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Sachs '94



Product Line Catalog

SACHS

There must be an easier way



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Somewhere in our product line, you'll find just the right drive system for every bicycle and every riding situation there is. That's what has made us Europe's largest manufacturer of bicycle components. We're part of Fichtel & Sachs AG, a company in the worldwide Mannesmann AG Group, which puts us in a strong position to influence the

bicycle technology of the future. We call our philosophy "Easy Biking". It is dedicated to making cycling more fun. To make components for bicycles that are easy to ride and control. Components that require little or no maintenance, that are easy to sell, easy to assemble and high in quality. Sachs will show you an easier way.

SACHS



SACHS

PARTNER

In Europe, we offer qualified dealers close cooperation in the form of our Sachs Partner Program. In the United States dealers can take advantage of our aggressive Sachs promotions, advertising and the pro-



minent visibility of Sachs sponsored teams and riders. Worldwide, we are committed to communication, customer service and continuing strong marketing support.



Sachs stands for success.

Races make the best proving grounds. Sachs takes on the challenge. Winning teams have been using our components for years in both professional and amateur events like the German four-men



Sachs stands up under stress.

Time Trial Team that won a gold medal in 1992 in Barcelona or the Tour Dupont and Core States #1 winning Chevrolet/L.A. Sheriffs team in 1993.



Go anywhere you want to go

21 Speeds the Easy-Biking way: The Sachs 3 x 7



You need to make a quick trip to the store... Or, you decide you really want



to take off on a bike tour... But, you really want challenge yourself and the mountains



to the limits of your performance! The new Sachs 3x7 system will always be the perfect choice!



The new Sachs 3x7 internal gear hub is an outstanding example of the Sachs Easy Biking concept. This totally new shifting system

provides more versatility of usage than any other system. It's a true 21 speed system that eliminates the inherent component and shifting problems associated with traditional

21 speed systems. The Sachs 3x7 system will open new horizons for suspension frame design and usage. You're now free to do what ever you want on your bike!

The "3 x 7" story:

The Sachs 3 x 7 systems produces 21 gears without a triple chainwheel! How is this possible? Like a traditional derailleur system, the Sachs 3 x 7 is a 7 speed cassette hub, but, it also provides 3 internal speeds, equivalent in range to triple chain-

wheels. The internal speeds are shift-able moving or stopped, perfectly indexed, and allowing preshifts to low gear! It is available as part of the Sachs 5000 or Sachs 3000 groups. Coupled to the ergonomic Power Grip Pro or Power Push shifter, the

Sachs 3x7 provides perfect and simple index shifting. As an added bonus, the 3 x 7 system can be used with a full chain guard. It has never been easier or more convenient to use 21 gears.

Sachs shifting systems

Always in the lead

Derailleurs



Sachs Power Glide: the system for smooth and easy shifting under load.



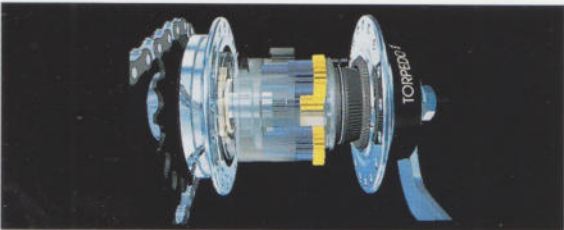
Sachs Super Shifter for indexed shifting right at your chainrings.

Derailleurs from Sachs: we've matched up shifting system components to ensure that they will always work together flawlessly, just as they do in

grueling racing environments. Our crisp and positive ARIS derailleur systems and Sachs' new rear Power Glide tooth profiles for shifting under

load are available for mountain bikes and trekking groups. The new Sachs' front Super Shifter chainrings provide front indexed shifting under load.

Internal Gear Hubs



Super 7 is advanced hub shifting technology providing 284% total ratio change.



The Click Box simplifies wheel changes and eliminates re-adjusting.

Sachs is a pioneer and leading manufacturer of internal gear hubs. These internal "Easy Biking" systems are sealed against water and dirt. They are easy to operate and practically

maintenance-free. They're ideal for city or touring use because they can be shifted while moving or standing still and they provide a wide gearing range to cope with a variety

of riding terrain. The Torpedo Super 7 hub, for example, provides an incredibly wide 284% ratio change from high to low and even includes a coaster brake.

Sachs brake technology

New: hydraulic brake systems



Sachs' completely new hydraulic brake lever is available in 2- and 4-finger versions (2-finger version above here).



Hydraulic Disc Brake: the braking system of choice for state-of-the-art mountain bikes.

Sachs hydraulic brake systems are superior to conventional brake systems in several ways. First, there is no power lost to friction in the cable. Second,

the hydraulic mechanism can boost braking action with minimum manual effort. Third, braking action can be precisely and accurately modulated.

Fourth, it is a closed system, sealed from contamination for a virtually maintenance free system. The hydraulic disc brake is the system of choice



Brake pads are easy to adjust.

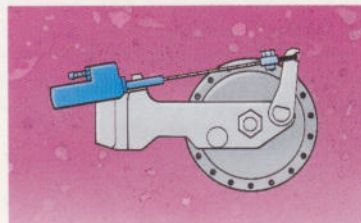


Retrofit hydraulic power boost with the Sachs Hydraulic Power Cable.

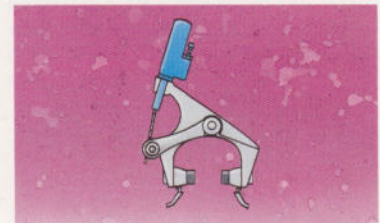
for state-of-the-art mountain bikes. Its braking performance is excellent, even in wet condi-

tions. The Sachs hydraulic disc system exceeds the exacting German braking standard

DIN 79100 by two and a half times! It is easy to adjust and very low maintenance.



Hydraulic Power Cable for drum brakes.



Hydraulic Power Cable for cantilever, drum and caliper brakes.

Sachs brake system

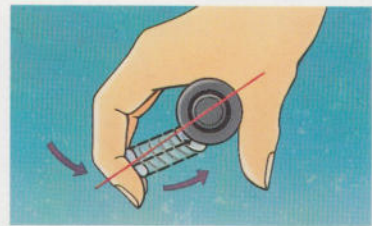
New, Constant Control Cantilever Brake



Constant Control components: provide optimal stopping power.



Pre-assembled spring unit make it easy to install and adjust cantilevers.

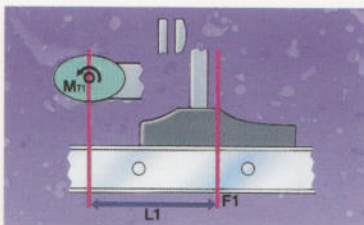


The asymmetric brake lever follows your natural gripping motion.

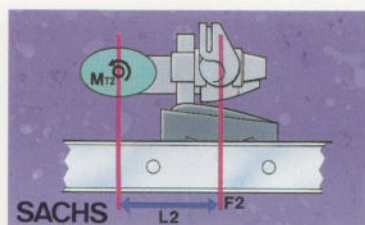
You'll have everything under control in any weather with Constant Control, the new cantilever brake system from Sachs. Positioning the brake

pads behind the cantilevers minimizes flex and pad noise. The return spring is preassembled into the cantilever arm to simplify assembly and adjust-

ment. The new asymmetric brake levers keep your fingers in a stable position for non-fatiguing and safer braking.



The compact design and rear mounted brake pad reduce cantilever torsion:



$$L_1 > L_2 = MT_1 > MT_2.$$

Sachs shifting systems

The grip with a twist



Power Grip Pro: two-part twist grip.



Kid Grip: big shifting technology for little people.



Power Grip Pro for Pentasport and Super 7 (Super 7 above here).

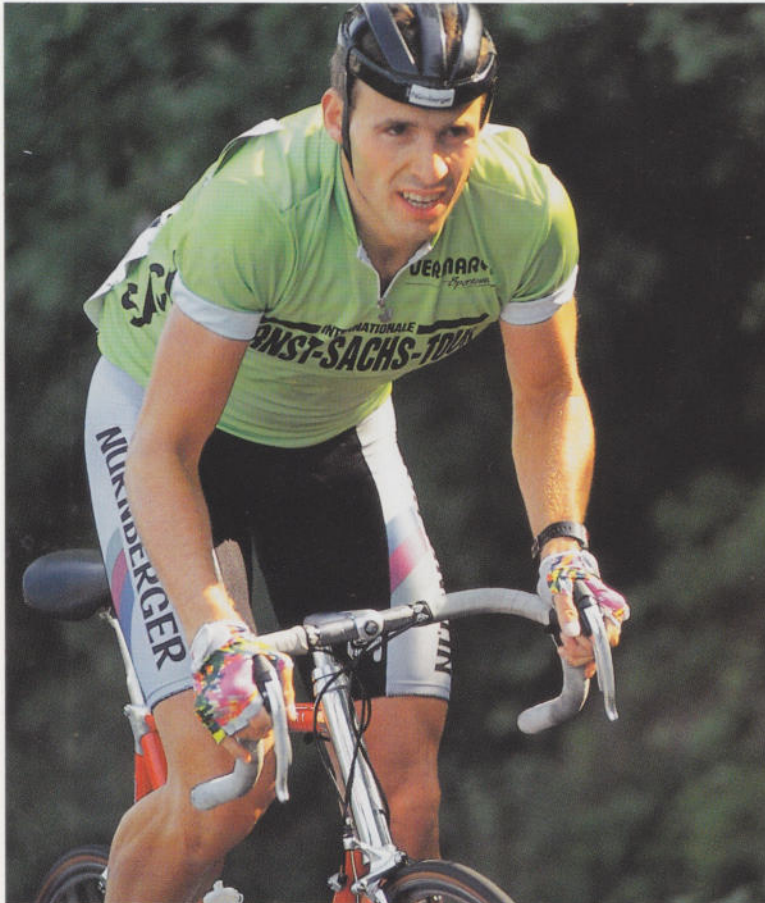
Ease of operation, bio-engineering, speed and shifting security are advantages of a twist grip. It keeps both hands on the handlebar when you shift, each gear can be selected with a twist, and you

can tell which gear you're in by looking at the grip. Our Powergrip Pro with its split handlebar grip personifies this principle: one part stays fixed, providing stability, while the other part is mov-

able for lightning-fast shifting. You can also get Powergrip for internal gearhubs. And your kids will go for our Kid Grip too.

Sachs racing technology

Survival of the best fit



The New Success Ergo Power integrated brake/shift lever.



The new Sachs 5000 Ergo Power group.



A simple tap of your finger is enough to perform brake or shift functions.

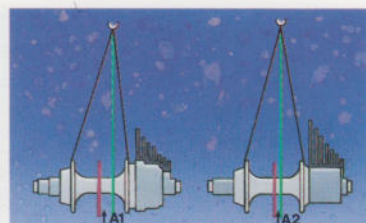
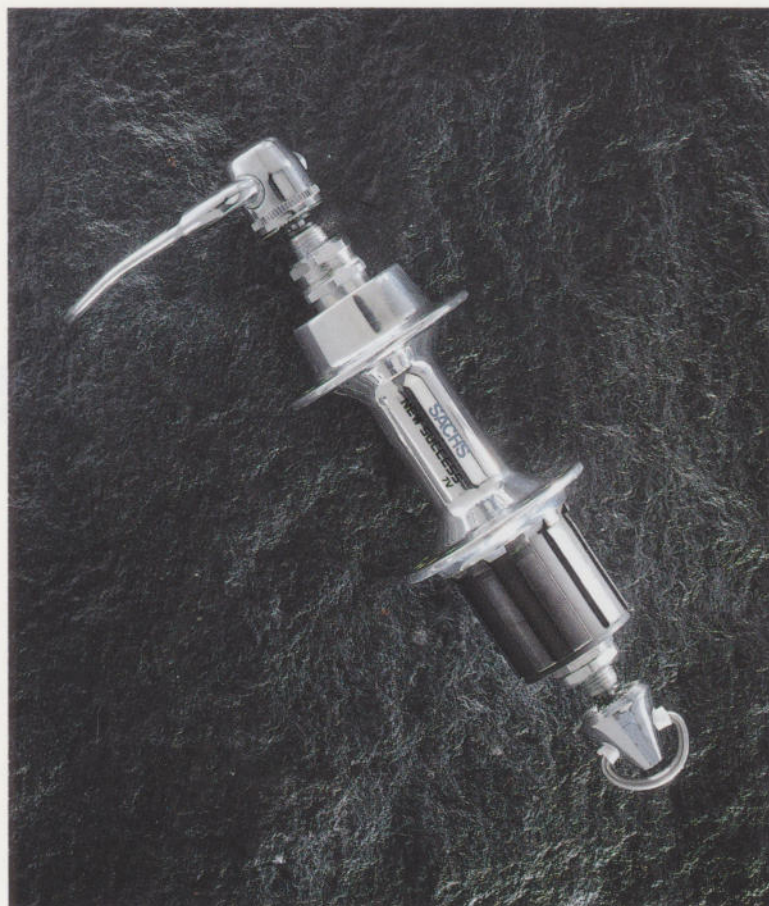
To be able to shift quickly without taking your hands off the handlebar is no problem with our integrated Ergo Power brake/shifting lever. With this combination, developed and

tested under racing conditions, you can downshift through as many as four speeds at once – and upshift through as many as eight speeds all in one motion. The number of win-

ners using this in professional and amateur races has made it one of our "fastest-moving" products.

New: Cassette Hub

A better design for a stronger wheel



Reduced rim offset produces a stronger more reliable wheel.



Sachs Cassette hubs are engineered to perform better:

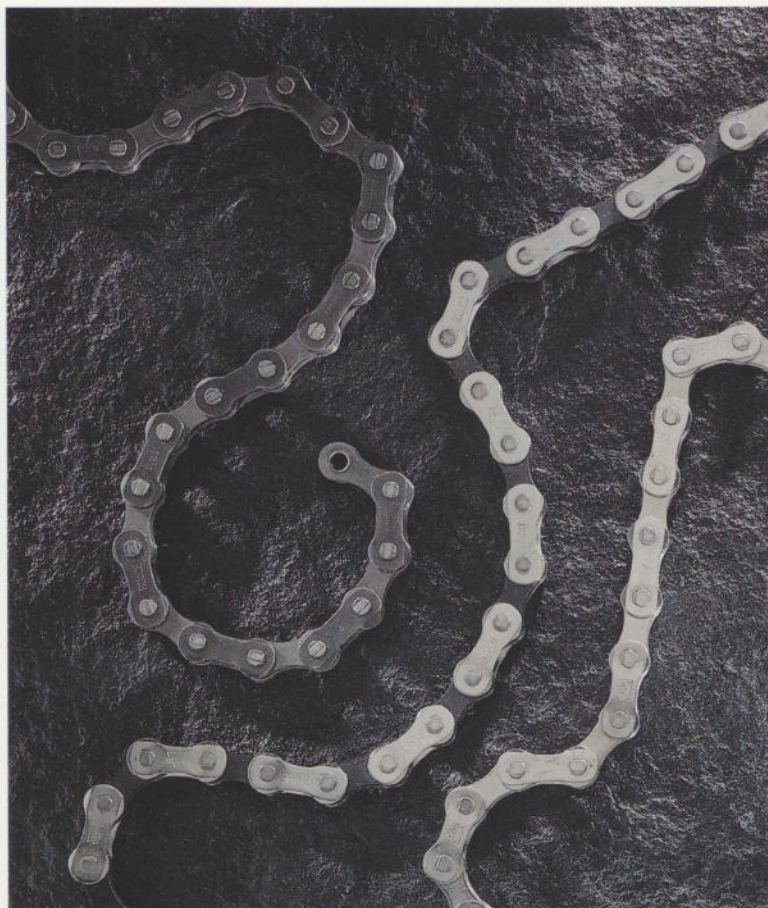
1. Larger diameter drive increases strength.
2. Longer shell design improves cassette support.

The sealed hub is the center of everyone's attention. Now Sachs offers a New Success and Sachs 7000 cassette hub with sealed cartridge bearings for

mountain and trekking bikes. The cassette is compatible with Hyperglide units to provide under load shifting performance. The hubs profile has

been engineered for more even spoke tension to improve wheel stability with less chance of rim warp.

Silent Chain, quiet strength



SC 30: A quality universal derailleur chain for all index systems.



SC-M 50: Engineered specifically for Mountain Bikes.*



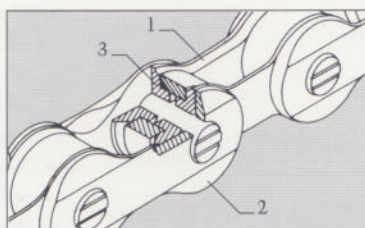
SC-R 80: A chain for riders who demand professional level performance.*

How to make a good thing better: take a Sedis chain and refine the inner link plates. You won't hear the improvement. In fact, you won't hear

the chain at all. There are three different chain models to choose from, and each one is compatible with all index systems on the market.

*SC-M 50: Double riveted chain pins withstand brutal Hyperglide shifting damage while chamfered side plate profiles increase shifting speed and accuracy.

*SC-R 80: The extra narrow width and chamfered plate profile provide extra quick and positive shifting for 7 and 8 speed road system. The reinforced rivets ensure greater strength in the toughest conditions.



The new Silent Chain design:
1. Flat inner plate, chamfered edge
2. Double chamfered outer plate
3. New 7.75 mm diameter roller

Innovative New '94 Sachs Com



CITY

City Components

- New Hubs**
- Torpedo 3-speed
 - Torpedo Pentasport with single control cable
 - Torpedo Super 7
 - Sachs 3 x 7
 - 7-Speed Cassette Hub w/Power Glide Tooth Profile

New Derailleur Systems

- Elysee
- Sachs 5000 thru 1000

New Shifters

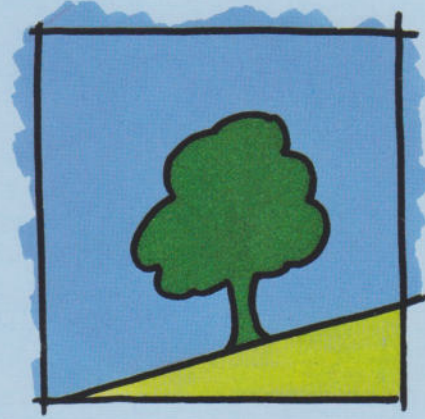
- Power Grip Pro
- Kid Grip
- Power Push

New Chain

- SC 30 Universal Silent Chain

New Brakes

- Constant Control Cantilever
 - Hydraulic Power Cable
- Asymmetrical Brake Lever



TREKKING

Trekking Components

- New Hubs**
- Torpedo Super-7
 - Sachs 3 x 7
 - 7-Speed Cassette Hub w/Power Glide Tooth Profile

New Front Derailleur

- Compact Drive

New Crank Set

- Compact Drive
- Super Shifter Chain Rings

New Shifters

- Power Grip Pro
- Power Push

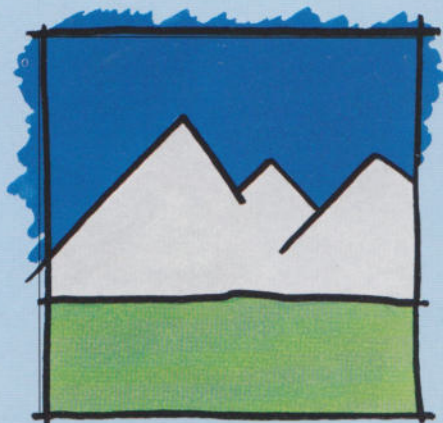
New Chain

- SC 30 Universal Silent Chain
- SC-M 50 Silent ATB Chain

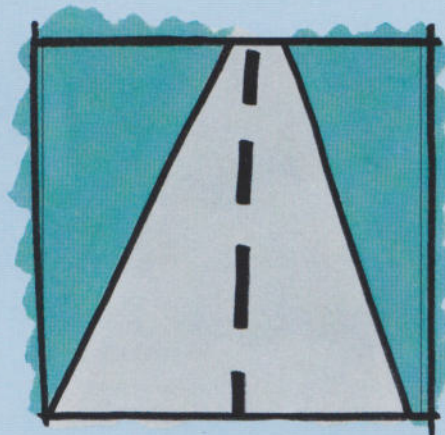
New Brakes

- Constant Control Cantilever
 - Hydraulic Power Cable
- Asymmetrical Brake Lever

Components For Every Riding Terrain



MTB



RACING

MTB Components

New Hubs

- Sachs 3 x 7, 21-speed Hub
- Sealed Cartridge Bearing Cassette Hub
- W/Power Glide Tooth Profile

New Rear Derailleur

- New Success Forged Alloy

New Front Derailleur

- Compact Drive

New Crank Set

- Compact Drive
- Super Shifter Chain Rings

New Shifters

- Power Grip Pro
- Power Push

New Chain

- SC-M 50 Silent ATB Chain

New Brakes

- Hydraulic Disc Brakes
- Hydraulic Power Cable
- Constant Control Cantilever
- Asymmetrical Brake Lever

Road Racing Components

New Hubs

- Sleeker Shape

New Rear Derailleur

- New Success w/sealed and cartridge bearing pivots points

New Front Derailleur

- Refine Geometry

New Shifters

- Sachs 5000 Ergo Power

New Chain

- SC-R 80 Silent Road Chain

Sachs 3 x 7



Highlights:

- 21 gears with only 1 chainwheel
- Compatible with chainguard
- 7 cog cassette hub with 3 internal speeds
- Shiftable with and without pedaling
- Ratio of 423 %
- Power Grip Pro or Power Push shifter
- Constant Control Cantibrake



City



Trekking



MTB

Rear Derailleur RD-R 5000

same as R 5000 group

Shifter SL-PGPI

POWER GRIP PRO

- Resin
- Lock button, gear indicator
- Right: ARIS 7-speed index
- Left: 3-speed hub
- Weight (pair): 328 g

Shifter SL-PP00

POWER PUSH

- Painted steel/resin
- Right: ARIS 7-speed index
- Left: 3-speed hub
- Weight: (pair) 342 g

Cassette CS-50

- ARIS
- 7-speed, brown
- 14/32 t
- Weight: 410 g

Chain CH-SC 30

same as M 5000 group

Rear hub MH-2101

- 3-speed-cassette hub
- Alloy shell
- Sealed
- Axle length 168 mm, FG 10,5
- Over lock nut 130 mm
- Ratio: up 1:0,734
normal 1:1
down 1:1,362
- Weight:
(with accessory) 968 g

Front hub FB-M 5000

- Polished alloy
- Sealed
- Quick-release or solid axle
- 100 mm, M 9 x 1
- Weight: 292 g

Cantilever brake BR-M 5000

same as M 5000 group

Brake lever BL-M 5000

same as M 5000 group

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

The 3 x 7 is with the
Sachs 3000 group available.

Rear Derailleur RD-R 3000

same as R 3000 group

Front hub FB-M 3000

- Light alloy
- Quick-release or solid axle
- 100 mm, M 9 x 1
- Weight: 292 g

Cantilever brake BR-M 3000

same as M 3000 group

Brake lever BL-M 3000

same as M 3000 group

All other components are the same
as M 5000 group.

New Success



Highlights:

- New: Power Glide rear tooth profile
- New: Cassette hub with cartridge bearing.
- Power Grip Pro shifter
- New: Power Push shifter
- New: Compact Drive System
- New: Super Shifter chainwheel
- New: Constant Control Cantibrake with Brake lever
- New: Hydraulic disc brake option
- New: Silent Chain



Rear Derailleur RD-M NS 00

- ARIS
- Cold forged alloy
- Clear anodized/painted
- Direct fitting
- Upper bracket sealed, angle adjusting bolt
- Lower bracket sealed, adjustable tension
- Bushing in all pivots
- Medium cage
- Cartridge bearing in cage pivot and lower pulley
- Cap.: total 34 t
max. 32 t
- Weight: 270 g

Front Derailleur FD-M NS 00

- Light alloy
- Polished
- Clamp on 28.8/31.8/34.8 mm
- Brazed on
- Standard or top pull
- Compact drive
- Cap.: total 22 t
max. 46 t
- Weight: 97 g

Shifter SL-PGP 0/PP 00/TS 80

POWER GRIP PRO

- Painted resin
- Lock button, gear indicator
- Right: ARIS 7-speed index
- Left: 3-speed "Micro-Index"
- Weight (pair): 328 g

POWER PUSH (same as M 5000 group)

- Painted steel-resin
- Right: ARIS 7-speed index
- Left: 3-speed "Micro-Index"
- Weight (pair): 342 g

Thumbshifter

- Steel/resin
- Gear indicator
- Right: ARIS 7-speed index
- Left: "Micro-Index"
- Weight (pair): 150 g

Cassette CS-80

- ARIS
- Compact Drive
- Silver
- 11/28 t
- Weight: 300 g

Chain CH-SC M 50

- Sedis Silent Chain
- Mushroomed pin
- Silver/black
- Chamfered in- and outside edges
- 1/2" x 3/32"
- Weight (110 links): 314 g

Crankset FC-M NS 00

- Compact Drive
- Light alloy
- High polished/hard anodized
- Crank length: 170/175 mm
- 42/32/22 t
- w/ or w/o chainguard
- Weight: 670 g

Bottom bracket BB-M 80

SKF-cartridge

- Alloy adaptor cup/clear anodized
- 110 mm, JIS
- BSC or ital
- Sealed
- Weight: 330 g

Hubs FB/FH-M NS 00

- High polished alloy
- Sealed cartridge bearing
- Quick-release
- Additional version for disc brake system
- Front: 100 mm
- Rear: Cassette hub 7-speed, 130 mm
- Weight (pair): 632 g

Cantilever brake BR-M NS 00

- Light alloy
- Stainless steel fixing bolts
- Hand polished
- Hard anodized alloy bushing
- Low-profile
- Individually micro-adjustable spring tension
- Constant Control brake pads
- Weight (pair): 154 g

Brake lever BL-M NS 00

- Light alloy
- High polished
- Reach adjustment independent of cable adjustment
- 2- or 4-finger
- Weight (pair):
4-finger 220 g, 2-finger 200 g

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Hydraulic disc brake BR-M HY 00

(refer to photo page 6)

- Front- and rear brake
- Floating caliper
- Steel disc
- Hubs FB/FH-M NSH0
- High polished alloy
- Sealed cartridge bearing
- Quick-release
- Front: 100 mm
- Rear: Cassette hub 7-speed 130/135 mm
- Hydraulic brake lever
BL-M HYC 0
- Light alloy
- Polished/black painted
- 2- or 4-finger
- Weight (compl. system w/ FT and RR hub): 2,490 g

Sachs 7000



Highlights:

- New: Power Glide rear tooth profile
- New: Cassette hub with cartridge bearing
- Power Grip Pro shifter
- New: Power Push shifter
- New: Compact Drive System
- New: Super Shifter chainwheel
- New: Constant Control Cantibrake with brake lever
- New: Silent Chain
- 2 versions: all black or black and violett finished



MTB



Trekking

Rear Derailleur RD-M 7000

- ARIS
- Light alloy
- Painted
- Direct fitting
- Upper bracket: angle adjusting bolt
- Cap.:
long cage: total 40 t
max. 32 t
Weight: 316 g
medium cage: total 34 t
max. 32 t
Weight: 300 g

Front Derailleur FD-M 7000

- Light alloy
- Painted
- Clamp on 28.6/31.8/34.8 mm
- Brazed on
- Standard pull/top pull
- Compact Drive
- Cap.: total 22 t
max. 46 t
Weight: 97 g

Shifter SL-PGP0/PP 00/TS 50

- POWER GRIP PRO
- Painted resin
- Lock button, gear indicator
- Right: ARIS 7-speed index
- Left: 3-speed "Micro-Index"
- Weight (pair): 328 g
- POWER PUSH
(refer to photo group 5000)
- Steel, painted resin
- Right: ARIS 7-speed index
- Left: 3-speed "Micro-Index"
- Weight (pair): 342 g



Sachs 7000:
black painted finish.

Thumb Shifter

- Steel/resin
- Gear indicator
- Right: ARIS 7-speed index
- Left: "Micro-Index"
- Weight (pair): 150 g

Cassette CS-80

- ARIS
- Compact Drive
- Silver
- 11/28 t
- Weight: 300 g

Chain CH-SC M 50

- Sedis Silent Chain
- Mushroomed pin
- Silver/black
- Chamfered in- and outside edges
- 1/2" x 3/32"
- Weight (110 links): 314 g

Crankset FC-M 7000

- Compact Drive
- Light alloy
- High polished/black
- Crank length: 170/175 mm
- 42/32/22 t
- w/ or w/o chainguard
- Weight: 670 g

Bottom bracket BB-M 80

- SKF-cartridge
- Alloy adaptor cup/clear anodized
- 110 mm, JIS
- BSC or ital
- Sealed
- Weight: 330 g

Hubs FB/FH-M 7000

- Painted alloy
- Sealed cartridge bearing
- Quick-release or solid axle
- Front: 100 mm, M 9 x 1
- Rear: Cassette hub 7-speed,
130 mm, M 10 x 1
- Weight (pair): 626 g

Cantilever brake BR-M 7000

- Light alloy
- Painted
- Hard anodized bushing
- Individually micro-adjustable
spring tension
- Low-profile
- Constant Control brake pads
- Weight (pair): 154 g

Brake lever BL-M 7000

- Light alloy
- Painted
- Reach adjustment independent
of cable adjustment
- 2- or 4-finger
- Weight (pair):
4-finger 220 g, 2-finger 200 g

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Sachs 5000

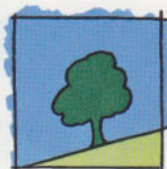


Highlights:

- New: Power Glide rear tooth profile
- New: Cassette hub
- Power Grip Pro shifter
- New: Power Push shifter
- New: Compact Drive System
- New: Super Shifter chainwheel
- New: Constant Control Cantibrake with brake lever
- New: Silent Chain



MTB



Trekking



City

Rear Derailleur RD-M 5000

- ARIS
- Light alloy
- Polished
- Direct fitting or w/hanger
- Upper bracket: angle adjuster bolt
- Capacity
long cage: total 40 t,
max. 32 t
Weight: 316 g
medium cage: total 34 t,
max. 32 t
Weight: 294 g

Front Derailleur FD-M 5000

- Light alloy/steel
- Polished, chrom-plated,
zinc-plated
- Clamp on 28.6/31.8/34.8 mm
- Brazed on
- Standard or top pull
- Compact Drive
Capacity: total 22 t
max. 46 t
Weight: 97 g
- Normal Drive
Capacity: total 26 t
max. 52 t
Weight: 107 g

Shifter SL-PGP1/PP00/TS 50

- POWER GRIP PRO
- Resin
 - Lock button, gear indicator
 - Right: ARIS 7-speed index
 - Left: 2- or 3-speed "Micro-Index",
Orbit or 3 x 7 internal hub
 - Weight: (pair) 328 g
- POWER PUSH
- Steel/resin, painted
 - Right: ARIS 7-speed index
 - Left: 3-speed "Micro-Index" or
3 x 7 internal hub
 - Weight: (pair) 342 g

Thumb shifter

- Steel/resin
- Gear indicator
- Right: ARIS 7-speed index
- Left: "Micro-Index"
or Orbit
- Weight (pair): 150 g

Cassette CS 50

- ARIS
- 7-speed, brown
- Compact drive: 11/28 t
- Normal drive: 13/30 t or
14/32 t
- Weight: 300 g/370 g/410 g

Chain CH-SC 30

- Sedis Silent Chain
- Black
- Chamfered in- and outside edges
- 1/2" • 3/32"
- Weight (116 links): 331 g

Crankset FC-M 5000

- High polished alloy crank
- Black/chrom steel chainwheel
- w/ or w/o chainguard
- Crank length: 170 mm
- Compact drive: 42/32/22 t
- Weight: 780 g
- Normal drive 46/36/26 t
Weight: 900 g

Bottom bracket BB-M 50

- SKF-cartridge
- Resin adaptor cup
 - BSC or ital.
 - Compact drive: 110 mm, Jis
 - Normal drive: 114.5 mm, Jis
 - Weight: 300 g

Hubs FB/FH-M 5000

- Polished alloy
- Sealed
- Quick-release or solid axle
- Front: 100 mm, M 9 x 1
- Rear: Cassette hub 7-speed,
130 mm, M 10 x 1
- Weight (pair): 635 g

Cantilever brake BR-M 5000

- Light alloy
- Polished
- Individually micro-adjustable
spring tension
- Low-profile
- Constant Control brake pads
- Weight (pair): 190 g

Brake lever BL-M 5000

- Light alloy
- Polished
- Reach adjustment independent
of cable adjustment
- 2- or 4-finger
- Weight (pair):
2-finger 200 g, 4-finger 220 g

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Sachs 3000



Highlights:

- New: Power Glide rear tooth profile
- New: Cassette hub
- New: Power Push shifter
- New: Super Shifter chainwheel
- New: Constant Control Cantilever with brake lever
- New: Silent Chain



MTB



Trekking



City

Rear Derailleur RD-M 3000

- ARIS
- Polished alloy upper bracket, angle adjuster bolt
- Resin lower bracket
- Steel parallelogram painted/zinc-plated
- Direct fitting or w/ hanger
- Capacity
 - long cage: total 40 t
max. 32 t
 - medium cage: total 34 t
max. 32 t

Front Derailleur FD-M 3000

- Alloy/steel
- Polished, zinc-plated
- Clamp on 28.6/31.8 mm
- Standard pull
 - Capacity: total 26 t
max. 52 t

Shifter SL-PGPI/PP00/ KG 00/TS 50

- POWER GRIP PRO
 - Resin
 - Lock button, gear indicator
 - Right: ARIS 7-speed index
 - Left: 2- or 3-speed "Micro-Index"
 - Left: Orbit or 3 x 7 internal hub
- POWER PUSH
 - Steel/resin, painted
 - Right: ARIS 7-speed index
 - Left: 3-speed "Micro-Index"
- KID GRIP
(not shown above)
 - Resin
 - Gear indicator
 - Right: ARIS 6- or 7-speed
 - Left: 2- or 3-speed "Micro-Index", or grip only



Power Push

Thumb-shifter

- Steel/resin
- Gear indicator
- Right: ARIS 7-speed index
- Left: "Micro-Index" or Orbit

Cassette CS-50

- ARIS
- Brown
- 7-speed 13/30 or 14/32 t

Chain CH-SC 30

- Sedis Silent Chain
- Black
- Chamfered in- and outside edges
- 1/2" • 3/32"

Crankset FC-M 3000

- Painted alloy crank
- Black steel chainwheel
- w/ or w/o chainguard
- Crank length: 170 mm
- 48/38/28 t

Bottom bracket BB-M 50

- SKF-cartridge
- Resin adaptor cup
- BSC or ital.
- 114,5 mm, Jis

Hubs FB/FH-M 3000

- Light alloy
- Quick-release or solid axle
- Front: 100 mm, M 9 x 1
- Rear: Cassette hub 7-speed, 130 mm, M 10 x 1

Cantilever brake BR-M 3000

- Light alloy
- Polished
- Individually adjustable spring tension
- Low-profile
- Constant Control brake pads

Brake lever BL-M 3000

- Light alloy
- Polished
- Reach adjustment independent of cable/pad adjustment
- 2- or 4-finger

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Sachs 2000/1000



Sachs 2000

Shifter SL-PP00/KG 00/TS 20

- POWER PUSH and KID GRIP same as M 3000
Thumbshifter
- Steel/resin, painted
 - Gear indicator
 - Right: ARIS 7-speed index
 - Left: "Micro-Index"

Freewheel and Cassette

same as R 2000/M 3000 group

Chain, Crankset, Bottom Bracket and Brake set

same as M 3000 group

Hubs FB/RB-M 2000

- Light alloy
- Quick-release or solid axle
- Front: 100 mm, M 9 x 1
- Rear: BSC, M 10 x 1, 7-speed 130 mm, Cassette hub

Rear Derailleur RD-M 1000

- Zinc-plated steel
- Direct or w/ hanger
- Capacity: total 40 t, max. 32 t

Front Derailleur FD-M 1000

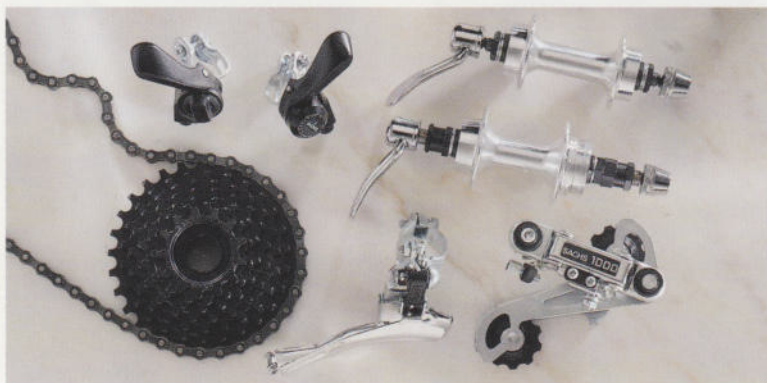
- Zinc-plated/resin
- Capacity: total 26 t, max. 52 t

Shifter SL-TS10

- Thumbshifter
- Steel/resin
 - Gear indicator
 - Right: 6- or 7-speed index
 - Left: "Micro-Index"

Freewheel, chain and hub

same as R 2000/M 3000/M 2000 group



Sachs 1000

Rear Derailleur RD-M 2000

- ARIS
- Resin brackets
- Steel parallelogram, zinc-plated
- Upper bracket, angle adjuster bolt
- Direct fitting or w/ hanger
- Capacity: long cage, 40 t total max. 32 t

Front Derailleur FD-M 2000

- Polished/chrom-plated/zinc-plated
- Clamp on 28.6/31.8 mm
- Standard pull
- Capacity: total 26 t max. 52 t



City



Trekking

City

Sachs Elysée



Freewheel MF 50

- Black
- 7-speed
- Min, 13 t, max 32 t
- BSC

Freewheel-Cassette Orbit MF 51

- Black
- 7-speed
- Min, 13 t, max 32 t

Chain CH-SC 30

- Sedis Silent Chain
- Black
- Chamfered in- and outside edges
- $\frac{1}{2}$ " x $\frac{3}{32}$ "

Rear Derailleur RD-M EL 70

- Polished alloy upper bracket
- Steel parallelogram, zinc-plated
- Resin lower bracket
- Direct fitting or w/ hanger
- Capacity
long cage: total 40 t
max. 32 t

Front Derailleur FD-R 2000

- Steel zinc-plated, resin
- Clamp on 28.6/31.8 mm
- Capacity: total 26 t
max. 52 t

Shifter SL-TS EL 70

- Thumbshifter
- Steel/resin
 - Right: 7-speed
 - Left: Friction or Orbit 2-speed

Hubs FB/RB-R 2000

- Light alloy
- Quick-release or solid axle
- Front: 100 mm, M 9 x 1
- Rear: 7-speed, 130 mm, M 10 x 1 or Orbit Hub

Brakes

same as R 2000/M 3000 group



City

New Success



Highlights:

- 8-speed ARIS
- Ergo Power integrated Brake/Shifter
- Rear Derailleur with sealed brackets, cartridge bearing and bushings in all pivot points
- ARIS Plus-Micro-Index
- Cold forged light alloy polished/anodized
- Radial sealed 8-speed Freewheel
- New: Silent Chain, extra narrow noiseless performance
- Hubs with sealed cartridge bearing
- Brake with Soft-Response-System, sinter brake pads, liner response spring



Racing

Rear Derailleur RD RNS00

- ARIS
- Cold forged alloy
- Polished/clear anodized
- Direct fitting
- Upper bracket sealed, adjustable
- Lower bracket sealed, adjustable tension spring
- Bushings in all pivot points
- Cartridge bearing in cage pivot and lower pulley
- Capacity: total 28 t
max. 28 t
min. 12 t
- Weight 230 g

Front Derailleur FD-RNS00

- Cold forged alloy
- Polished/clear anodized
- Clamp 28.6/34.8 mm
- Brazed on
- Capacity: double chainwheel
max. 16 t
- Weight 95 g

Shifter (Ergo Power) SL-REP 80

- Integrated Brake/Shifter
- Polished alloy
- Right: ARIS 7/8-speed index
- Left: double or triple chainwheel "Micro-Index"
- Sealed
- Weight (pair compl.) 800 g

Shifter (frame) SL-RFS 80

- ARIS plus
- Polished alloy
- Ital. or bonded boss
- Right: ARIS 7-/8-speed "Micro-Index"
- Left: retrofriction
- Weight (pair) 80 g



Ergo Power

Freewheel MF-80

- ARIS
- Radial sealed
- Champagne
- 7- or 8-speed: min. 12 t,
max. 28 tooth
- BSC
- Weight 8-speed (12/21): 420 g

Chain CH-SCR 80

- Sedis Silent Chain
- Narrow profile, 7.00 mm pin width
- Chamfered in- and outside edges
- Champagne
- 1/2" • 3/32"
- Weight (116 links) 316 g

Crankset FC-RNS00

- Light alloy
- Clear anodized
- Crank length: 170/172,5/175 mm
- Outer: 53, 52 t
- Inner: 39, 42 t
- Weight 760 g

Bottom bracket BB-R 80

- SKF-Cartridge
- Alloy-adapter cup/clear anodized
 - 114.5 mm
 - Sealed
 - BSC or ital.
 - Weight 330 g

Hubs FB/RB-R NS00

- High polished alloy
- Sealed cartridge bearing
- Quick-release
- Front: 100 mm
- Rear: 7- or 8-speed,
130 mm, BSC
- Weight (pair) 617 g

Brake BR-R NS00

- Soft-Response-System
- Cold forged alloy
- Quick-release
- Clear anodized
- Thrust bearings
- Linear response spring
- Adjustable spring tension
- Sinter brake pads
- Caliper reach 40–50 mm
- Weight (pair) 395 g

Brake lever (standard) BL-R NS00

- Soft-Response-System
- High polished alloy
- Weight (pair) 229 g

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Sachs 7000



Highlights:

- 8-speed ARIS
- Ergo Power Integrated Brake/Shifter
- Polished light alloy/red painted
- Radial Sealed 8-speed Freewheel
- New: Silent Chain, extra narrow noiseless performance
- Hubs with sealed cartridge bearing
- Brake with Soft-Response-System, Sinter brake pads



Racing

Rear Derailleur RD-R 7000

- ARIS
- Light alloy
- Upper bracket: angle adjuster bolt
- Direct fitting
- Capacity: total 28 t
max. 32 t
min. 12 t
- Weight 285 g



Ergo Power Sachs 7000

Freewheel MF 80

- ARIS
- Radial sealed
- Champagne
- 7- or 8-speed, min. 12 t, max. 32 t
- BSC
- Weight 8-speed (12/21): 420 g

Front Derailleur FD-R 7000

- Alloy/steel
- Polished/painted
- Clamp on 28.6/31.8 mm
- Brazed on
- Capacity: double chainwheel
max. 16 t
- Weight 95 g

Chain CH-SCR 80

- Sedis Silent Chain
- Narrow profile, 7.00 mm pin width
- Chamfered in- and outside edges
- Champagne
- 1/2" • 3/32"
- Weight (116 links): 316 g

Shifter (Ergo Power) SL-REP 50

- Integrated Brake/Shifter
- Red alloy/black resin
- Right: ARIS 7/8-speed index
- Left: 2- or 3 chainwheel
"Micro-Index"
- Sealed
- Weight (pair compl.) 965 g

Crankset FC-R 7000

- Light alloy
- Painted
- Crank length: 170/172.5/175 mm
- Outer: 53, 52 t
- Inner: 39, 42 t
- Weight 700 g

Bottom bracket BB-R80

- SKF-Cartridge
- Alloy-adaptor cup, clear anodized
- Sealed
- 114.5 mm, Jis
- BSC or ital.
- Weight 330 g

Hubs FB/RB-R 7000

- Polished light alloy
- Sealed cartridge bearing
- Quick-release
- Front: 100 mm
- Rear: 7- or 8-speed,
130 mm, BSC
- Weight (pair) 617 g

Brake

- Soft-Response-System
- Quick-release
- Forged light alloy
- Painted
- Caliper reach 40-50 mm
- Weight (pair) 291 g

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Sachs 5000



Highlights:

- 8-speed ARIS
- Ergo Power integrated Brake/Shifter
- Light alloy
- New: Silent Chain, noiseless performance
- Sealed mechanism hub
- Brake with Soft-Response-System



Racing

Rear Derailleur RD-R 5000

- ARIS
- Light alloy
- Polished
- Upper bracket: angle adjuster bolt
- Direct fitting or w/ hanger
- Capacity: total 28 t
max. 32 t
min. 12 t
- Weight 310 g

Front Derailleur FD-R/M 5000

- Light alloy/steel
- Polished
- Clamp on 28.6/31.8 mm
- Brazed on
- Capacity: double chainwheel
max. 16 t
Weight 95 g
- Capacity: triple chainwheel
max. 26 t
Weight 107 g

Shifter (Ergo Power) SL-REP 50

- Integrated Brake/Shifter
- Polished light alloy/black resin
- Right: ARIS 7/8-speed index
- Left: 2- or 3 chainwheel
"Micro-Index"
- Sealed
- Weight (pair compl.) 965 g

Shifter (frame) SL-RFS 50

- ARIS
- Polished light alloy
- For ital. or bonded boss
- Right: ARIS 7-/8-speed
"Micro-Index"
- Left: friction
- Weight (pair) 80 g



Ergo Power Sachs 5000

Freewheel MF 50

- ARIS
- Black
- 7-/8-speed: min. 12 t, max. 32 t
- BSC
- Weight 7-speed (13/24): 430 g

Chain CH-SC 30

- Sedis Silent Chain
- Black
- Chamfered in- and outside edges
- 1/2" • 3/32"
- Weight (116 links): 331 g

Crankset FC-R 5000

- Polished light alloy
- Crank length: 170/172.5/175 mm
- Outer: 53, 52 t
- Inner: 39, 42 t
- Weight 700 g
- Triple crankset: 170 mm,
52/42/32 t
- Weight 720 g

Bottom bracket BB-R 50

- SKF-cartridge
- 114.5 mm, Jis
- Resin adapter cup
- BSC or ital.
- Weight 300 g

Hub FB/RB-R 5000

- Polished light alloy
- Sealed mechanism
- Quick-release
- Front: 100 mm
- Rear: 7-/8-speed,
130 mm, BSC
- Weight (pair) 562 g

Brake BR-R 5000

- Synchro-Soft-System
- Quick-release
- Light alloy, forged
- Polished
- Caliper reach: 40 - 50 mm,
42 - 57 mm
- Weight (pair) 328 g

Brake lever (standard) BL-R 5000

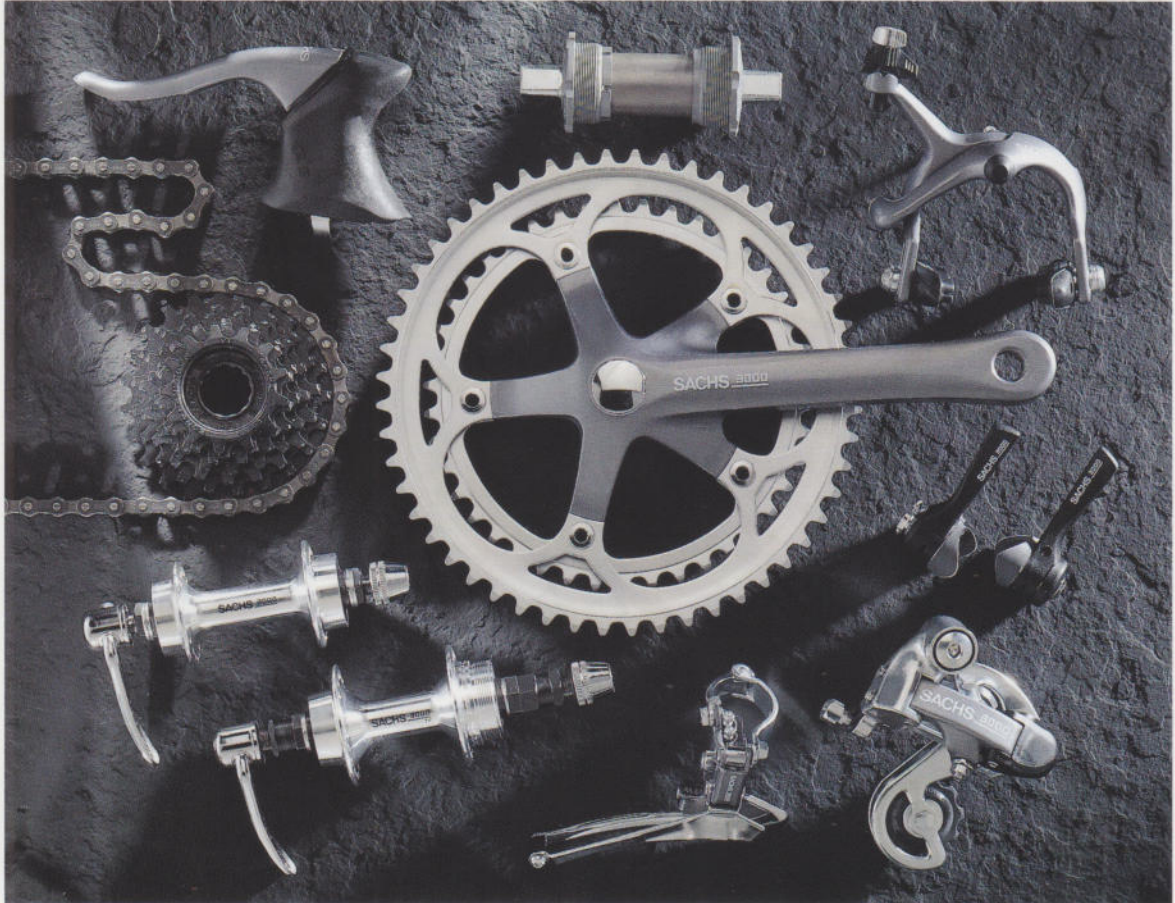
- Soft-Response-System
- Polished light alloy
- Weight (pair) 196 g

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

City

Sachs 3000



Highlights:

- 7-speed ARIS
- New: Silent Chain, chain for noiseless performance
- A value priced entry level group featuring the ARIS-System in 6/12- or 7/14-speed version. The ideal group for recreation and fun.



City

Rear Derailleur RD-R 3000

- ARIS
- Polished alloy upper bracket, angle adjuster bolt
- Resin lower bracket
- Steel parallelogram, painted
- Direct fitting or w/ hanger
- Capacity: total 28 t
max. 32 t

Front Derailleur FD-R 3000

- Light alloy/steel
- Polished
- Clamp on 28.6/31.8 mm
- Capacity: double chainwheel
max. 16 t

Shifter SL-RFS 30

Shifter frame

- ARIS
- Resin
- Clamp or ital. brazed on
- Right: ARIS 6/7-speed, index
- Left: friction

Freewheel MF 50

- ARIS
- Black
- 6/7-speed: min. 12, max. 32 t
- BSC

Chain CH-SC 30

- Sedis Silent Chain
- Black
- Chamfered in- and outside edges
- 1/2" • 3/32"

Crankset FC-R 3000

- Painted alloy/steel
- Crank length: 170 mm
- Outer: 52 t
- Inner: 42 t

Bottom bracket BB-R 50

- SKF-cartridge
- 114.5 mm, Jis
- Resin adaptor cup
- BSC or ital.

Hubs FB/RB-R 3000

- Light alloy
- Quick-release or solid axle
- Front: 100 mm, M 9 x 1
- Rear: 6/7-speed,
126 or 130 mm, BSC,
M 10 x 1

Brake BR-R 3000

- Quick-release
- Light alloy, painted
- Caliper reach: 43-57 mm,
53-72 mm

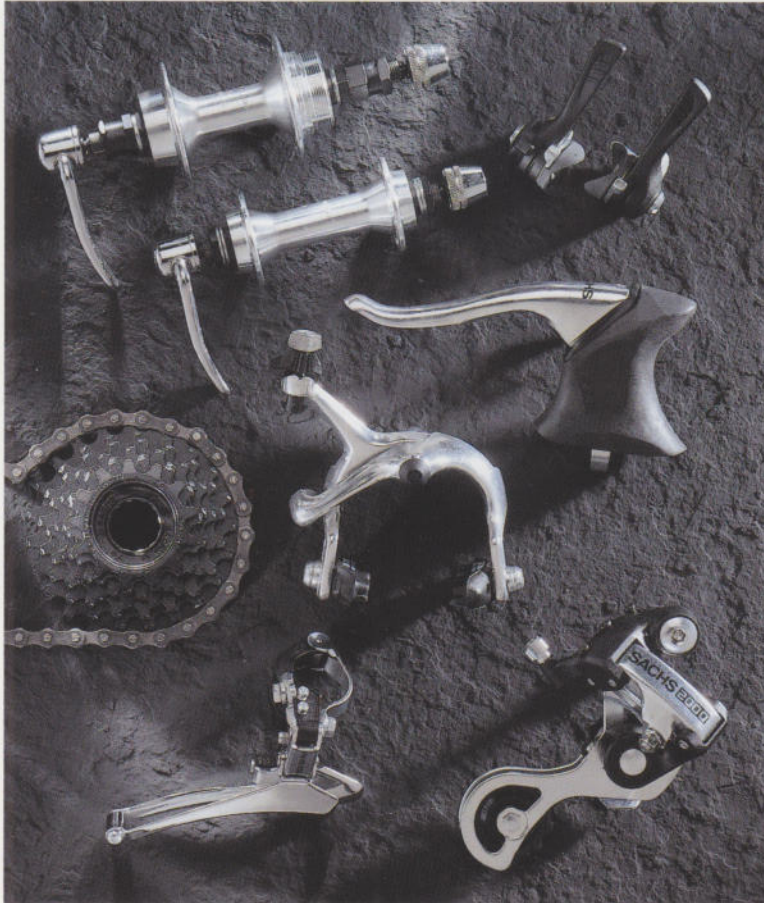
Brake lever BL-R 3000

- Light alloy
- Painted

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Sachs 2000



- Resin
- Right: ARIS 6/7-speed index
- Left: friction

Freewheel MF 50

- ARIS
- Black
- 6- or 7-speed: min. 13, max. 32 t
- BSC

Chain CH-SC 30

- Sedis Silent Chain
- Black
- Chamfered in- and outside edges
- 1/2" • 3/32"

Hubs FB/RB-R 2000

- Light alloy
- Quick-release or solid axle
- Front: 100 mm, M 9 x 1
- Rear: 6/7-speed, 126 or 130 mm, BSC, M 10 x 1

Brake BR-R 2000

- Quick-release
- Polished alloy
- Caliper reach: 43 - 57 mm, 53 - 72 mm

Brake lever BL-R 2000

- Resin
- Black

Brake cable

- Low friction inner liner (teflon)
- Black, white or silver

Rear Derailleur RD-R 2000

- ARIS
- Steel, zinc-plated
- Resin brackets
- Direct fitting or with hanger bracket
- Capacity: total 28 t max. 32 t

Front Derailleur FD-R 2000

- Steel/resin, zinc-plated
- Painted
- Clamp on 28.6/31.8 mm
- Capacity: double chainwheel max. 16 t

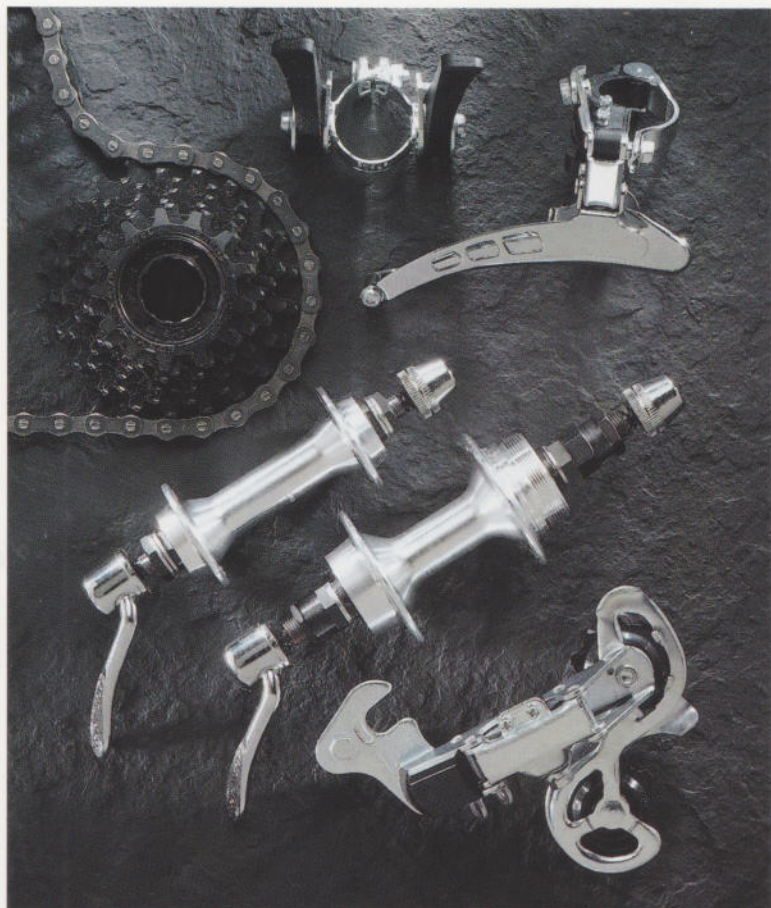
Shifter SL-RFS 20

- Shifter frame/stem
- ARIS



City

Eco



**Rear Derailleur
RD-RECO 0**

- Steel, zinc-plated
- Direct fitting or w/ hanger
- Capacity: total 28 t, max. 32 t

**Front Derailleur
FD-RECO 0**

- Steel, zinc-plated
- Clamp on 28.6 mm
- Capacity: double chainwheel,
max. 16 t

Shifter SL-RFSEC

- Shifter frame/stem
- Friction
- Resin

Freewheel MF 20

- Black
- 5/6/7-speed: min 14, max. 32 t
- BSC

Chain CH-TM 20

- Black
- 1/2" • 3/32"

Hubs

same as R 2000 group



City

City/Trekking

Super 7



- 7-speed internal gear hub
- Total gear ratio of 284% for easiest hill-climbing ability
- Shiftable with or without pedaling
- Handlebar or POWER GRIP PRO shifter
- Super 7 Click box: factory adjusted for perfect shifting.



City



Trekking



Power Grip Pro for Super 7



Click-Box: Factory adjusted for perfekt shifting



Super 7 Trigger

Super 7 MH 7213/7203/7220

- Seven speed hub with coaster brake w/o brake/with drumbrake
- Total gear ratio 284%
- Steel hub shell, chrom-plated/DB version painted alloy
- Over lock nut width 130/135 mm
- Weight (w/o acces.) w coaster brake: 1,750 g w/o brake: 1,540 g

Shifter

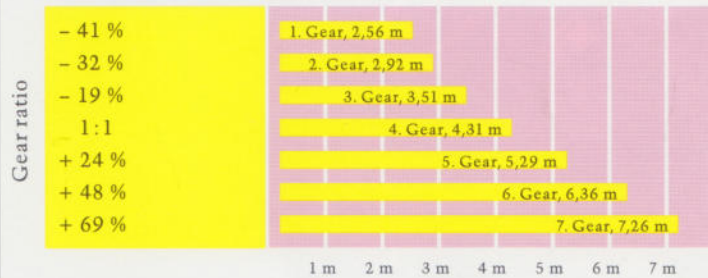
- Two styles of trigger control, for mounting on the front or rear of the handlebar
- POWER GRIP PRO with integrated brake lever and single Push Pull cable with Click box

Chain CH-TM 10

- 1/2" • 1/8"
- Black

Gear ratio and travel distance

FT chainwheel 46 t, RR sprocket 24 t



System comparison

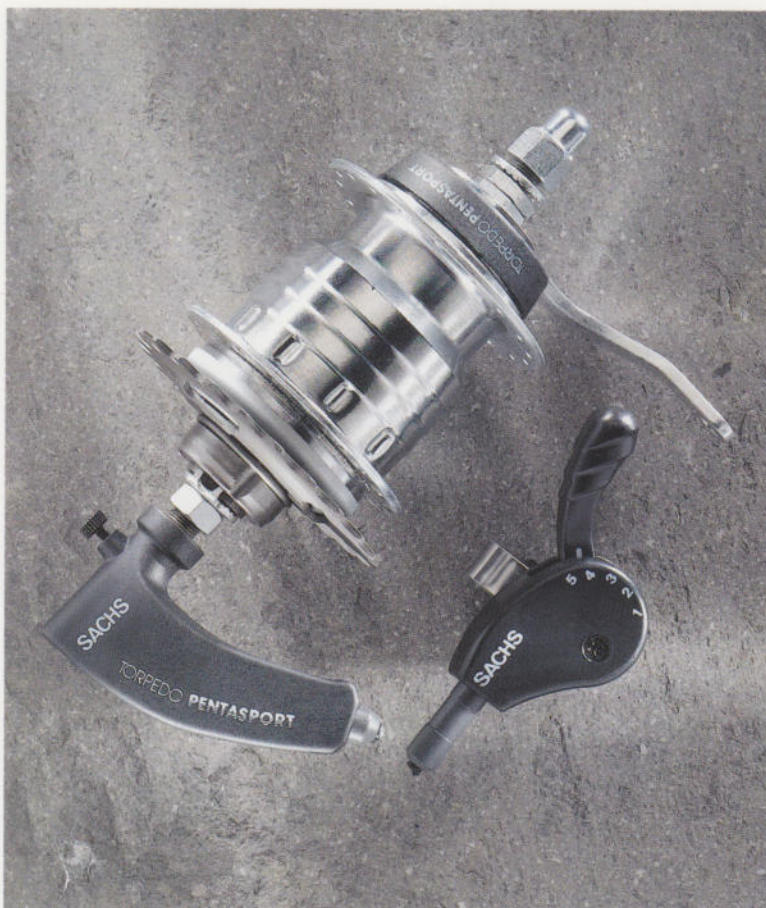


The Super 7 hub has the best climbing ability.



Billboard used to promot Super 7 in Europe.

Pentaspport



- 5-speed internal gear hub
- Internal Safety clutch prevents neutral freewheeling
- Ratio of 224%, greater than most 5/6-speed Deraillieur systems
- Shiftable with or without pedaling
- Ergo-Design handlebar Trigger, stem mounting available

Pentaspport MH 5113 / 5103 / 5120

- 5-speed internal gear hub with coaster brake/w/o brake/with drum brake
- Ratio 224 %
- Steel hub shell, chrom-plated, DB version alloy
- Over lock nut width 122/126 mm
- Weight (w/o acces.): 1400 g/1240 g/1570 g

Shifter

- Trigger with 2 cables or single Push Pull cable with Click box
- POWER GRIP PRO with integrated brake lever and single Push Pull cable with Click box

Chain CH-TM 10

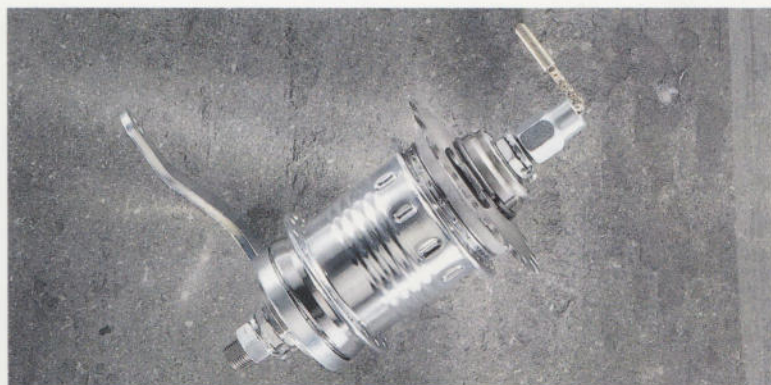
- 1/2" • 1/8"
- Black

Gear ratio comparison

One pedal revolution	Distance traveled
1. Gear	3,5 m
2. Gear	4,1 m
3. Gear	5,2 m
4. Gear	6,2 m
5. Gear	7,8 m



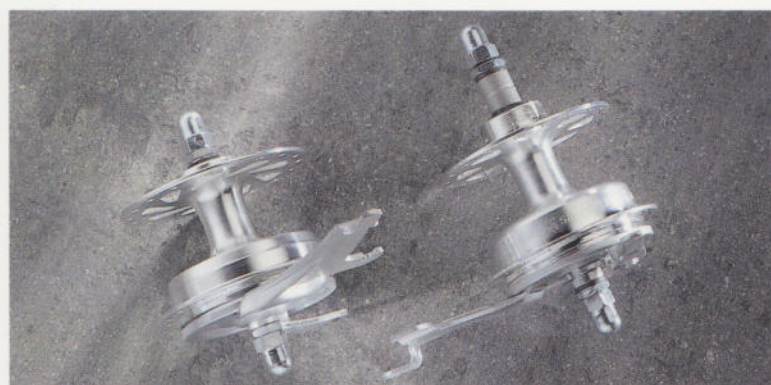
Torpedo 3-speed hub/Orbit hub/ Drum brake



Torpedo 3-speed



Orbit hub



Drum brake

Torpedo 3-speed hub

- With coaster brake MH 3111
- With drum brake MH 3120
- Without MH 3103
- Steel hub shell, chrom-plated, DB version alloy
- Click Trigger, economy shifter, POWER GRIP PRO, KID GRIP
- Over lock nut 118 mm
- Ratio 186%

ORBIT hub 14-speed

- 2-speed internal with 7-sp cog set
- MH 14102 – Super w/o brake
- MH 14101 – Standard w/o brake
- MH 14121 – Standard w/drum brake
- High polished hub shell
- POWER GRIP PRO Shifter or thumbshifter
- Axle length 167/170 mm
- Over lock nut width 130 mm
- Ratio 1:1/1:0,74

Drum brake hubs

Series 5000

- Hub shell alloy, silver painted brake carrier
- Sealed mechanism or optional sealed cartridge bearing
- Front hub DB-VT 5000, over lock nut width 100 mm M 9 x 1 solid
- Rear hub DB-HT 5020, 6/7-speed, over lock nut width 126/130 mm, M 10 x 1 solid

Series 3000

- Silver painted alloy/steel hub shell, brake carrier zinc-plated



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SACHS

TWO-WHEEL TECHNOLOGY

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