



Tronair Value Proposition



During its 40 year history, Tronair has differentiated itself in the market by offering the following:

- Uncompromising value: tremendous quality at a reasonable price
- Best-of-breed engineering capabilities drive innovative solutions
- Exceptional customer service support
- Global sales team with strategic footprint
- One-stop-shop for virtually all GSE needs



Tronair's aim is to form partnerships with all of its customers



One-Stop-Shop

Tronair's product lines continue to expand, particularly those related to the military market

JACKS & STANDS	HYDRAULIC SYSTEMS & RAT TEST UNITS	SERVICING PRODUCTS	NITROGEN & OXYGEN SYSTEMS
TOWBARLESS TUGS & TOWBARS	ELECTRICAL SYSTEMS	CABIN PRESSURE TESTING	OTHER



Military Programs

F-35 Production Towbar

TRONAIR



- PN: **01-1314-0000**
- Maximum Aircraft Gross Weight: 125,000 lbs (56.69 metric tons)
- Dimensions:
 - Length: 196 13/16 in (499.9 cm) Overall
 - Width: 23 11/16 in (60.2 cm)
 - Height: 26 3/4 in (67.9 cm)
 - Weight: 245 lbs (111.1 kg)



5

F-35 Single Solution, Collapsible Jack

TRONAIR



- PN: **02A7887C9100**
- Rated Capacity: 40,000 lbs (18,144 kg)
- Minimum Closed Height: 40 in (101.6 cm)
- Mechanical Extension: 15 in (38.1 cm)
- Hydraulic Extension:
 - 1st Stage: 25 in (63.5 cm)
 - 2nd Stage: 26 in (66 cm)
- Maximum Height Obtainable: 106 in (269.2 cm)
- Weight: 885 lbs (401 kg)
- Collapsible for mobility pallet storage
- Stainless steel and military grad components for extreme, sea-state environments
- Finish: Gray (#26173 per FED-STD-595) according to F-35 finish specification 2ZZP00001
- Reservoir:
 - MIL-PRF-5606 hydraulic fluid
 - Ventilated cap
 - Sight gauge
- Air Driven Hydraulic Pump:
 - Operates with 90-100 psi air pressure
 - Noise level is 64 dB(A) at a distance of 120 in (3,048 mm) at an inlet pressure of 100 psi (6.9 bar)

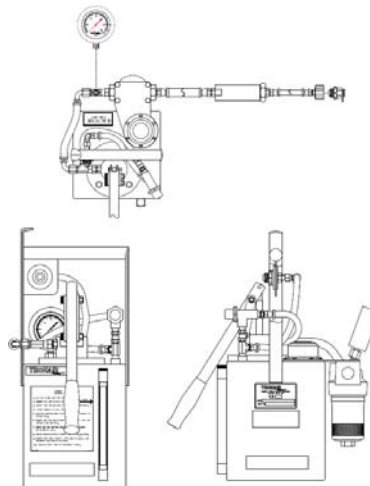


6

F-35 Fluid Service Unit

TRONAIR

- PN: **06-5022-6500-A9**
- Weight: 21 lbs (9.5 kg) Dry
- Height: 21 in (53.3 cm)
- Width: 9 11/16 in (24.6 cm)
- Depth: 16 11/16 in (42.4 cm)
- Fluid: MIL-PRF-5606/MIL-PRF-83282
- Filtration: 2 micron inline filter with replaceable element
- External Hose: 17 ft (5.2 m) 3/8 in (9.53 mm) I.D.
- Reservoir: Sealed, 2 g (7.6 liter) capacity, stainless steel tank, with carrying handle
- Pump: 4 cubic in (65.5 cu cms) per stroke (cycle)
- Gauge: 0-300 psi (0-20.7 bar) ± 1.0% entire span

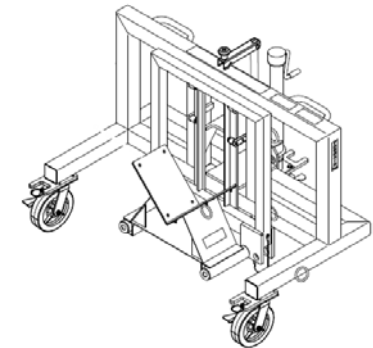


7

F-35 Wheel and Brake Dolly

TRONAIR

- PN: **14-6907-9720**
- Dimensions: Length: 33 1/2 in (85 cm)
- Width: 52 in (132 cm)
- Height: 36 in (91.44 cm)
- Weight: 297 lbs (135 kg)
- Finish: Gray (#26173 per FED-STD-595) according to F-35 finish specification 2ZZP00001
- Labeling: Constructed and marked in accordance with 25JL00490-002
- Heavy duty steel construction
- Manually operated hydraulic lift
- Three inch (3") lifting capacity
- Handles tire sizes from 24 inch to 54 inch diameter
- Swivel casters with swivel locks
- Brake handling adapter
- Weight capacity of 700 lbs (318 kg)
- Two 84 inch strap assemblies for securing a load to the dolly



8

F-16/A-10 Cabin Pressure Tester (CPT)

TRONAIR

- PN: 15-7609-6000
- Operates using shop-air: continuous duty of 200 CFM at 120 psi (8.3 bar) minimum (150 psi max)
- Quiet (<80dba 3' from unit)
- 2 inch (5 cm) 20 foot (6.1 m) detachable cockpit supply hose
- Replaceable air inlet filter element
- 20 foot (9 m) cockpit sensor feedback and canopy seal supply hoses
- 0 to 15 psi (0 to 0.97 bar) output range
- Gauges/controls located on front panel, pressure connections on back panel
- Pressure relief valve set at 13.5 psi (0 to 1.0 bar)
- Output and cabin pressure gauges 0 to 15 psi (0 to 1.03 bar)
- Flow meter 15 to 125 SCFM (reading in 20 SCFM increments)
- Canopy seal pressure gauge 0 to 60 psi (0 to 4.0 bar)
- Ambient temperature gauge
- Inlet pressure gauge 0 to 200 psi (0 to 13.8 bar)
- Inlet air shut-off valve
- Vertical Speed Indicator
- Automatic shut-off to aircraft
- One-man ruggedized case with wheels, retractable handle and four lifting handles
- CE compliant/marked



9

Predator A, B, and C Towbar

TRONAIR



- PN: 01-1308-0010
- **Maximum Aircraft Gross Weight:** 10,000 lbs (4.5 metric tons)
- **Dimensions:**
 - Length: 144 3/16 in (366 cm) From eyebolt centerline to aircraft attachment centerline
 - Width: 19 5/8 in (49.8 cm)
 - Height: 3.0 in (7.6 cm) From ground to aircraft attachment centerline
 - Weight: 59 lbs (26.8 kg)

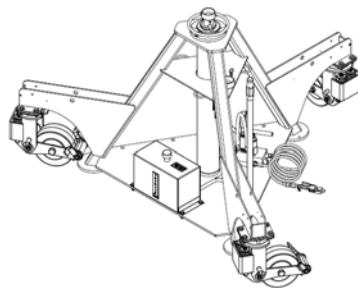


10

Predator C Aircraft Jack

TRONAIR

- PN: 02A7914C0100
- Rated Capacity: 20,000 lbs (9072 kg)
- Minimum Closed Height: 40.9 in (103.9 cm)
- Mechanical Extension: 8 in (20.32 cm)
- Hydraulic Extension: 25 in (63.5 cm)
- Maximum Height Obtainable: 73.9 in (187.7 cm)
- Weight: 500 lbs (227 kg)
- Finish: Durable Powder Coat Tronair Blue
- CE compliant
- Reservoir:
 - MIL-PRF-5606 hydraulic fluid
 - Ventilated cap
 - Sight gauge
 - Noise level is 64 dB(A) at a distance of 120 in (3,048 mm) at an inlet pressure of 100 psi (6.9 bar)
- Air Driven Hydraulic Pump:
 - Operates with 90-100 psi air pressure

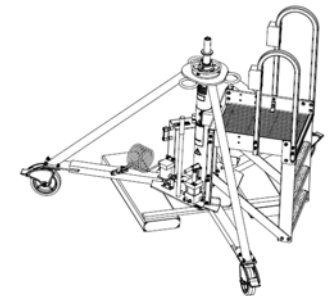


11

Predator C Tail Installation Jack

TRONAIR

- PN: 02A7919C0100
- Integrated with General Atomic's Translation Head Adapter to install the diagonal rear stabilizer wings
- Weight: 625 lbs
- Hydraulic Extension : 62.0"
- Extended: 106.6" (actual working height)
- Tripod Radius : 40.0"
- CE compliant
- Finish: Durable Powder Coat Tronair Blue
- Reservoir:
 - MIL-PRF-5606 hydraulic fluid
 - Leak proof reservoir vent
 - Sight gauge
- Air Driven Hydraulic Pump:
 - Operates with 90-100 psi air pressure



12

CH-47 Hydraulic Power Unit

TRONAIR

- PN: 5J219GDTBBCKLQS1N
- Fluid type: MIL-PRF-83282
- Adjustable pressure compensated, variable volume, piston pump 250-4,000 psi (17 - 276 bar) / **50Hz:** 16.7 gpm (63 lpm), **60Hz:** 20 gpm (76 lpm)
- 2-25 gpm (7.6 - 95 lpm) dual scale flow meter
- 30 horsepower, TEFC electric motor
- 30 gal (114 l) stainless steel reservoir with desiccant air filtration canister
- High efficiency, non-bypassing pressure filter with 2-micron absolute, Microglass III element
- Large capacity return filter with 5 micron absolute, Microglass III element.
- Easy access fluid sampling valve (meets ANSI T2.24.1-1991)
- Standard 25 ft (7.62 m) pressure and return hoses
- Standard 50 ft. (15.24 m) input power cord without input plug
- CE Certified



13

Additional Military Programs

TRONAIR

- **C-12** King Air Cabin Pressure Units (4920-01-562-1020), jacks, towbars, (1730-01-510-3905) HPU (4920-01-578-3125, 4910-01-344-3317, 1680-01-501-0080), ground power units (6130-01-578-3140) and engine slings.
- **AT-6** Texan II Jacks (1730-01-518-4691), Towbar (1730-01-518-4689), Rectifier (6130-01-578-3140), HPU (4320-01-357-7250)
- **A400M** Ram Air Turbine (RAT) Tester
- **HC-144** (CASA 235/295) Tail Stand (1730-01-329-0882), Hydraulic Servicing Unit (4920-01-312-5326), and Hydraulic Pressure Return Kit (5340-01-357-7238)
- **C27J** Towbar
- **KUH-1** HPU, ECW, Nitrogen Carts, Fluid Service Units, Jacks, and others
- **CH-47** Chinook Axel Jacks and 10 Ton Aircraft Jacks (1730-01-563-7046), Steering bar, Hydraulic Power Units
- **AH-64** Towbar, Fluid Servicing, Hydraulic Power
- **CH-148** ECW, HPU, Towbar, Jacks, Fuel Test Unit, Fluid Service Unit
- **H-53/H-60/S-70 Platforms** 10 Ton Jacks (1730-01-563-7046) and Air Manifolds (1730-01-552-0438), Towbars, and HPU
- **OH-58** Kiowa Ruggedized GPU and HPU
- **C-130** Hydraulic Power Units, Ground Power Units and Lav Carts
- **UH-72** Fluid Service Unit, Jacks, GPU
- **US Army FEDS** Flexible Engine Diagnostic System Rectifier

14

Common Military Products

Common Military GSE

TRONAIR

- Common GSE Across Many Platforms
 - Bead Breaker (4910-01-588-2683)
 - Hydraulic Contamination Monitor (Navy Lakehurst)
 - Hydraulic Servicing Reservoir (4940-01-504-5279, 4920-01-578-3125, 01-344-3317, 01-501-0080)
 - Wheel Chocks (1730-01-462-0026)
 - Fuel Sampling Tools (6630-01-522-6625)
 - Hand Held De-Icer (1730-01-539-9624)
 - Nitrogen Servicing Regulator (1560-01-480-0142)
 - Tire Pressure Gage (4910-01-501-7972)
 - Hydraulic Tire Bead Breaker (4910-01-518-1465)
 - Wheel and Brake Dolly (4910-01-201-7986)
 - HPU & GPU (multiple sizes)



Over 400 NSN-listed Items

16

Diesel Hydraulic Power Unit

TRONAIR

- PN: 673A5FCBCLMNY4
- Fluid: Phosphate Ester
- Cummins, QSB4.5P130, Tier 3, 130 HP, 1800 rpm diesel engine 0-34 gpm, 250-4000 psi, flow and pressure ratings
- Hydraulic System Meters: Digital (0.1% FS) flow meter, digital (0.25% FS) pressure gauge, digital (0.5% FS) temperature gauge
- Engine System Monitor: Back lit digital display and diagnosis (DDD) with hour meter, and LED indicator lights
- Pressure and Flow Control Valves
- Bypass Valve for loading and unloading the hydraulic pump
- Hand Pump Gauge
- Pressure Gauge Calibration Port
- Selector Valve to select between aircraft or HPU reservoir
- Pressure Filtration: 2 micron, non-bypass type (beta rating >200 @ 2 micron)
- Return Filtration: 5 micron, bypass type (beta rating > 300 @ 5 micron)
- 70 gallon stainless steel hydraulic reservoir with desiccant breather, drain valve, and air removal system
- Large forced air cooler (20+ HP heat removal) hydraulic heat exchanger, thermostat controlled cooling system
- Reservoir Service/Component Testing: Manual two stage hand pump (high volume / 5000 psi) with 2 micron, non-bypass type (beta rating >200 @ 2 micron) pressure filter
- Large 35 gallon fuel tank for 12+ hours of use
- Hydraulic fluid sample port for contamination testing
- Quiet Operation: Less than 85 dbA at three feet noise level



17

Gasoline Hydraulic Power Unit

TRONAIR

- PN: 50111ZZG
- Fluid Type: MIL-PRF-5606
- Gross Vehicle Weight: 1,150 lbs (521.6 kg)
- Dimensions:
 - Width 64 in (162.9 cm)
 - Height 46 ¼ in (117.5 cm)
 - Depth 76 7/16 in (194 cm)
- Engine Driven Hydraulic Pump
 - Kohler, 2 cylinder, air-cooled, gasoline engine - 18 hp (13 kW) @ 3,000 rpm
 - Maximum flow: 6 gpm (22.7 lpm)
 - Maximum operating pressure: 1,500psi (103 bar)
- Pressure Filtration: 2 micron, non-bypass type (beta rating >200 @ 2 micron)
- Return Filtration: 5 micron, bypass type (beta rating > 300 @ 5 micron)
- 7 gallon stainless steel hydraulic reservoir with desiccant breather, drain valve, and air removal system
- 6 gallon (22.7 lt) corrosion resistant fuel tank
- 30 ft (9.1 m) #8 Pressure and #12 Return Hoses
- System pressure relief valve setting: 1,750 psi (121 bar)
- Return system pressure relief valve setting:75 psi (5.2 bar)
- Quiet Operation: Less than 85 dbA @ 3 ft



18

Gasoline 28.5 VDC Ground Power Unit

TRONAIR

- PN: 11-6644C1010-A1
- Output: 150 amps continuous @ 28.5 VDC 1000 amps peak
- Dimensions:
 - Width 47.2 in (120 cm)
 - Length 60.5 in (154 cm)
 - Height 46 in (116 cm)
 - Weight 1,200 lbs (544 kg)
- 20 foot MIL-C-5756B 4/0 Aircraft power cable with AN2551 E20 connector
- Maximum Towing Speed: 10 mph (16 km/hr)
- Charging Temperature Range: 0° F to 125° F (-18° C to 52° C)
- Aircraft Starting & Electrical Service Temperature Range: -20° F to 125° F (-29° C to 52° C)
- Maximum Operating Temperature: 167° F (75° C)
- Kohler, 2 cylinder, air-cooled, gasoline engine - 18 hp (13 kW) @ 3,000 rpm
- 13 gallon (49.2 lt) corrosion resistant fuel tank
- Quiet Operation: Less than 85 dbA @ 3 ft



19

PAO Servicing (C-87252)

TRONAIR

- PN: 06-5022-6500-A6
- Stainless steel construction
- 2 gal (7.6 l) reservoir
- 2 micron filtration (Beta rating > 1000 @ 4 µm per ISO 4572)
- 200 psi (13.8 bar) maximum pressure
- 2 in (5 cm) filler port
- High displacement hand pump (13 strokes per quart)
- 15 ft (4.6 m) #6 hose with 37° JIC female swivel connector
- Hose storage bracket



- PN: 06-5038-9B00, 06-5067-9B00
- 68 gal (257 l) capacity
- 100 psi (6.9 bar) maximum pressure
- 14 gpm maximum flow
- 2 micron filtration (Beta rating > 2000 per ISO 4572)
- High displacement pneumatic pump driven by self-contained nitrogen bottle
- 15 ft (4.6 m) #6 hose with 37° JIC female swivel connector and shut-off valve
- Front wheels lock with towbar in upright position
- Finish: Durable Powder Coat Olive Drab



20