

PATENT PENDING

# RENEGADE™

TORQUE SERIES PUMP

## DEFYING CONVENTIONS



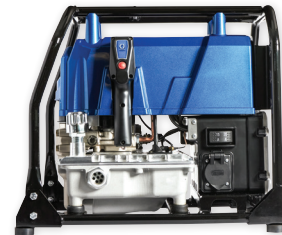
### FASTER

- Larger, twin-piston pump design delivers more oil per stroke—in fact, each stroke delivers 15X more oil than typical pumps
- Renegade uses a variable speed brushless DC motor—it automatically changes speed to maximize oil flow at any pressure



### STRONGER

- Oversized piston pumps run slower and cooler resulting in less wear and longer life
- High capacity oil cooler with powered fan prevents heat build up extending pump, motor, and valve life
- Case-cooled brushless DC motor runs cooler even when using longer extension cords



### SMARTER

- Wireless pendant operation—no more cords to manage as you work the tools
- Plug your extension cord directly into the pump—there is no separate power cord to manage
- Digital display uses LED light technology making it easy to read—even in low light conditions



# SUPERIOR TECHNOLOGY FOR BOLT TORQUING APPLICATIONS

The Renegade Torque Series Pump was born out of necessity. For decades, other companies have served the bolting market with traditional hydraulic pumps that were originally designed for non-bolting applications. At Graco, we set out to create a better solution. The Renegade Pump looks different, runs different, even sounds different because it is different than any other bolting pack on the market today.

Graco Inc. was established in 1926 and today is a world leader in fluid handling solutions. Investing heavily in Research and Development, often at several times the rate of its peers, Graco develops cutting edge technologies that serve today's markets while preparing for the needs of tomorrow.

The Renegade Torque Series Pump is designed, machined, manufactured, and assembled in our Rogers, Minnesota facility.



**RENEGADE DELIVERS THE HIGHEST PERFORMANCE IN ITS CLASS!**

## FASTER

### PUMP SIZE MATTERS

- 15X more oil displacement per pump stroke than typical packs
- Double acting pump design delivers oil flow on both the up and down stroke, increasing efficiency and speed

### WHAT'S INSIDE MATTERS

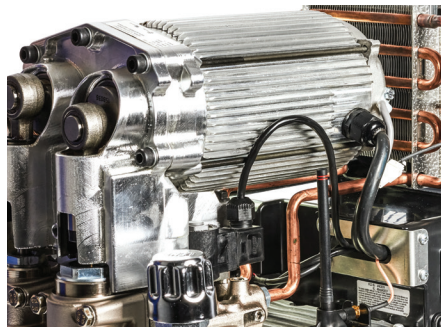
- Unlike traditional metal-on-metal pump designs, Renegade uses energized U-cup packing seals to eliminate oil blow-by



Renegade Piston Seals



Renegade Pump Body and Pistons



### MAXIMUM CONTROL DELIVERS MAXIMUM FLOW

#### SmartControl™ Microprocessor

- Controls both motor speed and the oil flow from the pumps
- Automatically switches between single pump and dual pump flow

#### Variable Speed Brushless Motor

- Automatically changes speed to maximize oil flow

#### ProGuard™ Protection System

- Prevents damage associated with connecting to incorrect power

# STRONGER

## RUNS COOL UNDER PRESSURE

### High-Capacity Oil Cooler

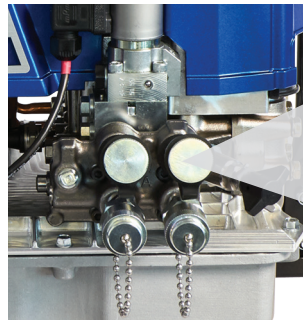
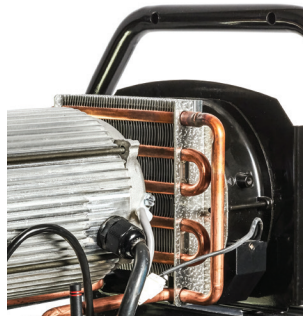
- Efficiently transfer heat away from the critical system components to ensure long life

### High Flow Cooling Fan

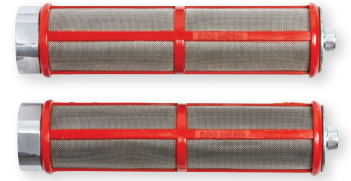
- Delivers constant air flow across all critical system components

## REAL WORLD PROTECTION

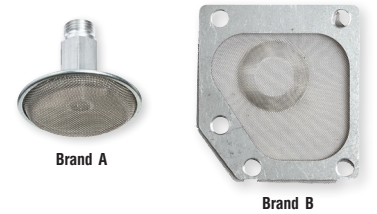
- We know that real jobs eventually result in dirty oil—that's why we use oversized pump filters, the largest filtration system in the industry
- Incoming oil filters are also at the connection point to help decrease the chance of contaminating the oil each time a hose or tool is connected



### Renegade Dual Pump Filters



### Other Pump Filters



All comparative filter images scaled at 40% actual size.



# SMARTER

## CUTTING CORD PROBLEMS

### Cordless Pendant Operation

- No cord to manage, control, repair or wrap up at the end of the day
- Operating up to 100 ft away

### Direct Connect Power Port

- Grab your extension cord and plug it right into the pack (up to 100 ft)—easily get a replacement anywhere
- No hard-wired cord to fail or repair

## USER-FRIENDLY PENDANT DESIGN

- **EZ-Press™ Thumb Control**—lightest press force is less fatiguing than any other pendant
- **EZ-Pull™ Trigger**—easily switch to convenient trigger pull operation

## BRUSHLESS MOTOR

No brushes to wear or replace—ever

## HIGH VISIBILITY LED DISPLAY SCREEN

Readable in all light conditions, long distances and at wide angles

### Display Capabilities

- Pressure Read Out
- Re-settable Hour Meter
- Lifetime Hour Meter
- Auto Calibration
- Auto Prime





# BUILT IN BACK UP PLANS



### On-Board Manual Advance Switch

- Provides the ability to operate the pack even without a pendant
- Lose the pendant, drive over the pendant, no matter what happens you still get the job done



### 15 / 20 Amp Power Selector

- Keep the pack in 20A mode for fastest operation
- If you find yourself on a limited power source, switch to the 15A mode and complete the job without throwing a breaker



## TECHNICAL SPECIFICATIONS

| HYDRAULIC POWER PACK            |                        |
|---------------------------------|------------------------|
| Maximum psi (bar, MPa)          | 10,000 (700, 68.9)     |
| Maximum gpm (lpm)               | 1.7 (6.4)              |
| Motor (brushless DC)            | 2 HP                   |
| 120V, A, Hz                     | 15A/20A, 50/60         |
| Recommended Hydraulic Oil       | ISO 10 to ISO 68       |
| Environmental Temperature Range | -40°–120°F (-40°–49°C) |
| Oil Capacity                    | 1 gal (3.8 L)          |
| DIMENSIONS                      |                        |
| Weight (Dry)                    | 78 lb (35.5 kg)        |
| Height                          | 17 in. (43 cm)         |
| Length                          | 17.75 in. (45 cm)      |
| Width                           | 14 in. (36 cm)         |

## ORDERING INFO

| MODEL                                | PART NUMBER |
|--------------------------------------|-------------|
| Renegade TSP, Corded Pendant, 120V   | 17U632      |
| Renegade TSP, Wireless Pendant, 120V | 17U633      |
| Spare Corded Pendant, 30 ft (10 m)   | 17U758      |
| Spare Wireless Pendant               | 17U762      |
| Four Tool Distribution Manifold      | 17U670      |



**AMERICAN BUILT QUALITY** — Graco field-proven Renegade Torque Series Hydraulic Pumps are designed, manufactured, assembled and 100% factory-tested in the USA.



Every Graco purchase comes with A+ Customer Service.

Questions?  
Call (844) 241-9501

For more information visit [graco.com/renegade](http://graco.com/renegade)