

TECH SPECS HUBS

	190 ceramic			240s						
Front wheel / Roue avant / Vorderrad	radial		center lock®	radial		disc brake disc brake thru bolt	center lock® 15mm	center lock® center lock® thru bolt	single speed	oversize
Built-in width Entraxe Einbaubreite	100mm	-	100mm	100mm	-	100mm	100mm / 15mm	100mm	-	110mm
Wheel mounting Montage de roue Radbefestigung		-			-				-	
Flange distance (L/R) Distance de flasque (G/D) Flanschabstand (L/R)	74.8mm (37.4/37.4)	-	58.5 (22.5/36.0)	74.8 (37.4/37.4)	-	57.8 (22.4/35.4)	57.9 (22.4/35.5)	58.1 (22.5/35.6)	-	52.4 (22.2/30.2)
Pitch circle diameter (L/R) Dist. trous de rayon opposés (G/D) Teilkreisdurchmesser (L/R)	39.0/39.0mm	-	44.0/37.5 mm	39.0/39.0mm	-	58.0/42.0mm	44.0/44.0mm	44.0/42.0mm	-	58.0/52.0mm
Weight ± 5 %* Poids ± 5 %* Gewicht ± 5 %*	105g	-	110g	108g	-	154g (QR) 197g (TB)**	127g	136g (QR) 185g (TB)**	-	165g
Rear wheel / Roue arrière / Hinterrad	Shimano® 10-speed only	Shimano® 9/10 Camp® 9/10/11	center lock®	Shimano® 9/10 Camp® 9/10/11	MTB	disc brake disc brake thru bolt		center lock® center lock® thru bolt	single speed bolt on	-
Built-in width Entraxe Einbaubreite	130mm	130mm	135mm	130mm	135mm	135mm	-	135mm	135mm	-
Wheel mounting Montage de roue Radbefestigung							-			-
Flange distance (L/R) Distance de flasque (G/D) Flanschabstand (L/R)	50.2 mm (31.2/19.0)	50.2 (33.2/17)	52.5 (33/19.5)	50.2 (33.2/17.0)	54.7 (35.3/19.4)	53.4 (34.0/19.4)	-	52.4 (33.0/19.4)	67.4 (33.0/34.4)	-
Pitch circle diameter (L/R) Dist. trous de rayon opposés (G/D) Teilkreisdurchmesser (L/R)	41.0/45.0mm	41.0/45.0mm	44.0/47.5mm	45.0/45.0mm	45.0/45.0mm	57.0/47.5mm	-	44.0/47.5mm	45.0/45.0mm	-
Weight ± 5 %* Poids ± 5 %* Gewicht ± 5 %*	190g	195g	212g	218g (SH) 220g (CA)	250g	273g (QR) 331g (TB)**	-	258g (QR) 321g (TB)**	258g (QR) 326g (BO)***	-
Disc mount Montage disque Disc Aufnahme	-	-		-	-					
Spoke hole ø Diamètre de perçage ø Speichenloch ø	2.4mm	2.4mm	2.5mm	2.4mm	2.4mm	2.5mm	2.5mm	2.5mm	2.5mm	2.5mm
Intended use Utilisation Einsatzbereich										
Spoke bend ø Coude du rayon ø Speichenbogen ø	2mm	2mm	2mm	2mm	2mm	2mm	2mm	2mm	2mm	2mm
Spoke tension radial front Tension de rayon radial avant Speichenspannung radial vorne	1000 N	-	-	1000 N	-	-	-	-	-	-
Spoke tension crossed max. Tension de rayon croisé max. Speichenspannung gekreuzt max.	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N
Axle clamping force (min./max.) Couple de serrage sur l'axe (min./max.) Achsklemmkraft (min. / max.)	4000 N / 8000 N	4000 N / 8000N	4000 N / 8000 N	4000 N / 8000 N	4000 N / 8000 N	4000 N / 8000 N	4000 N / 8000 N	4000 N / 8000 N	4000 N / 8000 N	-

340								440 freeride	
radial	MTB	disc brake	center lock® 15mm	center lock®	thru axle	-		thru bolt	thru axle
100mm	-	100mm	100mm / 15mm	100mm	110mm	-		100mm	110mm
	-					-			
74.8(37.4/37.4)	-	58.2 (22.4/35.8)	54.8 (22.3/32.5)	54.9 (22.3/32.6)	55.5 (23.3/32.2)	-		52.4 (22.15/30.25)	52.4 (22.15/30.25)
39.0/39.0mm	-	58.0/52.0mm	44.0/44.0mm	44.0/44.0mm	58.0/58.0mm	-		58.0/52.0mm	58.0/52.0mm
145g	-	196g	135g	150g	238g	-		210g	207g
Shimano® 9/10 Camp® 9/10/11	MTB	disc brake	-	center lock®	thru bolt	thru axle		440 freeride	thru axle
130mm	135mm	135mm	-	135mm	135mm	150mm		135mm	150mm
			-						
50.2 (33.3/16.9)	57.3 (37.9/19.4)	54.2 (34.0/20.2)	-	53.6 (33.2/20.4)	54.2 (33.9/20.3)	52.0 (26.0/26.0)		52.8 (33.7/19.1)	52.3 (26.15/26.15)
45.0/45.0mm	45.0/45.0mm	58.0/52.0mm	-	44.0/47.0mm	58.0/52.0mm	58.0/58.0mm		58.0/52.0mm	58.0/58.0mm
315g (SH) 310g (CA)	335g	372g	-	335g	298g (TA) 379g (TB) **	343g 425g		327g (QR) 387g (TB)** 311g (TA)	369g (TA)
-	-								
2.4mm	2.4mm	2.5mm	2.6mm	2.4mm	2.5mm	2.5mm		2.8mm	2.8mm
2mm	2mm	2mm	2mm	2mm	2mm	2mm		2.34mm	2.34mm
1000 N	-	-	-	-	-	-		-	-
1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N		1200 N	1200 N
5000 N / 9000 N	5000 N / 9000 N	5000 N / 9000 N	5000 N / 9000 N	5000 N / 9000 N	5000 N / 9000 N	5000 N / 9000 N		4000 N / 8000 N	4000 N / 8000 N

* Weight without quick release or thru axle
* Poids sans serrage rapide ou axe traversant
* Gewicht ohne Schnellspanner oder Steckachse

** Weight including RWS thru bolt
** Poids avec RWS thru bolt
** Gewicht mit RWS thru Bolt

*** Weight including bolts
*** Poids avec vis inclus
*** Gewicht inklusive Befestigungsschrauben

BO = Bolt on
CA = Campagnolo®
CL = Center lock®
TA = Thru axle (front 20mm or 15mm / rear 12mm) / Steckachse (vorne 20mm oder 15mm / hinten 12mm)
TB = Thru bolt (front 9mm / rear 10mm) / Thru Bolt (vorne 9mm / hinten 10mm)

TECH SPECS HUBS

	540 tandem			DT Swiss 370					
Front wheel / Roue avant / Vorderrad	disc brake	-	-	radial	-	disc brake	center lock®	center lock® 15mm	thru axle
Built-in width Entraxe Einbaubreite	100mm	-	-	100mm	-	100mm	100mm	100mm / 15	110mm
Wheel mounting Montage de roue Radbefestigung		-	-		-				
Flange distance (L/R) Distance de flasque (G/D) Flanschabstand (L/R)	57.5 (22.1/35.4)	-	-	74.8 (37.4/37.4)	-	57.4 (22.4/35.0)	57.3 (22.4/34.95)	57 (22.2/34.8)	55.5 (23.3/32.2)
Pitch circle diameter (L/R) Dist. trous de rayon opposés (G/D) Teilkreisdurchmesser (L/R)	60.0/60.0mm	-	-	39.0/39.0mm	-	58.0/52.0mm	44.0/44.0mm	44.0/44.0mm	58.0/58.0mm
Weight ± 5%* Poids ± 5%* Gewicht ± 5%*	242g	-	-	150g	-	195g	156g	135g	238g
Rear wheel / Roue arrière / Hinterrad	disc brake	disc brake	disc brake	Shimano® 9/10	MTB	disc brake	center lock®		-
Built-in width Entraxe Einbaubreite	135mm	140mm	145mm	130mm	135mm	135mm	135mm		-
Wheel mounting Montage de roue Radbefestigung									-
Flange distance (L/R) Distance de flasque (G/D) Flanschabstand (L/R)	54.2 (34.6/19.6)	49.2 (27.1/22.1)	49.2 (24.6/24.6)	50.4 (32.6/17.8)	50.4 (30.1/20.3)	53.9 (33.6/20.3)	53.2 (32.9/20.3)		-
Pitch circle diameter (L/R) Dist. trous de rayon opposés (G/D) Teilkreisdurchmesser (L/R)	60.0/60.0mm	60.0/60.0mm	60.0/60.0mm	46.0/46.0mm	46.0/46.0mm	58.0/52.0mm	46.0/46.0mm		-
Weight ± 5%* Poids ± 5%* Gewicht ± 5%*	488g	506g	517g	364g	373g	410g	352g		-
Disc mount Montage disque Disc Aufnahme				-	-				
Spoke hole ø Diamètre de perçage ø Speichenloch ø	2.8mm	2.8mm	2.8mm	2.6mm	2.6mm	2.6mm	2.6mm	2.4mm	2.6mm
Intended use Utilisation Einsatzbereich									
Spoke bend ø Coude du rayon ø Speichenbogen ø	2.34mm	2.34mm	2.34mm	2mm	2mm	2mm	2mm	2mm	2mm
Spoke tension radial front Tension de rayon radial avant Speichenspannung radial vorne	-	-	-	1000 N	-	-	-	-	-
Spoke tension crossed max. Tension de rayon croisé max. Speichenspannung gekreuzt max.	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N	1200 N
Axle clamping force (min./max.) Couple de serrage sur l'axe (min./max.) Achsklemmkraft (min. / max.)	5000 N / 9000 N	5000 N / 9000 N	5000 N / 9000 N	4000 N / 9000 N	4000 N / 9000 N	4000 N / 9000 N	4000 N / 9000 N	4000 N / 9000 N	4000 N / 9000 N