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AERO ENGINES

FLIGHT International, 7 January 1971

FABRIOUE NATIONALE D'ARMES
DEGUERRESA
I SNECMA!

J79 EUROPEAN
CONSORTIUM

("Alar 09c turbojet 9,430 lb-13,200 lb V -
GENERALELECTR1CCO

TYNEEUROPEAN
CONSORTIUM

J79turbojet 11,870 lb-17,900 lb *+-
ROLLS-ROYCE LTD

=(Tyne turboprop 6,100 s.h.p/V-*

engine manufacture. 1969 corporate sales £34.1 million of which aero-engine sales represent a significant part.
Sole aircraft turbine engine manufacturer in Belgium. FN builds 14,1101b, 64UN Snecma Atar 0.9C augmented turbojets for Belgian-built Mirage 5B fighter-bombers. FN is also par-ticipating in licensed-manufacture of Bolls-Royce Tyne turbo-props (in conjunction with Snecma, MTU and R-R) to power Breguet Atlantic and Transall C-160 aircraft. In addition the company overhauls General Electric J79-GE-11A and Turbo-meca Marbore 2F turbojets and other, shaft-power turbines.

engines. Overall commercial/military sales split 60/40 with 75 per cent of all sales exported. More than 5,200 employees. Emerged as leading small turbine company on strength of its PT6A turboprop (the 4,000th unit was delivered on Decem-ber 18 last). UACL now powers some 75 per cent of all light twin-turboprops in the West, amounting to almost 1,500 air-craft in 58 countries. Coupled turboshaft version of PT6, designated PT6T or military T400, now also in production for civil and military helicopters, giving total PT6 flying time of 4 million hours. Company recently awarded grants by Quebec government of up to $5 million, £2.09 million over next five years to assist in manufacture of JT15D turboshafts for export. TJACL investing $40 million, £16.7 million of corporate funds for JT15D overall programme. Company's ST6L-73 APU also now flying in Lockheed TriStar. Temporary setback with new third-line projects (e.g. PT6A-powered de Havilland Canada DHC-7 and General Aircraft GAC-100) reflecting cur-rent weakness in North American economy. Representative applications: Cessna Model 500 Citation, 2XJT15D-1 (2,2001b, 9.98kN). Beechcraft 99 Airliner, 2XPT6A-27 (652e.h.p.,486kW), de Havilland Canada Twin Otter, 2XPT6A-27 (652 s.h.p., 486kW). Bell UH-1N, 1XT400-CP-4 (1,800 s.h.p., l,342kW).

CANAD A

ORENDA

Orenda Ltd. Headquarters: Malton, Ontario. Public company owned 60 per cent by Hawker Siddeley Canada Ltd and 40 per cent by United Aircraft Corporation. Engaged in industrial and aircraft turbine manufacture.

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Orenda is licence-manufacturing the General Electric J85 aug-mented turbojet as the 4,3001b, 19.50kN J85-CAN-15 for Canadian-built Northrop CF-5 and NF-5 fighters. The company, whose operations are largely dependent on Canadian military requirements, also overhauls J79, J85 and Orenda turbojets and has sub-contract work for P&W and other US companies.

UACL

United Aircraft of Canada Ltd. Headquarters: Longueuil, Quebec. Public company owned 95 per cent by United Aircraft Corporation and five per cent by private shareholders. En-gaged primarily in turbine and piston aircraft engine and general aerospace manufacture. In 1969 corporate sales were over $120 million, £50 million, of which major part was aero

UNITED AIRCRAFT CORP PRIVATE SHAREHOLDERS

95 PER CENT 5PERCENT

UNITED AIRCRAFT OF CANADALT D

CZECHOSLOVAKIA

MOTORLET

Motorlet NC. Headquarters: Prague-Jinonice. National corpora-tion engaged in aircraft turbine and related light engineering manufacture. Sales include Communist-bloc and other over-seas countries.

Sole Czech aircraft turbine design, development and manu-facturing concern, with M701 1,9621b, 8.9kN turbojet power-ing Aero L-29 Delfin trainer as its major product. Close on 5,000 M 701s built with production scheduled through to next year. As successor to M701, company has started licensed manufacture of Ivchenko AI-25 3,3001b, 15kN turbofan for new Aero L-39 trainer, including progressive development of engine (also known as Walter Titan) to 3,9681b, 18kN. Motor-let-designed M 601A 540 e.h.p., 403kW turboprop being flight-tested in Ilyushin 11-14 for Let L-410 light transport. Produc-tion M 601 to be rated at 740 e.h.p., 552kW.

FRANCE

MICROTURBO

Microturbo SA. Headquarters: Toulouse, Haute Garonne. Public company owned by Ateliers SEMCA SA, aircraft acces-sories group. Engaged in manufacture of aircraft gas-turbine starter systems, APUs and ultra-small propulsion turbines with annual sales of approximately Fr25 million, £1.9 million.

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for smal l engines 0

JT15D
turbotan
2,200 lb
MOTOREN-UND TURBINEN-UNION
MUNCHENGmbH
PT6A/T74

578-1,088 s.h.p/

PT6T/T400
coupled turboshaft
1,000 s.h.p

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turboshaft J

550-890 s.h W WMk0^