

# Aircraft Oxygen System

CAPABILITY SHEET - GROUND CHARGING & TEST + AIRBORNE DELIVERY - ENGINEERED TO ORDER

## THE SYSTEM

|                 |                                                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WHAT</b>     | An aircraft oxygen system keeps aircrew breathing at altitude - it charges, delivers and tests the life-support oxygen a combat aircraft needs above ~10,000 ft.      |
| <b>OUR ROLE</b> | The GROUND system - booster, charging trolleys, the mobile charging vehicle + the oxygen test facility - is our build; the AIRBORNE regulator & mask are indigenised. |
| <b>STATUS</b>   | Engineered to order; ground system built, airborne delivery indigenised. No specific delivered system is claimed on this sheet.                                       |

## THE CHAIN

|                  |                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SOURCE</b>    | Charged high-pressure gaseous oxygen cylinders, a liquid-oxygen (LOX) converter, or an on-board oxygen generation system (OBOGS) that concentrates it from bleed air. |
| <b>REGULATOR</b> | A demand / pressure regulator senses altitude and delivers oxygen to the mask at the right flow and pressure, adding positive pressure-breathing up high.             |
| <b>MASK</b>      | The aircrew mask delivers the oxygen to the pilot; regulators and masks are verified on an oxygen test facility before flight.                                        |

## THE SPLIT

|                               |                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GROUND (BUILT)</b>         | The oil-free HP oxygen booster, charging trolleys and the mobile charging & distribution vehicle put oxygen aboard at the flight line - our demonstrated build. |
| <b>AIRBORNE (INDIGENISED)</b> | The demand regulator, aircrew mask & helmet integration and portable / helicopter oxygen sets are offered as indigenisation & integration.                      |
| <b>OXYGEN-CLEAN</b>           | Everything is oil-free and oxygen-clean end to end, because high-pressure oxygen with any oil or grease is a fire and explosion hazard.                         |

## DISTINCT & HONEST

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEMONSTRATED</b>  | The ground charging, boosting, distribution and test is our established high-pressure-gas, oil-free and aircraft-GSE competence - a real build, not a claim.                  |
| <b>OUR FRANCHISE</b> | It is a high-pressure gas, oil-free compression, pneumatics and aircraft-GSE problem - our competence; the precision regulator internals & mask are specialist.               |
| <b>ENGAGEMENT</b>    | Send the aircraft class and the scope to <a href="mailto:sales@neometrixgroup.com">sales@neometrixgroup.com</a> for a clause-by-clause compliance matrix in two working days. |

## DEFENCE PROGRAMMES DESK

[sales@neometrixgroup.com](mailto:sales@neometrixgroup.com) · +91 7777 876 876 · [neometrixgroup.com](http://neometrixgroup.com)

Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India