

## GEOMETRY CHART (in millimeters)

Spoke holes diameter is 2.5mm (only important for J-Bend and Hooked Flange hubs).

Hub Type	SPOKE PCD Left Side	Center to Flange Left Side (Offset if StraightPull)	SPOKE PCD Right Side	Center to Flange Right Side (Offset if StraightPull)
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### V2 J-Bend Hubs

MTB IS 110x15	56	28	45	40
MTB IS 110x20	56	28	50	40
MTB IS 148x12	56	38	50	25
MTB IS 157x12	56	42,5	50	29,5
MTB CL 110x15	45	28	42	40
MTB CL 148x12	46	38	50	25
MTB CL 157x12	46	42,5	50	29,5
ROAD CL 100x12	43	23	40	35
ROAD CL 142x12	43	35	50	20,5

### V2 StraightPull Hubs

\*Cross pattern is 2x for 24h and 3x for 28h\*

MTB CL 110x15 28h	42	28 (1,50)	38	38 (1,50)
MTB CL 148x12 28h	42	36,5 (1,40)	49	23 (1,40)
MTB IS 110x15 28h	42	28 (1,50)	38	38 (1,50)
MTB IS 148x12 28h	42	36,5 (1,40)	49	23 (1,40)
ROAD CL 100x12 24h	42	23 (1,2)	36	33 (1,1)
ROAD CL 142x12 24h	42	34 (1,2)	49	18 (1,1)
ROAD CL 100x12 28h	42	23 (1,5)	36	33 (1,4)
ROAD CL 142x12 28h	42	34 (1,5)	49	18 (1,4)

### Hooked Flange Hubs\*

MTB CL 110x15	45	28	42	40
MTB CL 148x12	46	38	50	25
MTB IS 110x15	60	28	45	40
MTB IS 148x12	60	38	50	25
ROAD CL 100x12	43	23	40	35
ROAD CL 142x12	43	35	50	20,5

Please, use Berd spoke calculator and select the « Berd Hook Flange » option :

<https://berdspokes.com/pages/calculator>

**V1 Hubs**

MTB IS 100x15	56	23	45	35
MTB IS 142x12	56	35	50	22
MTB IS 110x15	56	28	45	40
MTB IS 148x12	56	38	50	25
ROAD CL 100x12	43	23	40	35
ROAD CL 142x12	43	35	50	20,5
ROAD 100xQR	36	39,5	36	39,5
ROAD 130xQR	40	35	50	18