

# SRAM

**SRAM**

X1 PRESS RELEASE

SRAM DRIVE TRAIN

TRAIL HOUSE (MAX)

# DRIVE TRAIN

SRAM



## SINGLE-MINDED PURSUIT.

Performance, Simplicity, Durability, and Lightweight. The SRAM 1X™ drivetrain philosophy focuses on optimizing how components work together—crank to chain ring, chain ring teeth to chain, shifter to derailleur, derailleur to cassette and cassette to wheel. SRAM 1X™ drivetrains are complete drivetrains for all types of riding.

ALL  
FOR  
ONE



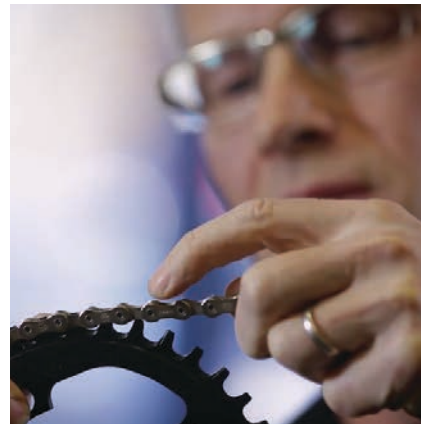
## X-SYNC™

SRAM X-SYNC™ 1X chain rings provide the highest level of performance and durability. The SRAM X-SYNC™ tall square teeth edges engage the chain earlier than traditional triangle shaped teeth. The sharp and narrow tooth profile, as well as rounded chamfer edges, help manage a deflected chain. To provide the best possible performance in muddy conditions, the X-SYNC™ chain rings have been designed with mud-clearing recesses for the inner chain links and rollers. Engineered in Germany, X-SYNC™ rings are an integral part of the SRAM 1X™ drivetrain.



## MINI CLUSTER™

The MINI CLUSTER™ hybrid cassette construction combines three small cogs that are CNC-machined out of a single block of billet steel with an additional eight cogs that are individually pinned together. The result: a cassette that's light, durable and equipped with a 10-42 gear range that's a perfect fit for any ride.





## X-HORIZON™

This rear derailleur’s “straight parallelogram” design limits all movement to the horizontal axis, which makes ghost shifting impossible while also reducing shift force. For quicker, more exact shifting, the large upper pulley offset design maintains a constant chain gap across all gears.



## CAGE LOCK™

With CAGE LOCK™ technology in the rear derailleur, wheel removal and installation—as well as chain installation—becomes faster and simpler. Just pushing the cage forward to create slack and lock it into place.





ROBERT BOEHM  
SENIOR DESIGN ENGINEER



## ROLLER BEARING CLUTCH™

ROLLER BEARING CLUTCH™ technology eliminates derailleur bounce and chain slap without sacrificing precision.



## X-ACTUATION™

Developed specifically for SRAM 1X™, X-ACTUATION™ keeps shifting sharp and consistent across the entire 10- to 42-tooth cassette.



## JET™

With durable JET™ black finish, the cassette looks as tough as it performs—ride after ride. JET™ finish provides a higher level of corrosion resistance.



## XD™ DRIVER BODY

XD™ is a cassette driver body design that allows the use of a 10-tooth small cog and provides an improved interface with the cassette.



VASCO CORREIA  
TEAM LEAD



MATTHIAS REINBOLD  
DESIGN ENGINEER

# XX1

SRAM DRIVETRAIN

AVAILABLE: JULY 2014



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## ONE FOR ALL

From SRAM X1 comes the integrated drivetrain engineered in Germany for every rider and every trail. The simple, smart and synchronized design delivers confidence in the face of any terrain—from cross-country racing to all-mountain adventure. With our super-wide 10-42 gear range and multiple chain ring options, it's the universal drivetrain for experienced or new-to-the-trail riders. Featuring our X-SYNC™ chain rings, optimized MINI CLUSTER™ cassette and dependable X-HORIZON™ rear derailleur, X1 puts the power of the SRAM 1X philosophy into every ride. SRAM X1. LIMITLESS.



X1 1400 CRANK WITH X-SYNC™ CHAIN RING

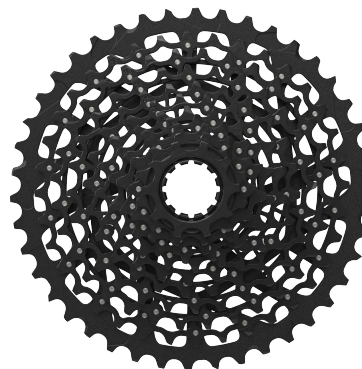
X1 X-HORIZON™ REAR DERAILLEUR

X1 11-SPEED X-ACTUATION™ TRIGGER SHIFTER

X1 11-SPEED MINI CLUSTER™ CASSETTE

XD™ DRIVER BODY

X1 11-SPEED CHAIN



SRAM X1

**X1 X-SYNC™ CRANK**

Quality and durability combine in the SRAM X1 crankset to deliver consistent performance every time out. Featuring SRAM's X-SYNC™ tooth profile, the X1 crankset is engineered for complete chain control. Each tooth's thickness is CNC-machined to work seamlessly with the chain's inner and outer links. And with five available chain rings (30-32-34-36-38), you can personalize your gear range to match the way you ride.

**TECHNOLOGIES**

- X-SYNC™
- BB30™
- GXP™



**X1 X-SYNC™ CRANK****SRAM X1 1400 CRANK**

- X-SYNC™ tooth profile provides maximum chain control
- Hollow forged aluminum arms with forged aluminum spider
- Chain ring guard option
- CNC- X-SYNC™ machined rings (30-32-34-36-38)
- Colors: Black, Red
- Weight: 800g (GXP, 175mm, 32t)

**SRAM X1 1000 CRANK**

- X-SYNC™ tooth profile provides maximum chain control
- 6000 series forged aluminum arms
- CNC- X-SYNC™ machined rings (30-32-34-36-38)
- Fat bike crank option (GXP and 30-32 X-SYNC™ rings)
- Weight: 850g (GXP, 175mm, 32t)

**X-SYNC™ CHAIN RINGS**

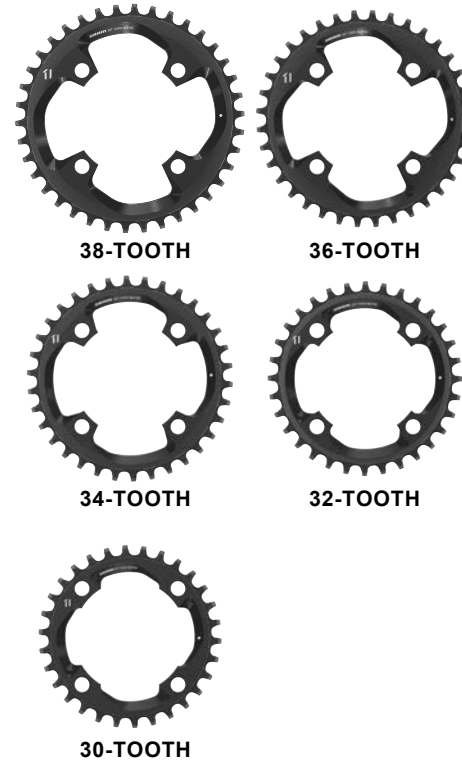
The X-SYNC™ narrow-wide chain ring delivers complete control. Tall, square teeth, rounded chamfers and a thick-thin tooth geometry combine to engage the chain earlier—and never let it go. With multiple ring options available, you can match your gear range to your terrain, wheel size and riding style. And recesses at the base of the teeth get rid of mud so the chain remains in place no matter what conditions you're up against.

**FEATURES / BENEFITS**

- X-SYNC™ tall, square tooth design provides maximum chain control
- Sharp, narrow tooth profile and rounded chamfer edges help manage a deflected chain
- 30-, 32-, 34-, 36- or 38-tooth single ring
- CNC-machined 7075, two-tone anodize
- Mud-clearing recesses for the inner chain links and rollers
- An integral component of the SRAM 1X™ drivetrain

**TECHNOLOGIES**

- X-SYNC™

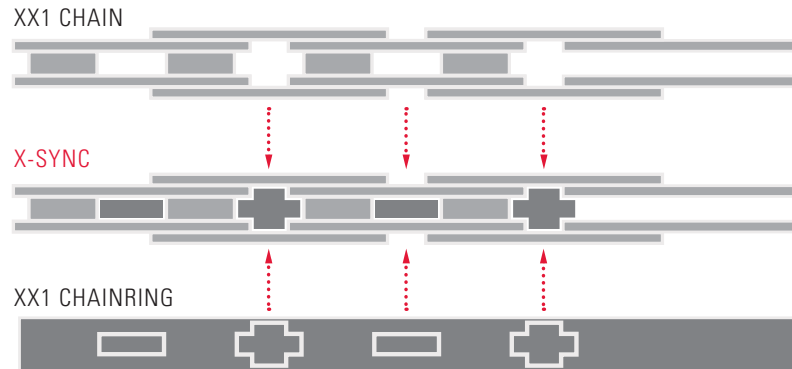




SRAM X-SYNC™  
A DEVELOPING STORY

More than a decade ago, SRAM's German engineers decided to go head-to-head with a fundamental frustration of biking—how to keep the chain on the ring.

# SRAM X-SYNC™ A DEVELOPING STORY



They began by looking at dual-drive solutions concocted for urban riders whose chains would disengage as they pedaled along bumpy European roads. These dual-drive models offered a simplified, focused approach that could make sense away from the city streets, too. The engineers were inspired. Ideas started to fly. Designs followed. Field tests. Frustrations. They learned lessons—for instance, that side-to-side movement (not up-and-down) was the most frequent cause of a disconnected chain.

The engineers now had a single goal in mind: to create the perfect MTB chain ring—a ring that wouldn't drop the chain in any conditions or under any circumstances. This led to the unprecedented thick-thin tooth shape. To optimized square tooth geometry. To mud recesses that kept the chain clean and moving. All focused on the dynamic bike platform. As SRAM lead engineer Frank Schmidt puts it, "We further developed it until we reached perfect chain control."

The original narrow-wide chain ring is now the perfect MTB chain ring for riders who never compromise. X-SYNC™—ONLY BY SRAM.

## SRAM X1 X-HORIZON™ REAR DERAILLEUR

Every detail of the 11-speed X1 X-HORIZON™ rear derailleur is engineered for smooth, reliable shifting action—from the larger upper pulley offset to the 12-tooth X-SYNC™ pulley wheels. By eliminating unwanted chain movement, X-HORIZON™ shifts faster, puts an end to ghost shifting and reduces shift force and chain slap. And with CAGE LOCK™ technology, wheel removal and installation are easier than ever.

### FEATURES / BENEFITS

- Large upper pulley offset automatically adjusts chain gap
- X-HORIZON™ design reduces shift force, ghost shifting and chain slap
- 12-tooth X-SYNC™ pulley wheels
- Aluminum Cage
- Sealed cartridge bearings
- Colors: Black
- Weight: 256g



### TECHNOLOGIES

- X-ACTUATION™
- X-HORIZON™
- X-SYNC™
- ROLLER BEARING CLUTCH™
- CAGE LOCK™

**SRAM XG-1180 MINI CLUSTER™ CASSETTE**

The XG-1180 MINI CLUSTER™ hybrid cassette is light, durable and equipped with a 10-42 gear range that's a perfect fit for any ride. MINI CLUSTER™ construction combines three small cogs that are CNC-machined out of a single block of billet steel with an additional eight cogs that are individually pinned together. The XG-1180 delivers SRAM's trusted cassette design at a great value for every rider.

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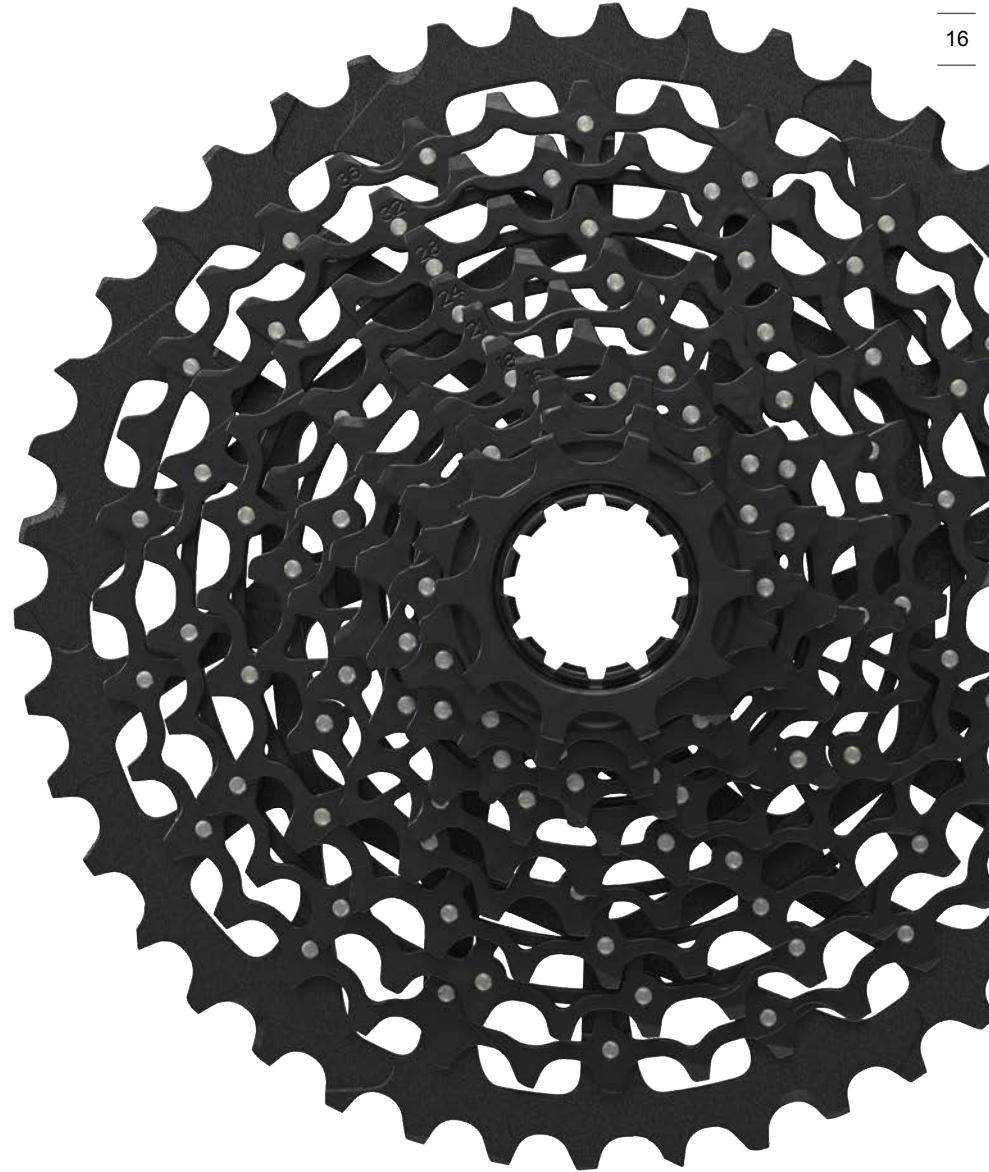
**FEATURES / BENEFITS**

- 11-speeds (10-12-14-16-18-21-24-28-32-36-42)
- XD™ Driver Body creates more stable hub connection
- Optimized gear steps across entire range
- Weight: 315g

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**TECHNOLOGIES**

- MINI CLUSTER™
- XD™ DRIVER BODY
- X-GLIDE™
- JET™





## SRAM X1 X-ACTUATION™ TRIGGER SHIFTER

Put your finger on the pulse of sharp, dependable shifting with the SRAM X1 X-ACTUATION™ trigger shifter. Built for precise and swift shifting across our wide range 11-speed cassette, the X1 trigger shifter brings championship technology to every ride.

### FEATURES / BENEFITS

- SRAM 1X™ X-ACTUATION™ for precise and dependable 11-speed performance
- Zero Loss Engagement for fastest shifting
- MatchMaker X compatible
- Aluminum cover and forged aluminum pull lever
- Discrete clamp
- Colors: Black
- Weight: 121g (w/o clamp)

### TECHNOLOGIES

- X-ACTUATION™
- ZERO LOSS
- MatchMaker X Integrated



## XD™ DRIVER BODY

X1

The XD™ driver body lets you take full advantage of the power and range of your SRAM cassette. The improved interface offers a tighter cassette-to-driver-body fit. With the XD™ driver body, SRAM has established a single universal mounting system for cogs with less than 11 teeth.

### — FEATURES / BENEFITS

- Driver body design that lets riders tap into the power and range of the SRAM cassette with a 10-tooth small cog
- Provides a more stable hub connection
- XD™ driver body is 6-8g lighter



## PC-X1 CHAIN

X1

The PC-X1 chain comes from a long line of dependable, lightweight chains that are built for toughness. Designed with SRAM's trusted XX1 geometry, the PC-X1 features solid pin construction, 11-speed PowerLock™ and smooth, efficient shifting that you can count on every time out.

### FEATURES / BENEFITS

- New 1X™ specific chain designed with our XX1 geometry
- Solid pin construction
- 11-speed PowerLock™
- Weight: 258g (114 links)

### TECHNOLOGIES

- X-SYNC™
- POWERLOCK™



SRAM X1

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# X1 SPECIFICATIONS



| <b>SPECS</b>         | <b>X1 1400 CRANK</b>                            | <b>X1 1000 CRANK</b>                            | <b>X-HORIZON™<br/>REAR DERAILLEUR</b>                                 | <b>X-ACTUATION™<br/>TRIGGER SHIFTER</b>               |
|----------------------|---|---|---|---|
| <b>VARIANTS</b>      | BB30 and GXP: 32t                               | BB30 and GXP: 32t                               | Horizontal Parallelogram design                                       | 11-speed  |
| <b>WEIGHTS</b>       | 800g (GXP, 175mm, 32t)                          | 850g (GXP, 175mm, 32t)                          | 256g  | 121g (w/o clamp)                                      |
| <b>TECHNOLOGIES</b>  | BB30, GXP and X-SYNC™                           | BB30, GXP and X-SYNC™                           | X-ACTUATION™, X-HORIZON™, X-SYNC™, ROLLER BEARING CLUTCH™, CAGE LOCK™ | X-ACTUATION™, ZERO LOSS™ AND Matchmaker™ X Integrated |
| <b>SPEEDS</b>        | SRAM 1X™  | SRAM 1X™  | 11-speed  | 11-speed  |
| <b>COMPATIBILITY</b> | 11-speed X-SYNC™                                | 11-speed X-SYNC™                                | X-ACTUATION™  | X-ACTUATION™  |
| <b>MATERIALS</b>     | Hollow forged 6000 series aluminum              | 6000 series forged aluminum                     | Aluminum cage   | Aluminum cover, forged aluminum pull lever            |
| <b>HARDWARE</b>      | 94BCD compatible with 30 thru 38t X-SYNC™ rings | 94BCD compatible with 30 thru 38t X-SYNC™ rings | n/a   | n/a   |
| <b>FEATURES</b>      | Carbon ring guard available                     |   | Sealed cartridge bearings   | MMX Compatible  |
| <b>OPTIONS</b>       | 170 and 175mm arm lengths; Black and Red        | 170 and 175mm arm lengths; Black                | Black   | MatchMaker™ X, Black                                  |

SRAM X1

# X1 SPECIFICATIONS



| <b>SPECS</b>         | <b>XG-1180 MINI CLUSTER™ CASSETTE</b>               | <b>PC-X1 CHAIN</b>                    |
|----------------------|---|---------------------------------------|
| <b>VARIANTS</b>      | 10-42   | 11-speed                              |
| <b>WEIGHTS</b>       | 315g  | 258g (114 links)                      |
| <b>TECHNOLOGIES</b>  | MINI CLUSTER™, XD™ driver body, X-GLIDE™, JET™      | X-SYNC™, POWERLOCK™                   |
| <b>SPEEDS</b>        | 11-speed  | 11-speed                              |
| <b>COMPATIBILITY</b> | XX1 and X1 chains, XD™ driver body                  | All SRAM 1X11 systems and X01 DH 7-sp |
| <b>MATERIALS</b>     | Machined steel with JET™ finish, alloy 42-tooth cog | n/a                                   |
| <b>HARDWARE</b>      | n/a   | n/a                                   |
| <b>FEATURES</b>      | XD™ driver body                                     | 11-speed PowerLock™                   |
| <b>OPTIONS</b>       | Black   | Silver/Black                          |

SRAM X1