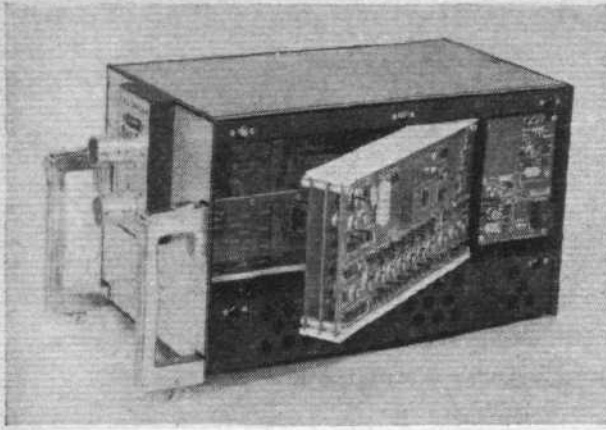


HANOVER 1968 ...



Concorde's artificial stabilisation system, the SFENA (France) part of the SST's Elliott/Bendix/SFENA autopilot

Eurospace, Groupement Industriel Européen d'Etudes Spatiales Paris (A) A consortium of companies with space interests; exhibits feature European space projects.

Forges de Bologne SA Boulogne (A FR) Drop and press forgings.

Hispano-Suiza, SEM Bois-Colombes (A FR) Arrestor barriers, adaptable for cable or net, for aircraft up to 200 tons at 120kt; Concorde anti-skid braking system—SPAD (Système Perfectionné Anti-Dérapant); Br.1150 Atlantic wheels and brakes; hydraulic pumps and motors including an automatic-regulation pump developed for high-temperature operation in supersonic aircraft; examples of co-operation with R-R and M.A.N. Turbo on the Tyne programme for the Atlantic and Transall C-160.

Impervia, Société d'Etudes et de Réalisations Courbevoie (A FR) Adhesives, protective coatings and cements with a Du Pont Viton elastomer, curing at room temperature; Aerosol spray Viton cement/coating compound.

Intertechnique Plaisir (A FR) Hydraulic-motor-driven fuel pumps; fuel gauging systems; fuel systems components; temperature control equipment; oxygen systems; electronics and telemetry equipment for D2, ESRO 2 and Eole satellites.

Jaeger, SA des Ets Ed Levallois-Perret (A FR) Servo altimeter with digital scale and provision for altitude reporting; combined ASI/Machmeter; high-sensitivity vertical scale indicators; accelerometers, tachometers, position and pressure transmitters and indicators; electrical connectors; heat exchangers and filters.

Joint Français, Société le Bezons (B) Seals, jointing, PRC sealants and protective coatings.

Kléber-Colombes Paris (A FR) Tyres; inflatable de-icer boots; thermal heating and de-icing blankets; inflatable seals; plastics flooring and partitioning; flexible pipes.

LMT (le Matériel Téléphonique) Boulogne-Billancourt (A FR) Communications and navigation equipment; flight simulators and training aids. Also exhibiting on Standard Elektrik Lorenz stand, Hall B.

Le Bozec & Gautier SARL Courbevoie (A FR) Electrically-operated gate valves; fluids

and fuel system filters, non-return valves, connectors and self-sealing couplings.

Messier SA Montrouge (A FR) Landing gear assemblies: Jaguar main leg; Concorde nose leg and tail bumper; Transall C-160 main gear; Fan Jet Falcon; Alouette III; SA. 330 rough-ground bogie gear with hydraulic motor drive; and Super Frelon.

Nord-Aviation, Société Nationale de Constructions Aéronautiques Paris (A 101 FR) Models of Nord 262, commercial Jet Transall C-161, Nord 501 shrouded-propeller VTOL aircraft, and an "aerospatial carrier." Missiles: Harpon TCA automatic guidance anti-tank; SS/AS.12 tactical and air-sea; AS.30 visual radio-controlled air-surface; and C.30 target drone. Milan, Hot and Roland are displayed by UVP (Union for the sale of Nord-Aviation/Bölkow products) on Bölkow stand, Hall B.

Précilec Paris (A FR) Servo-mechanisms, encoders, amplifiers, computer components, c.r.t. display systems.

Précision Mécanique Labinal Saint-Ouen (A FR) Constant-speed drives (Sundstrand licence); 400 Hz a.c. and 30V Hz electrical systems; engine starting panels; hydraulic pumps; electro-mechanical powered-control actuators; servo actuators; circuit breakers, switches and miniature lamps.

SAGEM (Société d'Applications Générales d'Electricité et de Mécanique) Paris (A FR) Inertial navigation systems; airborne computers; gyro-platforms; gyros and accelerometers; servo-mechanisms.

SAMM (Société d'Applications des Machines Motrices) Issy-les-Moulineaux (A FR, B) Hydraulic and electro-hydraulic powered controls as fitted to Jaguar, Atlantic and Bréguet 941, and Sud helicopters; electric motor-driven hydraulic pumps for Mirage III series; control grips and push-buttons; pressure switches and relief valves; model of a combat helicopter remote-control gun turret.

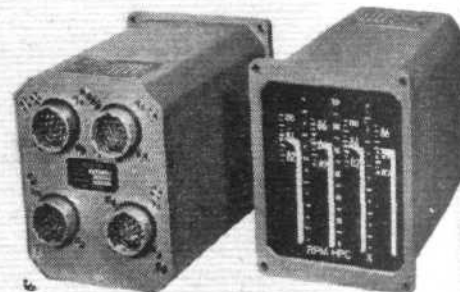
SARMA (Société Anonyme de Recherches de Mécanique Appliquée) St-Vallier-sur-Rhone (C) Control rods (Sud licence); structural tie-rods; cable tension regulators (Pacific Scientific licence); harness reels; cable and rod fittings; Teflon bearings.

SEMCA, Ateliers Toulouse (C) Cabin compressors; air cooling turbines; pressurisation controllers; electric gate valves; jet engine starters.

SEREB (Société pour l'Etude et la réalisation d'Engins Ballistiques) Puteaux (A FR) Films covering work on the MSBS and SSBS programmes, and co-operation in the European space programme.

S.F.E.N.A. SA (Société Française d'Equipements pour la Navigation Aérienne) Neuilly (A FR) Tapir (Transition et Atterrissage Pilotés par Inertie et Radio) modular-unit autopilot systems with automatic landing capability up to Cat 3A, and specified for Air France and Air Inter F.27s; Concorde artificial stabilisation system; spherical horizon with heading repeater; gyroscopic horizon for Luftwaffe Bell UH-1Ds; accelerometers and miniature rate gyros.

SFIM (Société de Fabrication d'Instruments de Mesure) Massy (A205 FR) Jaguar navigation system components including twin-gyro heading and vertical reference platform; spherical-indicator gyro horizon; gyro-magnetic compass; magnetic tape flight recorder. Other products include oxygen regulators, transducers, and a crash-protected accident data recorder.



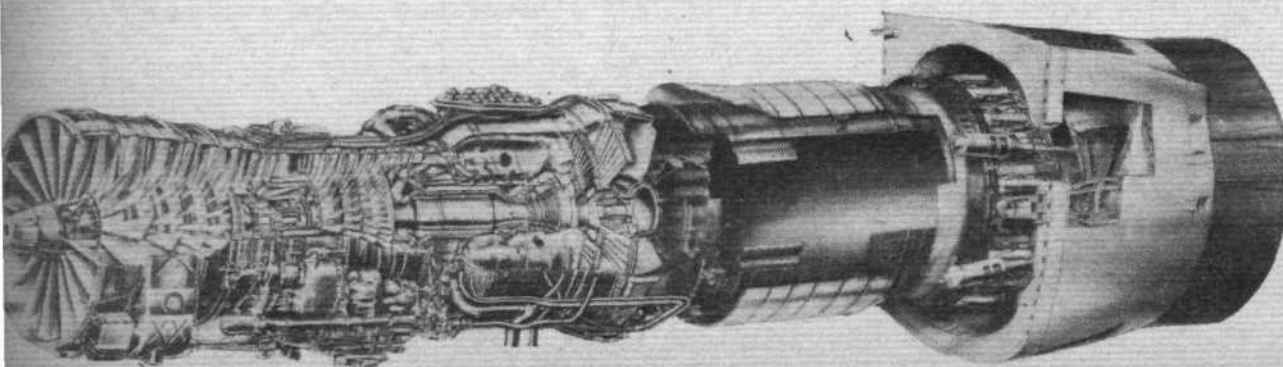
Jaeger quadruple-scale, high-sensitivity, vertical reading compressor r.p.m. indicator

SICMA Aero Seat Co Paris (C) Prestige lightweight high-density, fixed and reclining-back double and triple luxury passenger seats (weights less than 20lb per place).

SNECMA (Société Nationale d'Etude et de Construction de Moteurs d'Aviation) Paris (A204 FR) Atar 09.K and 09.K50 (Mirage F.1) afterburning turbojets; full-scale mock-ups of R-R/SNECMA M45H (VFW.614) and the new SNECMA/Turbomeca M.49 Larzac (2,260lb s.t.), civil twin-spool turbofans; 1/4-scale model of Concorde Olympus 593 powerplant with SNECMA exhaust system. Electronic components include Olympus 593 turbine disc cooling warning amplifier and afterburner control system; RB.172 r.p.m. and temperature controller; satellite aerial systems. Panels describe work of SNECMA, Elecma (Electronics Division), Nuclear Energy Division and Turboma (Industrial Turbines); Franco/British and Franco/German co-operation including RB.207-Airbus (R-R/M.A.N. Turbo/SNECMA).

SOCAPEX Suresnes (A FR) Communications headsets; miniature multi-pin connectors.

SOREAS (Syndicat des Fabricants d'Organes et Equipements Aéronautiques et Spatiaux) Paris (A FR)



A SNECMA illustration of a complete Concorde powerplant revealing internal details of the SNECMA exhaust system and the Rolls-Royce, Bristol Engine Division Olympus 593