

7-speed compatibility

All 7-speed cogs in our range can be mounted on hubs marked 7-/8-/9-/10-/11-speed. To bridge the remaining distance to the wider free-wheel bodies and allow the cassette to be mounted without play, you need the Shimano 3 mm, 1,85 mm and perhaps 1 mm

If you have a system with a screw-on cog arrangement, you can order a screw-on cog as a special order from our order hotline or buy a hub compatible with insertable cogs. You must however note the installation width of the frame; it is often narrower (e. g. 126 mm) than the specified hubs (130/135 mm)

Fork installation dimension

The installation dimension on the fork is referred to as the unobstructed internal distance between the fork blades. This is generally 100 mm (race bike/MTB/ATB). Newer MTB forks with a 20 mm quick-release axle bracket, however, have an installation dimension of 110 mm. E-Bikes with a front motor also frequently use installation dimensions of 110 mm.



6-hole hubs/brake discs

drive train.

Sprocket: 11-34

The result: 22 + 23

Brake disc fixing via 6 screws. The distance between the middles is 44 mm.

Overall capacity of rear derailleur

The difference in the number of teeth at the

teeth at the rear result in the overall capacity.

If these two values are added together, the

ceeded, as otherwise the rear derailleur or

Bottom bracket: 44-32-22 = 22 teeth

capacity of the rear derailleur may not be ex-

= 23 teeth

= 45 teeth

front and the difference in the number of



Center Lock hubs/brake discs

Center Lock hubs have a multi-tooth profile (Ø 35,5 mm) to which the Center Lock disc grips. It is secured by means of a central closing ring. This ensures a secure position on the hub, resulting in higher precision and



Screw-on cog



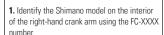


IS 2000 standard

The IS 2000 standard is to be found on many forks, frames and brake callipers. The marking on the frame, fork and brake calliper refers to a hole spacing of 51 mm (middle-middle). For the assembly of post-mount brake callipers, an appropriate adapter is needed to form the connection between the IS bracket and the



Lexicon of Shimano chain rings:



- 2. Dismantle the chain ring and note the number of teeth and the code (e.g. the letter "N").
- 3. Select the chain ring in accordance with the information in the catalogue; the number of teeth and the code must match for optimum

Hole spacing: Hole spacing refers to the measured distance between the middle of the two fixing drill-holes (see fig. A). This is not to be confused with the "bolt circle diameter" which is also commonly used.



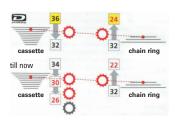
Bolt circle diameter:

The bolt circle diameter or BCD is the diameter of the circle formed by the fixing screws.



Shimano Dyna-Sys

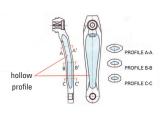
Shimano 10-speed MTB gearshift systems are known for a differing crank transmission and smaller spectrum (CloseStep; gradation generally 42/32/24 compared to 9-speed 44/32/22). In combination with 10-speed cassettes and a wider spectrum (11-36), shifting is more intuitive. Differential gearshifts, which often need to be used with 3 x 9 gearshift systems, are not generally needed.



Shimano Hollowtech II technology

With Hollowtech II technology, Shimano makes light and rigid crank sets a reality. Some features of this technology include hollow crank arms and the connection between the right-hand crank and the axle (XTR-Deore LX/Dura Ace-105). The axle diameter is 24 mm. In conjunction with the wide bearing spacing when compared with older bearing systems. there is better rotation efficiency and flexural stiffness. There is also a balanced distribution of weight and higher stability. 2-piece crank sets are structured identically but do not have a hollow crank arm, making them heavier (Deore/Alfine/Tiagra).





Installation dimension of frame

The installation dimension on the frame is referred to as the unobstructed internal distance between the left and right chain stays. Race bike frames generally have 130 mm and trekking bike frames 135 mm. In the case of MTB bikes, there is now a range of standards: 135/142/150/157 mm. Not only the installation dimension changes, but also the axle



spacing is 74 mm (middle-middle).

Post-mount standard

The PM standard is to be found on many

forks/frames and brake callipers. The marking

on the frame and the fork is a base with an

base height (6"/7"/8"). Most frequently, the 6" standard is used (assembly of a 160 mm

disc is possible without an adapter). The hole

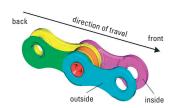
inner thread. There may be differences in





Shimano HG-X

HG-X components are tuned to one another and, when used correctly, ensure more fluid gear shifting. The outer side of the chain is optimised for shifting at the front; the inner side for shifting at the rear. For this reason, the direction of travel of these chains is binding. HG-X systems are currently used in the MTB/ATB 10-speed gear shift systems from Shimano. It is very important that only HG-X chain rings and HG-X chains be used.

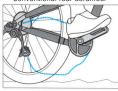


272 rosebikes.com

Shimano Shadow+ rear derailleur

Simple solution to reduce incidents of the chain coming off. An interior stabiliser with ON/OFF switch ensures increased tension.







Shimano Shadow rear derailleur

Shadow rear derailleurs have a much flatter shape on the smallest pinion when compared to normal rear derailleurs. This minimises off-road contact with branches, stones and roots, for example.

Conventional rear derailleur







-12 mm

11-speed



Latest-generation freewheel body with 1.85 mm extra width. You can mount your 11-speed cassette right here. If, however, you still have an 8-, 9- or 10-speed gear shift system, you will require a separate 1.85 mm spacer to eliminate play. To assemble a 7-speed cassette, you will need the 3 mm spacer in addition to the 1.85 mm spacer (and you may also need the additional 1 mm spacer).

A steep drop in the cogging is a feature of these freewheel bodies. Shimano and Easton have installed these freewheel bodies on certain wheels and hub models. Construction-conditioned not suitable with Shimano 7-/8-/9-speed sprockets, Shimano youth gradations, Shimano MTB 10-speed sprockets, Tiagra CS-4600 and all SRAM sprockets.



7-/8-/9-/10-speed

A wide groove is a feature of these freewheel bodies. 8-/9-/10-speed sprockets can be mounted directly; 7-speed sprockets require a suitable 3 mm spacer (and, if required, also the additional 1 mm spacer) to eliminate play.

Bottom bracket/housing standards

	Width of housing	Thread in housing	Internal diameter of housing
BSA (1,37x24 tpi)	68, 73 or 83 mm	YES (left-hand thread on right, right-hand thread on left)	34.8 mm
ITAL. (36x24 tpi)	70 mm	YES (right-hand thread on both sides)	36 mm
BB 86 Pressfit	86.5 mm	NO	41 mm
BB 92 Pressfit	89.5 or 92 mm	NO	41 mm
BB 30	68 or 73 mm	NO	42 mm
Pressfit 30	68 or 73 mm	NO	46 mm
BB 386 EVO	86.5 mm	NO	46 mm

SHIMANO COMPATIBILITIES -MECHANICAL-

11-speed road						
Crank	Front deraille	eur STI lever	Chain	Rear derailleur		
FC-9000	FD-9000	ST-9000	CN-9000	RD-9000		
FC-6800	FD-6800	ST-6800	CN-6800	RD-6800		
		SL-BSR1				

10-speed road / double						
Crank	Front deraille	ur STI lever	Chain	Rear derailleur		
FC-7900/50	FD-7900	ST-7900	CN-7901	RD-7900		
FC-6700/50	FD-6700	ST-6700	CN-6701	RD-6700		
FC-5700/50	FD-5700	ST-5700	CN-5701	RD-5700/01		
FC-4600/50	FD-4600	ST-4600	CN-4601	RD-4600/01		
				RD-7800		
				RD-6600		

10-speed road / triple						
Crank	Front deraille	ur STI lever	Chain	Rear derailleur		
FC-6703	FD-6703	ST-6703	CN-7801	RD-6700		
FC-5703	FD-5703	ST-5703	CN-6600	RD-5700/01		
FC-4603	FD-4603	ST-4603	CN-5600	RD-4600/01		
				RD-7800		
				RD-6600		

10-speed cross / double							
Crank	Front derailleur	SL/ST lever		Chain		Rear derailleur	-
FC-CX70	FD-CX70	ST-6700		CN-7901		RD-7900	Ī
FC-CX50		ST-5700		CN-6701		RD-6700	I
		ST-4600		CN-5701		RD-5700/01	
		SL-R780		CN-4601		RD-4600/01	
		SL-4600				RD-7800	I
		SL-R770D				RD-6600	
		SL-BS79					

10-speed Road Flatbar / double						
Crank	Front derailleur	SL lever	Chain	Rear derailleur		
FC-6700/50	FD-6700	SL-R780	CN-7901	RD-7900		
FC-5700/50	FD-5700	SL-4600	CN-6701	RD-6700		
FC-4600/50	FD-4600		CN-5701	RD-5700/01		
	FD-CX70		CN-4601	RD-4600/01		
				RD-7800		
				DD 6600		

10-speed Road Flatbar / triple					
Crank	Front derailleur SL lever	Chain	Rear derailleur		
FC-6703	FD-6703 SL-R783	CN-7801	RD-6700		
FC-5703	FD-5703 SL-4603	CN-6600	RD-5700/01		
FC-4603	FD-4603	CN-5600	RD-4600/01		
			RD-7800		
			RD-6600		

10-speed MTB					
Crank	Front derailleur	SL lever	Chain	Rear derailleur	
10-speed	10-speed	10-speed	10-speed HG-X	10-speed HG-X	
DynaSys	DynaSys	DynaSys	DynaSys	DynaSys	

10-speed ATB					
Crank	Front derailleur	SL lever	Chain	Rear derailleur	
10-speed	10-speed	10-speed	10-speed HG-X	10-speed HG-X	

A change to the transmission ratio can mean that these components CANNOT be combined with race bike 10-speed components.

Brakes BR-9010 BR-9000 BR-7900 BR-6810 BR-6800 BR-6700 BR-5710 BR-5700 BR-3500 BR-R562 BR-2401 BR-CX70 BR-CX50 BR-CX77 BR-R515 BR-R315 BR-4601

Brake lever BL-4600 BL-3500 BL-R780 BL-2400