

# **SPECIFICATION SHEET FOR METAL TREATMENT STATION**

1. **Equipment:** Metal Treatment Station
2. **Make:** FOSECO or Equivalent
3. **Model:** FOSECO FDU Mark 10
4. **Metal to be treated:** Aluminum
5. **Weight of metal to be treated:** Up to 500 Kg
6. **Required functions:**
  - i. Degassing
  - ii. Cleaning
  - iii. Modification
  - iv. Grain Refinement
7. **Description of components:**
  - i. Foundry degassing unit consists of:
    - a. Vacuum impregnated graphite shaft FDU BKF 75/900 with coupling TZ 75 or equivalent
    - b. Vacuum impregnated graphite rotor FDU XSR 175.70 or equivalent in conjunction with graphite shaft
    - c. Automatic Baffle Plate for melt speed control
    - d. Capable of operating at any Rotor depth
    - e. Lifting and sinking of the shaft and rotor is performed by electrical lifting motor
  - ii. Hopper system: consists of at least two hoppers (with minimum level sensor) with programmable adjustment of flux addition in specific quantity for particular time duration
  - iii. Trolley mounted system for easy movement
  - iv. Capable of being applied in furnace or ladle
  - v. Gas flow meter
  - vi. Temperature measuring system
  - vii. PLC based control panel for regulation of:
    - a. Degassing time
    - b. Rotor RPM
    - c. Melt speed adjustment by baffle plate insertion and removal from melt
    - d. Gas flow rate adjustment

- e. Flux addition in required quantity for specific time
- f. Detection of the hopper filling level capacity

**8. Spares:**

Sr. No.	Description of component	Quantity required
1.	Shaft FDU BKF 75/900 or equivalent*	10
2.	Rotor XSR 175.70 or equivalent*	10
3.	Baffle Plate*	10

\*as per machine requirement

**9. Consumables\*\*:**

Sr. No.	Description of consumable	Quantity required
1.	Coveral MTS 1524	1000 Kg
2.	Coveral MTS 1576	1000 Kg
3.	Coveral MTS 1582	1000 Kg

\*\*Consumables must be in polyethylene bags for protecting it from moisture pickup and other environmental effects. Packing size should be 12.5 Kg for easy filling of hopper.

*Quotations without spares and consumables will not be considered.*

**10. Inspection:** Pre-shipment inspection of the equipment at supplier's premises

**11. Operational Manual:** Technical drawings, Operation Manual and technical literature must be provided in English Version.

*Note: Complete specifications and brochure of the furnace should be provided with the quotation otherwise the quotation will not be considered for evaluation.*