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航空 (Aviation): 0-50 km

航天 (Spaceflight): > 100 km



空气动力
(Aerodynamic Lift)
依靠空气
(Relies on Air)

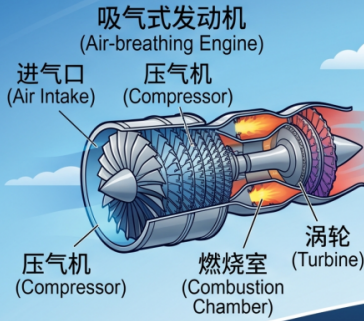
边界: 卡门线
(Kármán line, ~100 km)

平流层
(Stratosphere, 12-50 km)



民航客机

平流层
(Stratosphere, 12-50 km)

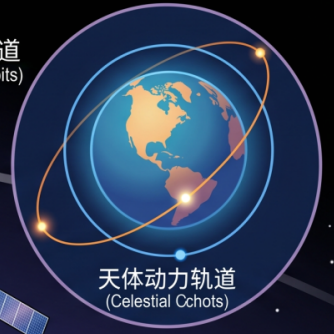


吸气式发动机
(Air-breathing Engine)

对流层
(Troposphere, 0-12 km)

Earth surface

天体动力学轨道
(Celestial Mechanics Orbits)



人造卫星



空间站
400 km

热层/外大气层
(Thermosphere/Exosphere)



运载火箭

氧化剂箱
(Oxidizer Tank)

燃料箱
(Fuel Tank)

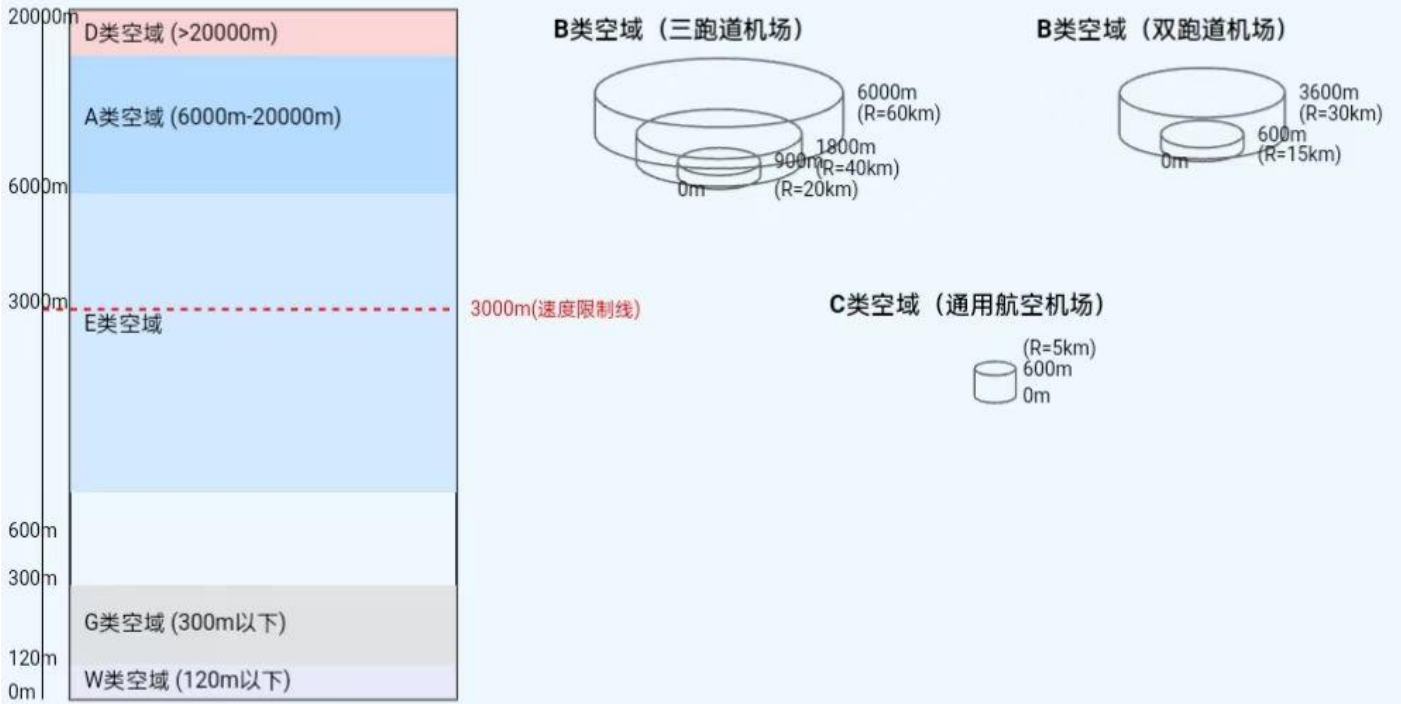
自带氧化剂
(Self-contained Oxidizer)

火箭发动机
(Rocket Engine)

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ft m 1 ft = 0.3048 m 10,000 ft ≈ 3,048 m statute mile
km 1 = 1.609344 km Nautical mile, NM 1 NM = 1.852 km
Knot, kn 1 kn = 1 NM/h = 1.852 km/h
Mach, M M < 1 M ≈ 1 M > 1
BIPM

国家空域基础分类示意图



重要说明:

1. 3000m以下速度限制: 指示空速不大于450km/h
2. B类空域范围可根据实际情况调整为不规则多边形
3. A、B、C、D、E类空域需实现通信和监视覆盖
4. G类空域仅需实现监视覆盖



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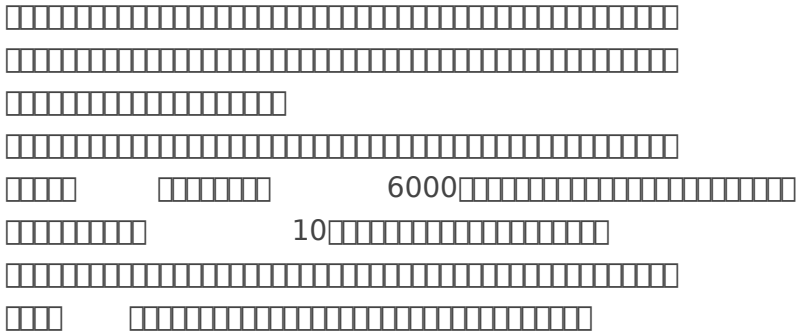
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