



LOW SPEED WIND TUNNEL

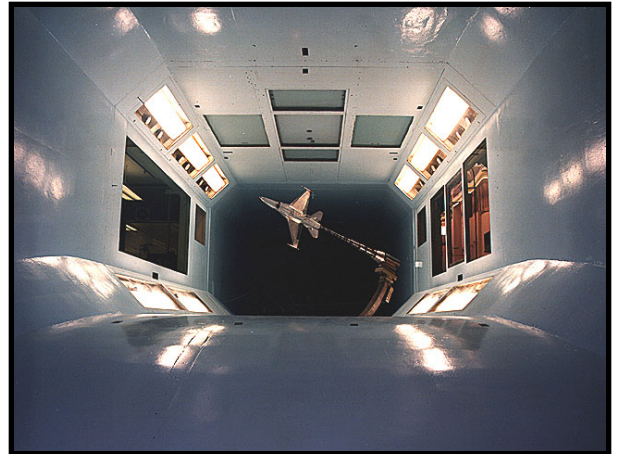
San Diego, CA

www.lswt.com

For over 60 years, the San Diego Low Speed Wind Tunnel (LSWT) has served the testing needs of the aerospace community. The tunnel circuit provides low turbulence, clean airflow, and uniform velocity distribution in the test section with controllable flow as low as 10mph. A new variable frequency fan drive system is one of several recent tunnel upgrades.

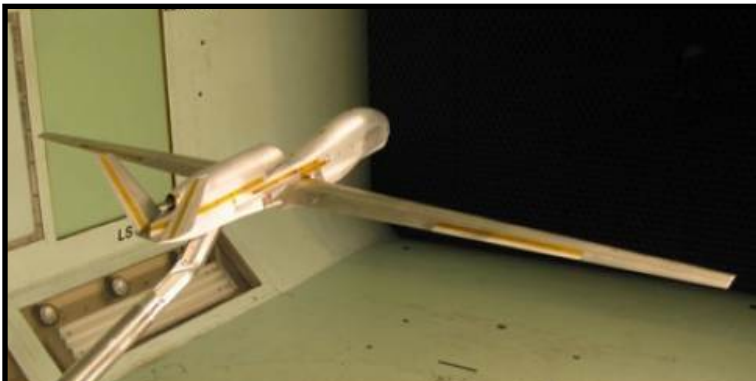
Tunnel Specifications:

Tunnel Type:	Closed Return Flow
Test Section Size:	8' H X 12' W X 15' L
Velocity:	10 to 270 mph
Mach Range:	0.04 to 0.33
Angle of Attack Range:	$\Delta = 38.5^\circ$
Reynolds Number:	0.25 to 2.50 ($\times 10^6$ / ft)
Operating Temperature:	Ambient
Operating Pressure:	Atmospheric
Dynamic Pressure:	2 to 190 psf
Tunnel Motor:	2,250 hp, 20 ft dia. Fan
Data System:	HP 1301A VXI, 64 channels
Pressure System:	PSI 8400



Facility Testing Capabilities:

Force & Moment:	Internal Balances External Balances Sting & Strut Mounts
Aircraft Flutter:	Q-Reducer System
Flow Visualization:	Smoke Tufts French Chalk
Propulsion Systems:	Ejectors Inlet Suction Exhaust Blowing Turbine Simulation Electric Model Motors
Pressure Measurements:	Model Surface Flowfield



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