

TROJAN AND TITAN BREACHER AND BRIDGELAYER

TROJAN AND TITAN - SPECIFICATIONS

TROJAN

Challenger Armoured Engineer Vehicle
High intensity manoeuvre support in
direct fire zone
Complex obstacle breacher

Crew 3

Main Functions/Performance

Route Clearance

1m³ bucket
Lift capacity 16.5 tonne m
Grab and grapple thumb attachment
Impact hammer/earth auger can
be fitted
Tree and other obstacle clearance
Dozer blade
Short gap crossing (8m)-using midi
fascines
Hydraulic power
take-off 140 bar @ 32l/min

Minefield breaching

Full-width or track-width mineplough
Can tow and fire tandem explosive
Pythons from under armour
Can mount vehicle signature duplicator
Safe lane markers from under armour

Armament

Overhead system (7.62mm MG) with
360° traverse, operated from under
armour

TITAN

Challenger Armoured Vehicle Launched
Bridge (AVLB)
Tank bridgelayer operated from under
armour

Crew 3

Main Functions/Performance

Carries and launches No 10 bridge
(26m) in two minutes
Carries and launches No 12 Bridge
(13.5m) in 90 seconds
Carries and launches tandem No 12
bridges
Wet and dry gaps
Can fit dozer blade or track width
mineplough
Step height +800 -500mm with
plough/dozer fitted
Launch torch angle +10°, -7.2° and
cross slope 10°
Early scissoring launch
Deploys trestles for combination
bridges in 5m deep gaps
Fits wedges to enable overbridging
including oil pipelines
Armament
Crew personal weapons

COMMON SYSTEMS

Engine/Transmission

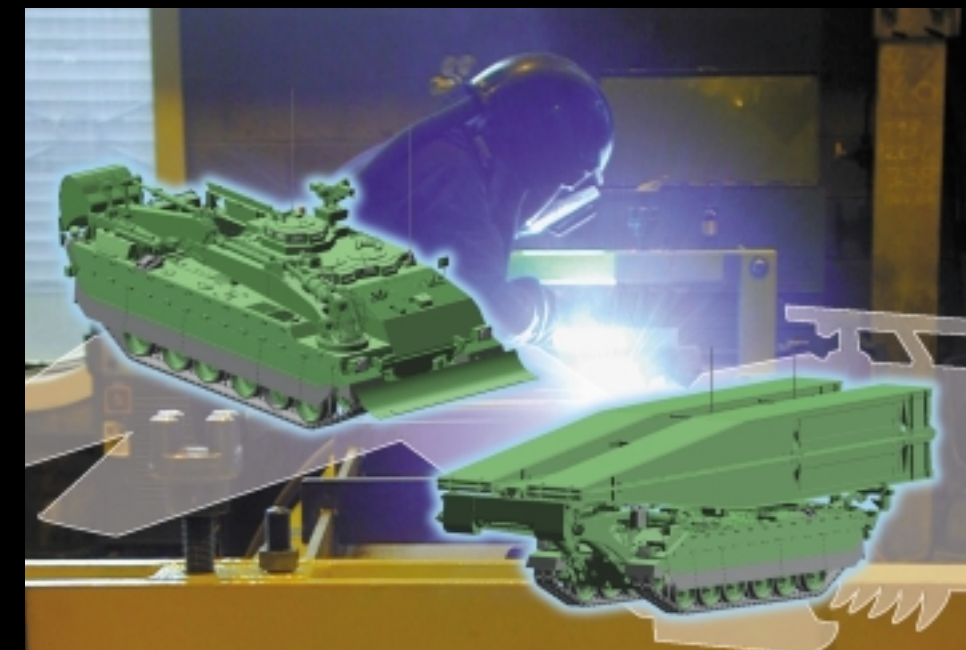
Perkins CV-12 8a diesel with digital
electronic engine
David Brown TN54 improved (low loss)
transmission with 6 fwd and 2 rev gears
APU based on Perkins Diesel engine,
capacity 2216cc, providing 350 Amps
Hydrostatic double differential steering
system (90 deg neutral turn in 6 secs)

Armour Protection

Enhanced protection including frontal
and mineblast protection

Electrical System

Three sources (engine, APU and 6
batteries) provide 360 Ah capacity.
Operation at nominal 24V (28.5V d.c.)



ARMoured
PROTECTION

HIGHLY MOBILE

CHALLENGER BASED

SPECIALIST
CAPABILITY

WORLD'S FASTEST
BRIDGELAYER

The Company reserves the right to change these specifications

Alvis Vickers Limited

Scotswood Road, Newcastle upon Tyne
NE99 1BX, UK

Telephone: +44 (0)191 273 8888 Fax: +44 (0)191 273 2324
www.alvisvickers.co.uk

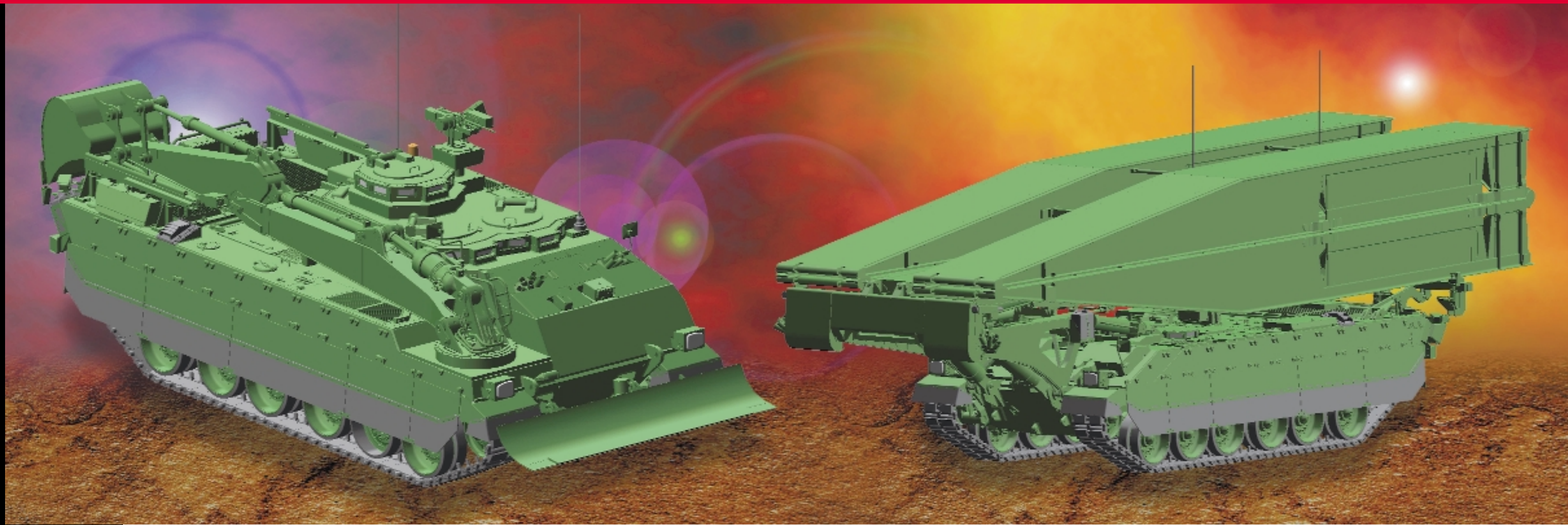
Alvis plc

International Marketing Group

34 Grosvenor Gardens, London SW1W 0AL, UK

Telephone: +44 (0)207 808 8888 Fax: +44 (0)207 808 8889
E-mail: img@alvis.plc.uk www.alvis.plc.uk





TROJAN AND TITAN

In every phase of the land battle, a commander needs Armoured Engineers to ensure the success of his plans. Their equipment needs the same level of protection and mobility as the main battle tanks, which they support. This is essential for speed, security and safety.

The twin requirements of armoured protection and specialist capability demand purpose designed, armoured fighting vehicles.

These requirements led to the British decision in 2001 to develop TROJAN and TITAN. TROJAN is a unique complex obstacle-crossing vehicle based on Challenger 2 and the latest tank technology, while TITAN is quite simply the most capable and fastest tank bridgelayer in the world

Alvis Vickers is the world leader in the design and manufacture of such vehicles with a wealth of experience in engineer vehicles and special to role equipment for integration onto armoured chassis. Alvis Vickers was selected for TROJAN and TITAN in an international competition.

On deployment of armoured forces, the first task is the preparation of defensive positions and multiple obstacles to enemy movement, including anti-tank ditches and mines. When battle is joined, armoured forces must manoeuvre and re-deploy, and overcome obstacles, natural and man-made. These are likely to include mines and gaps, both wet and dry.



TROJAN provides a wide range of capabilities vital in the battle area. It is fitted with a dozer-blade or a mineplough. These attachments are readily interchanged. TROJAN is custom-designed to create routes through or over obstacles. It can clear mines using the mine-plough or by firing explosive mine-clearing hose. It launches fascines into small gaps. It digs, using its excavator and/or the dozer. All capabilities are exercised with the crew under full armour protection. It can carry general engineer stores and use its on-board crane and powered tools to undertake a wide range of tasks.

TITAN can launch the 26m No 10 bridge – also made by Alvis – in two minutes and using integral trestles and wedges can lay multiple combination bridges in depths of 5m, and overbridge oil pipelines and bridges. TITAN can carry two 13.5m

No 12 bridges, which are laid in only 90 seconds.

No other Armoured Engineer Vehicle in the world based on latest generation battle tank chassis has this range of capability. The base vehicle is Challenger 2, plus the latest upgrade for desert warfare conditions.

