

# Dyna-Star Hydraulically Driven Grease Pump

## For dispensing grease

The Dyna-Star 5:1 is a hydraulically-powered, single piston lubricant pump, requiring no electrical power. It has a 5:1 ratio between the hydraulic and grease sections.

The pump is double-acting and will provide continuous delivery of non-pourable greases. Compact in size, the Dyna-Star 5:1 efficiently delivers these lubricants, even in coldweather and in remote dispense points.

### Features

- Works off 95-5 emulsion or hydraulic oil.
- **On longwalls**, easily mounts on the stage loader for efficient greasing of the tailpiece, shearer and stage loader
- **In conventional mining sections**, mounts on the feeder to easily access the feeder, tailpiece, shuttle cars and drives.
- Maximim output pressure of 7,500 psi ensures full greasing of the bearings.
- Able to mount to truck or scoop using PTO power supply.
- Highly energy efficient.
- Quiet operation.
- Very low maintenance.



## Technical Data

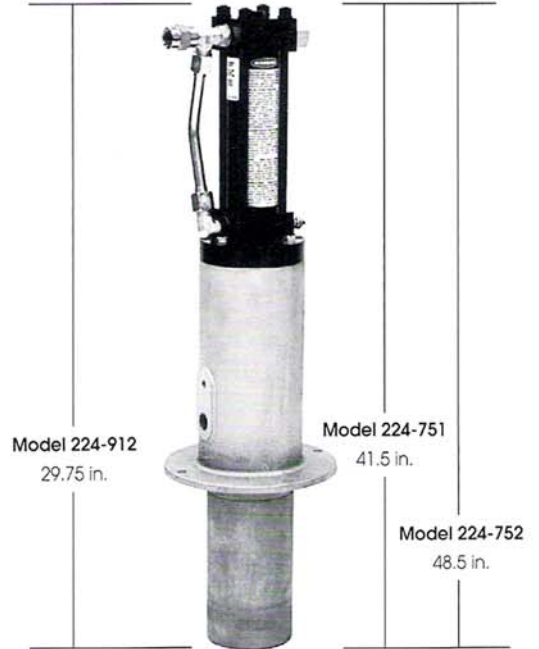
### Dyna-Star 5: 1

Maximum Output Pressure .....	7500 psi (525 bar)
Maximum Hydraulic Fluid Input Pressure .....	1500 psi (105 bar)
Maximum Hydraulic Fluid Input Volume .....	3 gpm (11.7 liter/min.)
Fluid Consumption Rate .....	6.5 oz. (0.195 liter) per cycle or 1 gal. per 19.6 cycles
Maximum Fluid Temperature .....	130°F (55°C)
Effective Piston Area .....	1.48 sq. in. (9.55 cm <sup>2</sup> )
Piston Rod Diameter .....	1 3/8" (34.9 mm)
Stroke .....	4 in. (101.6 mm)
Thrust at 100 psi (70 bar) .....	1480 lb. (674 kg)
Maximum Suction Lift .....	13 ft. (m)
Fluid Inlet .....	1/2" npt(f)
Fluid Outlet .....	1/2" npt(f)
Hydraulic Supply .....	3/8" npt(f)
Hydraulic Return .....	3/4" npt(f)

#### Displacement Pump Wetted Parts

Dyna-Star 5:1 — Steel, Copper, Polyurethane, Buna-N, Polyester Elastomer

**Weight** ..... Dyna-Star 5:1 — Model 224-752: 42 lb. (18.9 kg) / Model 224-751: 37.5 lb. (16.9 kg)  
Model 224-912: 32.5 lb. (17.7 kg)



## Typical Dyna-Star Hydraulic Pump System Installations

### Additional System Components

#### 236-864 Hydraulic Fluid Control

Use with Dyna-Star pump to control hydraulic pressure, limit hydraulic flow in a single assembly. Includes hose and fittings. Refer to Form No. 305-651 for details.

#### 204-574 Drum Cover for 120 lb. (54.4kg)

#### 200-326 Drum Cover for 400 lb. (181.44kg)

Use with open head grease drums.

#### 223-700 Follower Plate for 120 lb. (54.4kg)

#### 223-700 Follower Plate for 400 lb. (181.44kg)

Use with Dyna-Star 5:1 hydraulic grease pump.

