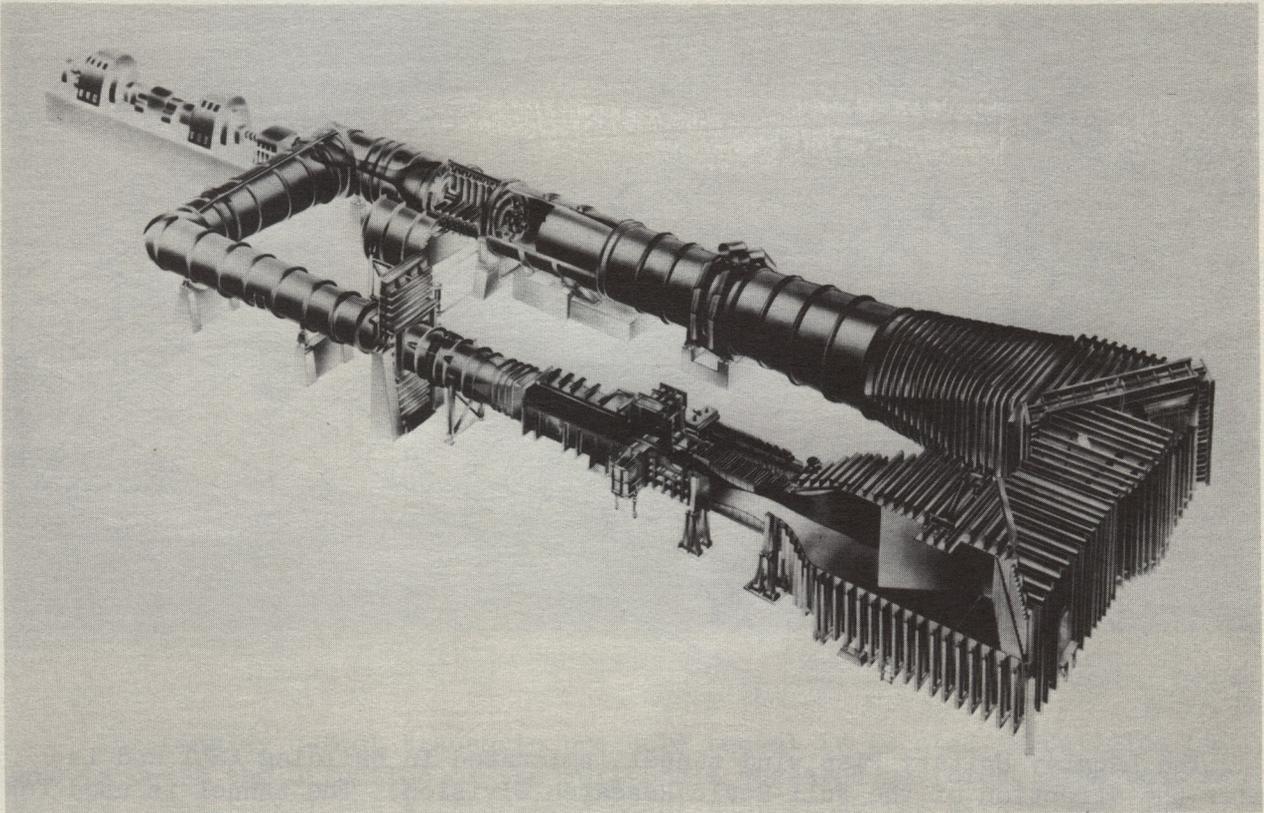


LANGLEY 4- BY 4-FOOT SUPERSONIC PRESSURE TUNNEL



L-60681

The Langley 4- by 4-foot supersonic pressure tunnel is located in Building 1236 and is under the direction of the Full-Scale Research Division. This tunnel is used for force, moment, and pressure studies. The test medium is air. Model mounting consists of various sting arrangements, axial and lateral movement are available, and side-wall support. Tunnel is continuous flow, variable pressure with interchangeable nozzle blocks. The test section is 4.5 feet square and 7 feet long. Examples of operating conditions are as follows:

Mach number . . . . .	1.25 to 2.6
Stagnation pressure, psia . . . . .	4 to 30
Stagnation temperature, °R . . . . .	570
Dynamic pressure, lb/sq ft . . . . .	250 to 1368
Reynolds number per foot . . . . .	$1.4 \times 10^6$ to $6.6 \times 10^6$