

**Impressive performers, built to last
- the Parker F11/F12 Series**

The F11/F12 Hydraulic Motors

The **F11/F12** series are specially designed for demanding applications, being able to withstand extreme conditions. They are perfectly suited for a wide range of mobile applications and can be delivered in 14 sizes in ISO, SAE and cartridge versions. Combined with other Parker products, you can achieve a well balanced hydraulic system where every component performs at its very best. The small envelope size makes for a simple and inexpensive installation, requiring a minimum of piping.

Frame Size	Displacement (cm ³ /rev)	Motor operating speed rpm, max intermittent	Motor operating speed rpm, max continuous	Operating pressure bar, max intermittent	Operating pressure bar, max continuous
F11-5	4.9	14000	12800	420	350
F11-10	9.8	11200	10200	420	350
F11-12	12.5	10300	9400	420	350
F11-14	14.3	9900	9000	420	350
F11-19	19.0	8900	8100	420	350
F12-30	30.0	7300	6700	480	420
F12-40	40.0	6700	6100	480	420
F12-60	59.8	5800	5300	480	420
F12-80	80.4	5300	4800	480	420
F12-90	93.0	5000	4600	480	420
F12-110	110.1	4800	4400	480	420
F12-125	125.0	4600	4200	480	420
F11-150	150.0	3500	3200	420	350
F11-250	242.0	3000	2700	420	350

Special versions and accessories:

F11 Saw Motors

A dedicated saw motor model is available in frame sizes 10, 14 and 19. The motor allows mounting without any additional bearings.

F11 Fan Motors

A dedicated fan motor model is available in frame sizes 10-19. These have built-in check valves.

F12 Integrated flushing valve

Available with integrated flushing valves to aid cooling under extreme conditions.

Over-centre brake valves

The brake valve can be supplied with various optional functions, such as a mechanical brake release valve and a flushing valve.

Type SR pressure relief/make-up valve

The SR valve protects the motor from high pressure spikes and cavitation, and is available for the F12-30-F12-125.

Type SV pressure relief valve

The SV valve protects the motor and main hydraulic lines from high pressure spikes.

F12 main port suction fittings

Parker suction fittings minimize the risk for cavitation. Kits including split-flange models are available.

F12 speed sensor

A direction sensitive speed sensor kit is available for the F11 and F12 series.

Pump versions

The F11/F12 Series is also available in pump versions.



**When the going gets tough...
...there is only one choice**

Fixed Displacement Heavy Duty Hydraulic Motors, Series F11/F12



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The complete range for heavy duty jobs

Boosted performance and four new sizes for an even wider selection!

Over the years, Parker's F11 and F12 motors have become famous due to their unbeatable performance under severe conditions. Wherever there is a need for a hydraulic motor with compact power and extreme endurance, the F11/F12 makes sure the margins are on your side. Now we add **four new frame sizes** to the F11/F12 family – the new F11-12, the F11-14, the F12-90 and the F12-125. This range expansion enables you to always choose the very best. Whatever your application may need, there is an F11/F12 that will be just right.

Wider speed and pressure range

There are many applications which require fast-revolving motors. Reliable operation at very high speeds (as well as very low) have long been a Parker trademark feature, with capacity for continuous speeds up to 12,800 rpm. Continuous improvement in design and materials has allowed us to raise maximum speeds and operating pressures significantly across the entire range of F11/F12 motors – all the way up to an unparalleled 14,000 rpm in some cases!

Unbeatable efficiency

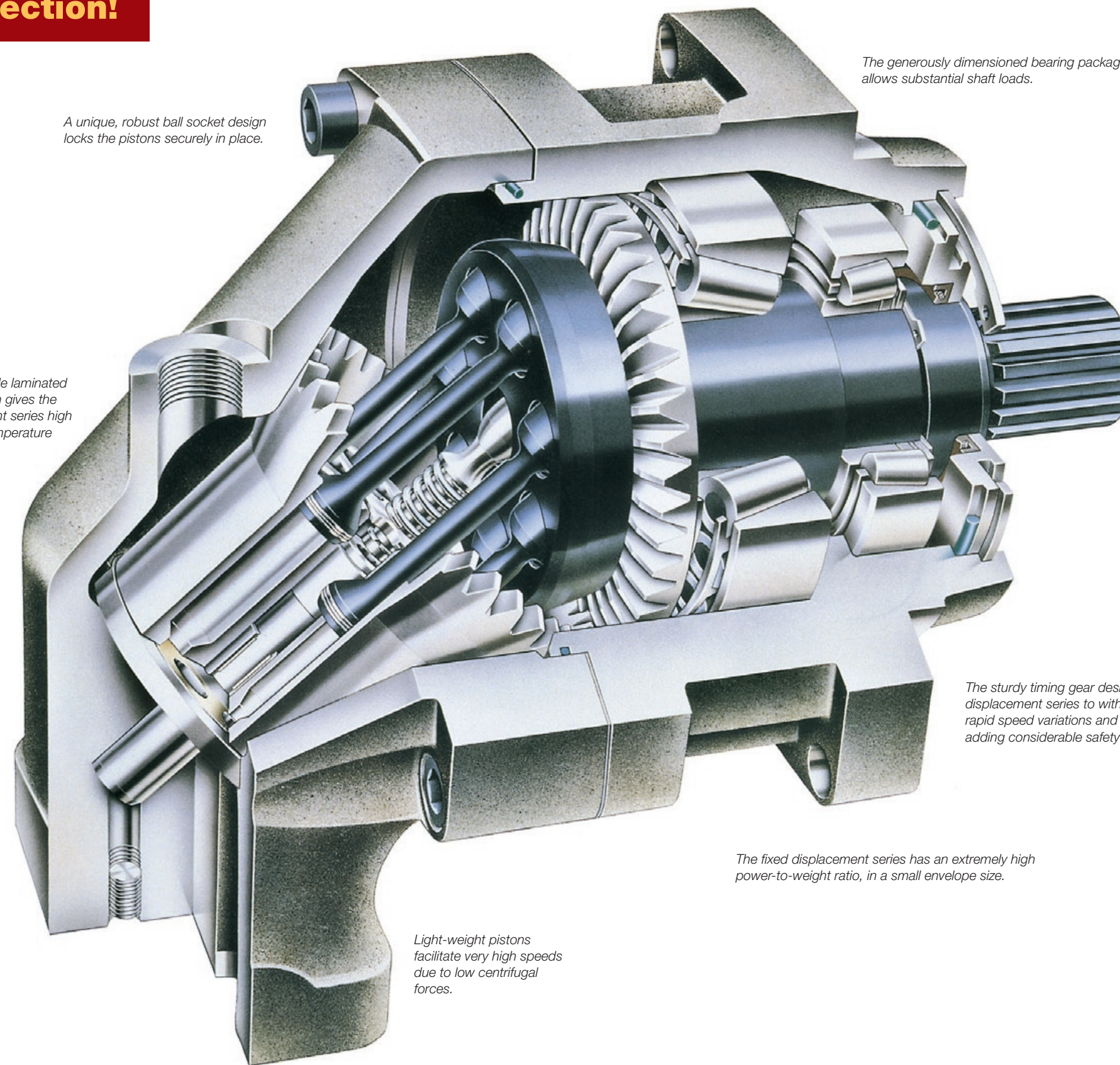
The Parker F11/F12 series delivers high efficiency throughout the full operating range. This translates into more power and higher speed capacity, with better performance and improved fuel economy as a final result.

External load capacity

To further enhance the F11/F12's suitability for hard work, all models have heavy duty bearings allowing direct mounting of equipment such as propellers, fans, belt drives, etc.

Extreme power capability – and reliable operation!

The well-known F11/F12 toughness under conditions where others fail is achieved despite minimal dimensions – a result of advanced design using as few moving parts as possible, among them Parker's unique lightweight pistons that reduce centrifugal forces significantly. All these features add up to the highest power-per-kilogram rating of all hydraulic motors on the market. So, if your application is demanding, now you know what to demand!



A unique, robust ball socket design locks the pistons securely in place.

The patented triple laminated piston ring design gives the fixed displacement series high efficiency and temperature shock tolerance.

Light-weight pistons facilitate very high speeds due to low centrifugal forces.

The generously dimensioned bearing package allows substantial shaft loads.

The sturdy timing gear design enables the fixed displacement series to withstand extremely rapid speed variations and high vibration levels, adding considerable safety margins.

The fixed displacement series has an extremely high power-to-weight ratio, in a small envelope size.

F11-5

F11-10

F11-12 NEW!

F11-14 NEW!

F11-19

F12-30

F12-40

F12-60

F12-80

F12-90 NEW!

F12-110

F12-125 NEW!

F11-150

F11-250



APPLICATIONS: PILE DRIVERS • MOWERS & BRUSH CUTTERS • FAN DRIVES • SAW HEADS • BRAKE PUMPS • PRESSES • COMPRESSOR DRIVES • COMPACTORS • AIR SEEDERS • TURBINE STARTERS • GENERATOR DRIVES • ETC.

