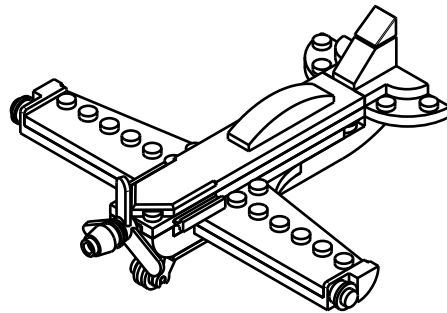
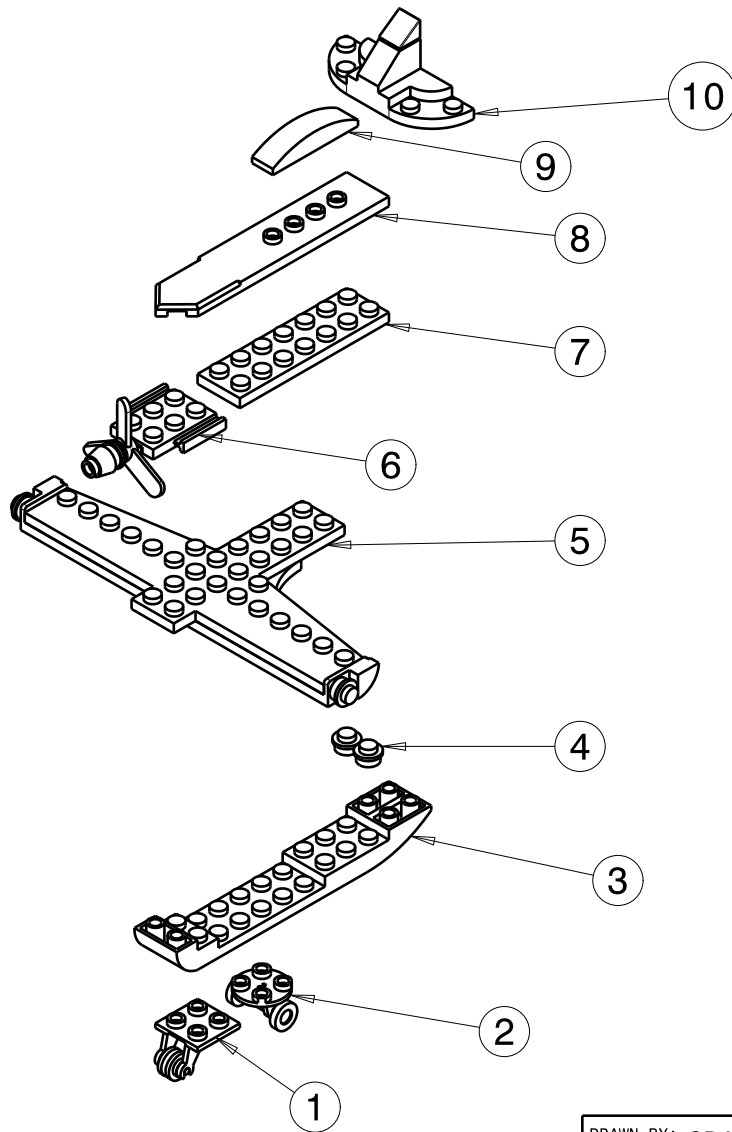




DRAWN BY: GRAYSEN BRINKMAN		 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING	
REVIEWED BY: PROF. ACEVEDO			
MODELED BY: GRAYSEN BRINKMAN		DRAWING TITLE: LEGO ICONIC RED PLANE ASSEMBLY - ISOMETRIC VIEW	
UNITS: MM	SCALE: 1:2	DATE: 04/17/2025	SHEET: 01/09



10	TAIL	1	PLASTIC
09	WINDOW	1	PLASTIC
08	BASE TOP	1	PLASTIC
07	BASE MIDDLE	1	PLASTIC
06	PROPELLER SUBASSEMBLY	1	PLASTIC
05	WING SUBASSEMBLY	1	PLASTIC
04	STUD	2	PLASTIC
03	BASE BOTTOM	1	PLASTIC
02	BACK WHEEL SUBASSEMBLY	1	PLASTIC
01	FRONT WHEEL SUBASSEMBLY	1	PLASTIC
PART #	DESCRIPTION	QTY	MAT'L

DRAWN BY: GRAYSEN BRINKMAN

REVIEWED BY: PROF. ACEVEDO

MODELED BY: GRAYSEN BRINKMAN

UNITS: MM



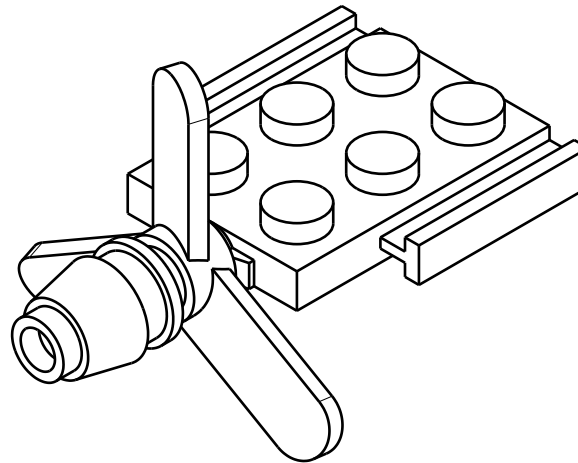
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY
COLLEGE OF ENGINEERING

DRAWING TITLE: LEGO ICONIC RED PLANE
ASSEMBLY - EXPLODE VIEW

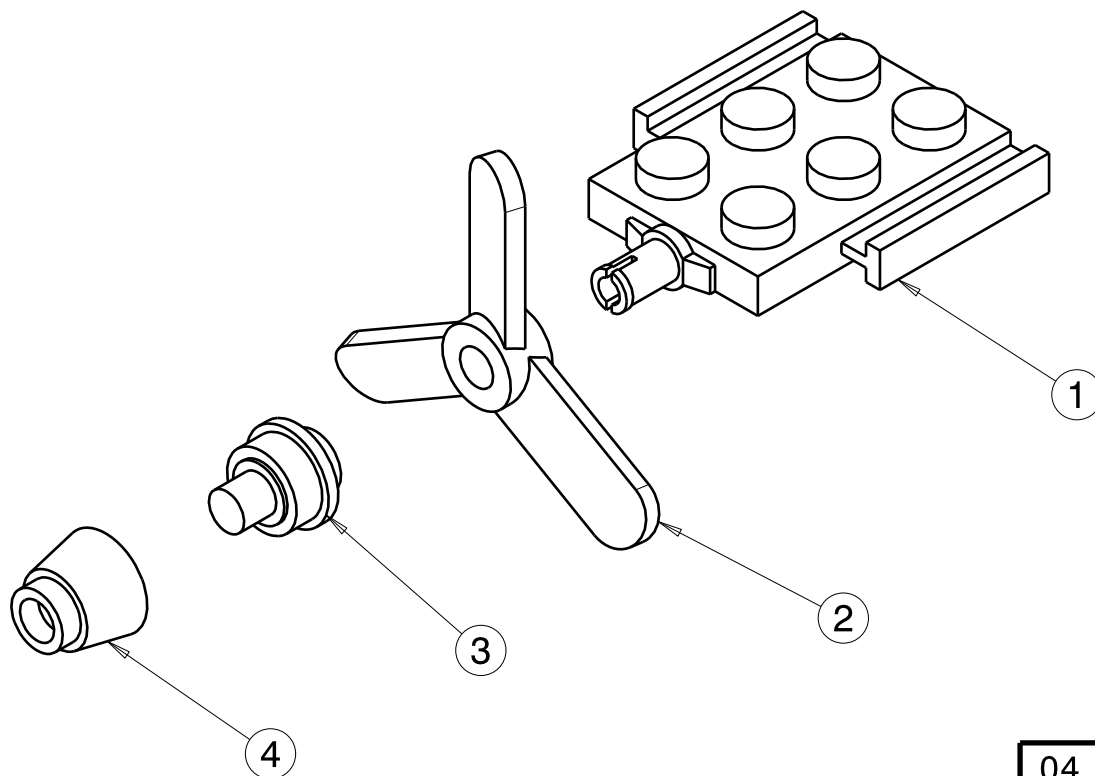
SCALE: 1:2

DATE: 04/17/2025

SHEET: 02/09

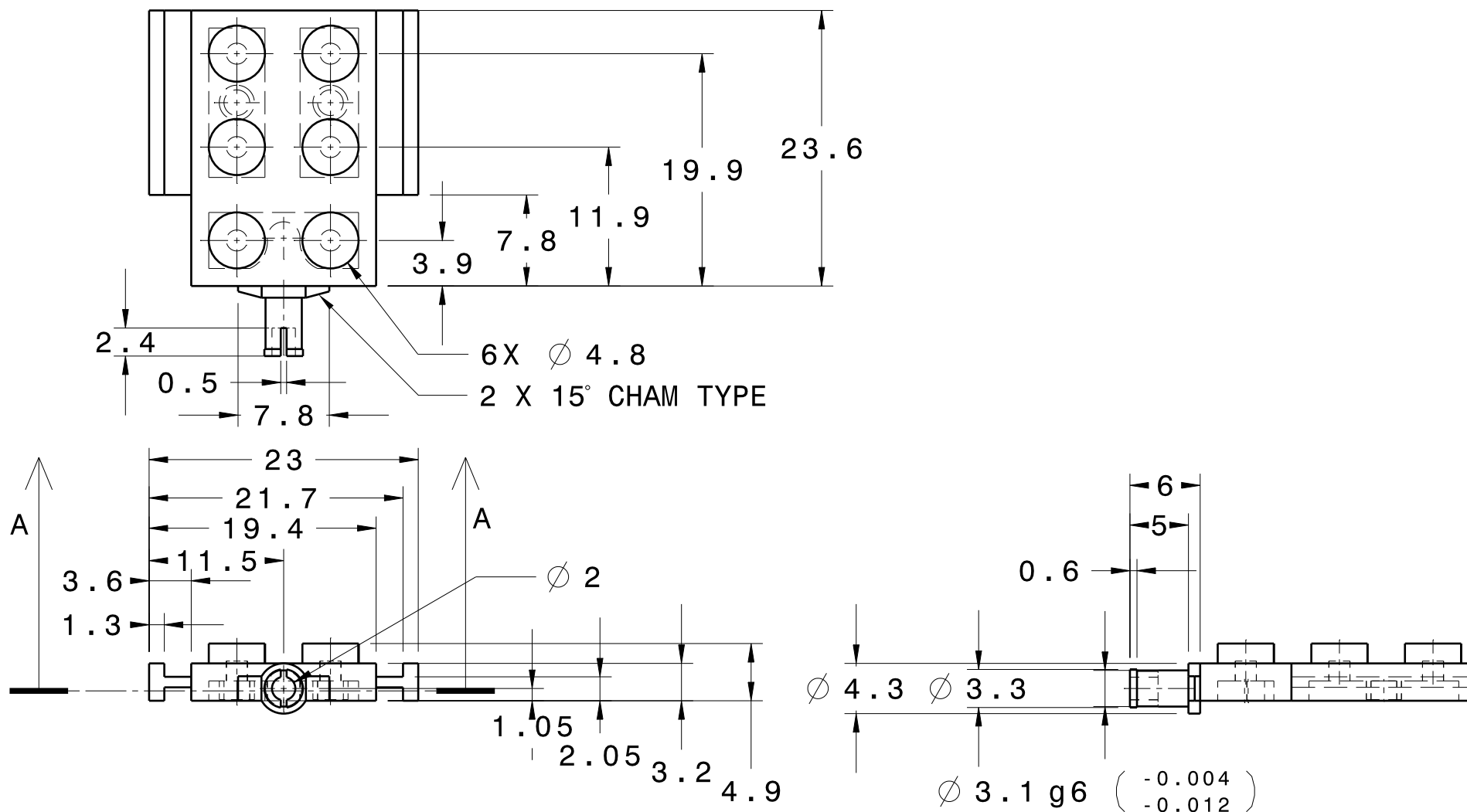


DRAWN BY: GRAYSEN BRINKMAN	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING		
REVIEWED BY: PROF. ACEVEDO			
MODELED BY: GRAYSEN BRINKMAN	DRAWING TITLE: PROPELLER SUBASSEMBLY - ISOMETRIC VIEW		
UNITS: MM	SCALE: 2:1	DATE: 04/17/2025	SHEET: 03/09



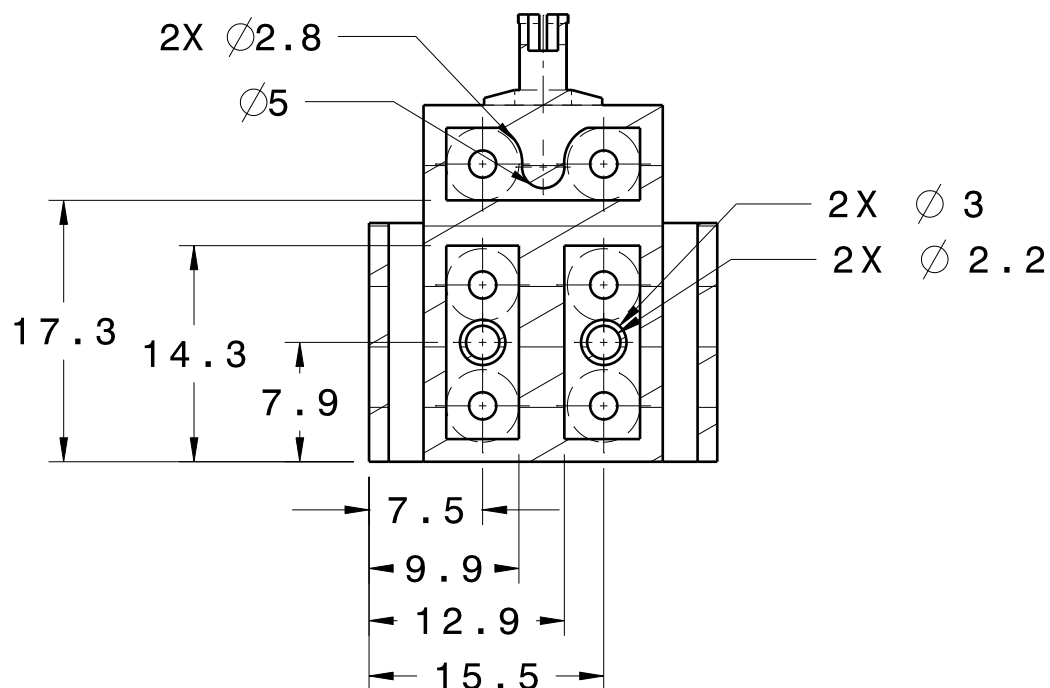
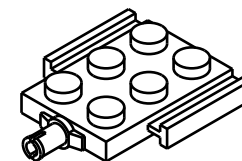
04	NOSECONE	1	PLASTIC
03	NOSECONE PIN	1	PLASTIC
02	PROPELLER	1	PLASTIC
01	PROPELLER HOLDER	1	PLASTIC
PART #	DESCRIPTION	QTY	MAT'L

DRAWN BY: GRAYSEN BRINKMAN	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING		
REVIEWED BY: PROF. ACEVEDO			
MODELED BY: GRAYSEN BRINKMAN	DRAWING TITLE: PROPELLER SUBASSEMBLY - EXPLODE VIEW		
UNITS: MM			
SCALE: 2:1	DATE: 04/17/2025	SHEET: 04/09	



PROPELLER HOLDER AND PROPELLER REQUIRE CLEARANCE - SLIDING (H7/g6)
BECAUSE TWO PARTS NEED TO MOVE WITH RESPECT TO EACH OTHER WITHOUT DETACHING.

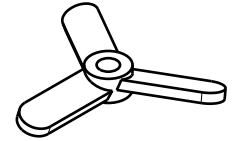
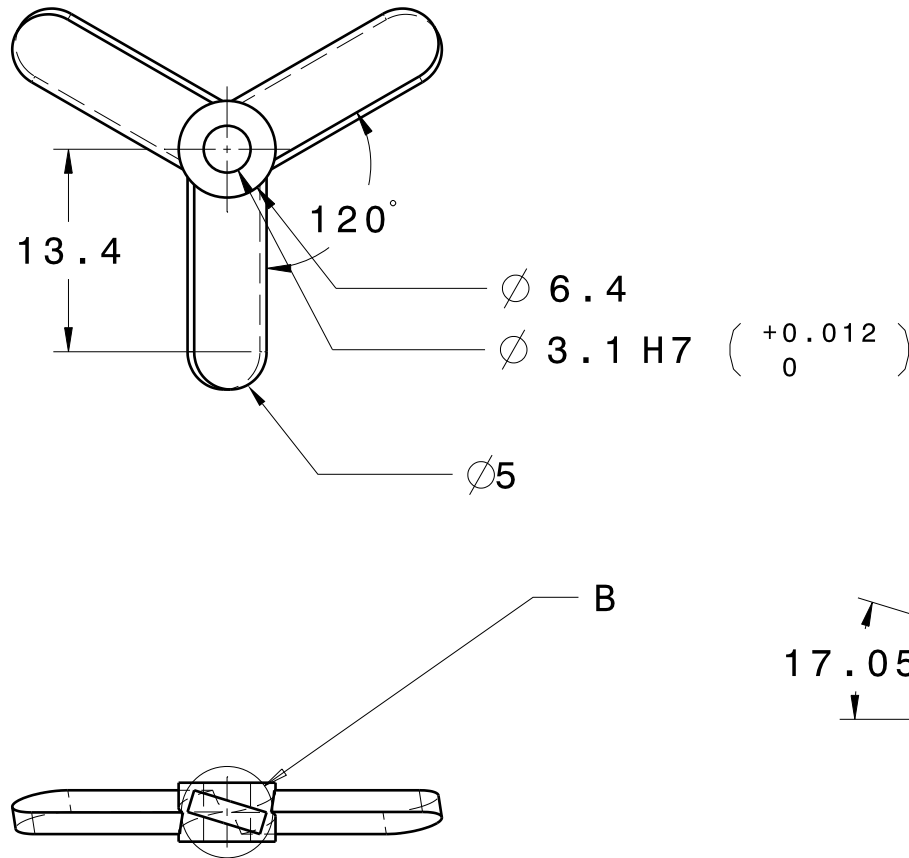
DIMENSION TOLERANCE	DRAWN BY: GRAYSEN BRINKMAN	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING		
DECIMAL:	REVIEWED BY: PROF. ACEVEDO			
± .1	MODELED BY: GRAYSEN BRINKMAN	DRAWING TITLE: 01 - PROPELLER HOLDER		
ANGULAR:				
± 1°	UNITS: MM	SCALE: 2:1	DATE: 04/17/2025	SHEET: 05/09



SECTION VIEW A-A

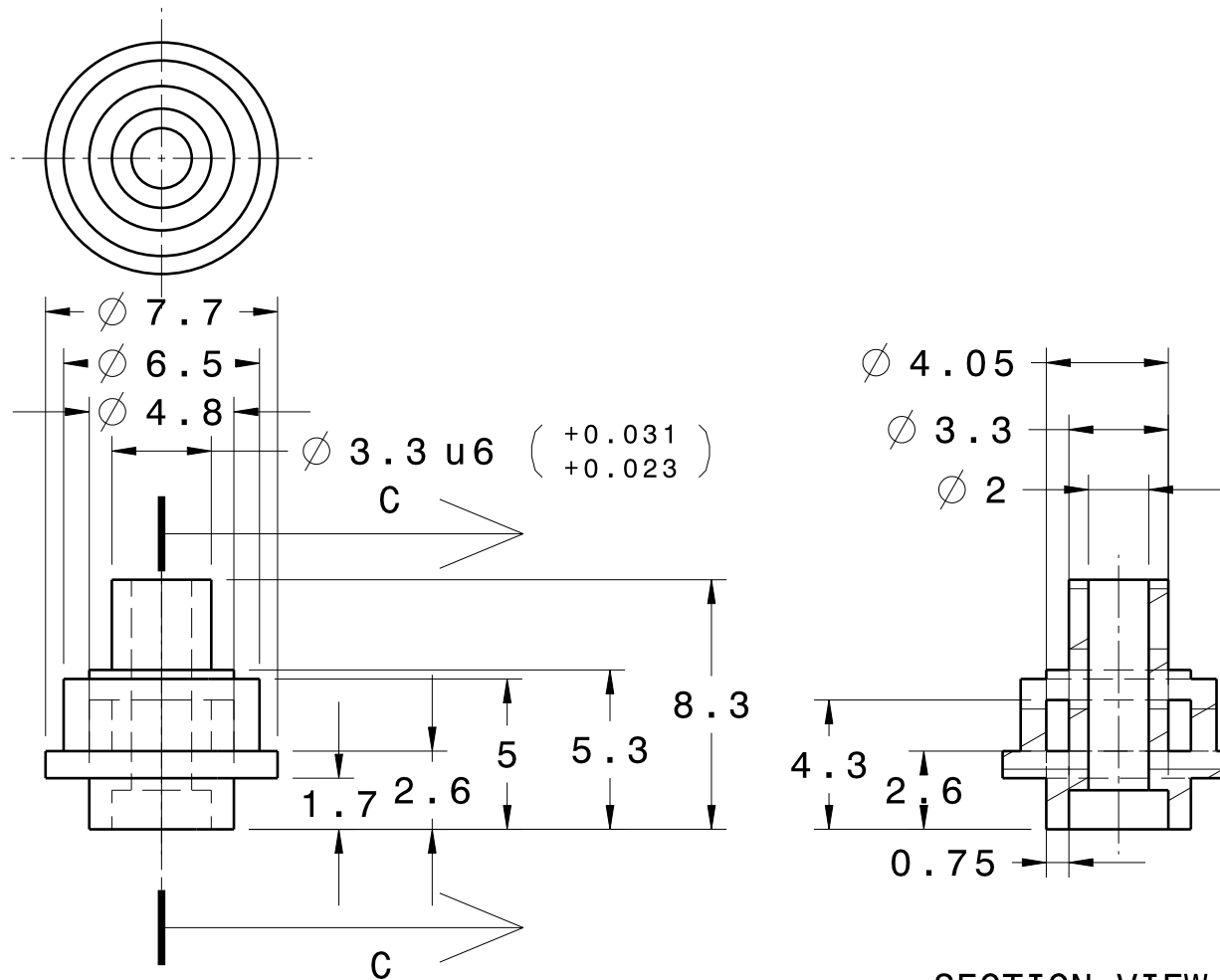
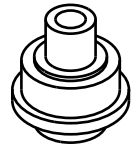
NOTE:
SHELL THICKNESS = 1.5MM

DIMENSION TOLERANCE	DRAWN BY: GRAYSEN BRINKMAN	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING		
DECIMAL:	REVIEWED BY: PROF. ACEVEDO			
± .1	MODELED BY: GRAYSEN BRINKMAN	DRAWING TITLE: 01 - PROPELLER HOLDER		
ANGULAR:				
± 1°	UNITS: MM	SCALE: 2:1	DATE: 04/17/2025	SHEET: 06/09



PROPELLER HOLDER AND PROPELLER REQUIRE CLEARANCE - SLIDING (H7/g6)
BECAUSE TWO PARTS NEED TO MOVE WITH RESPECT TO EACH OTHER WITHOUT DETACHING.

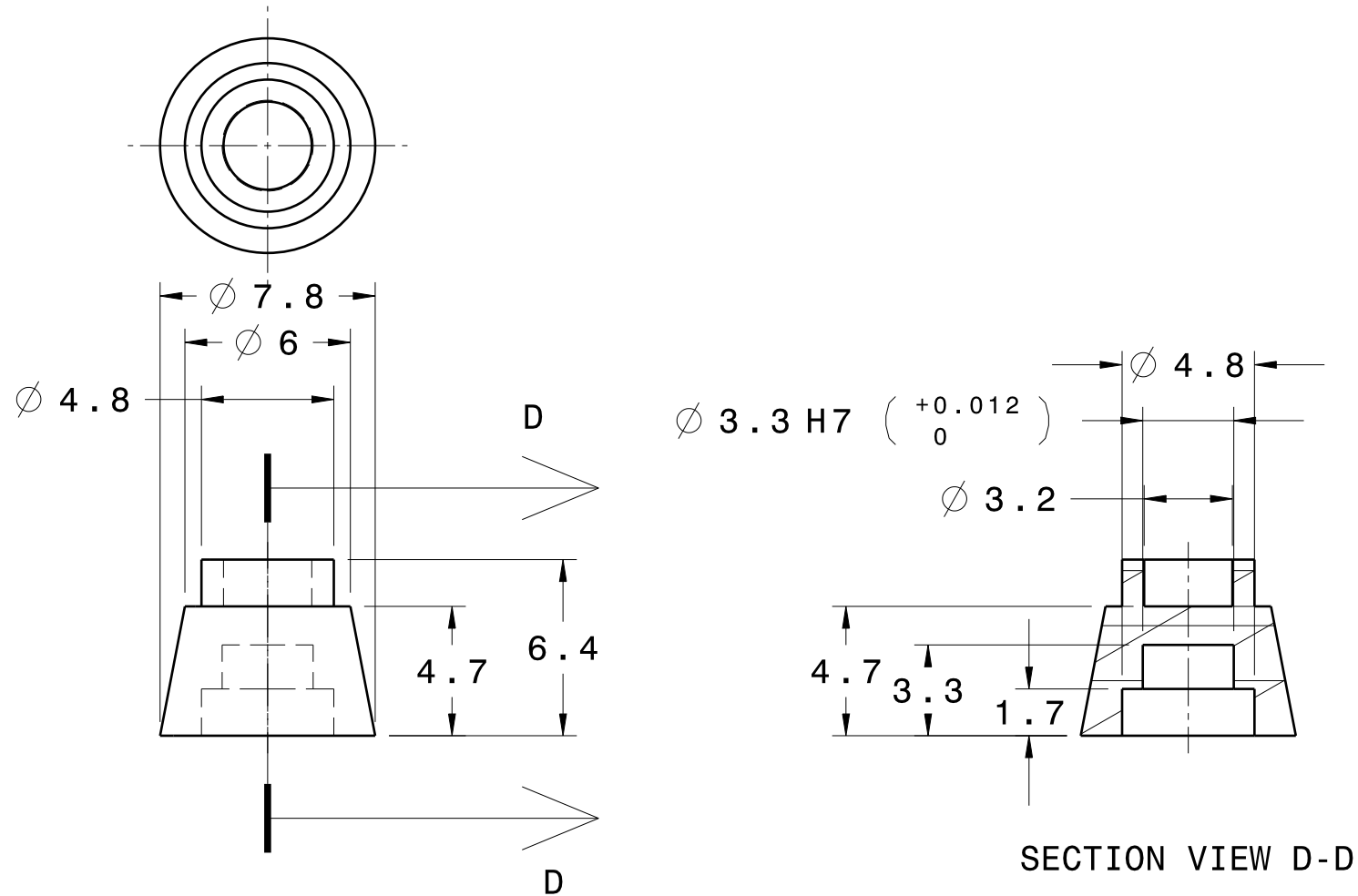
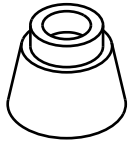
DIMENSION TOLERANCE	DRAWN BY: GRAYSEN BRINKMAN	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING		
DECIMAL:	REVIEWED BY: PROF. ACEVEDO			
± .1	MODELED BY: GRAYSEN BRINKMAN	DRAWING TITLE: 02 - PROPELLER		
ANGULAR:				
± 1°	UNITS: MM	SCALE: 2:1	DATE: 04/17/2025	SHEET: 07/09



SECTION VIEW C-C

NOSECONE PIN AND NOSECONE REQUIRE INTERFERENCE - FORCE (H7/u6)
BECAUSE TWO PARTS NEED TO STAY IN PLACE UNDER LOADING.

DIMENSION TOLERANCE	DRAWN BY: GRAYSEN BRINKMAN	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING		
DECIMAL:	REVIEWED BY: PROF. ACEVEDO			
± .1	MODELED BY: GRAYSEN BRINKMAN	DRAWING TITLE: 03 - NOSECONE PIN		
ANGULAR:				
± 1°	UNITS: MM	SCALE: 4:1	DATE: 04/17/2025	SHEET: 08/09



NOSECONE PIN AND NOSECONE REQUIRE INTERFERENCE - FORCE (H7/u6)
BECAUSE TWO PARTS NEED TO STAY IN PLACE UNDER LOADING.

DIMENSION TOLERANCE	DRAWN BY: GRAYSEN BRINKMAN	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY COLLEGE OF ENGINEERING		
DECIMAL:	REVIEWED BY: PROF. ACEVEDO			
$\pm .1$	MODELED BY: GRAYSEN BRINKMAN	DRAWING TITLE:		
ANGULAR:		04 - NOSECONE		
$\pm 1^\circ$	UNITS: MM	SCALE: 4:1	DATE: 04/17/2025	SHEET: 09/09