

Tender Specification and Invitation to Tender

Tender Opportunity – Installation of Variable Speed Vacuum Pump System to the Vacuum Furnace

1. Background

MJ Sections supply precision formed sheet metal fabrications & machined components to both the UK and Worldwide Aerospace markets. At MJ Sections we are leaders in precision formed sheet metal fabrications and machined components, by providing a timely and pro-active response to the needs of its customers, and ensuring that over and above contractual requirements, all products are fit for purpose and embody the highest standards of workmanship. The company operates from 130 Stourbridge Road, Halesowen, West Midlands, B63 3UN, our registered office is Unit 5 Marriott Road Industrial, Estate, Netherton, West Midlands, DY2 0JZ.

2. Opportunity

A recent business review has identified a requirement to invest in a modern variable speed vacuum pump system to the vacuum furnace to reduce energy consumption, operating costs and maintenance burden across the site. This would include the replacement of the current ageing system and would result in the reduction of consumption particularly during idle periods.

An initial review of available solutions has identified the equipment types below as suitable benchmarks; however, alternative equipment will be considered where it can demonstrate performance equivalent to or exceeding the capability of the referenced items.

3. Specification

Item	Required specification / benchmark	Quantity
Rotary Vane Vacuum Pump	2-4 kW power consumption, 3 phase pump. Efficiency of IE3 or above. Oil mist separator with air exhaust filter, demister and oil filter Low noise cooling fan and anti-vibration feet Nominal displacement of over 330m ³ /hr Vacuum level of 0.1mbar(a)	1
Roots Booster Vacuum Pump	3-phase unit. Efficiency of IE4 or above. Active air cooling Low noise level	1

	Nominal displacement of over 520m ³ /hr	
Mounted frame with electrical control box and monitoring kit	High level monitoring and controlling capabilities required	1

Proposals must include:

- Prices for supply, delivery, installation and commissioning.
- The full technical specification of each unit offered, including energy consumption data where available.
- Anticipated payment terms.
- Confirmed lead time from order.

Site visits, if required, can be arranged with the Project Manager detailed below.

4. Capability

Suppliers are invited to provide the most cost effective and energy efficient solution. Please include examples of similar installations undertaken in the past three years to demonstrate capability to supply this project.

5. Selection criteria

The contract will be awarded to the most cost-effective tender that meets the requirements of the company and can be delivered within the planned timescales. Tenders will be evaluated and scored against the following criteria:

- Price / value for money
- Compliance with the specification, including energy efficiency
- Delivery timescale
- Supplier capability and track record

6. Payment terms

Payment will be made in stages and agreed as part of the contract discussions. Anticipated payment terms are to be included in the prospective supplier's quotation.

7. Cost

To be stipulated in the prospective supplier's quotation.

8. Timescales

- Completed tenders to be received by the company's Project Manager via email no later than 17:00 on 31/07/2026.
- Project lead time from order will need to be 12 weeks or under.

9. Eligibility of suppliers

In line with the funding body's procurement requirements, suppliers must not be persons or businesses connected to MJ Sections Ltd, its directors or its shareholders.

10. Contact

Project Manager	Nathan Rogers
Email	nathan.rogers@mjsections.co.uk
Telephone (optional)	01384 230444