

SRAM[®]
INNOVATIVE BICYCLE COMPONENTS

COMFORT AND CITY 2006



FOR THE

Love

OF CYCLING

→ → → www.sram.com

The beauty of the early morning sunrise, the smell of freshly mowed grass, a warm summer wind brushing your face and the refreshing sound of a stream – on your bike you can see, smell and feel the world around you. Each ride to the office, each trip to the beer garden or spin in the countryside is an adventure for your senses, and all this for free and without any restrictions.

SRAM® products combine history, experience and pioneering spirit. In 1903 Ernst Sachs developed the world-renowned Torpedo three-speed freewheel hub. In 1987 SRAM company founders Stan and F.K. Day introduced the legendary Grip Shift™ shifter and revolutionised changing gears on bikes! After taking over Sachs in 1997, one of the great innovative developments in the biking world appeared. SRAM® DualDrive™, the inspired combination of a gear hub with a standard rear derailleur. Twenty-seven gears controlled by a single grip with just one hand.

In the meantime SRAM® has expanded to include brands such as RockShox®, Avid® and Truvativ®. The synergies can be seen all around, whether it is the i-BRAKE™ braking system or the new, sporty Trigger shifter option for SRAM® DualDrive™. SRAM® has more than 1500 employees worldwide developing and producing quality products.

A passion for cycling and new technology inspires our teams to be even more innovative, giving you the freedom to enjoy the senses, riding a bike. Have fun!



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CONTENTS

- DUALDRIVE_6
- i-LIGHT_10
- i-BRAKE_12
- GEAR HUBS_14
- SPARC_17



The SRAM® Component Series consists of four distinct categories: 1. drive systems, 2. braking systems, 3. electronic systems, 4. accessories. The following overview shows you clearly where you can find each of them on the bike and how you can customize your ride.

1. Drive systems
 - SRAM® T3
 - SRAM® P5
 - SRAM® S7
 - SRAM® DualDrive 24
 - SRAM® DualDrive 27
2. Braking systems
 - i-BRAKE™ – drum brake hub
3. Electronic systems
 - i-LIGHT™ Dynamos
 - Sparc™ Electrical auxiliary drive
4. Accessories
 - Chains
 - Cassettes
 - Front wheel hubs
 - Brake grips



SHIFTING GEARS, SIMPLE AND EASY

SRAM DUALDRIVE™

Cycling with fitness bikes is the latest trend to address the requirements more efficiently, SRAM® has developed a trigger shifter for DualDrive™. Just as for mountain bikes the thumb is used to change all gears quickly and precisely. This ensures always holding the handlebars securely with four fingers and the ability to change gears and brake at the same time.

Both single-sided shifter and trigger shifter provide you all the advantages of the SRAM® DualDrive™ System. Changing gears while shifting under the load or while stationary is accomplished easily with either the single-sided grip or the sporty and fast trigger shifter. The DualDrive™ System consists of three components, a single-sided



shifter, the three-speed gear hub and the rear derailleur. The ergonomic single-sided shifter is the central control of the system. You can change all gears easily with one hand. The right thumb makes a simple selection between three gear modes, uphill, downhill and flat. Ideal for commuting downtown, the three-speed gear hub can be shifted even when you stop at a traffic light. The ergonomic single sided twist shifter operates the rear derailleur. While climbing you can change down quickly and efficiently into a lower gear under load allowing you to enjoy the ride without worrying about changing gears. Optimum riding comfort for entry level as well as experienced touring bikers, DualDrive™ even features a sealed cable system and the proven Clickbox system for little maintenance.





SRAM
DUALDRIVE™
THE INNOVATIVE GEAR CHANGE SYSTEM

Benefits of DualDrive™

- Gear change whilst stationary (at a red light)
- Gear change when moving on gradients
- Gear change with one hand (max. 27 gears)
- No dirty trousers and clothing (chain guard)



Trigger option



Cassette



i-BRAKE version



Disc brake

NEW

GEARS

27



3-speed gear hub



NEW Trigger option

9-speed shift unit



9-speed rear derailleur

24



3-speed gear hub



8-speed shift unit



8-speed rear derailleur

Single-hand Gear Shift

- Technology: 1:1st actuation ratio, SRS™, Grip Shift®
 Gears: 24 / 27
 Indicator: Display of three ride modes
 Details: Thermoplast plastic, polyamide reinforced fibre-glass housing
 Compatibility: SRAM® DualDrive™ gear hub and shift lever
 Option: DualDrive™ 27-gear shift

DualDrive Hub Gear

- Technology: DualDrive™ power-shift gear change
 Gears: 3
 Weight: Approx. 970g
 Details: Sealed aluminium hub body
 Compatibility: DualDrive™ cassette and gear shift

Rear Derailleur

- Technology: 1:1st actuation ratio, Di.R.T.™
 Gears: 8 / 9
 Weight: Approx. / 275g / 260g
 Details: Composite steel / composite alloy / alloy-alloy composite
 Compatibility: SRAM® DualDrive™ gear shift

DualDrive Cassette

- Technology: PowerGlide II™
 Gears: 8 / 9
 Number of teeth: 12-32 / 11-32 / 11-34
 Weight: Approx. 320g / 330g
 Compatibility: SRAM® & Shimano® chains

Supplementary components

i-BRAKE™, i-LIGHT™, VR drum brake, crank, 9 speed chains: PC-991 / PC-971 / PC-951, 8 speed chains: PC-48 / PC-58 / PC-68, Avid disc brake

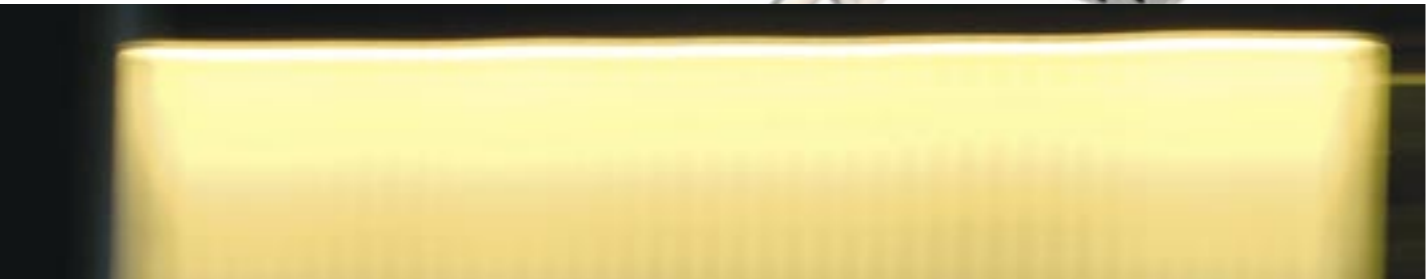
| | | |
|--|----------------|--|
| <p>SRAM i-LIGHT™ THE INNOVATIVE HUB DYNAMO</p> | Efficiency | 60 % (with lighting switched on) |
| | Losses in idle | 2 Watt |
| | Bearing points | Cartridge bearing, sealed |
| | Versions | 2.4 Watt / 6 Volt or 3 Watt / 6 Volt for Germany |
| | Finish options | Quick release and full axle version, i-BRAKE™ Option, Disc Brake Option Silver, black, polished |



The i-LIGHT™ hub dynamo transforms your bicycle into a mobile power station. Highly efficient and with minimum rolling resistance, it provides great and simple power for lighting systems. Compact and efficient, i-LIGHT™ is a reliable solution for an integrated power source for front and rear lights. Even at low speeds, i-LIGHT™ provides high electrical performance. Starting and rolling resistances are extremely low with i-LIGHT™. Reliable electronics integrated into the front wheel hub guarantee performance in all weather conditions.

The optimised current connection (according to regulation) can be installed with correct polarity, quickly and easily. A low idling loss means that i-LIGHT™ shows less rolling resistance with the light switched off than other hub dynamos. i-LIGHT™ is also available in an i-BRAKE™ and disc brake compatible version.

ENJOY THE NIGHT - SAFELY ← ← ←





SRAM
i-BRAKE™
SAFE BRAKING

| | |
|-----------------|--|
| Compatible with | SRAM gear hubs (SRAM S7, SRAM P5, SRAM T3, SRAM DualDrive™) SRAM i-BRAKE™ compatible front wheel hub, i-LIGHT™ hub dynamo |
| Brake lever | Linear pull compatible |
| Brake system | Sealed for uniform braking performance |
| Bearings | Sealed cartridge bearings for excellent ride characteristics and all-weather protection |



Weight option



i-BRAKE front wheel hub



STOPPING SAFE ← ← ←

The SRAM® i-BRAKE™ braking system was developed specifically for everyday use: sporty, comfortable and reliable. The predominant advantages are precise application, combined with excellent braking performance, and low overall weight. i-BRAKE™ is very safe with a sealed system to brake just as safely in the wet as in the dry. i-BRAKE™ inspires confidence with its pleasing design, simple brake adjustment and excellent braking performance in wet conditions. A clearly defined pressure point guarantees safety. The large cooling disc permits optimum heat dispersal and prevents temperature-dependent reduction in braking efficiency. SRAM® i-BRAKE™ is DIN plus certified for proven braking efficiency, and operational reliability on Comfort bikes. Tool free simple adjustment.



For all-weather cyclists who rely on their equipment throughout the year, SRAM® gear hubs are the right product, no matter whether it's the classic SRAM® T3 hub, the first choice for town riders or the Bandix option for children, the SRAM® P5 hub, which is synonymous with reliability (the German Post Office uses these hubs for all postal delivery bicycles), or the SRAM® S7, the hub for all those who are passionate about touring.

SRAM S7™

Touring Pro: Comfortable touring from Passau to Vienna



SRAM S7 grip shift



Klickbox

OPTIONS



S7 drum brake hub



SRAM S7 freewheel hub



i-BRAKE



Back-pedal brake - black



Free wheel - black

SRAM P5™

Weatherproof: 25000 post office bikes rely on the SRAM® P5 hubs and gear change



SRAM P5 grip shift



Klickbox

OPTIONS



P5 drum brake hub



SRAM P5 free wheel hub



i-BRAKE

SRAM T3™

The classic: proven a million times over on the Bonanza bike



SRAM T3 grip shift



Bandix version

OPTIONS



T3 drum brake hub



SRAM T3 freewheel hub



Torpedo gear change



i-BRAKE

SUPPLEMENTARY COMPONENTS



i-BRAKE



i-LIGHT



Drum brake, rear



Drum brake, front

SRAM INTERNAL GEAR HUBS
ALL-YEAR AROUND RELIABILITY AND COMFORT

SRAM S7 gear hub

Technology: Hub gear
Total Ratio: 303 %
Operation: Gear lever and Klickbox
Details: Drum brake - aluminium
back-pedal brake - steel
freewheel hub - steel
i-BRAKE™ hub

Compatibility: SRAM S7 gear change / Klickbox
DIN plus: Back-pedal brake, i-BRAKE™

SRAM S7 gear change

Technology: SRS™
Speeds: 7
Indicator: Display window
Details: Reinforced nylon,
optimised grip length
Compatibility: All SRAM S7 hubs



SRAM S7 back-pedal brake

SRAM P5 gear hub

Technology: Hub gear change
Total Ratio: 251 %
Operation: Gear lever and Klickbox
Details: Drum brake - aluminium
back-pedal brake - steel
freewheel hub - steel
i-BRAKE™ hub

Compatibility: SRAM P5 gear change/ Klickbox
DIN plus: Back-pedal brake, i-BRAKE™

SRAM P5 gear change

Technology: SRS™
Gears: 5
Indicator: Display window
Details: Reinforced nylon,
optimised grip length
Compatibility: All SRAM S5 hubs



SRAM P5 back-pedal brake

SRAM T3 gear hub

Technology: Hub gears
Total Ratio: 186 %
Operation: Gear lever and idler
Details: Drum brake - aluminium
back-pedal gear - steel
freewheel hub - steel
i-BRAKE™ hub

Compatibility: SRAM T3 gear change

SRAM T3 gear change

Technology: SRS™
Speeds: 3
Indicator: Quick display
Details: Reinforced nylon,
optimised grip length
Compatibility: All SRAM T3 hubs



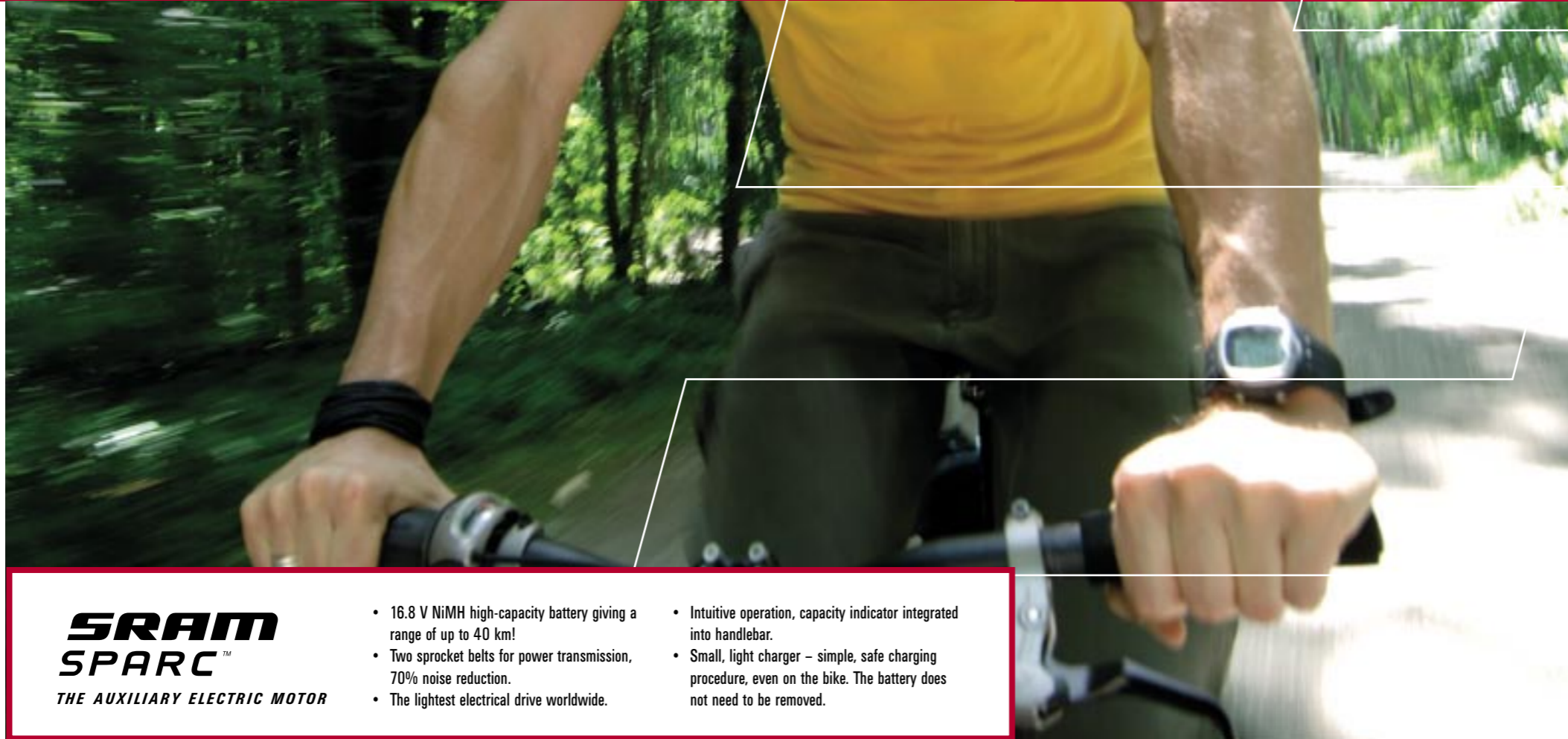
SRAM T3 back-pedal brake

Bandix™

SRAM T3™

The first bike! You don't want to confuse your kids too much, but you do want to provide them with flexibility and the highest level of safety – the Bandix™ version of the SRAM® T3 gear hub offers you these. The twist shifter developed especially for young hands is smaller and guarantees a safe grip. The hub is incorporated easily into a chain guard case, preventing trousers from getting caught in the chain and causing a crash!





SRAM
SPARC[™]
THE AUXILIARY ELECTRIC MOTOR

- 16.8 V NiMH high-capacity battery giving a range of up to 40 km!
- Two sprocket belts for power transmission, 70% noise reduction.
- The lightest electrical drive worldwide.
- Intuitive operation, capacity indicator integrated into handlebar.
- Small, light charger – simple, safe charging procedure, even on the bike. The battery does not need to be removed.

THE INNOVATIVE
AUXILIARY ELECTRIC MOTOR



The new Sparc™ electrical auxiliary drive - faster, quieter, further! Sparc™ is SRAM's power assist drive system comprising a 5-speed gear hub and electrical auxiliary drive. The new toothed-belt driven TwinDrive™ technology allows the use of more powerful motors. Together with the new high-performance NiMH battery, a Sparc™ bike is now faster and has a greatly reduced motor noise (70 % quieter) and a considerably larger range (up to 40 km). The system offers an Economy or Speed Mode. The more powerful engine is evident on climbs delivering up to 20% more output when climbing hills at 4 to 11 km/h.

A Sparc™ bicycle is only slightly heavier than a conventional bike. This means it handles like a normal bicycle with all the advantages of integrated pedalling assistance.



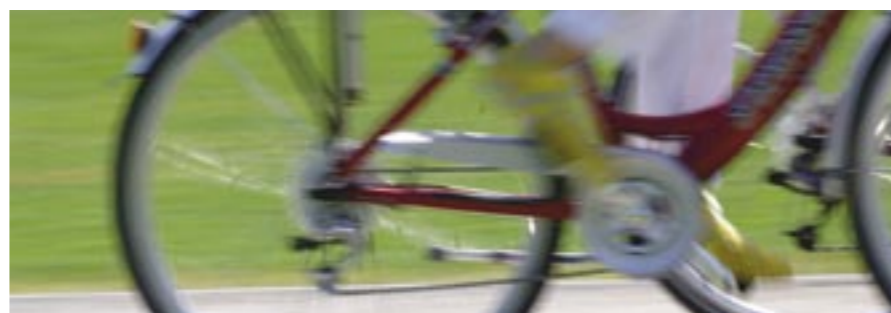


Discover your city by bike! You won't find an "adventure" today as cheap, simple, convenient and exciting. The pictures for this catalogue were taken in Munich. Explore the city is our motto, and this is exactly what we did: cycling rallies along the Isar river, relaxing at the Flaucher beer garden, cooling off in the English Garden and fine food at the Eisbach, culture in the new Pinakothek and open-air Opera at the Odeonsplatz, partying at the 8 Seasons, with no issue finding a parking spot in the Maximilians Street, meeting fun-loving and interesting people. You can see that riding your bike can be great fun. Get a few friends together and prepare a list with the following themes (you can add as many as you like) 1. Park, 2. Beergarden, 3. Art, 4. Culture, 5. Bar, 6. Party..., you'll think of something to do in every town and if you can't, simply ask a local or make a coffee stop at the nearest Internet cafe, enjoy!

www.dualdrive.com



Thanks to Andrea, Eva, Verena, Mathias, Maik, Helmut, Carola, Gaëtan, Sandra, Nik, Mia, Susi und Lilly.



BIKES TO ENJOY:

www.batavus.nl www.gazelle.nl www.union.nl www.sparta.nl www.multicycle.nl www.koga.nl www.dahon.com www.ktm-bikes.at www.wanderer-fahrraeder.de www.maxx.de www.idworx-bikes.com



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