



Precision in Aircraft Support

In safe hands.



FORTEVO N-SERIES NARROW-BODY TRIPOD-JACKS



Kawasaki P-1 FortEvo wing tripod-jack with EJAL-system at a FAL

FORTEVO N-SERIES

The FortEvo N-Series has been engineered and developed using state-of-the-art technology.

The consistent modularity allows it to be configured according to your specific requirements. Various configuration options, from the basic to the high-end versions, are available in combination with the central EJAL control system for safe operation.

Our goal is to provide customized system solutions for all of your requirements in order to facilitate economic and highly efficient maintenance for your aircraft.

CHARACTERISTICS

- Tripod structure
- Dual manual hydraulic pump with high- and low-pressure unit
- Overload relief valve offers protection against overpressurization
- Pressure indicator in bar and psi as well as conversion table for kN and tonnes
- Manually operated safety lock nut for protection against unintended pressure relief
- Level for vertical alignment verification
- Feet with fixed ground plates
- Spring-loaded castors with locking mechanism
- Hard-chromium-plated cylinder tube for long and trouble-free service life
- Interchangeable adapters for additional aircraft types
- Skydrol-resistant paint and galvanized plating for corrosion protection
- Movable tow-bars
- Ladder with platform or pedestal (according to jack height)
- Interface for HYDRO proof-load equipment
- Factory proof-load tested with 150 % of nominal capacity incl. proofload certificate

ELECTRONIC SYSTEM FOR SYNCHRONIZED AIRCRAFT JACKING AND LEVELLING

The EJAL system automatically controls all tripod-jacks during the process of lifting and lowering the aircraft. The entire process is controlled by the electronic position sensor. Maximum safety is achieved with the automatic safety lock nut. EJAL ensures 0.15° inclination accuracy of the aircraft. This option is available for FortEvo jacks.

EJAL ADVANTAGES AT A GLANCE

- Safe aircraft-jacking procedure by means of permanent control of aircraft inclination
- Reduced number of operators required for the jacking procedure through centralized operation of all jacks
- Reduced risk for the operator and aircraft by means of synchronized lifting and lowering operation
- Cost savings due to faster jacking procedure with fewer operators

BENEFITS

+ MINIMAL LIFE-CYCLE COSTS

- Proof-load interfaces for easy proof-load testing
- Same design and operation for different capacities: This ensures less training costs and less spare parts variety

+ MORE THAN 10 YEARS SPARE PARTS AVAILABILITY

- Worldwide stock for spare parts
- Delivery time for on-stock spare parts three working days
- Delivery time in the event of AOG: Same day

+ LONG PRODUCT LIFE-CYCLE

- Tripod-jacks from the 1950s are still in operation
- Tripod-jack corrosion package for long and trouble-free product life: hard-chromium plated cylinder tubes, nickel-plated sockets, brushed stainless-steel screws, galvanized plating etc.
- Skydrol-resistant paint
- Oil strainer in the hydraulic system for failure-free operation
- Magnetic drain plug in the oil-tank to bind metal particles, for failure-free operation

+ ERGONOMIC AND ROBUST DESIGN

- Coarse trapezoidal thread to ensure faster lifting/ lowering of the tripod-jack
- Secondary cylinder seal protects against contaminants and prolongs life of primary seal
- Low-friction seal for uniform piston return
- All jacks are equipped with a bubble level indicator for accurate alignment and levelling



+ LOCAL SERVICE AVAILABILITY

- We are on-site with ten service-centers around the world
- Our FortEvo tripod-jacks have proof-load interfaces and can be easily proof-load tested

+ HEALTH AND SAFETY

- Our tripod-jacks have 10 % side load ability
- All jacks are tested with 150 % proof-load
- All GSE equipment has region specific manometers

+ 100 % OPERATION READINESS

- Our GSE equipment is 100% operation ready when you need it. For decades!
- Interchangeable A/C specific jacking adapters

More than

800

tripod-jacks sold in the last 10 years

More than

10

years spare parts availability

All bearing parts tested with

150%

proof-load

Max.

2%

pressure loss in 5 minutes for secure jacking

CONFIGURATION OPTIONS

▪ Pump Unit:

- Air-hydraulic pump
- Electro-hydraulic pump
- Electro-hydraulic pump with EJAL-interface

▪ Safety lock nut:

- Manually operated safety lock nut
- Electrically operated safety lock nut

▪ Ground plates:

- Movable ground plates
- Height-adjustable ground plates

▪ Castors:

- Hydraulically adjustable castors for convenient alignment and positioning of the tripod-jack
- Spring-loaded, heavy duty dual swivel castors for higher towing speed with locking device

▪ Transport device:

- Forklift connectors
- Adaptor for PowerCat (electrical towing unit)

▪ Corrosion protection:

- Hard-chrome plated piston
- Rain cover

▪ Additional options:

- Fast lowering system (only in combination with electrical-safety lock nut)
- Laser target system
- Operator panel
- Hydraulic height-adjustable all-terrain castors
- Customized paintwork
- Load-indication or overload warning system



ALSO AVAILABLE
FOR WIDEBODY

CONTACT US FOR
MORE INFORMATION



www.hydro.aero



B737 jacked on FortEvo tripod-jacks at Linetech

AIRCRAFT APPLICATION

SINGLE APPLICATION TRIPOD-JACK SETS

Application	Position	Tripod-Jack Type	Application	Position	Tripod-Jack Type
A320 Family incl. NEO	Wing	FEN351	B737 Family incl. MAX	Wing	FEN352
	Nose	FEN10		Tail	FEN121
	Tail	FEN06		Nose	FEN122
Application	Position	Tripod-Jack Type	Application	Position	Tripod-Jack Type
Bombardier Global 7000/ 8000	Wing	FENT302	Tupolev TU-204	Wing	FEN421
	Nose	FENT152		Tail	FEN15
Application	Position	Tripod-Jack Type	Application	Position	Tripod-Jack Type
A220-100/ -300 (Bombardier C-Series CS-100/ -300)	Wing	FEN301	Embraer E170/ 175/ 175-E2 E190/ 195/ 190-E2/ 195-E2****	Wing	FEN251
	Nose	FEN122		Tail	FEN102

UNIVERSAL NARROW-BODY TRIPOD-JACK SET

Application	Position	Tripod-Jack Type
A320 Family incl. NEO	Wing	FENT354
B737 Family incl. MAX	Nose	FENT101***
RRJ-95*	Tail	FEN15
MC-21**		
C919*		
Embraer E190/ 195**		
Embraer E190-E2 / 195-E2**		

- * Tail tripod-jack not required
- ** Nose tripod-jack not required
- *** Tail tripod-jack for Embraer
- **** OS-change can be performed without tyres and brakes



FortEvo tripod-jack at SWISS



WORLDWIDE FOOTPRINT

 SALES REPRESENTATIVE

 SERVICE CENTER

 MAIN OFFICE

HYDRO SYSTEMS KG

Headquarters

Ahfeldstrasse 10
77781 Biberach/Baden
Germany

Phone: +49 (0) 7835 787-0

Fax: +49 (0) 7835 787-8888

info@hydro.aero

www.hydro.aero



In safe hands.