**LM2500型燃机发电机组成套设备供货范围**

**Supply Scope of Complete Equipments of LM2500 Gas Turbine Generator Unit**

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| 序号  No. | 名 称  Name | 型号/规格  Model/Spec. | 单位  Unit | 数量(单套)  Quantity (single set) | 备注  Remarks |
| 1 | 燃气轮机本体  Gas turbine proper | LM2500 | 套  (set) | 1 |  |
| 1.1 | 进气道  air inlet |  | 套 | 1 |  |
| 1.2 | 进口可调导叶组件  Inlet adjustable guide blades assembly |  | 套 | 1 |  |
| 1.3 | 压气机  compressor | 轴流式，17级，进口导叶及0-6级静叶可调，水平中分式气缸结构  Axial flow type, 17 stages, adjustable inlet guide blades and 0-6 stages stationary blades, horizontal split casing structure | 套 | 1 |  |
| 1.4 | 燃烧室  Combustion chamber | SAC单环型燃烧室  SAC single-ring combustion chamber | 套 | 1 |  |
| 1.5 | 高压涡轮  HP turbine | 轴流式，2级  axial flow type, 2 stages | 套 | 1 |  |
| 1.6 | 动力涡轮  Power turbine | 轴流式，6级  axial flow type, 6 stages | 套 | 1 |  |
| 1.7 | 点火系统  ignition system | 单点火器  Single igniter | 套 | 1 |  |
| 1.8 | 轴承支撑系统  Bearing support system | 滚珠+滚柱轴承组合式  Ball plus roller bearing combination | 套 | 1 |  |
| 1.9 | 附件齿轮箱  Accessory gear box | 用于燃机启动，以及润滑油供油泵、回油泵等的驱动  It is used for starting the gas turbine and driving the lubricating oil supply pump and oil return pump | 套 | 1 |  |
| 1.10 | 联轴器  Coupling | 干式柔性联轴器  Dry type flexible coupling | 套 | 1 |  |
| 1.11 | 检测仪表  Detection instruments | 含压力、温度、振动、转速、燃烧脉动、火焰检测等燃气轮机本体运行参数检测仪表  Including pressure, temperature, vibration, rotating speed, combustion pulse, flame detection and other gas turbine proper operating parameter detection instruments | 套 | 1 |  |
| 2 | 发电机  Generator |  | 套 | 1 |  |
| 2.1 | 发电机  Generator | 无刷励磁， 10.5kV 、50Hz、额定功率因数 0.85，滑动轴承支撑。(包括底板、垫铁、地脚螺栓及轴端上的键、所有检测元件等)  Brushless excitation, 10.5kV, 50Hz, rated power factor 0.85, sliding bearing support，including baseplate, wedge block, foundation bolt and key on shaft end, all detection elements, etc.) | 台 | 1 |  |
| 2.2 | 中性点柜  Neutral point cabinet | 含接地变压器、接地电阻及12只电流互感器(CT)，电缆底部连接  Including grounding transformer, grounding resistance and 12 current transformers (CT), cable bottom connection | 台 | 1 |  |
| 2.3 | 出线柜  Outgoing cabinet | 电缆底部连接，含3只避雷器、3只涌浪吸收电容器  Cable bottom connection, including 3 arresters and 3 surge absorbing capacitors | 台 | 1 |  |
| 2.4 | 发电机进气冷却及过滤装置  Generator intake cooling and filtering device | 含水-空冷却器、过滤器、消音器等  Including water-air cooler, filter, silencer, etc | 台 | 1 |  |
| 2.5 | 检测仪表  Detection instruments | 含温度、振动、压差等发电机运行参数检测仪表  including temperature, vibration, differential pressure and other detection instruments for generator operating parameters | 套 | 1 |  |
| 3 | 励磁系统  Excitation system | 3相旋转电枢，3相旋转整流器，永磁发电机(含发电机与系统内部连接电缆)  Phase rotating armature, 3-phase rotating rectifier, permanent magnet generator (including internal connecting cable between generator and system) | 套 | 1 |  |
| 3.1 | 可控硅整流装置  Silicon controlled rectifier | 双通道  Dual channel |  | 1 |  |
| 3.2 | 自动调节励磁装置 AVR  Automatic regulation excitation device AVR | 双通道  Dual channel |  | 1 |  |
| 3.3 | 灭磁柜（含转子接地保护）  De-excitation cabinet (including rotor grounding protection) | 含转子接地保护  Including rotor grounding protection |  | 1 |  |
| 4 | 基座  (Mount) | 含燃气轮机基座、辅助模块基座  (Including gas turbine base and auxiliary module base) | 套 | 1 |  |
| 5 | 罩壳系统  (Hood shell system) | 含内部支架平台、照明、排气蜗壳等  (Includes internal support platform, lighting, exhaust volute, etc) | 套 | 1 |  |
| 6 | 进排气机通风系统  (Intake and exhaust ventilation system) | 静态过滤器，两级过滤，5微米及以上颗粒过滤效率达到99.9%，同时供燃烧空气及罩壳通风空气  (Static filter, two-stage filtration, 5 micron and above particles filtration efficiency of 99.9%, while providing combustion air and hood ventilation air) | 套 | 1 |  |
| 6.1 | 进气过滤系统  (Air intake filtration system) |  | 套 | 1 |  |
| 6.2 | 消音器  (Suppressor) |  | 套 | 1 |  |
| 6.3 | 膨胀节  (Expansion joints) |  | 套 | 1 |  |
| 6.4 | 照明设施  (Lighting fixtures) |  | 套 | 1 |  |
| 6.5 | 支架、走道、平台及扶梯  (Brackets, walkways, platforms and escalators) |  | 套 | 1 |  |
| 6.6 | 排气系统  (Exhaust system) |  | 套 | 1 |  |
| 6.7 | 通风系统  (Ventilation system) |  | 套 | 1 |  |
| 7 | 燃气轮机润滑油系统  (Gas turbine oil system) |  | 套 | 1 |  |
| 8 | 发电机润滑油系统  (Generator lubricant system) |  | 套 | 1 |  |
| 9 | 电动液压启动系统  (Electrohydraulic starting system) |  | 套 | 1 |  |
| 10 | 燃气轮机水洗系统  (Gas turbine water washing system) | 在线/离线水洗，移动小车式  (Online/offline washing, mobile car type) | 套 | 1 | 水洗小车每个项目提供1套  (Wash trolleys 1 set per project) |
| 11 | 可燃气体检测及消防系统  (Combustible gas detection and fire protection system) |  | 套 | 1 |  |
| 11.1 | 光学火焰检测器  (Optical flame detector) |  | 套 | 1 |  |
| 11.2 | 可燃气体检测器  (Combustible gas detector) |  | 套 | 1 |  |
| 11.3 | 热点检测器  (Hot spot detector) |  | 套 | 1 |  |
| 11.4 | 灭火剂管道及喷嘴  (Extinguishing) |  | 套 | 1 |  |
| 11.5 | 二氧化碳气瓶组  (Co2 cylinder set) | 单独成撬安装  (Install separately in a skid) | 套 | 1 |  |
| 11.6 | 消防系统控制盘  (Fire system control panel) |  | 套 | 1 |  |
| 12 | 控制系统  (Control system) |  | 套 | 1 |  |
| 13 | 其他  (Other) |  | 套 | 1 |  |
| 13.1 | 配对法兰  (Pairing flanges) |  | 套 | 1 |  |
| 13.2 | 地脚螺栓  (Anchor bolts) |  | 套 | 1 |  |
| 13.3 | 备品备件  (Spare parts) |  | 套 | 1 | 1 set per machine |
| 13.4 | 专用工具  (Special tools) |  | 套 | 1 | 1 set per project |
| 13.5 | 易损件  (Vulnerable part) |  | 套 | 1 | 1 set per unit |
| 注：除备注中特殊说明外，上述清单为单套设备所包含的供货部件清单。  Note: Unless otherwise stated in the remarks, the above list is the list of supplied parts included in a single set of equipment. | | | | | |