



No: IIITDMK/25-26/SP/PAC-xArm & FTS/

Dt. 18.06.2025

**CALL FOR OBJECTION NOTICE**

**Subject: "Call for Objection"** against Procurement under **Proprietary Article (PAC) Basis** in IIITDM Kancheepuram.

**Item Name: xArm 7 with Force and Torque Sensor**

Attribute	Details
<b>xArm 7 with FTS</b>	
Payload	3.5kg
Reach	700mm
Degrees of freedom	7
Repeatability	±0.1mm
Maximum Speed	1m/s
Weight(robot arm only)	13.7kg
Maximum Speed	180°/s
Joint 1	±360°
Joint 2	-117°~116°
Joint 3	±360°
Joint 4	-6°~225°
Joint 5	±360°
Joint 6	-97°~180°
Joint 7	±360°
<b>Robot Specs</b>	
*Ambient Temperature Range	0-50°C
Power Consumption	Typical 200 W, Max 500 W
Input Power Supply	24V DC, 20.8A
Footprint	Ø 126 mm
Materials	Aluminum, Carbon Fiber
Base Connector Type	M5*5
ISO Class Cleanroom	5
Robot Mounting	Any
End Effector Communication Protocol	Modbus RTU(rs485)
End Effector I/O	2*DI/2*DO/2*AI/1*RS485
Communication Mode	Ethernet
<b>AC Control Box</b>	
Input	100-240VAC 50/60Hz
Output	24VDC 20.8A
Weight	3.9kg
Dimension(L*W*H)	285*135*101mm

Control Box IO	CI*8+DI*8 / CO*8+DO*8. / 2*AI / 2*AO
Communication Mode	Ethernet, RS485 Master*1
Input	100-240VAC 50/60Hz
<b>FTS spec - externally attached</b>	
FTS	Fx +150N, Fy +150N, Fz +200 N Mx, My, Mz $\pm$ 4Nm
Resolution	0.1N 0.05Nm

It is intended to procure Instruments, Accessories & Consumables for **xArm 7 with Force and Torque Sensor** on a proprietary article basis as per the provision of GFR, 2017 Rule 166 (i), directly from **M/s. UFACTORY INC, DE 19901, USA**, against their proposal submitted, as the sole manufacturer/developer and **M/s. Autobots INC, Chennai, Tamil Nadu**, supplier of these Instruments, Accessories & Consumables for **xArm 7- 3.5 Kg payload, 70 mm reach and FTS**, which satisfies all requirements of being a proprietary item

The notice is hereby issued for the general information of Aspirant Manufacturers / Authorized Distributors/Suppliers, to submit their objection, if any, on the proprietorship of the above item in terms of Rule 166 (i) of GFR, 2017 as amended from time to time.

Relevant documents are published on the institute website for inviting objections/claims/comments, if any, from eligible manufacturer /supplier, before accepting the claim of the earlier said manufacturer and accordingly making procurement under proprietary article.

The Objections/claims/comments along with the complete details of challenging the proprietorship of the above items, if any, should be sent to the office of The Registrar, IIITDM Kancheepuram, Melakottaiyur, Chennai - 600127 in a sealed envelope with above mentioned subject & reference number, or by e-mail at registrar@iiitdm.ac.in on or before **09.07.2025 up to 05.00 PM**. failing which, it will be presumed that the above item are the proprietary item of the concerned firm as claimed by them in the Proprietary Article Certificate (PAC). Accordingly, the institute will initiate the process of procurement of the above item under Rule 166 (i) of GFR, 2017 as amended from time.

After the due date, it will be assumed that no manufacturer/supplier has any objection/claim against above mentioned equipment article & same will be considered as the proprietary article.

**Enclosure: -**

- Sole Manufacturing certificate by **M/s. UFACTORY INC, DE 19901, USA** एवं वि.सं.-कांचीपुरम / IIITDM-Kancheepuram  
मेलकोट्टैयूर, चेन्नई / Melakottaiyur, Chennai-600 127.

  
**Registrar**  
 कुलसचिव / Registrar  
 भारतीय सूचना प्रौद्योगिकी अभिकल्पना एवं विनिर्माण संस्थान, कांचीपुरम  
 Indian Institute of Information Technology Design and Manufacturing, Kancheepuram  
 मेलकोट्टैयूर, चेन्नई / Melakottaiyur, Chennai-600 127.

**PROPRIETARY CERTIFICATE CUM AUTHORIZATION LETTER**

Dear Sir,

We hereby confirm that we, UFACTORY INC having an office at 8 The Green #14797 Dover, DE 19901 USA, are the sole developer and copyright owner of product xarm7 with FTS. This product is proprietary of UFACTORY.

We authorize M/S. AUTOBOTS INC, having its principle place of business at No.25, Crescent Road , Shenoy Nagar West Chennai – 600030 India to participate, sell and support above mentioned product. Autobots Inc will provide full support to IIITDM Kancheepuram during maintenance, including training for Ufactory Products.

We hereby extend our full guarantee and warranty under our general conditions of the contract / Licensing agreement, Concerning the Goods/ Services offered by the above – authorized company.

Please contact us for further clarifications

Yours Faithfully,

For UFACTORY

Signature: (CHAO YAO)



Position: Sales Manager

UFACTORY INC

Date: 27<sup>th</sup>, May, 2025