



## SRAM FORCE 22: READY FOR YOUR BEST

*The SRAM Force 22 groupset has been completely rebuilt and redesigned and features our most advanced technologies*

However you define yourself as a rider, SRAM Force 22 is ready to help you achieve your personal best, offering no compromise of quality, function and features. **We have completely redesigned SRAM Force and loaded it with all of the key innovations of SRAM RED**, with no apologies for its fleet looks, ergonomics, efficiency, and lightweight design.

Apart from the complete overhaul, **SRAM Force also provides you twenty-two usable gears, Yaw™ shifting speed and precision** that can only be matched by SRAM RED, and a new sleek finish. The understated SRAM Force gruppo is for rational people with an irrational passion for performance. It is our most exciting introduction for 2013, and we designed it to be everything any rider at any level would ever require, and it's ready for your best.

Commercial availability – August 2013

MSRP\*: 1.207€ / \$1,358

\* Based on: Force 22 Rear Derailleur, Force 22 Yaw Front Derailleur (Braze-on with Chain Spotter), Force 22 GXP crankset (BB GXP included), Force 22 PG-1170 cassette, PC-1170 chain, Force 22 Mechanical Shift/Brake Lever Set and Force Mechanical Brake Set.

### SRAM FORCE 22:

- > **SIX BRAND NEW COMPONENTS:** Shift/Brake Lever, Rear Derailleur, Front Derailleur, Crankset, Cassette and Chain.
- > **11-SPEED YAW™ FRONT DERAILLEUR:** no trim, rub, or rasp – with chain spotter – and even lighter!
- > **PG-1170 CASSETTE:** seamless shifting now with a 16T!
- > **True 22:** twenty-two usable gears

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The new **SRAM Force 22 ErgoDynamic™ Shift/Brake levers** were modeled after the best in class comfort of SRAM RED, and represents our most advanced thinking yet on perfecting the interface between rider and bike. Everything received the same detail.

- > ErgoFit textured body with reduced diameter: improve grip and finger wrap and provide better control.
- > Individual Reach Adjust™ of brake and shift lever
- > Larger carbon ErgoBlade lever improves shifting from the drops
- > New clamp allows better fit and adjustment for modern carbon and ergo bars

Adopting all the technologies that provide the fastest, quietest shifting available, the new **SRAM Force 22 Rear Derailleur** has been designed with our Exact Actuation™ technology for precise, efficient shifting throughout the extended gear range.

- > Exact Actuation™ shifting provides fast, accurate shifts
- > More clearance with 28t cassettes thanks to a longer B-knuckle
- > New silent shifting with optimized Aeroglide Pulleys™
- > New chain pulley cage adds precise chain management



It's the derailleur that changed everything, now with SRAM Force 22, giving riders the freedom to shift with incredible speed, with no trim and no chain rasp. Instead of multiple shifts using trim, the **SRAM Force 22 Yaw™ Front Derailleur** actually rotates to maintain a consistent angular relationship with the chain.

- > Yaw™ cage rotates in line with chain: shifting speed and precision improvement and no trim
- > TRUE 22 – twenty-two usable gears in all gear combinations with no rasp or rub
- > Durable, light, fast, precise and optimized to work with X Glide R™ chainrings
- > Comes with Chain Spotter

The new **SRAM Force 22 crankset** delivers an upgrade in performance by utilizing unidirectional carbon in the crank arm matched to a forged alloy spider. And, like SRAM RED, the hidden bolt pattern makes better use of carbon fiber to further improve stiffness and shed weight.

- > X Glide R™ chainrings: advanced shifting technology
- > Hidden bolt for increased strength and stiffness
- > New 165mm arm length option



The **SRAM Force Brakeset** was designed with light weight, performance, and streamlined aesthetics as our guiding principles. Featuring Dual Pivot performance and a proprietary pad compound, the SRAM Force Brakeset delivers high power with low weight. Intelligent engineering combines Cold Forged arms, stainless steel main pivot bolts, and a powerful return spring for positive engagement and release.

- > Dual Pivot design increases braking power and enhances progressive feel.
- > Cold-Forged Arms, Stainless Steel Pivot Bolt
- > Skeletonized Dual Pivot Design with Convex Washers

The **SRAM PG-1170 Cassette's** semi-spidered design maintains smooth and positive shifting performance with a matched cassette/chain combination that runs near silent and maintains great mud clearing capabilities. Pedaling and shifting transitions across the cassette will be made even smoother with the addition of the long desired 16 tooth cog.

- > Cassette design for high shifting performance with a quieter chain/cassette combination
- > Semi-spidered design: light, strong, efficient



The new narrower **SRAM PC-1170 chain** features more heavily chamfered outer plates for improved shifting and quieter running. The chrome hardened pin construction provides longer chain life.

- > HollowPin construction: strong, precise and light weight
- > PowerLock (silver) connecting link
- > Narrower profile for 11-speed performance
- > True 22 – twenty-two usable gears with no rasp or rub!

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	SHIFTER	REAR DERAILLEUR	FRONT DERAILLEUR	CRANKSET	BOTTOM BRACKET	BRAKESET	CASSETTE	CHAIN
<b>Technology</b>	Yaw™/ Double-Tap™/ Zero-Loss™ on Front and Rear/ ErgoDynamics™ Fit/ Independent E-Z Access Shift/ Brake Lever Reach Adjust™	Exact Actuation™/ Aero-Glide Pulleys™ / WiFLi	Yaw™ Shifting/ Hybrid Cage/ Integrated Chain Spotter	Carbon Fiber Arms/ X-Glide R™ chainrings/ Hidden Bolt configuration	GXP/ Press-Fit GXP/ BB30/ Press-Fit 30	Skeletonized Dual Pivot Design with Convex Washers/ Optimized Firecrest compatibility	Semi-spidered steel cogs	PowerChain™/ PowerLube™/ PowerLock™/ HollowPin™/ Chrome Hardened Pins
<b>Speeds</b>	11 Rear/ 2 Front	11	2	2	N/A	N/A	11	11
<b>Weight</b>	307g (Pair)	178g	79g Braze-On/ Chain Spotter 10.2g	755.5g (BB30 172.5mm 53x39 BB not included)/ 820.8g (GXP 172.5mm 53x39 BB not included)	53g (BB30)/ 105g (GXP)	280g (Pair)	231g (11-25T)	256g (PowerChain™ 1170/ 114 links)
<b>Material // Finish</b>	Carbon/ Aluminum// Textured Hood Covers	Carbon Outer Cages/ Aluminum Inner cage/ Magnesium Inner link (Aluminum mid-cage) Aero Designed Stainless Steel hardware // Ice Grey & Black Anodized Finish	Steel Outer & Inner Cage/ Composite Tail // Ice Grey & black Anodized Finish	Carbon Arms/ Machined Alloy Ring & Spiders	CNC Alloy Cups/ Steel bearings	Cold-Forged Aluminum Arms/ Stainless Steel Pivot Bolt // Ice Grey & Black Anodized	Heat Treated Steel Cog Cluster/ Aluminum Lock-ring	Nickel Silver/ Silver Power-Lock™
<b>Compatibility</b>	SRAM RED 22 & Force 22 Yaw™ Front Derailleurs/ Exact Actuation™	SRAM RED 22 & Force 22 Rear Shift/ Brake levers	SRAM RED 22 & Force 22 Front Shift/ Brake levers	SRAM RED 22 & Force 22 Yaw™ Front Derailleurs/ SRAM RED 22 & PC1170 chains	SRAM RED 22 & Force 22 Yaw™ Front Derailleurs	SRAM Road Shift/Brake levers	SRAM RED 22 chain & SRAM PC-1170 chain	SRAM RED 22 & Force 22 Front & Rear derailleurs, Cranksets and cassettes
<b>MSRP</b>	417€ /\$469 (Pair)	105 € /\$118	56€ /\$63 (Chain spotter included)	GXP 285€ /\$321 BB30 321 € /\$361	GXP 33€ /\$37 BB30 33€ /\$37	160€ /\$180 (Pair)	100 € /\$113	51 € /\$57