



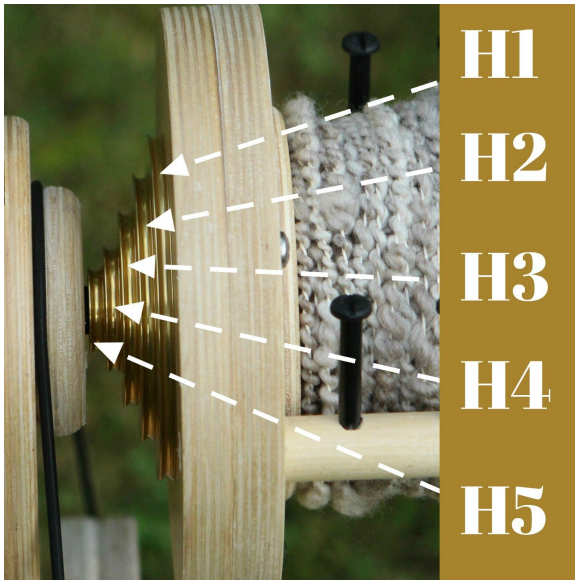
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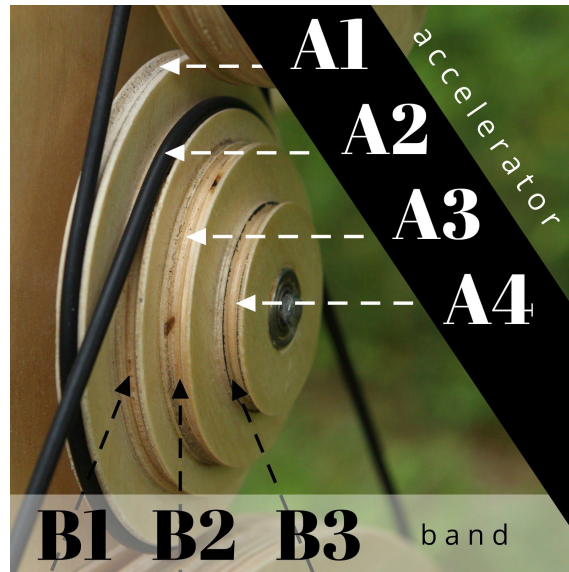
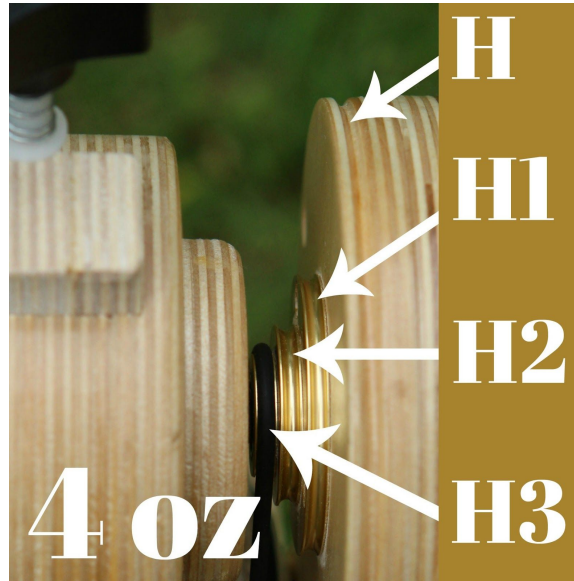


MONARCH
ratio guide



Accelerated Whorl Map

H = 4A Head Whorl (H1, H2, H3)
 A = Accelerator Whorl (A1, A2, A3, A4)
 B = Lower Band Placement (B1, B2, B3)



4A Accelerated Ratios

5-Speed Ratios

The ratios on the 8 oz, 16 oz, and 32 oz flyers are all the same.

Whorl	Ratio	Yarn
H1	1:6	Med
H2	1:7.5	Med
H3	1:10	Med
H4	1:15.5	Fine
H5	1:22.5	X-Fine

By Location		By Speed	
H1+A2+B3	1:28	H1+A2+B2	1:12
H1+A2+B2	1:33.5	H1+A2+B3	1:18
H2+A2+B3	1:52	H2+A2+B2	1:18
H2+A2+B2	1:26	H2+A1+B1	1:19
H2+A1+B3	1:39.5	H2+A1+B2	1:23
H2+A1+B2	1:19	H3+A2+B2	1:26
H2+A1+B1	1:23	H2+A2+B3	1:28
H3+A2+B3	1:35.5	H3+A1+B1	1:28
H3+A2+B2	1:18	H3+A1+B2	1:33.5
H3+A1+B3	1:28	H2+A1+B3	1:35.5
H3+A1+B2	1:12	H3+A2+B3	1:39.5
H3+A1+B1	1:18	H3+A1+B3	1:52

1 is largest, 2 is smaller, 3 is smallest
 Just like ratios, the smaller the whorl the larger the number

