高超音速飛行体の研究開発と標準超音速風洞の利用
Research and Development of Hypersonic Vehicles in Hypersonic Wind Tunnel

風洞の目的と試験範囲
Principal Items and Test Range of Hypersonic Wind Tunnel

高超音速風洞風洞の利用

We are introducing advanced technologies in the wind tunnel testing: six-component force measurement using sweep probe, electronically scanning pressure (ESP) system, heat transfer measurement by the infrared thermography and flow visualization by oil flow. For the optimal design of aerospace vehicles, the load of wind tunnel testing, numerical simulations and flight experiments are indispensable. We are pursuing the combination study.

試験範囲 Test Range

試験風洞 Close-up Image

飛行データ ネットワーク

飛行シミュレーション Numerical Simulation

宇宙航空研究開発機構
Japan Aerospace Exploration Agency

風洞の実験風洞

1.27m Hypersonic Wind Tunnel

宇宙航空研究開発機構
Japan Aerospace Exploration Agency

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1.27m Hyper Wind Tunnel