

### FUNCTIONAL SPECIFICATIONS FOR FORKLIFT (ELECTRIC)- 3T

Sr. No.	REQUIRED SPECIFICATIONS	
<b>1.</b>	<b><u>GENERAL</u></b>	
<b>1.1</b>	These requirements are to be read in conjunction with the following documents: Basic Requirements for Aircraft Ground Support Equipment (AHM910) Standard Forklift Pockets dimension and Characteristics for Forklift General Support Equipment Intended for Palletisation (AHM912) Basic Safety Requirement for Aircraft Ground Support Equipment (AHM913) Standard Control (AHM915)	
<b>1.2</b>	This specification outlines the requirements for a Forklift (03 ton capacity)	
<b>2.</b>	<b><u>STRUCTURE AND OVERALL DIMENSION</u></b>	
<b>2.1</b>	Lifting capacity should not be less than 3000 kg at 500 mm center (electric)	
<b>2.2</b>	Overall length maximum 2,500 including fork heel	
<b>2.3</b>	Overall width maximum 1,250	
<b>2.4</b>	Overall height when mast fully retracted 2,700 mm	
<b>2.5</b>	Overall height when fully extended should be maximum 5,500 mm	
<b>2.6</b>	Fork blade Length 223 Cm or 226 Cm whichever available	
<b>2.7</b>	Two stage mast should have excellent forward visibility	
<b>2.8</b>	Side shifting carriage to be provided	
<b>2.9</b>	Load backrest minimum 1,000 mm	
<b>2.10</b>	Width between forks 1,070 mm	
<b>2.11</b>	Maximum turning radius 2,500 mm	
<b>3.</b>	<b><u>TYRES</u></b>	
<b>3.1</b>	Long life solid tires capable of operating indoors and outdoors	
<b>4.</b>	<b><u>LOAD CAPACITY</u></b>	
<b>4.1</b>	At 4000 mm Mast height and carriage shifted position at least 2500 kgs at 500 mm load center.	
<b>5.</b>	<b><u>BATTERY AND CHARGER</u></b>	
<b>5.1</b>	Vehicle electrical system- 80 VDC for drive system, 24 VDC for vehicle electrical system Battery –80 VDC wet cell, 775 Ah with minimum 6 hours operation before recharge.	
<b>5.2</b>	Suitable charger should be provided to charge the battery with input power supply of– 440V 50Hz 3 Phase. Battery should be provided with automatic Central Filling	

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5.3	Spare Battery Carriage feature to be included in the Equipment/product for quick battery change.	
5.4	01 Spare Battery to be included along with trolley	

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<b>6.</b>	<b>OTHER FEATURES</b>	
<b>6.1</b>	Permanent, non-fading placards or pictograms, shall be provided for all operating controls, instruments, fluid/water filling points, electrical switches, caution signs and operating instructions	
<b>6.2</b>	Power steering system	
<b>6.3</b>	Speedometer	
<b>6.4</b>	Hour meter	
<b>6.5</b>	Battery capacity indicator	
<b>6.6</b>	Parking brake indicator	
<b>6.7</b>	Memory tilt steering column (stepless)	
<b>6.8</b>	Parking brake switch	
<b>6.9</b>	Maximum speed limiter	
<b>6.10</b>	Travel Power Control	
<b>6.11</b>	Battery electrolyte level warning	
<b>6.12</b>	Over discharge warning	
<b>6.13</b>	Electric horn	
<b>6.14</b>	Headlights	
<b>6.15</b>	Rear combination lights	
<b>6.16</b>	Rear view mirrors (L/R)	
<b>6.17</b>	Front and rear lights removable protection grill	
<b>6.18</b>	Back up buzzer	
<b>6.19</b>	Anti-slip trading material fitted to foot pedals	
<b>7.</b>	<b>MISCELLANEOUS</b>	
<b>7.1</b>	Provide technical assistance as and when required	
<b>7.2</b>	Overhead guard with sheet/ sun protection	
<b>7.3</b>	Provide the special tools if the unit is designed with technical diagnostic, trouble shooting and software	
<b>7.4</b>	Flashing type amber light- 60-80 flashes per minute	
<b>7.5</b>	Color white- RAL 9016	
<b>7.6</b>	CO2 Fire extinguisher of suitable capacity to be provided with the unit.	
<b>7.7</b>	Spare wheels, front and rear if different in size	
<b>7.8</b>	Gear interlock (anti-shift) system. It should not be allowed to shift the gear from/to reverse and forward	

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	unless the unit is in STOP position.	
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<b>8.</b>	<b>TRAINING</b> – Provide details of:	
<b>8.1</b>	<b>TRAINING DURING COMMISSIONING:</b>	
	Venue: Oman air premises	
	Operator Training	
	Technical, System and Procedures Training	
	<b>TRAINING AT MANUFACTURERS PREMISES:</b>	
<b>8.2</b>	Intensive Technical, System and Procedures Training for 1 Electrician + 2 Mechanics	
	Duration: 5 days	
<b>9.</b>	<b>MANUALS</b> - (in soft or hard copy)	
<b>9.1</b>	Operating manual -2 sets.	
<b>9.2</b>	Spare parts catalog – 2 sets including sub-assemble component	
<b>9.3</b>	Maintenance and service manuals for repair/major overhaul t- 3 copies per unit	
<b>9.4</b>	Provide electrical, hydraulic and pneumatic diagram of all systems applicable to the unit delivered.	
<b>10.</b>	<b>DELIVERY</b> – The delivery period to be specified	
<b>11</b>	<b>WARRANTY</b> – Warranty up to 24 months from the date the unit is commissioned.	
<b>12</b>	<b>SPARE PARTS</b>	
<b>12.1</b>	Provide a list of recommended spare parts indicating the price.	
<b>12.2</b>	Guarantee for supply of parts and after sales for a period of 10 years and spare parts to be supplied within 14 days from the date of receipt of the purchase order.	
<b>12.3</b>	The list of spare parts to be stocked by local supplier in Oman.	
<b>12.4</b>	Supply of all recommended fast moving emergency spare parts package for 2 years maintenance back-up, shipped together with the equipment. (free of charge)	
<b>13.</b>	<b>PRE-DELIVERY INSPECTION</b>	
<b>13.1</b>	PDI to be carried out at manufacturer’s facility before shipping the unit. Total expense (like air ticket& accommodation) of the two OAHC staff, borne by the supplier)Minimum 3-5 Days	
<b>14.</b>	<b>COMMISSIONING</b> – The details to be specified (period and procedure)	
<b>15.</b>	<b>REFERENCES</b> – Provide list and addresses of users.	
<b>16.</b>	<b>LOADING AND UNLOADING AT SITE</b>	
<b>16.1</b>	On arrival of the equipment at Port of Sohar or cargo port nearest Muscat, the bidder will be responsible to supervise the loading and unloading of the unit from the ship and onto the truck. Until it	

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	is transported to OAHC premises and while waiting for the commissioning to be done by the bidder, and accepted by OAHC	
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