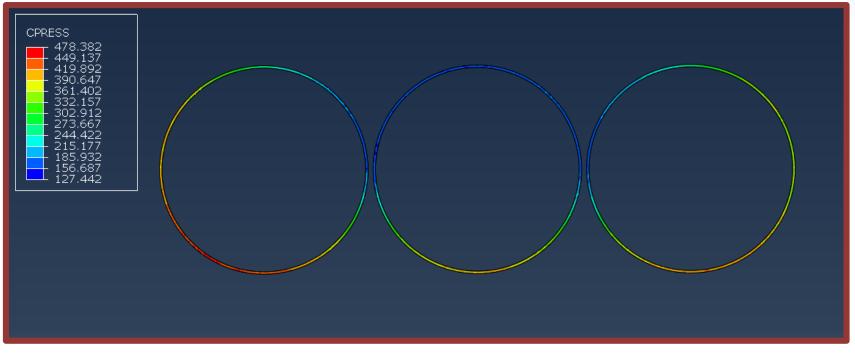


Video link

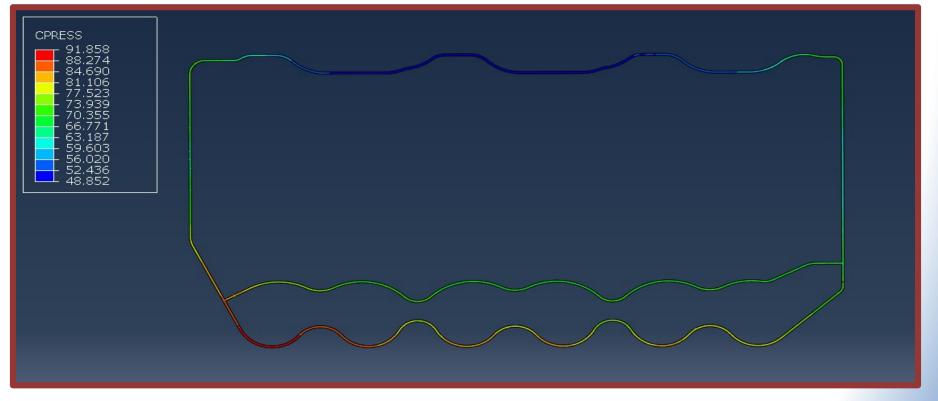
Video link

Contact Pressure on the Gasket

Acceptance Criteria: 44 MPa

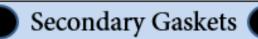


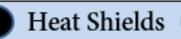
Contact Pressure on the Bore Embossment

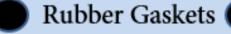


Contact Pressure on the Outer Embossment



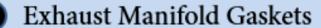








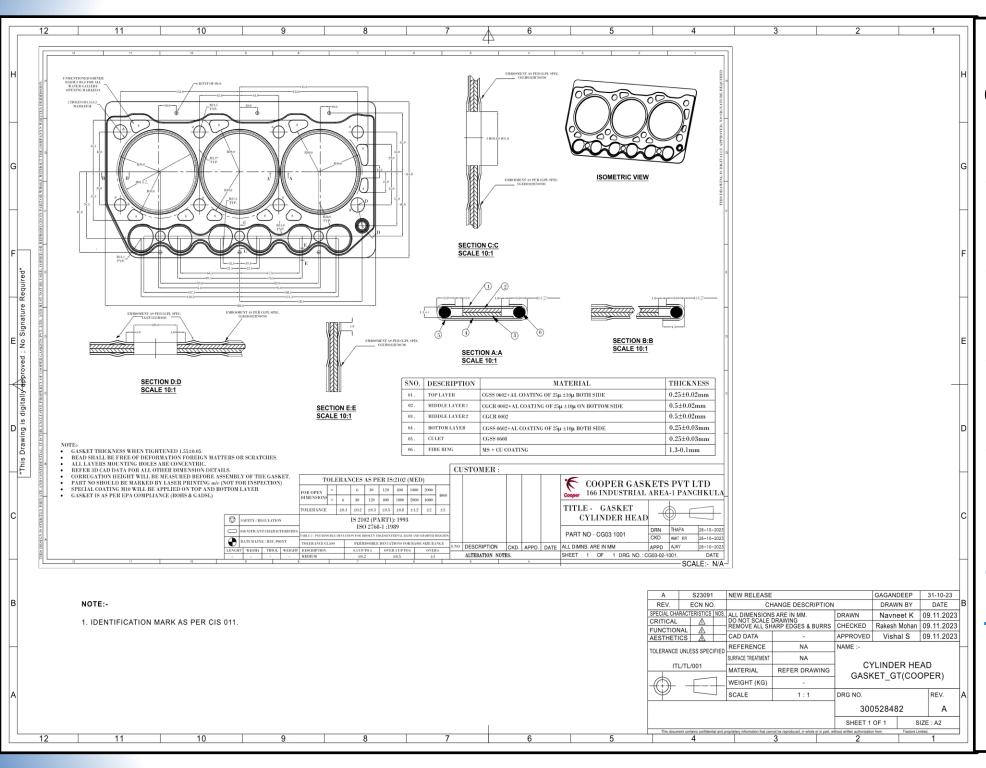






MLS Gaskets





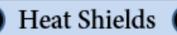
Proto Samples were successfully validated at the customer end for

- Nitrogen sealability Test
- Endurance test of 450+ Hrs.
- Fuji Film Test
- Lead shot Test

70 Engines are ready for export after the initial trials of the Engine at the customer end

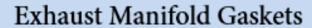










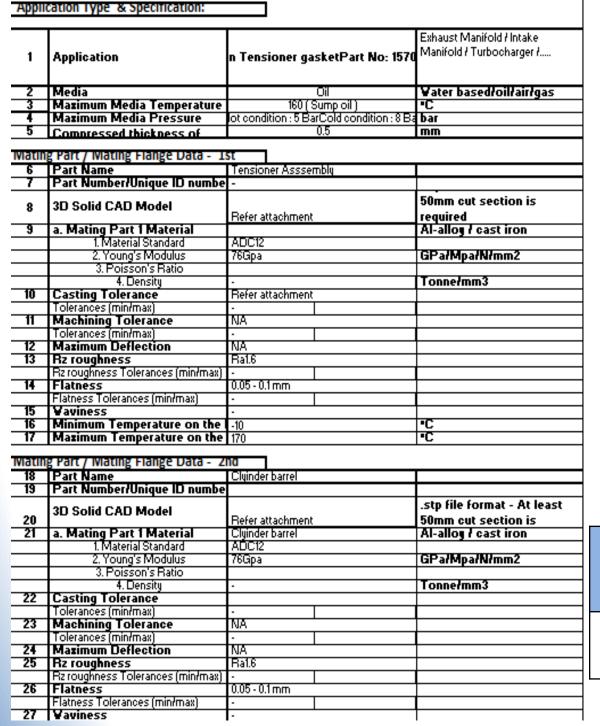


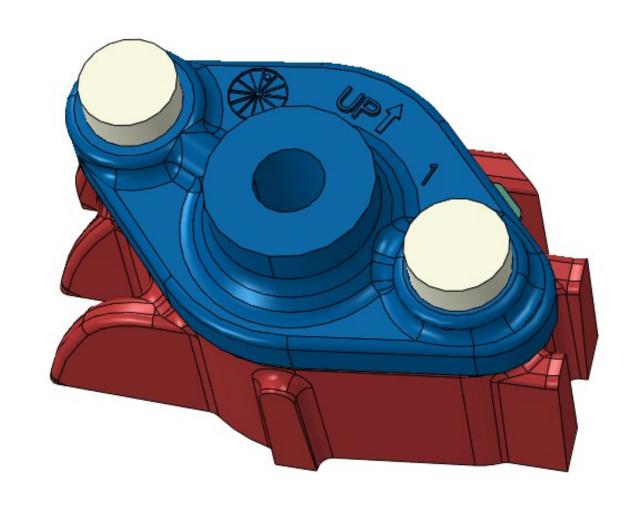




Case Study – Secondary Gasket

Inputs received from the Customer





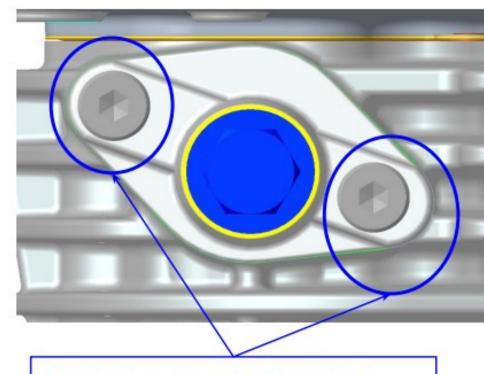
Mating Part assembly received from the Customer

Description	Material	Core Thickness	Coating
Gasket	CG-1064 (Paper Gasket)	0.5 mm	Silicon Beading on Both side

Gasket-Chain Tensioner

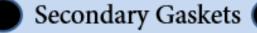


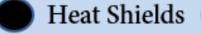
Tensioner gasket



2X M6 -Mounting hole TT= 8-12 Nm Position tolerance Ø0.4 mm



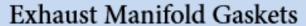








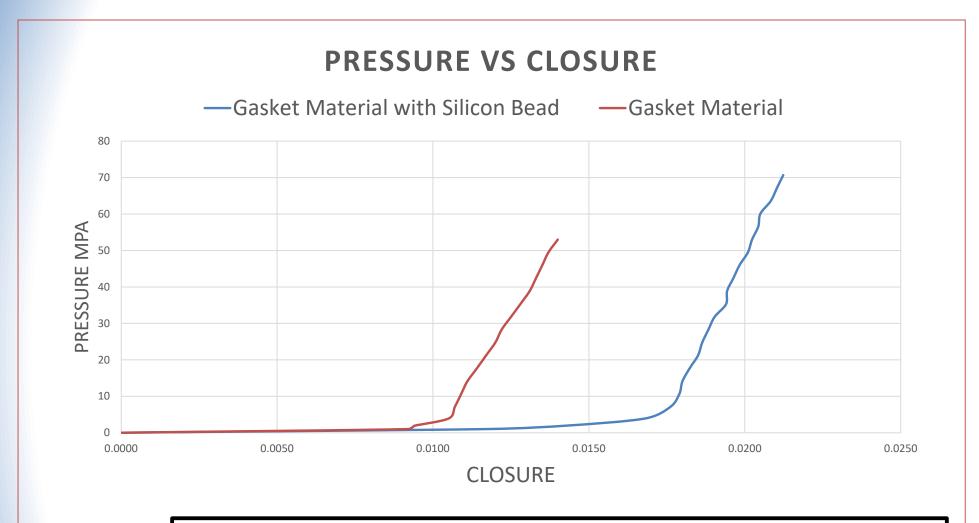




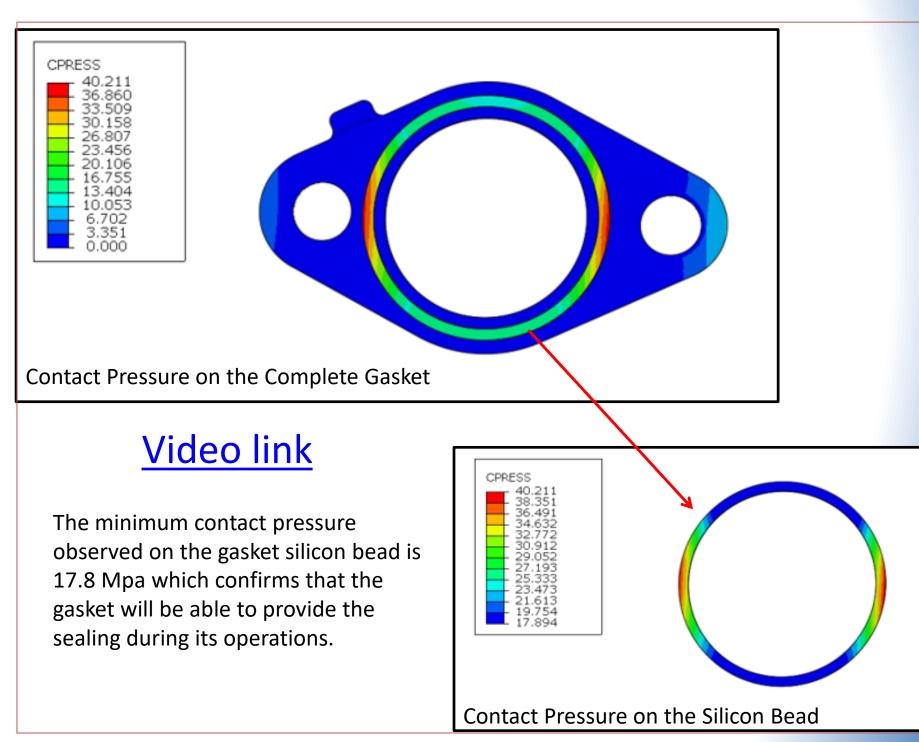


Case Study-2



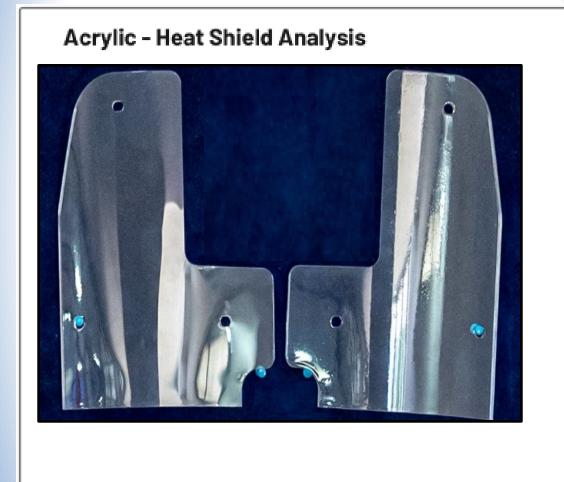


Pressure Closure data used for the analysis is extracted from the Load Deflection Data of the actual material that we have used for the gasket. By this, we are able to simulate the Paper gaskets of all kind of applications

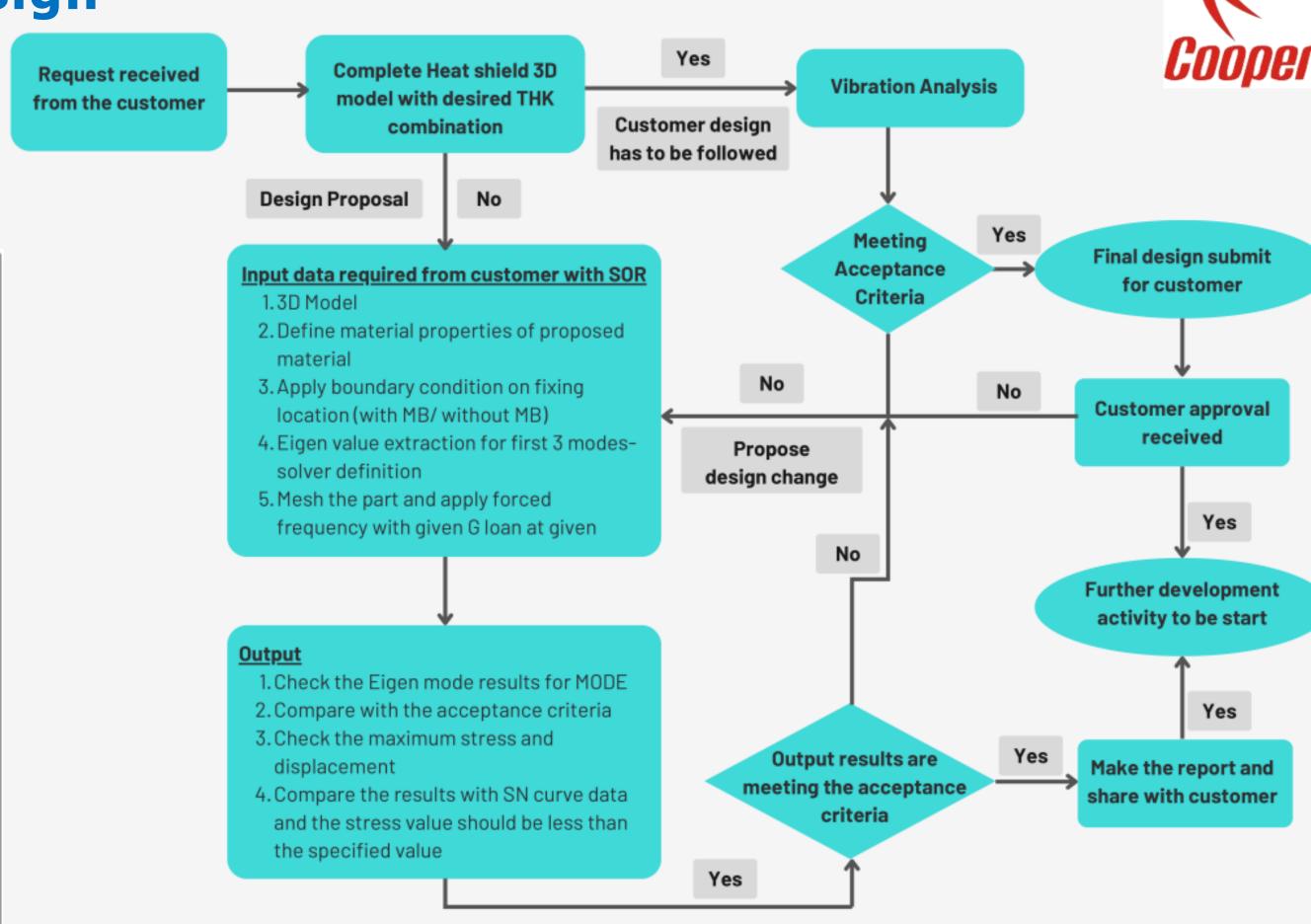


Case Study - Heat Shield

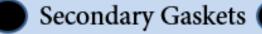
Acrylic - Heat Shield Analysis



Description	Material	Core Thickness
Heat Shield	Acrylic Sheet	4 mm







Heat Shields

Rubber Gaskets

Washer & Shims

Exhaust Manifold Gaskets

MLS Gaskets



Case Study - Heat Shield

Mode	1	2	3
equency	296 Hz	357 Hz	393 Hz
Image			

Meets Acceptance Criteria > 199 Hz

This Heat Shield is in production



Cylinder Head Gaskets

Heat Shields

Rubber Gaskets

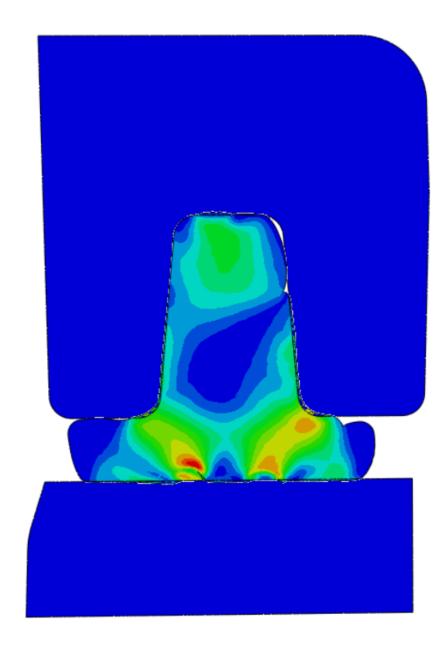
Washer & Shims

Exhaust Manifold Gaskets

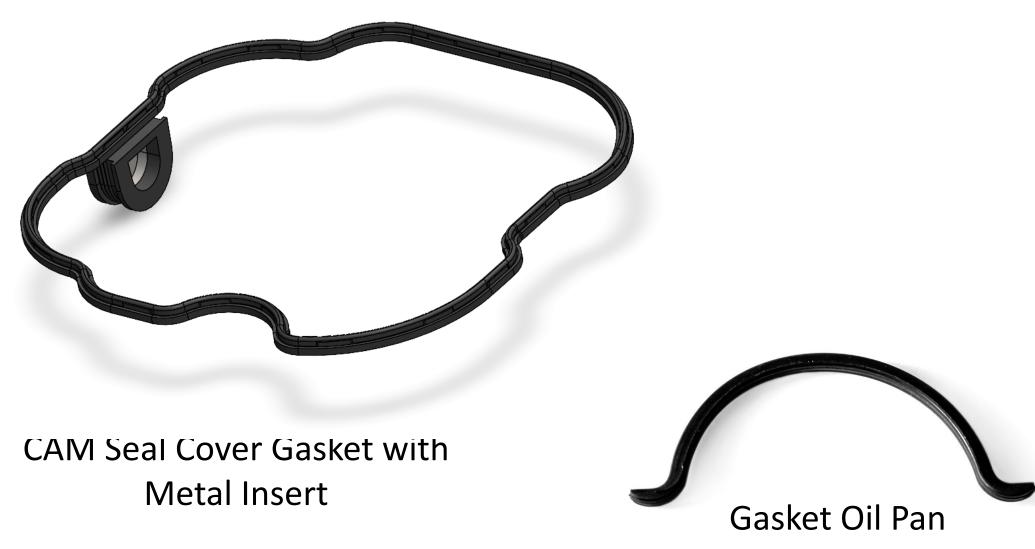
MLS Gaskets



Case Study – Rubber Gaskets



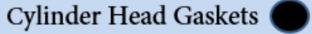
Video link

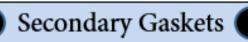


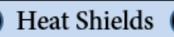


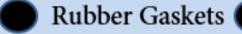


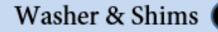


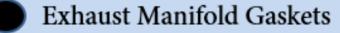










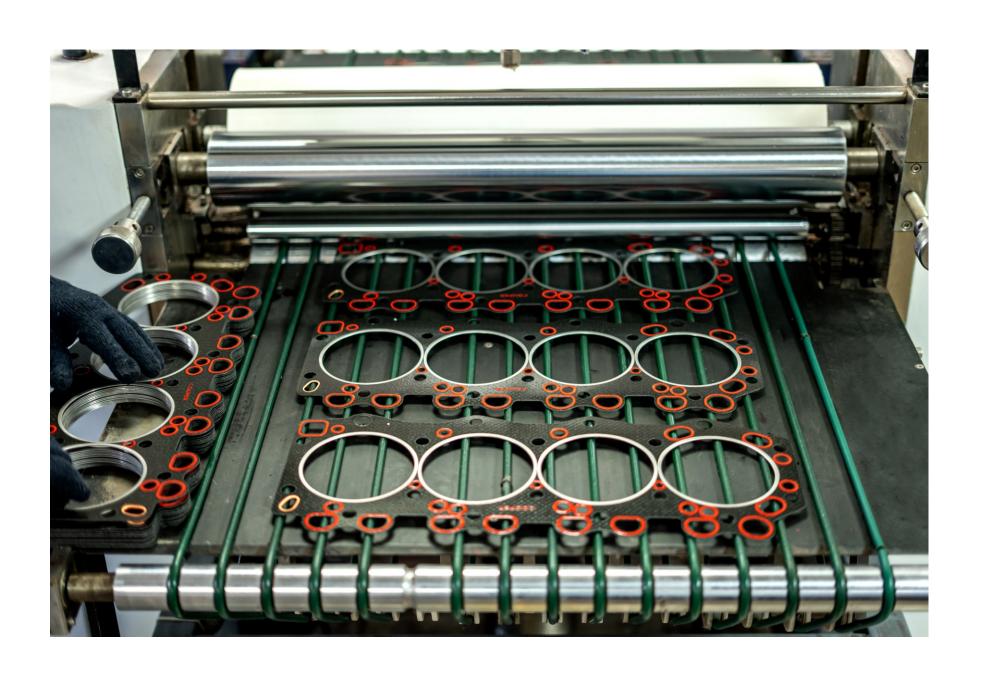






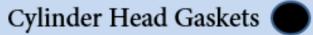
Surface Treatment

 Dust free and human touch free automated coating line



Video link









Press Shop

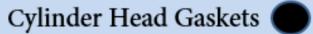
Mechanical & Hydraulic Presses with 10 to 400 Ton capacity



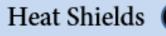
Swing Arm Press



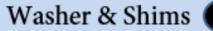
Travel Head cutting press

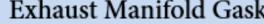














Rubber Moulding















14" X 36" Mixing Mill

Cylinder Head Gaskets

Secondary Gaskets

Heat Shields

Rubber Gaskets

Washer & Shims

Exhaust Manifold Gaskets

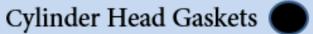
MLS Gaskets



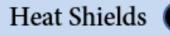
Copper Annealing

 Automated Annealing Plant with Inert Atmosphere to prevent oxidation and maintaining Hardness level 35 to 40 HV.







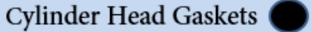




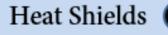
Co2 Laser Cutting Machine - 150 KW

 Automatic Laser cutting machine for Soft gasket cutting with high accuracy and precision













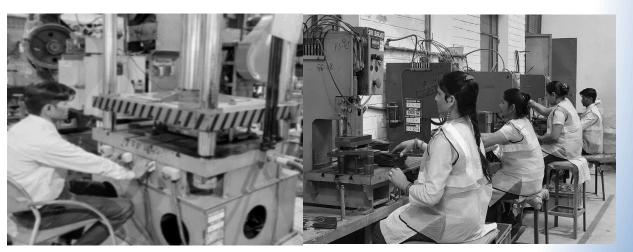
Manufacturing Excellence: Graphite Exhaust Seal Ring Production

Implementation of Cutting-Edge Manufacturing Processes

Adherence to Global Standards for Superior Quality

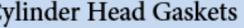
Integration of Graphite and Stainless Steel Wire Mesh Construction





Specialized Production Setup to Seal Flexible Joints with Precision









Tool Room

In-house tool design facility integrated with product design to minimize error

Sodick CNC Wire cut EDM machine with a bed size of 400 X 600 mm

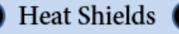
> Supporting Tool Room machines **CNC** milling **Surface Grinder** Lathe Shaper In-house

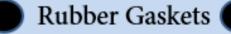


Video link



Secondary Gaskets





Washer & Shims

Exhaust Manifold Gaskets



Test Lab

Fully equipped lab for testing and development of raw materials

- Compressibility and Recovery testing
 - Low-temperature chamber up to -40°C
 - High-temperature ovens up to 600°C
 - Vickers Hardness
 - Tensile Strength
 - Erichsen Cupping Value















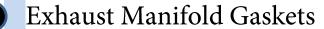












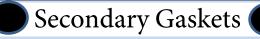


Mahr "MarSurf" Contour Tracer for MLS Embossment verifications















Rubber Testing

Cooper has a separate lab facility exclusively for rubber and polymer testing from the rubber mixing stage to the final product

- Moving Die Rheometer
 - UTM Machine specially for Rubber
 - Heat Aging Oven
 - Muffle Furnace











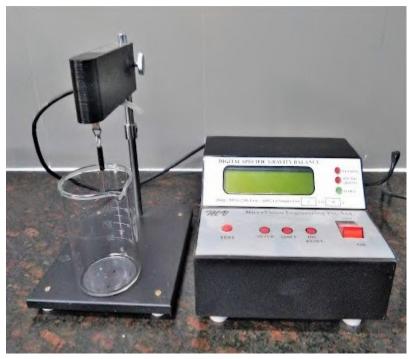


Rubber Testing

- Computerized Carbon Dispersion Analyzer
 - Digital Specific Gravity Testing Machine
 - Digital Shore 'A' Hardness Tester

- Melting Point Apparatus
 - **Compression Set**























TECHNOLOGICAL UPGRADATIONS IN THE LAST 3 YEARS

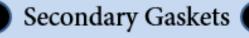


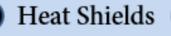
	R&D Centre						
Design	Setting up of R&D center with a team skilled in CAD, virtual simulations (CAE), NPD						
Design	Solid works Premium license						
	Abaqus						
	Load vs Deflection Machine						
	Leak Testing Machine						
R&D Lab	Thermal Mapping Machine						
	Nitrogen Sealability Testing Machine						
	Rubber Mixing Lab Mill - Modern						

	Tool Room						
Tool Manufacturing	Sodick Wire cut machine - Japan						
Tool Design	Integration of Tool design with Product Design						

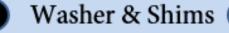


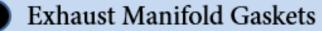












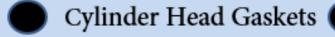


TECHNOLOGICAL UPGRADATIONS IN THE LAST 3 YEARS



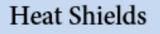
	Manufacturing					
Rubber	Tung Yu 250 Ton Double Station 3RT Vacuum compression moulding machine					
Kubbei	35 Ltrs. Kneader Machine					
CD44	14" X 36" Mixing Mill					
SPM	Laser cutting machine CO2 for soft gaskets					
Coating	Automated coating line					
Coucing	HTRC Spray Paint Facility					
MLS line	Hydraulic Press for MLS embossments					
	Automatic Perforation machine					
	Automated Power press line with feeder and decoiler					
Secondary	Swing Arm Press					
	Travel Head Press					
	Graphite Exhaust Seal Ring Line					

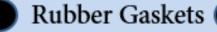
	Quality					
Rubber Testing Lab	Rubber Testing Lab Setting up of Rubber test Lab- Rheometer, UTM, etc.					
Measurements	Contour Tracer Machine Mahr- Germany					

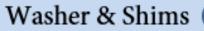


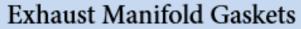














Projected Investments

Cooper

MLS Gaskets

Projected investments in 2024-2025 for capacity enhancement and tool room capability:

- MLS line
- Rubber Injection Molding and compression molding machine
- VMC and Wire cut machine in the Tool Room
- CNC Travel Head Press
- Automated Rubber Batch Mixing



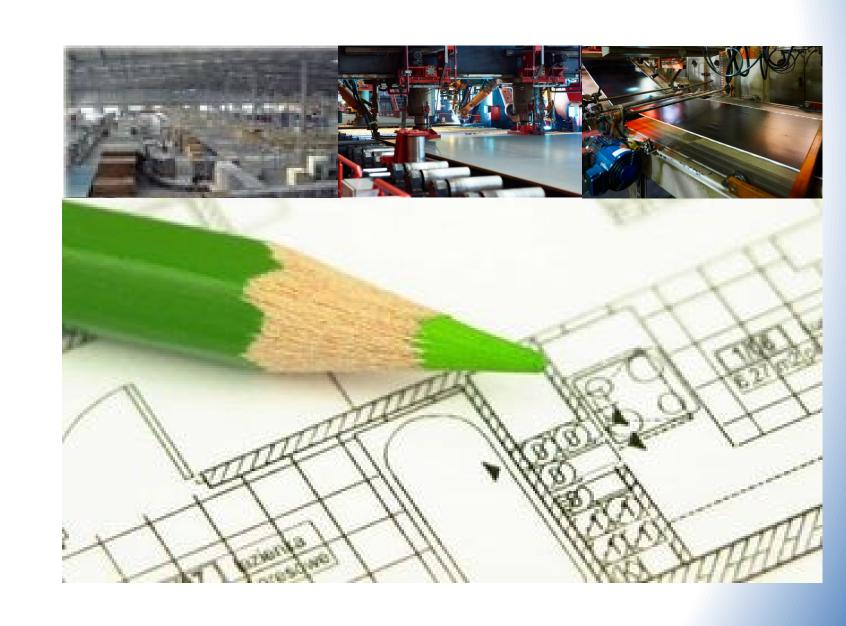


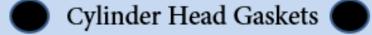
NEW PLANT

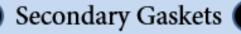
LOCATION: VILLAGE JASHPUR, Haryana (13 KM FROM MAHINDRA, HANDESRA PLANT)

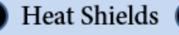
PRODUCT RANGE: GASKETS AND HEAT SHIELDS

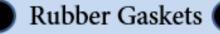
START OF PRODUCTION: SECOND HALF OF 2025



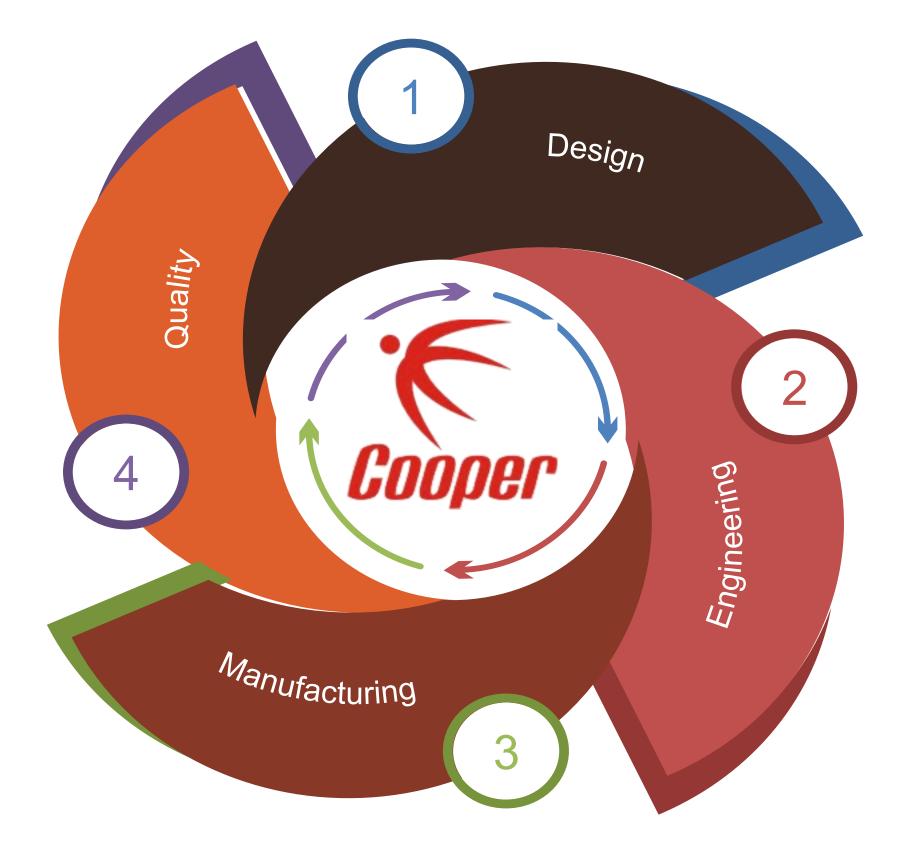










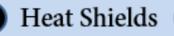


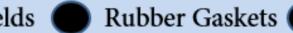


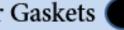
















IATF 16949: 2016











under MSME Sustainable (ZED) Certification Scheme awarded to

M/S COOPER GASKETS PRIVATE LIMITED

ENTERPRISE NAME

Flat No:- PLOT NO 166, Building:- M/S COOPER GASKETS PRIVATE LIMITED, Road/Street:- INDUSTRIAL ESTATE, Village/Town:- INDUSTRIAL ESTATE, Block:- PHASE-1, City:- PANCHKULA, PANCHKULA, HARYANA-134113

UNIT ADDRESS

29-Manufacture of motor vehicles, trailers and semi-trailers

CODE (AS PER NIC-2008)

UDYAM-HR-13-0000215

UDYAN REGISTRATION HUMBER

KBS Certifications Services Limited

ASSESSMENT AGENCY

B

March 24, 2024

Three years from the date of issue

Zed



0. 24030004_0832

This Certificate has been awarded after fulfilling all relevant requirements as laid down in the MSME Sustainable (ZED) Certification Scheme Guidelines for this Certification Level.

Award of this Certificate does not substitute any legal requirement needed for setting up or operating an MSME Unit.





ISO 9001: 2015

AWARDS



Best SCM Performance



New Product Development 2018



Quality Award



Quality Performance

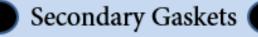


Quality Performance



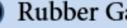
Supply Excellence 2017



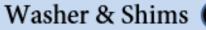




Heat Shields











TECHNOLOGICAL UPGRADATIONS IN THE LAST 3 YEARS

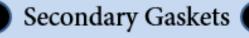


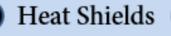
	R&D Centre						
Design	Setting up of R&D center with a team skilled in CAD, virtual simulations (CAE), NPD						
Design	Solid works Premium license						
	Abaqus						
	Load vs Deflection Machine						
	Leak Testing Machine						
R&D Lab	Thermal Mapping Machine						
	Nitrogen Sealability Testing Machine						
	Rubber Mixing Lab Mill - Modern						

Tool Room	
Tool Manufacturing	Sodick Wire cut machine - Japan
Tool Design	Integration of Tool design with Product Design

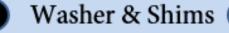


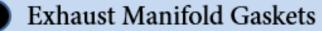












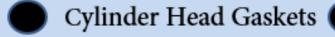


TECHNOLOGICAL UPGRADATIONS IN THE LAST 3 YEARS



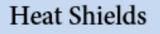
Manufacturing		
Rubber	Tung Yu 250 Ton Double Station 3RT Vacuum compression moulding machine	
	35 Ltrs. Kneader Machine	
SPM	14" X 36" Mixing Mill Laser cutting machine CO2 for soft gaskets	
Coating	Automated coating line	
	HTRC Spray Paint Facility	
MLS line	Hydraulic Press for MLS embossments	
Secondary	Automatic Perforation machine	
	Automated Power press line with feeder and decoiler	
	Swing Arm Press	
	Travel Head Press	
	Graphite Exhaust Seal Ring Line	

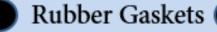
Quality	
Rubber Testing Lab	Setting up of Rubber test Lab- Rheometer, UTM, etc.
Measurements	Contour Tracer Machine Mahr- Germany

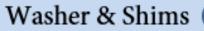


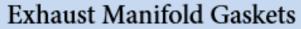














Projected Investments

Projected investments in 2024-2025 for capacity enhancement and tool room capability:

- MLS line
- Rubber Injection Molding and compression molding machine
- VMC and Wire cut machine in the Tool Room
- CNC Travel Head



Elevating Partnerships: Your Gasket Solution

Trusted Gasket Partner Since 1979



Key Highlights

A Legacy of Excellence

•Proud suppliers to esteemed entities like SML ISUZU, Mahindra and Mahindra, International Tractors, Royal Enfield Motors, SAME Deutz, TAFE Motors and Tractors Ltd, etc. We will be by your side, with our commitment and reliability as your gasket partner.

Why You Should Consider Us?

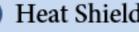
- •Quality Products: Renowned for its production of high-quality gaskets meeting industry standards, Cooper has achieved this through strategic investments in tool room, rubber molding, and MLS line technologies.
- •Reliability and Reputation: Consistent and reliable service for over 34 years.
- •Cost-Effectiveness: Cooper Gasket ensures that it aligns with your target prices.
- •Technology Partner: Over the past three years, Cooper has made significant investments in establishing an R&D center equipped with highly skilled personnel for virtual validation, alongside an advanced R&D laboratory outfitted with cutting-edge equipment meeting world-class standards.

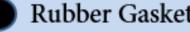
Let's Build Together

We are not just a supplier; we are your local ally in success.

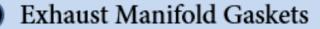


















We Thank You for supporting us and understand the value of your time. Further, we sincerely welcome you to discuss any inquiries that you have.

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THANK YOU

Contact us today for a partnership that stands the test of time.





