



## FIRE APPARATUS SUSPENSIONS INDEPENDENT FRONT SUSPENSIONS IN 20K & 24K LB. CAPACITIES

The IFS 20K and 24K family of independent front suspensions for heavy-duty fire and rescue vehicles combine high axle capacities with responsive handling. Providing superior maneuverability, increasing safety for fire fighters and reducing response time in the most demanding conditions.

### Features

- ▶ Koni 99 Shock Absorbers
- ▶ Rugged Components
- ▶ Removable Cross Members
- ▶ Industry Standard Components
- ▶ ARK ( Air Retention Kit) for Use with Outriggers
- ▶ 9" Ride Height
- ▶ Integrated Steering Gear Box
- ▶ TAS85 TRW Twin Gear Box with Auto Bleed
- ▶ Eccentric Alignment Adjustment
- ▶ 208.5" Wheelbase

### Benefits

- ▶ Improved Ride, Excellent Roll Control and Long Stock Life
- ▶ Units can be Subjected to the Riggers of Firetruck Service Both on and off Road
- ▶ Easy Transmission Filter Changes
- ▶ Parts are Available on Shorter Notice to Address Truck Down Situations
- ▶ Eliminates Shock Damage Caused by Axle Resonance
- ▶ Increased Overhead Clearance
- ▶ Lower Maintenance Costs Result From Components Shared Across the IFS Family
- ▶ Simplified Steering Set Up
- ▶ No Additional Parts are Needed for Alignment. Caster, Camber and Toe are All Modifiable

### Specifications

- ▶ Fits 35" Wide Frame Width, Narrower Frames with Spacers
- ▶ ADB 22X Bendix Disc Brakes Up to 20K
- ▶ SN7 Bendix Disc Brakes from 20K to 24K
- ▶ Dual Height Control Valves

#### Warranty Coverage:

3 years, 150,000 miles - parts and labor allowance.

#### Warranty Exclusions:

The Company will offer one year unlimited mileage warranty on normal wear items such as bushings, shock absorbers, brake shoes, etc. Any extension of warranty on these wear items will be the responsibility of the product manufacturer.

**Note:** Ball joints on independent front suspensions carry a parts and labor warranty of 3 years or 50,000 miles, whichever comes first. Coverage 3-5 years but less than 50,000 miles will be parts only.

\*To meet the wide range of designs, we currently offer 12 different variations of upper cross members for our Fire Truck IFS.





Reyco Granning has more than two decades of industry leading experience manufacturing IFS suspensions. The IFS suspensions designed exclusively for fire apparatus deliver superior performance where you need it most.

### **Maneuverability**

- ▶ An Industry-leading 55 ° wheel cut/angle with 385/65R 22.5 tires provides unsurpassed maneuverability and a tighter turn capability. With increased turning capabilities, crews can get into position more quickly.
- ▶ Lower unsprung mass and improved geometry allow for reduced time to scene and comfort.

### **Serviceability**

- ▶ Adaptable suspension design elements like alternate cross members, allow easy configuration to accommodate multiple engine, turbo, and transmission combinations.
- ▶ Removable lower cross members allow easy access to transmission servicing, whereas competitive suspensions require dropping the entire suspension.
- ▶ Standard parts like kingpins, bearings, knuckles, and hubs mean there's no long waits for specialty parts to get the truck back on the road.

### **Additional Benefits**

- ▶ Reduced weight and maintenance over competitive product
- ▶ Automatic height control
- ▶ Ride height and axle rate stiffness adapt to changing road conditions on loads

### **Safety**

- ▶ Independent front wheel movement. Unlike an I-beam suspension system where both wheels are connected by a rigid axle, when one IFS wheel bounces the corresponding wheel is unaffected allowing it to continue straight and smooth. The benefit is improved ride, handling and tire wear.
- ▶ Dynamic camber change during cornering, which allows the tires to “bite” into the pavement at a more aggressive angle helping the vehicle through a turn. On an I-beam suspension, the camber does not adjust and is maintained through the turn, thus cornering capabilities can be compromised in tight turns leading to instability.
- ▶ Lower unsprung mass so chassis harshness and vibration are reduced when compared to I-beam axle excitation, providing better protection for equipment and a smoother ride for passengers.
- ▶ Standard with 17” disc brakes, which reduces stopping distances and brake fade.

