

Cassettes

Model No.	CSMZ91 WT5*	CSMZ90 WA5
Speeds	12-Speed (Wide Ratio)	12-Speed (Wide Ratio)
Function	Fluid Drive Plus™	Fluid Drive Plus™
Number of Teeth	10-50T	11-50T
Gear Combination	10-12-14-16-18-21- -24-28-32-36-42-50	11-13-15-17-19-21- -24-28-32-36-42-50
Spider Material	Aluminum / Red Anodized	Aluminum / Red Anodized
Sprockets On Spider	7 Sprockets on 2 Spider Carriers	7 Sprockets on 2 Spider Carriers
Sprocket Material	1st~10th	Hi-Tensile Steel
	11th~12th	A7075 Aluminum / Anodized
Sprocket Finish	(O) Black Chrome / (X) Metallic Silver	(O) Black Chrome / (X) Metallic Silver
Light Weight Holes	●	●
Spacer Material	Aluminum / Red Anodized	Aluminum / Red Anodized
Lock Ring	Aluminum / Red Anodized	Aluminum / Red Anodized
Chain Compatibility	12 Speed	12 Speed
Average Weight	579g	586g

* Requires a special cassette body

Model No.	CSMX9 ETY*	CSMX80 EA5	CSMX80 EAZ	CSMX8 EA5	CSMX8 EAZ	CSMX8 EAY	CSMX8 EAX
Speeds	11-Speed (Wide Ratio)	11-Speed (Wide Ratio)		11-Speed (Wide Ratio)			
Function	Fluid Drive Plus™	Fluid Drive Plus™		Fluid Drive Plus™			
Number of Teeth	10-42T	11-50T	11-46T	11-50T	11-46T	11-42T	11-40T
Gear Combination	10-12-14-16-18- -21-24-28-32-36-42	11-13-15-18-21- -24-28-32-36-42-50	11-13-15-18-21- -24-28-32-36-40-46	11-13-15-18-21- -24-28-32-36-42-50	11-13-15-18-21- -24-28-32-36-40-46	11-13-15-17-19- -21-24-28-32-36- 42	11-13-15-17-19- -21-24-28-32-36- 40
Spider Material	Aluminum / Red Anodized	Aluminum / Red Anodized		Aluminum / Red Anodized			
Sprockets On Spider	6 Sprockets on 2 Spider Carriers	7 on 2	7 on 2	7 on 2	7 on 2	6 on 2	6 on 2
Sprocket Material	1st~9th	Hi-Tensile Steel		Hi-Tensile Steel			
	10th	Hi-Tensile Steel		Hi-Tensile Steel			
	11th	A7075 Aluminum / Anodized		A7075 Aluminum / Anodized			
Sprocket Finish	(O) Black Chrome / (X) Metallic Silver	(O) Black Chrome / (X) Metallic Silver		(O) Black Chrome / (X) Metallic Silver			
Light Weight Holes	●	●		●			
Spacer Material	Aluminum / Red Anodized	Aluminum / Red Anodized		Aluminum / Red Anodized			
Lock Ring	Aluminum / Red Anodized	Aluminum / Red Anodized		Aluminum / Red Anodized			
Chain Compatibility	11 Speed	11 Speed		11 Speed			
Average Weight	413g	512g	464g	560g	485g	419g	412g

* Requires a special cassette body

Cassettes

Model No.	CSMS8 EAZ	CSMS8 EAY	CSMS8 EAX	CSMS8 EAW	CSMS7 EAY	CSMS7 EAX
Speeds	11-Speed (Wide Ratio)				11-Speed (Wide Ratio)	
Function	Fluid Drive Plus™				Fluid Drive Plus™	
Number of Teeth	11-46T	11-42T	11-40T	11-36T	11-42T	11-40T
Gear Combination	11-13-15-18-21-24-28-32-36-40-46	11-13-15-17-19-21-24-28-32-36-42	11-13-15-17-19-21-24-28-32-36-40	11-12-13-15-17-19-21-24-28-32-36	11-13-15-17-19-21-24-28-32-36-42	11-13-15-17-19-21-24-28-32-36-40
Spider Material	Aluminum / Black Anodized				Steel / ED Black	
Sprockets On Spider	7 on 2	6 on 2	6 on 2	5 on 2	5 on 2	5 on 2
Sprocket Material	1st-10th	Hi-Tensile Steel			Hi-Tensile Steel	
	11th	Hi-Tensile Steel			Hi-Tensile Steel	
Sprocket Finish	(X) Metallic Silver / (E) ED Black				(X) Metallic Silver / (E) ED Black	
Light Weight Holes	●				●	
Spacer Material	Engineering Polymers				Engineering Polymers	
Lock Ring	Steel / ED Black				Steel / ED Black	
Chain Compatibility	11 Speed				11 Speed	
Average Weight	534g	465g	429g	360g	507g	471g

Model No.	CSMX3 TAZ	CSMX3 TAY	CSMX3 TAX	CSMS3 TAZ	CSMS3 TAY	CSMS3 TAX	CSMS2 TAZ	CSMS2 TAY	CSMS2 TAX	
Speeds	10-Speed (Wide Ratio)			10-Speed (Wide Ratio)			10-Speed (Wide Ratio)			
Function	Fluid Drive Plus™			Fluid Drive Plus™			Fluid Drive Plus™			
Number of Teeth	11-46T	11-42T	11-40T	11-46T	11-42T	11-40T	11-46T	11-42T	11-40T	
Gear Combination	11-13-15-18-21-24-28-34-40-46	11-13-15-18-21-24-28-32-36-42	11-13-15-18-21-24-28-32-36-40	11-13-15-18-21-24-28-34-40-46	11-13-15-18-21-24-28-32-36-42	11-13-15-18-21-24-28-32-36-40	11-13-15-18-21-24-28-34-40-46	11-13-15-18-21-24-28-32-36-42	11-13-15-18-21-24-28-32-36-40	
Spider Material	Aluminum / Red Anodized			Aluminum / Black Anodized			Steel / ED Black			
Sprockets On Spider	6 Sprockets on 2 Spider Carriers			6 Sprockets on 2 Spider Carriers			5 Sprockets on 2 Spider Carriers			
Sprocket Material	1st-9th	Hi-Tensile Steel			Hi-Tensile Steel			Hi-Tensile Steel		
	10th	A7075 Aluminum / Anodized			Hi-Tensile Steel			Hi-Tensile Steel		
Sprocket Finish	(O) Black Chrome / (X) Metallic Silver			(X) Metallic Silver / (E) ED Black			(X) Metallic Silver / (E) ED Black			
Light Weight Holes	●			●			●			
Spacer Material	Aluminum / Red Anodized			Engineering Polymers			Engineering Polymers			
Lock Ring	Aluminum / Red Anodized			Steel / ED Black			Steel / ED Black			
Chain Compatibility	10 Speed			10 Speed			10 Speed			
Average Weight	436g	393g	385g	486g	448g	414g	538g	494g	458g	

Cassettes

Model No.	CSMX0 TAW	CSMS0 TAW	CSMS0 TAV	CSMS1 TAW	CSMS1 TAV
Speeds	10-Speed	10-Speed		10-Speed	
Function	Fluid Drive Plus™		Fluid Drive Plus™		Fluid Drive Plus™
Number of Teeth	11-36T	11-36T	11-34T	11-36T	11-34T
Gear Combination	11-13-15-17-19- -21-24-28-32-36	11-13-15-17-19- -21-24-28-32-36	11-12-13-15-17- -19-21-24-28-34	11-13-15-17-19- -21-24-28-32-36	11-12-13-15-17- 19-21-24-28-34
Spider Material	Aluminum / Red Anodized	Aluminum / Black Anodized		Steel / ED Black	
Sprockets On Spider	5 Sprockets on 2 Spider Carriers	5 on 2	3 on 1	4 on 2	3 on 1
Sprocket Material	Hi-Tensile Steel		Hi-Tensile Steel		Hi-Tensile Steel
Sprocket Finish	(O) Black Chrome / (X) Metallic Silver	(X) Metallic Silver / (E) ED Black		(X) Metallic Silver / (E) ED Black	
Light Weight Holes	●	●		●	
Spacer Material	Aluminum / Red Anodized	Engineering Polymers		Engineering Polymers	
Lock Ring	Aluminum / Red Anodized	Steel / ED Black		Steel / ED Black	
Chain Compatibility	10 Speed		10 Speed		10 Speed
Average Weight	341g	348g	315g	390g	328g

Model No.	CSD11X 7AP	CSD110 7AP	CSD10X 7AP	CSD100 7AP
Speeds	7-Speed (Downhill)		7-Speed (Downhill)	
Function	Fluid Drive Plus™		Fluid Drive Plus™	
Number of Teeth	11-24T		11-24T	
Gear Combination	11-13-15- 17-19-21-24		11-13-15- 17-19-21-24	
Spider Material	Aluminum / Blk Ano.	×	Aluminum / Blk Ano.	×
Sprockets On Spider	2 on 1	×	2 on 1	×
Sprocket Material	Hi-Tensile Steel		Hi-Tensile Steel	
Sprocket Finish	(O) Black Chrome / (X) Metallic Silver	(X) Metallic Silver / (E) ED Black	(O) Black Chrome / (X) Metallic Silver	(X) Metallic Silver / (E) ED Black
Sprocket Protector	Aluminum / Anodized	Engineering Polymers	Aluminum / Anodized	Engineering Polymers
Light Weight Holes	●		●	
Spacer Material	Aluminum / Blk Ano.	Engineering Polymers	Aluminum / Blk Ano.	Engineering Polymers
Lock Ring	Aluminum / Blk Ano.	Steel	Aluminum / Blk Ano.	Steel
Chain Compatibility	11 Speed		10 Speed	
Average Weight	224g	234g	224g	234g

Cassettes

Model No.	CSM990 9AX	CSM980 9AX	CSM98 9AW	CSM98 9BW
Speeds	9-Speed (Wide Ratio)		9-Speed	
Function	Fluid Drive Plus™		Fluid Drive Plus™	
Number of Teeth	11-40T	11-40T	11-36T	12-36T
Gear Combination	11-13-15-18- -21-24-28-34-40	11-13-15-18- -21-24-28-34-40	11-13-15-18- -21-24-28-32-36	12-14-16-18- -21-24-28-32-36
Spider Material	Aluminum / Blk Ano.	×	×	
Sprockets On Spider	3 on 1	×	×	
Sprocket Material	Hi-Tensile Steel		Hi-Tensile Steel	
Sprocket Finish	(E) ED Black		(N) Nickel / (E) ED Black	
Light Weight Holes	●		●	
Spacer Material	Engineering Polymers		Engineering Polymers	
Lock Ring	Aluminum / Blk Ano.	Steel / ED Black	Steel / ED Black	
Chain Compatibility	9 Speed	9 Speed	9 Speed	
Average Weight	425g	500g	436g	441g

Model No.	CSM96 9AV	CSM96 9AU	CSM96 9AS	CSM90 9AW	CSM90 9AV	CSM90 9AU
Speeds	9-Speed			9-Speed		
Function	Super Fluid Drive™			Super Fluid Drive™		
Number of Teeth	11-34T	11-32T	11-28T	11-36T	11-34T	11-32T
Gear Combination	11-12-14-16- 18-21-24-28-34	11-12-14-16- 18-21-24-28-32	11-12-13-14- -16-18-21-24-28	11-13-15-18- -21-24-28-32-36	11-12-14-16- 18-21-24-28-34	11-12-14-16- 18-21-24-28-32
Sprocket Material	Steel			Steel		
Sprocket Finish	(N) Nickel			(U) Zinc / (B) Black		
Light Weight Holes	●			●		
Spacer Material	Engineering Polymers			Engineering Polymers		
Lock Ring	Steel / ED Black			Steel / ED Black		
Chain Compatibility	9 Speed			9 Speed		
Average Weight	358g	346g	273g	436g	358g	346g

Cassettes

Model No.	CSM680 8AX	CSM66 8AV	CSM66 8AU	CSM66 8BV	CSM66 8BU	CSM55 8AV	CSM55 8AU	CSM400 8BU
Speeds	8-Spd (Wide Ratio)	8-Speed		8-Speed		8-Speed		8-Speed
Function	Super Fluid Drive™	Super Fluid Drive™		Super Fluid Drive™		Super Fluid Drive™		Fluid Drive™
Number of Teeth	11-40T	11-34T	11-32T	12-34T	12-32T	11-34T	11-32T	12-32T
Gear Combination	11-13-15-18- -22-28-34-40	11-13-15-18- -21-24-28-34	11-13-15-18- -21-24-28-32	12-14-16-18- -21-24-28-34	12-14-16-18- -21-24-28-32	11-13-15-18- -21-24-28-34	11-13-15-18- -21-24-28-32	12-14-16-18- -21-24-28-32
Sprocket Material	Steel	Steel		Steel		Steel		Steel
Sprocket Finish	(N) Nickel / (E) ED Black	(N) Nickel		(N) Nickel		(U) Zinc / (B) Black		(E) ED Black
Light Weight Holes	●	●		●		●		●
Spacer Material	Eng. Polymers	Engineering Polymers		Engineering Polymers		Engineering Polymers		Eng. Polymers
Lock Ring	Steel / ED Black	Steel / ED Black		Steel / ED Black		Steel / ED Black		Steel / ED Black
Chain Compatibility	8 Speed	8 Speed		8 Speed		8 Speed		8 Speed
Average Weight	456g	346g	334g	346g	334g	346g	334g	364g

Model No.	CSM63 7AS	CSM63 7BS	CSM40 7AV	CSM40 7AS	CSM40 7BV
Speeds	7-Speed		7-Speed		
Function	Super Fluid Drive™		Super Fluid Drive™		
Number of Teeth	11-28T	12-28T	11-34T	11-28T	12-34T
Gear Combination	11-13-15- -18-21-24-28	12-14-16- -18-21-24-28	11-13-15- -18-22-28-34	11-13-15- -18-21-24-28	12-14-16- -18-22-28-34
Sprocket Material	Steel		Steel		
Sprocket Finish	(N) Nickel		(U) Zinc / (B) Black		
Light Weight Holes	●		●		
Spacer Material	Engineering Polymers		Engineering Polymers		
Lock Ring	Steel / ED Black		Steel / ED Black		
Chain Compatibility	7 Speed		7 Speed		
Average Weight	248g	258g	310g	248g	311g