



DOWTY

FIRST IN HYDRAULICS IN CANADA

MAIN LANDING GEAR

for

AVRO'S ARROW

To stow in the extremely restricted space of today's high performance aircraft this tandem wheel landing gear **SHORTENS, TWISTS and TRIMS** as it retracts. In order to reduce its size and weight to a minimum **ULTRA HIGH TENSILE STEEL** (260,000-280,000 psi.) is used extensively together with large complex **FORGINGS** and new **PRODUCTION** machining methods. The successful completion of this project reaffirms **DOWTY'S** ability to meet the **CHALLENGE OF THE FUTURE** with **ORIGINALITY** backed up by the invaluable **EXPERIENCE** of more than two decades of hydraulic and landing gear **SPECIALIZATION**.

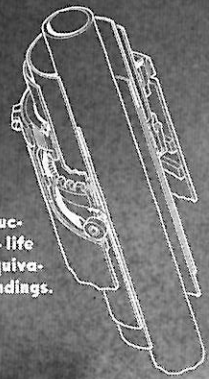
DOWTY EQUIPMENT OF CANADA

'Member of the DOWTY Group'



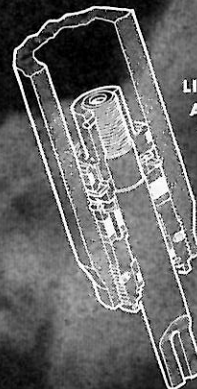
CURVIC COUPLING

Torque carrying structural disconnecter — life tested to the equivalent of 2000 landings.



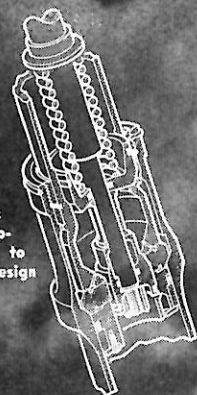
LIQUID SPRING

A compact shock absorber capsule - gland dynamically sealed at pressures up to 50,000 p.s.i. at a temperature of -65° Fahrenheit.



SIDE STAY

Internal lock ideal for heavily loaded telescopic columns — successfully operated after testing to 170% of ultimate design load.



A successful landing gear is an integration of many such elements as those shown above. On all of these the engineering cycle, which started with a study of basic design principles has been completed with successful realistic testing.

• **AJAX • ONTARIO**