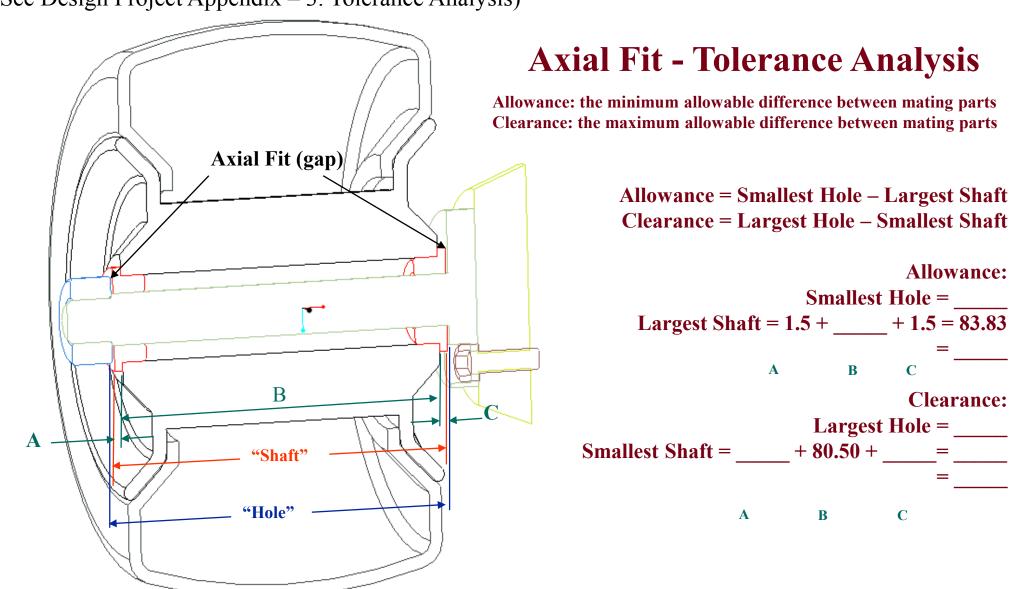
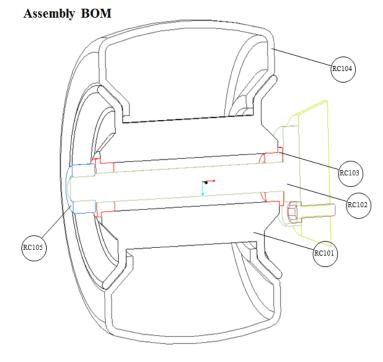
## Lecture Class Assignment #12 Axial Tolerances, Fits and Limits

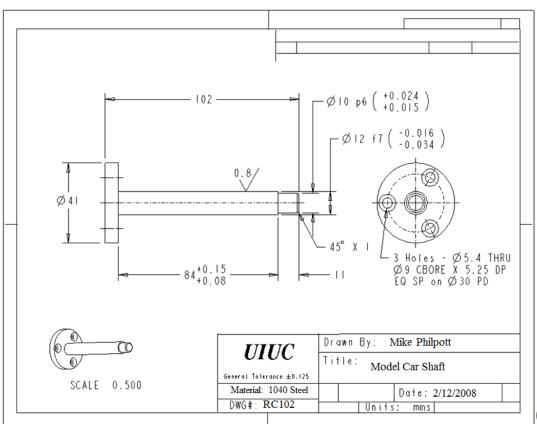
Note: This is the type of analysis I want you to do for your design projects (See Design Project Appendix – 3. Tolerance Analysis)

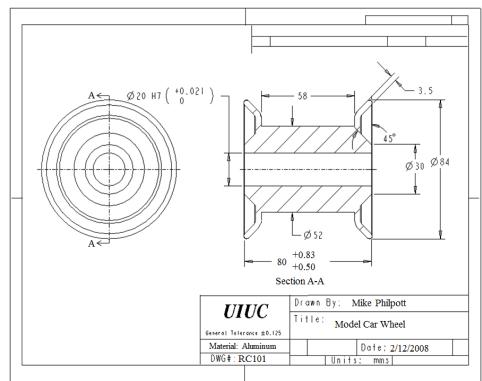
Name: Section:

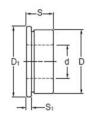


- 1. What is the axial 'allowance' between the wheel subassembly and the shaft \_\_\_\_\_
- 2. What is the axial 'clearance' between the wheel subassembly and the shaft \_\_\_\_\_













## FEATURES:

- Economical replacement for ball bearings.
  Dimensioned to be readily interchangeable with comparable ball bearings.

MATERIAL: Porous Sintered Bronze LUBRICATION: Vacuum impregnated with oil

## SPECIFICATIONS:

O.D. concentric to bore within 0.005 mm. Faces square to bore within 0.008 mm.

$$Load = \frac{Load Speed Rating}{rpm} = Newtons$$

Catalog Number	Shaft Size h6	d Bore H7	D h6	S - 0.17 Width	D <sub>1</sub> Flange Dia. h14	S <sub>1</sub> - 0.05 Flange Width	Load Speed Rating N • rpm
S99BP4MFB030625			6	2.5	8	0.5	84000
S99BP4MFB030830	3	3	8	3	10	0.5	100000
S99BP4MFB031040			10	4	12	1	134000
S99BP4MFB040840	4	4	8	4	10	1	134000
S99BP4MFB051050			10	5	12		167000
S99BP4MFB051240	5	5	12	4	14	1	134000
\$99BP4MFB051350			13	5	14		167000
S99BP4MFB061050	6	6	10	5	12	4	167000
S99BP4MFB061650	0	0	16	5	18	1.	10/000
S99BP4MFB081660	8	8	16	6	18	1	200000
S99BP4MFB101970	10	10	19	7	21	1.5	220000
> \$99BP4MFB122080	12	12	20	8	22	1.5	220000

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