

## 5-Gear Trains for the 8x12

nomenclature as in 8x12 diagrams					TPI	relative error (%)
B	C	D	E	F		
40	60	75	90	30	5	0
50	72	60	75	30	5	0
30	50	75	90	40	6	0
40	60	70	70	30	6	0
40	60	70	70	30	6	0
45	60	80	90	30	6	0
50	70	60	75	35	6	0
50	70	70	75	30	6	0
50	70	60	75	35	6	0
50	70	70	75	30	6	0
70	90	60	70	30	6	0
70	90	60	70	30	6	0
72	90	50	60	30	6	0
75	90	40	50	30	6	0
80	100	50	60	30	6	0
80	100	60	72	30	6	0
30	50	80	72	35	7	0
30	50	100	90	35	7	0
35	50	80	72	30	7	0
35	50	100	90	30	7	0
40	60	70	70	35	7	0
40	60	70	70	35	7	0
45	60	80	90	35	7	0
50	60	70	75	30	7	0
50	60	70	75	30	7	0
50	70	70	75	35	7	0
50	70	70	75	35	7	0
60	72	70	75	30	7	0
60	72	70	75	30	7	0
60	75	70	72	30	7	0
60	75	70	72	30	7	0
70	90	45	60	40	7	0
70	90	60	70	35	7	0
70	90	45	60	40	7	0
70	90	60	70	35	7	0
72	90	50	60	35	7	0
75	90	40	50	35	7	0
80	90	35	40	30	7	0
80	100	50	60	35	7	0
80	100	60	72	35	7	0
80	100	70	72	30	7	0
80	100	70	72	30	7	0
30	50	80	72	40	8	0
30	50	100	90	40	8	0
40	50	80	72	30	8	0
40	50	100	90	30	8	0
40	60	80	70	35	8	0
40	60	80	70	35	8	0
40	60	80	90	45	8	0
40	60	100	75	30	8	0
45	60	80	90	40	8	0
50	60	80	75	30	8	0
50	70	70	75	40	8	0

These pages list 5-gear trains possible on the 8x12 lathe

If you find any combinations that do not work, or have any other comments, please drop me a note ([richk@beautifulhandmadepens.com](mailto:richk@beautifulhandmadepens.com)) or if you have any other comments I filtered for the limits I'm aware of. Hope you find it useful!

All the gears are possible with the stock set of gears.

Limits applied:

1. max error 0.1% from integral pitch
2. Gears B-E pass each other when A and D are engaged
3. Gear train must reach idler under spindle
4. Upper shaft must fit in banjo slot

Gear B upper pair inside  
 Gear C upper pair outside  
 Gear D lower pair outside  
 Gear E lower pair inside  
 Gear F on lead screw

Error is defined as  $(ap - ip)/ip * 100$  and is in percent where  $ap$  = actual pitch  
 $ip$  = integer pitch

When a pitch with zero error exists, gear combinations that resulted in an error were suppressed

50	70	80	75	35	8	0
50	70	70	75	40	8	0
50	70	80	75	35	8	0
60	72	80	75	30	8	0
60	75	80	72	30	8	0
70	90	60	70	40	8	0
70	90	80	70	30	8	0
70	90	60	70	40	8	0
70	90	80	70	30	8	0
72	90	50	45	30	8	0
72	90	50	60	40	8	0
80	90	70	70	30	8	0
80	90	70	70	30	8	0
80	100	30	45	50	8	0
80	100	50	45	30	8	0
80	100	50	60	40	8	0
80	100	60	72	40	8	0
30	45	72	80	50	9	0
30	45	90	70	35	9	0
30	45	90	70	35	9	0
30	45	90	80	40	9	0
30	45	90	100	50	9	0
30	50	75	90	60	9	0
30	50	80	72	45	9	0
30	50	90	72	40	9	0
30	50	100	70	35	9	0
30	50	100	70	35	9	0
30	50	100	80	40	9	0
30	50	100	90	45	9	0
35	45	90	70	30	9	0
35	45	90	70	30	9	0
35	50	75	70	40	9	0
35	50	75	70	40	9	0
35	50	100	70	30	9	0
35	50	100	70	30	9	0
40	45	90	80	30	9	0
40	50	75	70	35	9	0
40	50	75	70	35	9	0
40	50	90	72	30	9	0
40	50	100	80	30	9	0
40	60	70	70	45	9	0
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40	60	72	80	50	9	0
40	60	90	70	35	9	0
40	60	90	70	35	9	0
45	50	80	72	30	9	0
45	50	100	90	30	9	0
45	60	70	70	40	9	0
45	60	70	70	40	9	0
45	60	80	70	35	9	0
45	60	80	70	35	9	0
45	60	100	75	30	9	0
50	60	72	70	35	9	0
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50	60	90	75	30	9	0
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50	70	70	75	45	9	0
50	70	72	60	35	9	0
50	70	90	75	35	9	0

60	72	45	50	40	9	0
60	72	90	75	30	9	0
60	75	90	72	30	9	0
60	75	100	80	30	9	0
60	80	70	70	40	9	0
60	80	70	70	40	9	0
60	80	100	75	30	9	0
70	90	30	35	45	9	0
70	90	45	35	30	9	0
70	90	60	70	45	9	0
70	90	30	35	45	9	0
70	90	45	35	30	9	0
70	90	60	70	45	9	0
72	80	50	45	30	9	0
72	90	30	40	50	9	0
72	90	50	40	30	9	0
72	90	50	60	45	9	0
72	90	75	60	30	9	0
72	90	75	70	35	9	0
72	90	75	70	35	9	0
72	90	75	80	40	9	0
75	90	40	50	45	9	0
75	90	45	50	40	9	0
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75	90	72	60	30	9	0
75	90	72	70	35	9	0
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80	100	30	40	50	9	0
80	100	45	60	50	9	0
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80	100	60	72	45	9	0
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