

For Mattei Internal Use Only
ID Project:

ID Level:

RAIL - CUSTOM REQUEST FORM

Introduction

At **Mattei Compressors**, we understand clean and dry compressed air is imperative for the reliable operation of your Rail systems. Whether on-board or Infrastructure - yard air, we can provide compressed air to meet your specification and the needs of your applications in a safe and reliable manner.

Since 1919, **Mattei** have been meeting the needs and demands of clients globally in each and every market segment. In 1958, Mattei developed a different technology to compete with the alternatives of Piston, Screw and Scroll compressors, utilising a Rotary Vane.

Today, Vane compressors are very well established and are the backbone of our company's technology, having been designed specifically to operate, within the harsh and onerous environment of the Rail Industry.

To address this specific Rail need, **Mattei Rail & Transportation** was created, assembling a dedicated team of specialists to address each and every need of the market. Whether Lubricated or Oil Free, **Mattei Rail & Transportation** can provide air to your systems which meet the international air quality standards demanded by the application.

Regardless of your immediate needs, compressor Air Generation Units (AGU) and Air Generation & Treatment Units (AGTU's) are available to supply compressed air for a multitude of Rail requirements, which in turn, are being provided to a wide variety of Rolling Stock needs, from Very High Speed trains to the ever popular Municipal Trams, with consideration for every vehicle type in between!

When you partner with **Mattei Rail & Transportation**, you are not just buying equipment, you are buying a system supported by a team dedicated to your cause with service support to address your every need, globally.



1. GENERAL INFORMATION

Please complete the Custom Request Form as fully as possible and tick ✓ boxes ☐ where applicable.....*Thank you.*

1.1 Customer & End User Details

Client name:	
Contact name:	
Email address:	
Telephone number:	
Mobile: + () Office: + ()	
Address:	
City:	
Post / Zip Code:	
Country:	
End User: (Builder/Operator/Other)	
Country of Operation:	
If Municipal: (City)	

1.2 Project Type

Project Name:	
New Build or Refurbishment:	<div> <div>New</div> <div>Refurbishment</div> </div>
If Refurbishment: a. Current Installed Compressor b. Is it Lubricated or Oil Free c. Manufacturer d. Model e. Package Required	<div> <div> Piston Screw Scroll Other Lubricated Oil Free </div> Name (if known): Model No. (if known): Compressor (Air End) only Compressor & Motor only Air Generation & Treatment Unit </div>
Vehicle Type:	<div> Locomotive EMU DMU High Speed Metro Tram Maintenance Other (specify) </div>

Project Forecast:	Qty of Vehicles
Requirement:	No. of Compressors/Vehicle: Total No. of Compressors Required:
Application: (tick the relevant boxes)	Brakes Suspension Pantograph Doors Sand boxes Wiper/Horns Auxiliary Depot Air Other:
Project Launch Date:	MM/YYYY
Delivery Required: Prototype: First Off Production:	DD/MM/YYYY DD/MM/YYYY

2. SYSTEM PARAMETERS

2.1 System Data

Altitude: (If applicable) Sea Level:	Metres Feet Above Below
Working Pressure: Nominal: Maximum: Minimum:	Bar PSI
Ambient Temperature: Nominal: Maximum: Minimum:	°C °F
Free Air Delivery at Nominal Working Pressure: Before Air Treatment: After Air Treatment:	l/min cfm
Is there an Air Quality Standard Specific to this project? (See Section 7. For alternative filtration requirements)	Yes No If Yes (specify)

3. POWER & INSTALLATION

3.1 Main Power Supply

Electrical Supply:	AC	DC	Hydraulic
<u>For AC Motor:</u>			
Nominal Voltage:	V		
Phases:	3 ph	1 ph	
Frequency:	50Hz	60Hz	
	If other (<i>specify</i>)		
Source:	Battery	Inverter	Alternator
	If other (<i>specify</i>)		
Available Power from the Vehicle:	kW		
Insulation Class Requirements:	B	F	H Other
<u>For DC Motor:</u>			
Duty Cycle:	%		
Maximum Continuous Run Time:	Minutes	Seconds	
Voltage Fluctuations:			
<u>For Inverter Drive:</u>			
Existing:	Yes	No	
To be supplied as part of an AGTU:	Yes	No	

<u>For Hydraulic Motor:</u>			
Oil Pressure:	Bar	PSI	
Flow:	l/min	cfm	

Is a Special Connection Type Required?	Yes	No
	If Yes (<i>specify</i>)	

How will the Compressor be powered by the vehicle?

3.2 Installation Arrangement

Location/Mounting:	In-board Other	Under floor (specify)	Roof
Space Envelope:	<div>Length (L):</div> <div>Width (W):</div> <div>Height (H):</div>		
Maximum Allowable Weight:	<div>mm</div> <div>in</div>		
Maximum Allowable Noise Level:	<div>db(A)</div> <div>Lw Lp @ 1m Lp @ 4.6m</div> <div>Other (specify)</div>		
Is a preferred Pneumatic Air Outlet Connection required?	<div>Yes No</div> <div>If Yes (specify)</div>		
Is a Motor Starter Required?	<div>Yes No</div> <div>If Yes DOL Y-Δ</div>		
Any Special Connection Requirements?	<div>Yes No</div> <div>If Yes (specify)</div>		
Is any form of heating required?	<div>Yes No</div> <div>If Yes (specify)</div>		

4. COOLING

4.1 Ventilation

Cooling Requirements Method of cooling:	Free Air	Closed Cabinet	Cabinet with Vents
Are Cooling Air Ducts Required?	<div>Yes No</div> <div>If Yes, please specify positioning of Cooling Inlet & Outlet:</div>		

5. REGULATION OF AIR DELIVERY

5.1 Regulation Mode

Mode of Operation: (*This Feature is required with Hydraulic Drive Systems)	Start/Stop	Continuous Run	Load/Unload*
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6. Controls

6.1 Control Options

Control Features:		
Pressure Switch:	Yes	No
Alarm Pressure Switches:	Yes	No
Control Signals provided to the Compressor:	Yes	No
Control Signals required from the Compressor:	Yes	No
Safety Signal to the Compressor:	Yes	No
Safety Signal required from the Compressor:	Yes	No
Control Pressure Switches:	Yes	No
Any additional Control Features required?	Yes	No
If Yes (<i>specify</i>)		

How will the Compressor be controlled by the vehicles system?

7. IS AIR QUALITY REQUIRED

7.1 Air Quality

If Air Quality is <u>UNSPECIFIED</u> for this Project, is Air Treatment required to be fitted?	Yes	No
If Yes (<i>specify</i>)		

8. COMPLIANCE

8.1 Standards

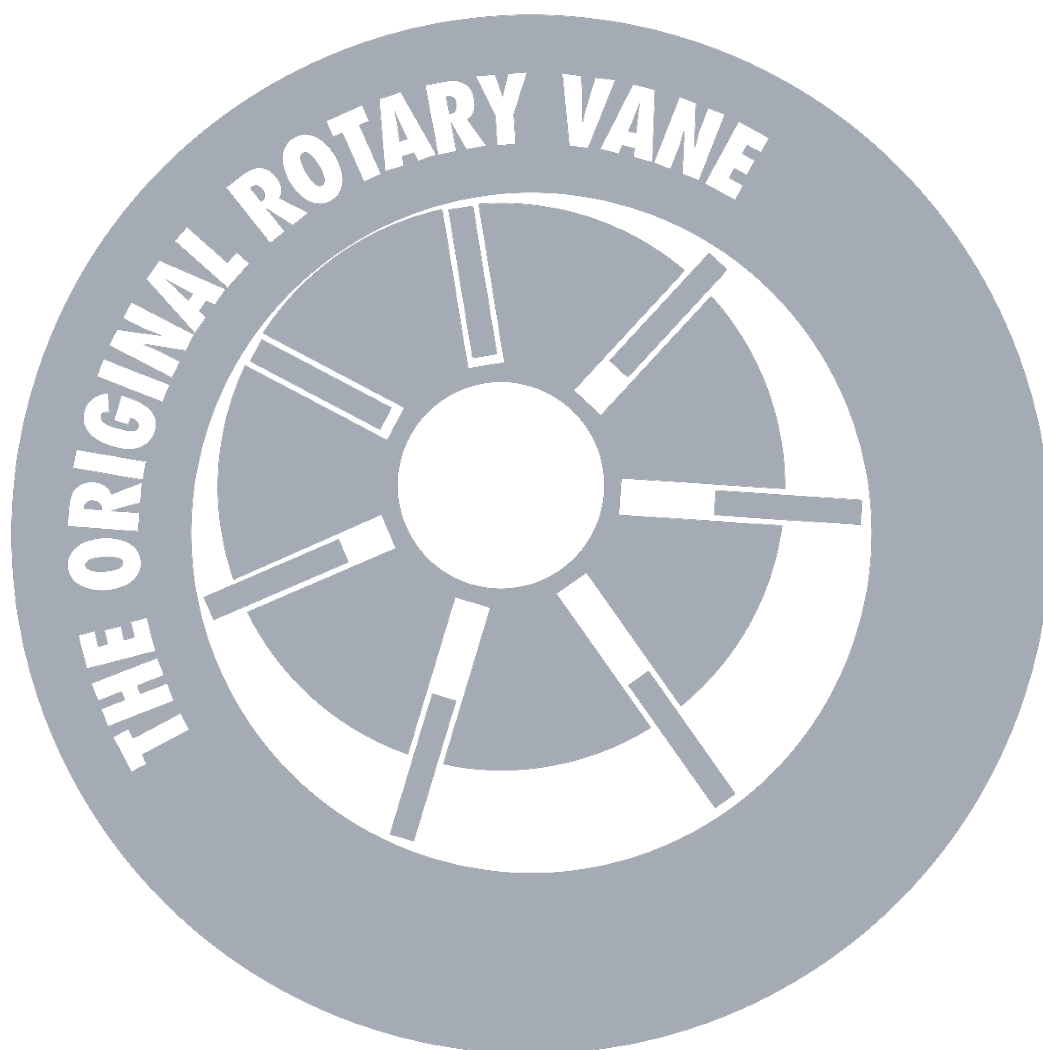
Are there any Specific Norms Associated with this project which need to be considered?	Yes	No
	If Yes (<i>specify</i>)	

9. PROJECT DETAILS

Forecast:	Year 1 Year 2 Year 3 Year 4 Year 5	No. of Units No. of Units No. of Units No. of Units No. of Units
Indication of Budget Price:	Currency Value	

10.SPECIAL INSTRUCTION & NOTES

To enable Mattei Rail & Transportation to respond as quickly and as accurately as possible, please ensure the questionnaire has been completed to the best of your ability and return to:
graham.leach@mattei.co.uk *Thank you*



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Certification



Vane...The Rail Solution

