

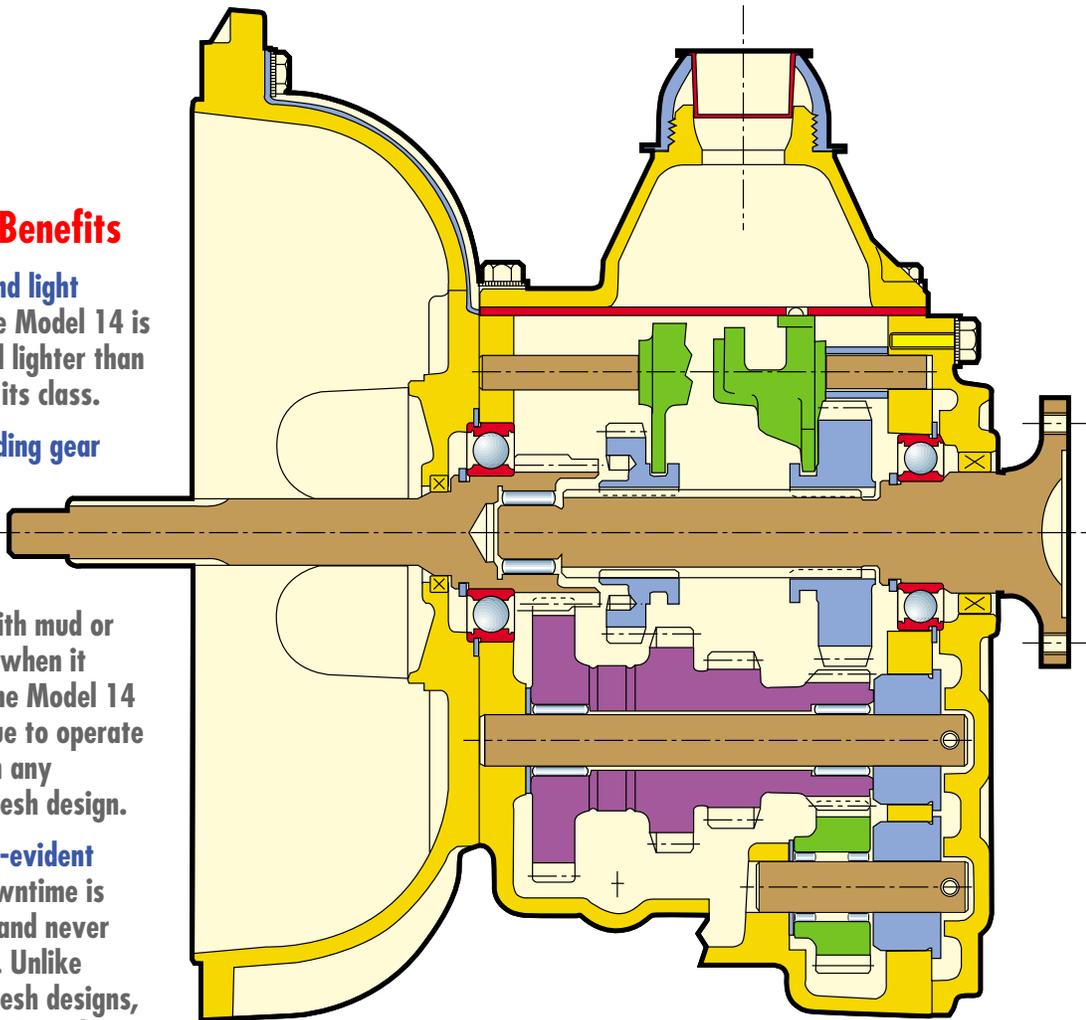
# MODEL 14 MANUAL TRANSMISSION

# AGE

The Model 14 is a non-synchronized spur-gear transmission optimized for industrial applications where durability, economy, and ease of maintenance are most important. Like the proven Model 4 it replaces, it was designed to meet the needs of manufacturers of stationary equipment such as drills, augers, pumps, winches, and mixers in the 15 to 35 horsepower range.

## Features/Benefits

- **Compact and light weight.** The Model 14 is shorter and lighter than any unit in its class.
- **Rugged sliding gear construction.** We don't recommend filling any gearbox with mud or water, but when it happens, the Model 14 will continue to operate longer than any constant-mesh design.
- **Simple self-evident design.** Downtime is expensive and never convenient. Unlike constant-mesh designs, the Model 14 can be serviced quickly in the field by untrained personnel with simple hand tools.



## What's New

- **Enhanced Industrial housing.** Deeper sump for cooler running, even in indirect gears. Improved gasketing for superior environmental protection. Thicker shock-resistant castings.
- **Enlarged snapping shoulder for the mainshaft bearing snapping.** More resistant to the stresses and shock loads of an industrial duty-cycle.

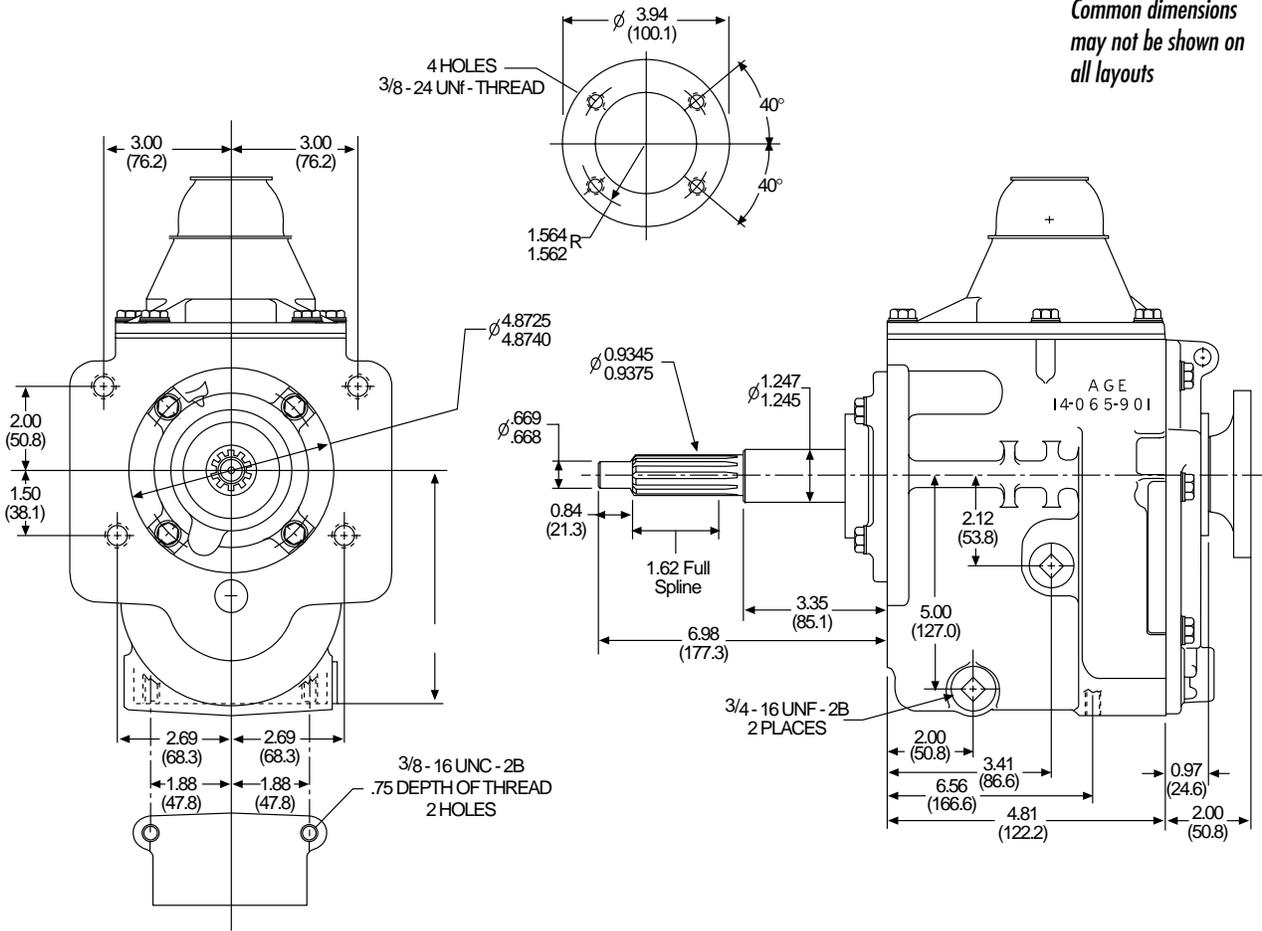
## What's Not

- **Model 4 gear train and shift elements are unchanged.** All customers will enjoy proven performance. Model 4 customers will enjoy common service inventories and procedures.
- **Most of the Model 4 envelope dimensions also continue.** Only the mounting foot depth and fill/drain locations are new. Model 4 customers can expect an easy running changeover on the line and in the field.

**DETAILS**

**10 SPLINE CLUTCH-DRIVEN CONFIGURATION / OPTIONAL SPICER 1260/1310 OUTPUT**

*Common dimensions may not be shown on all layouts*

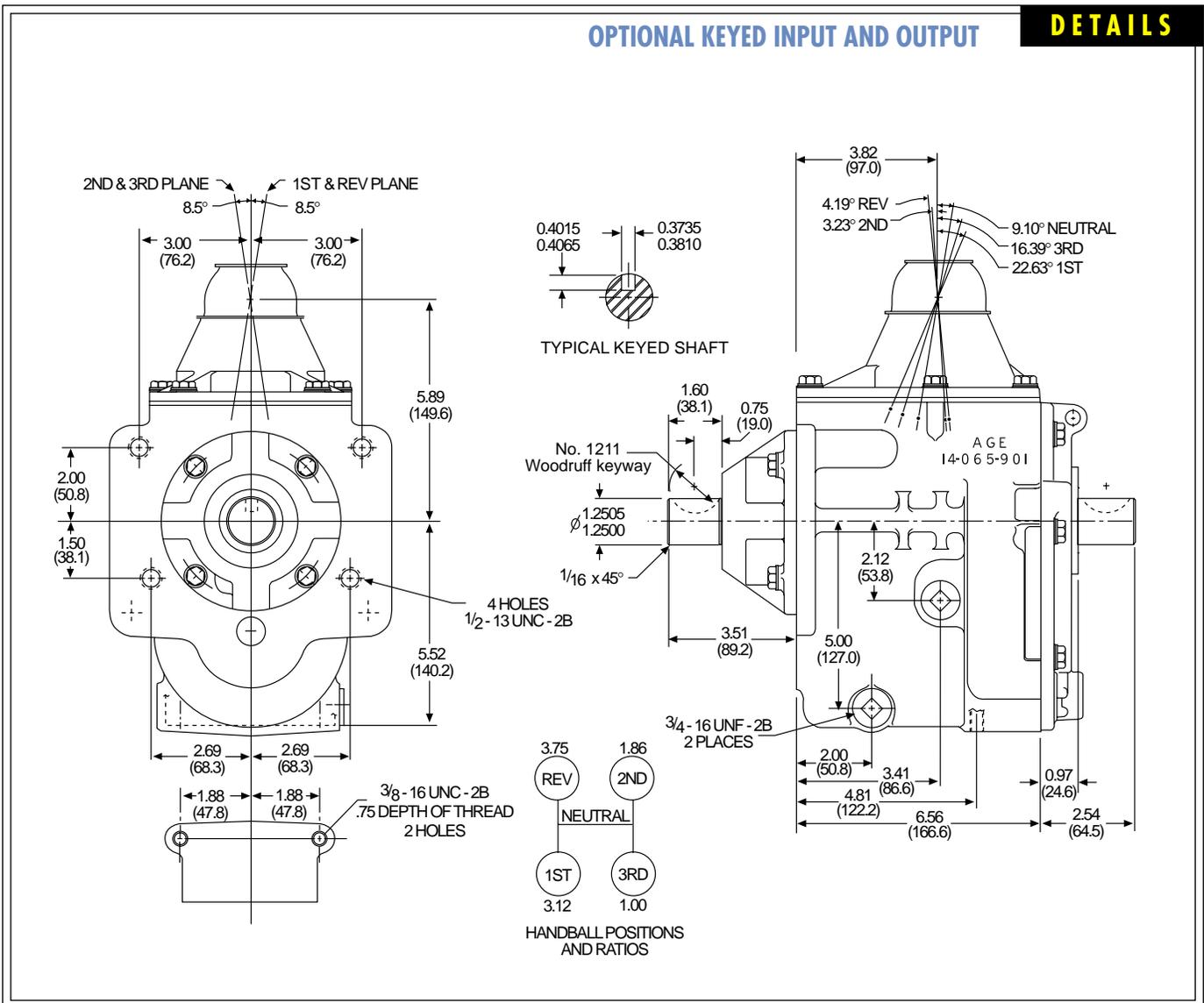


*Today's Technology ... Yesterday's Value*

## New Options

- SAE clutch housing.**  
Supports several customer selectable clutch release strategies. Shipped as part of the transmission assembly, it reduces landed costs and streamlines your purchasing effort.
- 14 spline clutch geometry.**  
Mates with inexpensive and globally available automotive clutch hardware.
- Concentric slave cylinder support.**  
Use machine-mounted hydraulics to eliminate hazardous manual clutch operation.

*The Model 14 is just one member of the growing family of multipurpose industrial gearboxes from Auto Gear.*



**Our Model 14 meets your stationary power transmission demands:**

**We kept it simple.**

Trained mechanics with special tools aren't always available so we reduced the number and complexity of parts to a minimum.

**We made it stronger.**

Generous shaft separation, large ball bearings, and a forged mainshaft with optional integral driveshaft flange delivers uncommon durability.

**We made it shorter.**

Dead shift rail design eliminates case end overhang to minimize installed length.

**We made it lighter.**

Aluminum housings and simple sliding gear design saves weight.

**We made it tighter.**

We stiffened the castings, reduced the number of gasketed joints, and eliminated most through fasteners.

**We made it easier to ship.**

Our shift lever is user installed and ships separately.

**We made installation less expensive.**

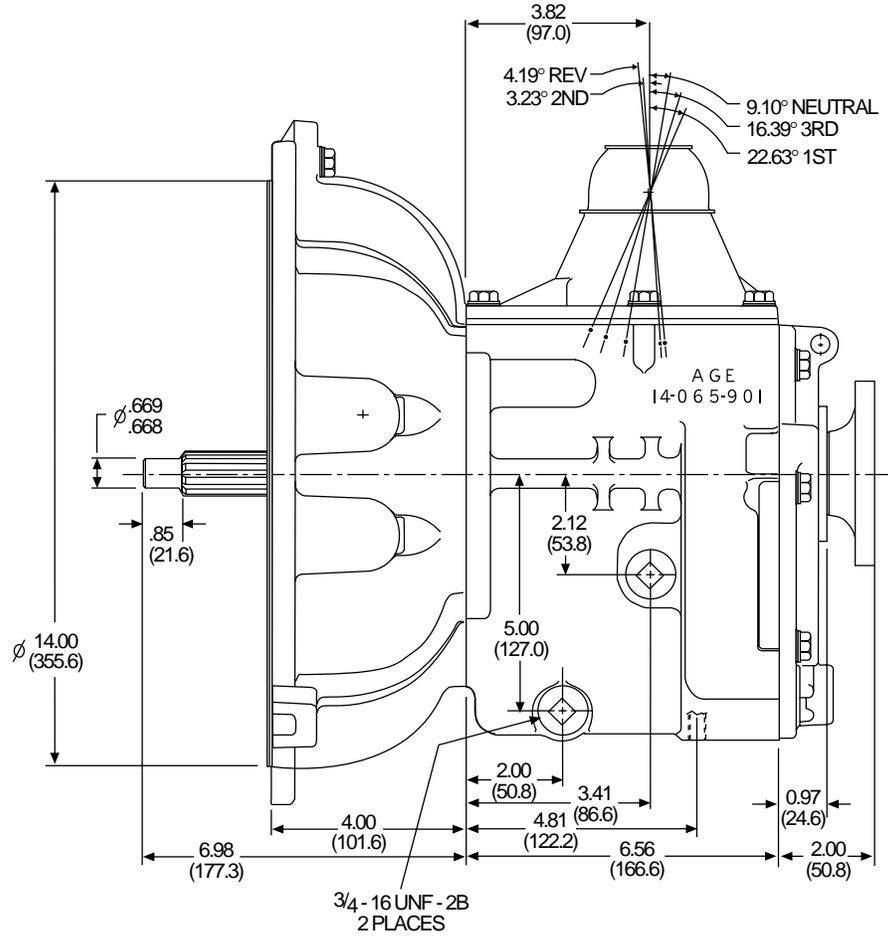
An optional interface based on low-cost automotive clutch hardware is available.

**We streamlined chain or belt drive applications.**

Our optional keyed shafts are rigidly supported without outboard pillow blocks.

**DETAILS**

**14 SPLINE CLUTCH-DRIVEN CONFIGURATION /  
OPTIONAL SAE5 CLUTCH HOUSING**



**GENERAL SPECIFICATIONS**

- Ratios (1/2/3/R) ..... 3.12/1.86/1.00/3.75
- Input Rating ..... 25hp diesel/35hp gas
- Shaft Centers ..... 2.94 inches (74.6mm)
- Oil Capacity ..... 3.0 US pints (1.5 liters)
- Dry Weight (without bell) ..... 34 lbs. (15.5kg)
- Case/Cover ..... 319T51 sand cast aluminum
- Gears ..... SAE 8620 steel

**OPTIONS**

- Clutch Housing Kits ..... SAE 4/5/6
- Shift Configurations ..... tower or remote
- Reverse indicator switch ..... as required

**AUTO GEAR EQUIPMENT**

530 STATE FAIR BOULEVARD  
SYRACUSE, NEW YORK 13204

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(315) 471-8141  
(800) 634-3001



(315) 471-8146  
(800) 537-4213