**Invitation to Tender**

**5 Axis multi pallet CNC Milling machine**

**Ref:BG896**

# 1. About WES Engineering Solutions Ltd

For around 40 years WES have predominantly supplied a niche market within the automotive manufacturing sector (resistance welding consumables) tooling that is bolted to the welding robots in order to weld cars together. We are trusted suppliers to to some of the worlds biggest automotive companies (Jaguar Land Rover, Nissan, BMW Mini, Stellantis (Vauxhall) and their tier one and two supply chains.

As a CNC subcontract machining company, we have turned our hand to other products within the automotive sector. However, we now wish to grow and enter into new markets/sectors: Renewable Energy, Marine, Defence, Motorsport, Mining and Space.

# 2. Background and Context

We plan to purchase a new 5 Axis multi pallet CNC Milling machine to increase our capabilities and capacity to enter new markets.

The purchase of this system is part of a grant funded application process and therefore procurement will be subject to grant approval of the project. We will assess tenders received on lowest compliant Tender.

# 3. Tender requirements

The supplier must meet or exceed the following specification

1. Axis Movements: X, 630 mm / Y, 560 mm / Z, 510 mm
2. 4th and 5th Axis Movements: A, -125° to +10° / C, 360°
	1. Scale Feedback on A/C Axis
	2. Auto Grease Supply Unit
	3. Work Light Chip Flush
	4. Spindle Oil Cooler
	5. Synchronised Tapping Function Workpiece Counter (9 Sorts of "M" Codes)
3. Minimum of 10" Operator Panel (LCD/Colour Screen) Ethernet Interface with a minimum of 500 Registered Programs
4. Helical Interpolation, Custom Macro, Skip Function
5. 15,000 rpm, BT40 Spindle (150 Nm)
6. 90 Tool ATC Magazine (Chain Type) including Additional Tool Offsets (200 Sets)
7. PC4 Pallet Changer including Internal Spiral Chip Conveyor
8. 4 off 400 mm Diameter Pallets with a minimum of 150 kg Load Capacity
9. 520 mm Diameter x 330 mm High Workpiece Size
10. Manual Pallet/Work Rotation System
11. Spindle Load Monitoring Function
12. FSE Swarf Management System including Lift-up Conveyor (Side Exit)
13. Chip Bin
14. Wash Gun including Pump and Holster
15. 20 Bar Through the Spindle Coolant (Duplex Filtration)
16. Mist Extraction Unit with Floor Stand
17. NC4 Laser Broken Tool Detection System
18. Inspection Probe
19. Quick Program Restart Function
20. IGES Data Files (Machine Models for Verification)
21. High Speed, High Precision, 5 Axis Software Package
	1. IZ-2
	2. 150 including AICC Control-II
	3. 4GB Data Server Function
	4. NANO Smoothing
	5. Optimal Torque Acceleration
	6. Deceleration
	7. Tilted Work Plane Command
	8. Work Set-up Error Compensation
	9. Inverse Time Feed
	10. Tool Centre Point for 5 Axis Cutting
	11. 3D Cutter Compensation
	12. Tool Posture Control by Tool Centre Point Control
22. Workholding Package
23. Delivery to our premises Unit 3 Jon Davey Drive Treleigh Industrial Estate Redruth Cornwall TR16 4AX by 30 September 2024. The supplier is to off-load and move into position followed by fully installing/commissioning of the machine to our services (the access to the area and the machine site will be clear).
24. Training for Programmers and Operators. Comprehensive training is to be provided for our programmers and operators on both the machine and the control. The supplier is to allow for 10 working days and available over a 6 month period from the date of machine is delivered to our site.
25. Machine Warranty. A 2 year warranty is to be included covering all mechanical/electronic components on the machine and ancillary equipment. The warranty conditions should be detailed in your response.
26. Post delivery support. The supplier is to respond to any fault reported by Wes Engineering Solutions Ltd by providing an engineer on site within a maximum of 48hours from the notification of the fault.

4**. Budget**

The total maximum budget available for this commission is £360,000 (exc VAT) but inclusive of all expenses.

**Tenders that exceed the total budget will not be considered.**

The budget will be reviewed as part of the tender evaluation detailed in Section 10 and will reflect the degree to which there is a saving on the maximum budget

# 5. Tender and commission timetable

The timescale of the programme is from the date of signing the contract until acceptance by Wes Engineering Solutions Ltd. The timetable for submission of the Tender, completion of the programme are set out below.

|  |  |
| --- | --- |
| **Milestone** | **Date** |
| Date ITT available on Contracts Finder | 9 August 2024 |
| Last date for raising queries | 1700: 16 August 2024 |
| Clarifications to queries | 1700: 19 August 2024 |
| Deadline to return ITT | **1700: 29 August 2024** |
| Evaluation of ITT | 30 August 2024 |
| Award of Contract  | 31 August 2024 |

# 6. Tender submission requirements

Please include the following information in your Tender submission.

6.1 Please provide your proposal and any necessary technical or specification sheets to demonstrate how you meet or exceed the requirements at section 3

6.2 Provide a conflict of interest statement as per Section 8 and confirmation you can meet the delivery requirement.

6.3 Budget

**7. Sub-contracting**

Tenderers should note that a consortia can submit a tender but the sub-contracting of aspects of this commission after appointment will only be allowed by prior agreement with WES Engineering Solutions Ltd.

**8. Conflicts of Interest**

Tenderers must provide a clear statement with regard to potential conflicts of interests. Therefore, **please confirm within your tender submission** whether, to the best of your knowledge, there is any conflict of interest between your organisation and WES Engineering Solutions Ltd or its programme team that is likely to influence the outcome of this procurement either directly or indirectly through financial, economic or other personal interest which might be perceived to compromise the impartiality and independence of any party in the context of this procurement procedure.

Receipt of this statement will permit WES Engineering Solutions Ltd to ensure that, in the event of a conflict of interest being notified or noticed, appropriate steps are taken to ensure that the evaluation of any submission will be undertaken by an independent and impartial panel.

# 9. Tender clarifications

Any clarification queries arising from this Invitation to Tender which may have a bearing on the offer should be raised by email to:

JGazzard@wesltd.com

in accordance with the Tender and Commission Timetable in section 5.

Responses to clarifications will be anonymised and uploaded by WES Engineering Solutions Ltd to Contracts Finder and will be viewable to all tenderers.

No representation by way of explanation or otherwise to persons or corporations tendering or desirous of tendering as to the meaning of the tender, contract or other tender documents or as to any other matter or thing to be done under the proposed contract shall bind WES Engineering Solutions Ltd unless such representation is in writing and duly signed by a Director/Partner of the tenderer. All such correspondence shall be returned with the Tender Documents and shall form part of the contract.

# 10. Tender evaluation methodology and tender award

Each Tender will be checked for completeness and compliance with all requirements of the ITT. The award of the contract will be to the LOWEST COMPLIANT BID. Any contract awarded as a result of this tender process will be in accordance with this ITT and the tenderer’s response.

# 11. Tender returns

Tenders are to be returned by email.

Tenders are to be returned in accordance with Section 5

Latest date to be returned: As per Section 5

Latest time to be returned: 17:00

Emailed tenders should be sent electronically to

JGazzard@wesltd.com

with the following message clearly noted in the Subject box;

‘Ref:BG896’

**Tenderers are advised to request an acknowledgement of receipt of their email.**

**12.** **Disclaimer**

The issue of this documentation does not commit WES Engineering Solutions Ltd to award any contract pursuant to the tender process or enter into a contractual relationship with any provider of the service. Nothing in the documentation or in any other communications made between WES Engineering Solutions Ltd or its agents and any other party, or any part thereof, shall be taken as constituting a contract, agreement or representation between WES Engineering Solutions Ltd and any other party (save for a formal award of contract made in writing by WES Engineering Solutions Ltd or on behalf of WES Engineering Solutions Ltd).

Tenderers must obtain for themselves, at their own responsibility and expense, all information necessary for the preparation of their tender responses. Information supplied to the tenderers by WES Engineering Solutions Ltd or any information contained in WES Engineering Solutions Ltd’s publications is supplied only for general guidance in the preparation of the tender response. Tenderers must satisfy themselves by their own investigations as to the accuracy of any such information and no responsibility is accepted by WES Engineering Solutions Ltd for any loss or damage of whatever kind and howsoever caused arising from the use by tenderers of such information.

WES Engineering Solutions Ltd reserves the right to vary or change all or any part of the basis of the procedures for the procurement process at any time or not to proceed with the proposed procurement at all.

Cancellation of the procurement process (at any time) under any circumstances will not render WES Engineering Solutions Ltd liable for any costs or expenses incurred by tenderers during the procurement process.