CANADAIR
DYNATRAC
U.S. ARMY XM-571
ALL TERRAIN
ALL PURPOSE
VEHICLE

1. WINCH DRIVE-SHAFT
2. TWO-SPEED DROP BOX
3. DISC BRAKE
4. CLUTCH-BRAKE ASSEMBLY
5. SPROCKET DRIVE
6. ARTICULATION JOINT
7. CORVAIR ENGINE
8. 4-SPEED TRANSMISSION GEARBOX
9. DRIVE SHAFT
10. DRIVE-THROUGH HYPOID GEARBOX
11. REAR UNIT DRIVE SHAFT
12. DRIVE-THROUGH HYPOID GEARBOX
13. PARKING BRAKE

CANADAIR LIMITED P.O. BOX 387, MONTREAL, CANADA
A SUBSIDIARY OF GENERAL DYNAMICS CORPORATION
S.P. 299 APRIL, 1966
Printed in Canada
THE CANADAIR DYNATRAC

The Canadair DYNATRAC is a full tracked, articulated, high mobility, utility carrier which has been adapted to many military roles including troop carrier, cargo carrier, weapons carrier and platform, field ambulance, and radio command post.

The vehicle consists of a front and rear unit with all tracks driven by a single air-cooled engine in the front unit. Steering is accomplished by the action of hydraulic actuators applying forces between the two units. When desired, the front unit may be operated alone. In this case, steering is accomplished by a conventional clutch-brake system.

The DYNATRAC is light enough to be transported, with 2000 pound payload or 10 fully equipped soldiers, by medium helicopter or transport aircraft into areas which are otherwise inaccessible. Once in these areas the vehicle has unlimited off-road mobility.

It has been proven by rigorous trials under actual service conditions in the U.S.A., Norway, Canada and Alaska that it meets the U.S. Army specifications for a multi-terrain vehicle that can operate in all climates from —65°F to 115°F in jungle swamps, mud, marshes, deep snow, tundra, muskeg, sand and rocky ground. Its swimming ability permits it to cross inland water bodies without special preparation.

For cold weather operation, personnel in both front and rear sections of the vehicle are protected by easily attachable arctic cabs which are provided with heaters. The heater in the front cab is also available for engine and battery warm-up for easy starting.

The DYNATRAC design permits the addition of a third articulated unit which is powered in the same way as the second unit. This increases the vehicle payload capacity to 3500 pounds for air transport and amphibious operations, and 5000 pounds for all other operations.

PERFORMANCE

<table>
<thead>
<tr>
<th>Operating Speed</th>
<th>30 mph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>300 miles</td>
</tr>
<tr>
<td>Longitudinal slopes</td>
<td>over 60%</td>
</tr>
<tr>
<td>Side slopes</td>
<td>over 40%</td>
</tr>
<tr>
<td>Vertical Wall</td>
<td>18 inches</td>
</tr>
<tr>
<td>Turning Circle</td>
<td>20 ft. radius</td>
</tr>
<tr>
<td>Swimming speed</td>
<td>2 mph</td>
</tr>
</tbody>
</table>

Payloads  | All Terrain | Amphibious Operation |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>One unit</td>
<td>1000 lb.</td>
<td>750 lb.</td>
</tr>
<tr>
<td>Two units</td>
<td>3000 lb.</td>
<td>2000 lb.</td>
</tr>
<tr>
<td>Three units</td>
<td>5000 lb.</td>
<td>3500 lb.</td>
</tr>
</tbody>
</table>

ROLES

Personnel & Cargo Carrier, Ambulance Communications Center

Weapons Systems Carrier, for:
- 7.62 mm. Machine Gun
- 106 mm. Recoilless Rifle
- Davy Crockett, TOW.

Can be airlifted by STOL Army aircraft or medium helicopters such as CV-2 Caribou and CH. 47A Chinook.