

Training System Updates

Hydraulic Motion Jack Refurbishment



CAE offers Training System Updates to existing military customers to enhance training system capability and availability, and prolong the useful life of equipment. As a leading training expert, CAE collaborates with customers to determine the best plan of action for your needs and budget.

Overview

The motion system of a simulator provides some of the most important cues to pilots and greatly enhances the realism of training. For customers using simulators with hydraulic motion systems, CAE can refurbish the motion jack to increase the efficiency and lifespan of the motion system.

Over time and through frequent use, hydraulic motion systems may develop issues with various mechanical components, such as leaks or worn parts. This can lead to a range of problems, such as unnecessary maintenance work for on-site staff or system downtime that impacts training schedules.

CAE offers three levels of hydraulic motion system refurbishment services, with an increasing number of motion system components inspected, refurbished or replaced.

In all three cases, CAE staff will travel to the customer site to remove the motion jacks and ship the defective parts for refurbishment. Once the parts have been refurbished, or new parts have been procured to replace old ones which were beyond repair, CAE staff will return to the customer site to reinstall them and will carry out the required testing to ensure that the motion system is once again fit for use.

As part of the service, CAE will update customer documentation regarding the simulator, as required, regardless of the level of refurbishment required.

Your simulator's hydraulic motion system is not functioning optimally?

Perhaps it's time for a refurbishment.

Benefits of a refurbishment :

- Reduce system down time
- Increase training efficiency and system performance
- Minimize premature system aging
- Prevent part breakage

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Technical details

Services included in each level of refurbishment:

Services	Level 1 Basic	Level 2 Intermediate	Level 3 Complete
Seals replaced (O-Ring)	●	●	●
Hydraulic valve refurbished	●	●	●
Washers and nuts replaced	●	●	●
Damaged bolts and screws replaced	●	●	●
Inspection of the lower clevis bearing	●	●	●
Manifold cleaned	●	●	●
Position and pressure transducers replaced		●	●
Inspection and replacement of the manifold components		●	●
Lower clevis bearings replaced		●	●
Super swivel (connection pressure and return to valve)		●	●
Piston (re-chroming) or housing replaced			●
Cushions replaced			●



An alternative is to completely replace the hydraulic motion system with a new electric motion system that will require less maintenance, less refurbishments, and save energy.

Talk to your CAE representative to determine the right approach for your needs and budget.

Canada

Tel: +1-613-247-0342
milsim@cae.com

Europe

Tel: +49-2402-106-0
info@cae-gmbh.de

India

Tel: +91-80-2625-6000
caeindiapvtltd@cae.com

United States

Tel: +1-813-885-7481
cae_usa@cae.com

Australia

Tel: +61-2-9748-4844
caeaus@cae.com.au

Middle East

Tel: +971-2-676-7676
milsim@cae.com

United Kingdom

Tel: +44 (0) 1444-247535
cae_plc@cae.co.uk

Asia

Tel: +65 6430 4390
milsim@cae.com

Corporate Headquarters

Tel: +1-514-341-6780
milsim@cae.com

milsim@cae.com

@CAE_Defence

CAE

cae.com

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