

# SPARE TIRE HOISTS

We are the leading supplier of Spare Tire Hoists for RV Towable and Motor Homes

## SUPERIOR PERFORMANCE:

- Self centering lift plate design
- No adjustment required
- Accomodates 2.25 to 5.50 inch wheel pilot hole
- 90° clutch activation
- Patented integral "downstop"
- 1-way up and down operation
- Optional electric hoist



Contact your Sales Manager for more information:

**(937) 275-8700**



## Our customers include:

- Airstream® • Coachman • Dutchman® • Forest River, Inc • Hyundai® • Jayco® • Keystone RV Company • Kia® • SsangYong Motors • Thor Industries •

We also manufacture and supply spare tire hoists for automotive with a top quality rating from Hyundai, Kia, and SsangYong Motors.

- Over 750,000 spare tire hoists shipped to Hyundai and Kia in the USA
- Over 350,000 spare tire hoists shipped to South Korea, since 2005

## HONESTY. RELIABILITY. RESULTS.

AFC Stamping & Production, Inc. is a metals manufacturer offering: tube bending, welding, small to large stampings, sub-assemblies and complete modular weld cell capabilities. Our full service engineering and production support also includes R&D, finishing, heat treating and prototyping.



 **AFC Stamping & Production**  
**INC.**  
A SUBSIDIARY OF FC INDUSTRIES INC.

4900 Webster Street  
Dayton, Ohio 45414  
(937) 275-8700  
[www.afcstamping.com](http://www.afcstamping.com)

# SPARE TIRE HOISTS

## PATENT & CERTIFICATE OF REGISTRATION

- Patent # 7487953
- Eagle Registrations, Inc.
  - ISO/TS 16949
  - ISO 9001

## ONE-STOP DESIGN & MANUFACTURING

- Design: Product, Tooling (Design & Build)
- Development / Prototype
- Manufacturing / Testing

## DESIGN FEATURES

- Input Forces (Maximum)
  - 40 mm (17 - 29 ft-lb.) Maximum Clutch Design
- Cable Holding Forces (Minimum)
  - 1779 N (400 lb.) for tire/wheels weighing < 70 lb. (31.25 kg.)
  - 2447 N (550 lb.) for tire/wheels weighing > 70 lb. (31.25 kg.)
- Size/Compactness
  - Environment Related
  - Available area under vehicle
- Families: Customer Specific
  - 5/32 in. cable (7 x 19 Construction)
    - Breaking strength
      - Galvanized - 2800 lb. (1270 kg.)
      - Stainless Steel - 2400 lb. (1088 kg.)
  - 3/16 in. cable (7 x 19 Construction)
    - Breaking strength
      - Galvanized - 4200 lb. (1905 kg.)
      - Stainless Steel - 3700 lb. (1680 kg.)

## ENVIRONMENTAL

- Corrosion Resistance
- E-coat all exterior components (Lead Free) to meet customer requirements
- Hex free plating of other metal components to meet substance of concern (SOC) requirements

## QUALITY TESTING

- Operational Characteristics
  - Input torque
  - Cable holding force
  - Winding effort
- Dimensional compliance
- Life-cycle testing
- Unit tensile strength testing
- Lifting plate assemble tension testing
- Unit salt spray (environmental) testing
- Hot & cold box testing

## PERFORMANCE

- Gear Design
  - High Strength
  - Fast winding in both directions
- Clutch Design
  - 90° activation
- Patented integral "Downstop"
  - Indicates when all cable is "paid out"
  - 1-way up and down operation
- Durability
  - Robust design
  - Mounting stability & strength
  - Tested to 100 or 200 cycles per customer spec.
    - No degradation in performance
    - 1 unit per shift
    - Typically exceeds "jack" requirements by 3-6X.
- Shock Protection / Tire Pressure Loss
  - Polyurethane bushing / cable protector at lift plate or use of spring at lift plate
- Unit Testing
  - 100% unit testing prior to packing
  - Computerized machine controlled
- Lift Plate Design
  - Customer program specific
  - Accommodates 2.250 in. - 5.500 in wheel pilot hole
  - User friendly self-centering design - no adjustments required



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