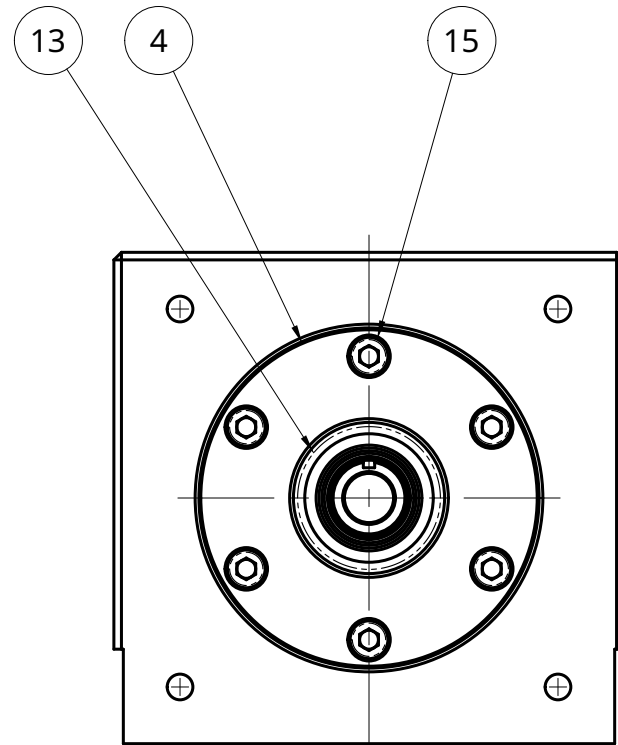
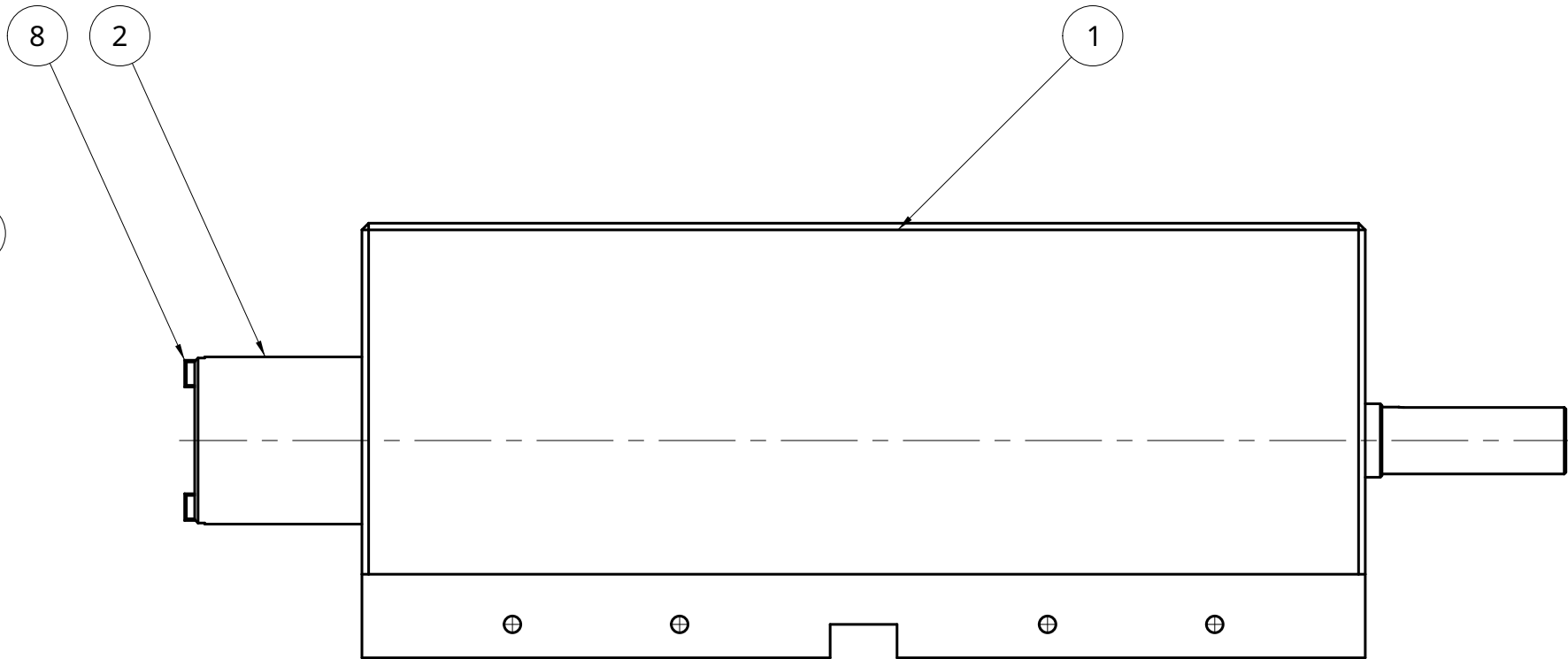
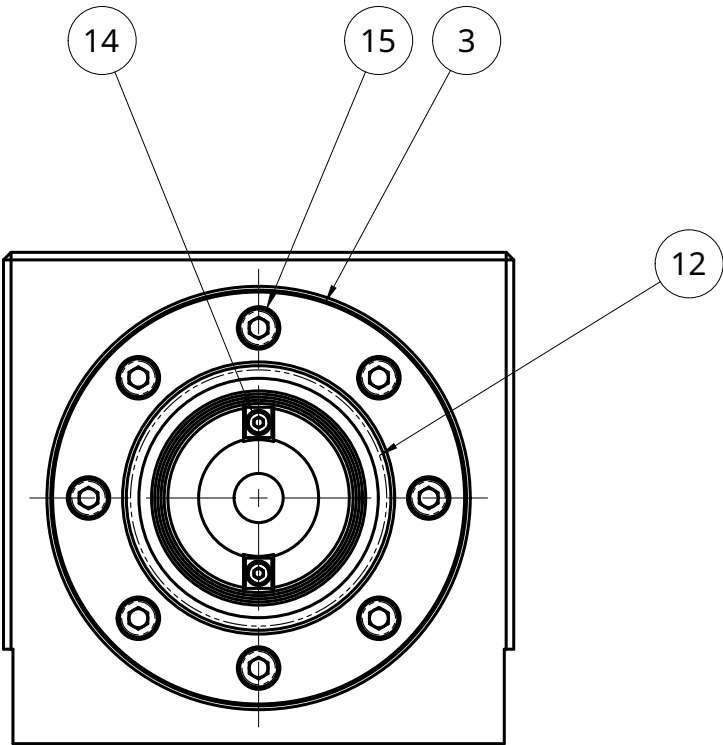
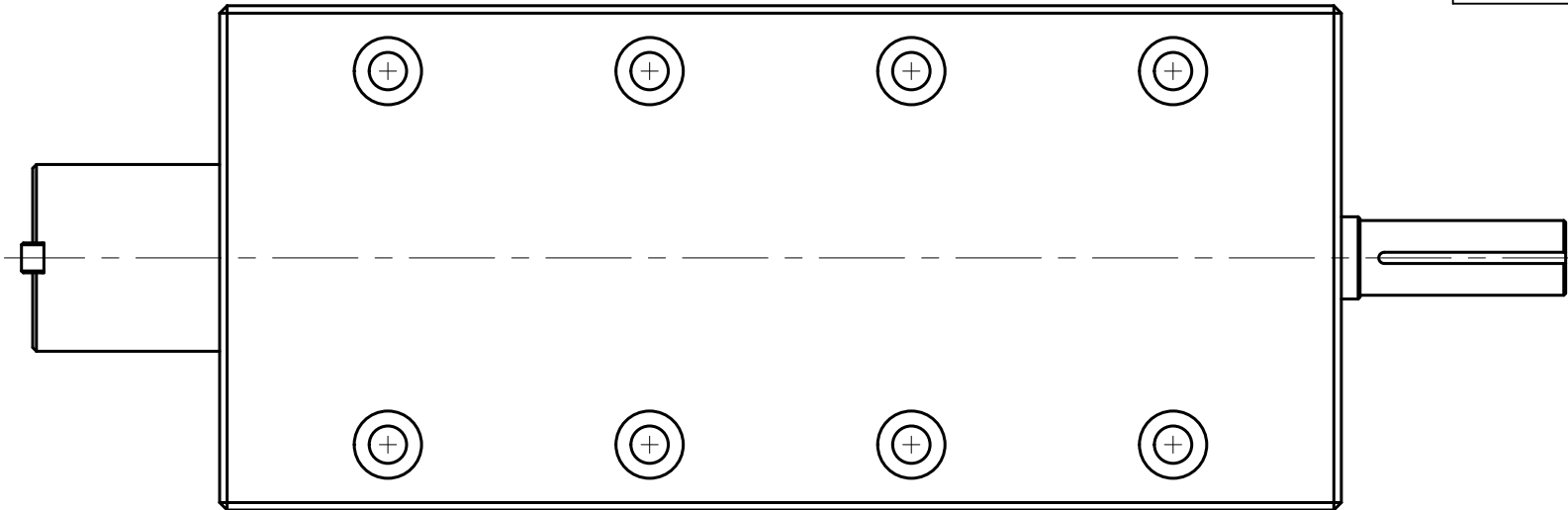

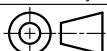


Item No.	Quantity	Description	Material	Part number
1	1	Spindle Housing	Cast iron	BR-549-A-001
2	1	Spindle Shaft	Steel 8620	BR-549-A-002
3	1	Front Bearing Stop	Steel 4130	BR-549-A-003
4	1	Rear Bearing Sleeve	Steel 4130	BR-549-A-004
5	1	Inner Bearing Spacer	Steel 1020	BR-549-A-005
6	1	Front Fitting Spacer	Steel 1020	BR-549-A-006
7	1	Rear Fitting Spacer	Steel 1020	BR-549-A-007
8	2	Anti-Rotate Key	Steel 4130	BR-549-A-008
9	2	Bearing Asm 7306BTN1CN Timken	N/A	
10	1	Bearing Asm 7305BTN1CN Timken	N/A	
11	1	Locknut KVT GUK 25x1.5	Steel	
12	1	Seal SKF 50x70x10 HMSA10 V	Steel	
13	1	Seal SKF 22x40x10 HMSA10 V	Steel	
14	2	M3 x 6 Hex socket head cap screw	Steel	
15	14	M6 x 25 Hex socket head cap screw	Steel	



SEE SHEET 2 FOR A FULL FRONT SECTION VIEW

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01- .XXX = ±.001- .XXXX = ±.0001- SURFACE FINISH 				NAME	DATE	Ferris State University	
				DRAWN	BRIAN BRADY		
				CHECKED			
				APPROVED		TITLE	
DO NOT SCALE DRAWING						DRILL UNIT SPINDLE ASSEMBLY BOM AND STANDARD VIEWS	
BREAK ALL SHARP EDGES AND REMOVE BURRS						SIZE	DWG NO.
THIRD ANGLE PROJECTION 				MATERIAL	VOLUME	C	BR-549-A
					XXXXX mm ³	SCALE	1:2
						WEIGHT	X.XXX kg
						SHEET	1 of 3

D

C

B

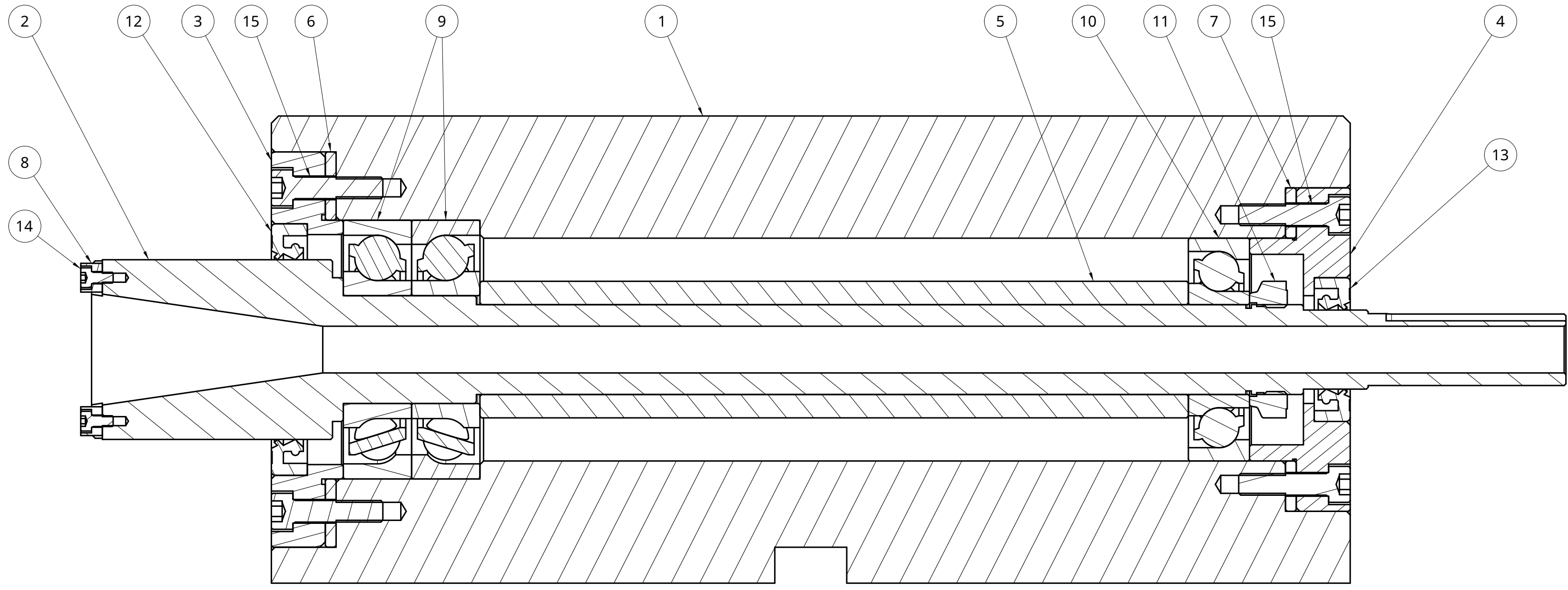
A

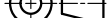
D

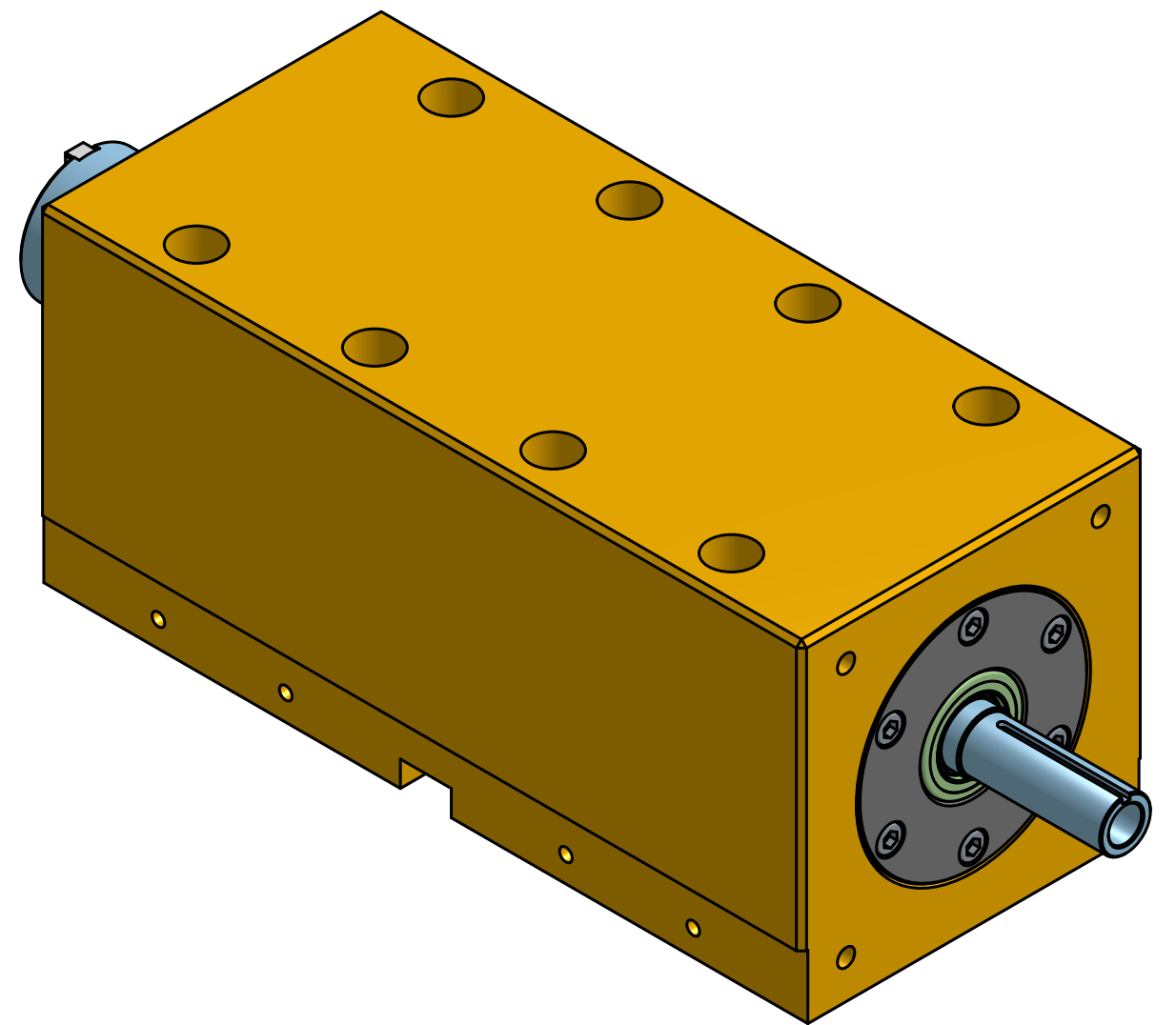
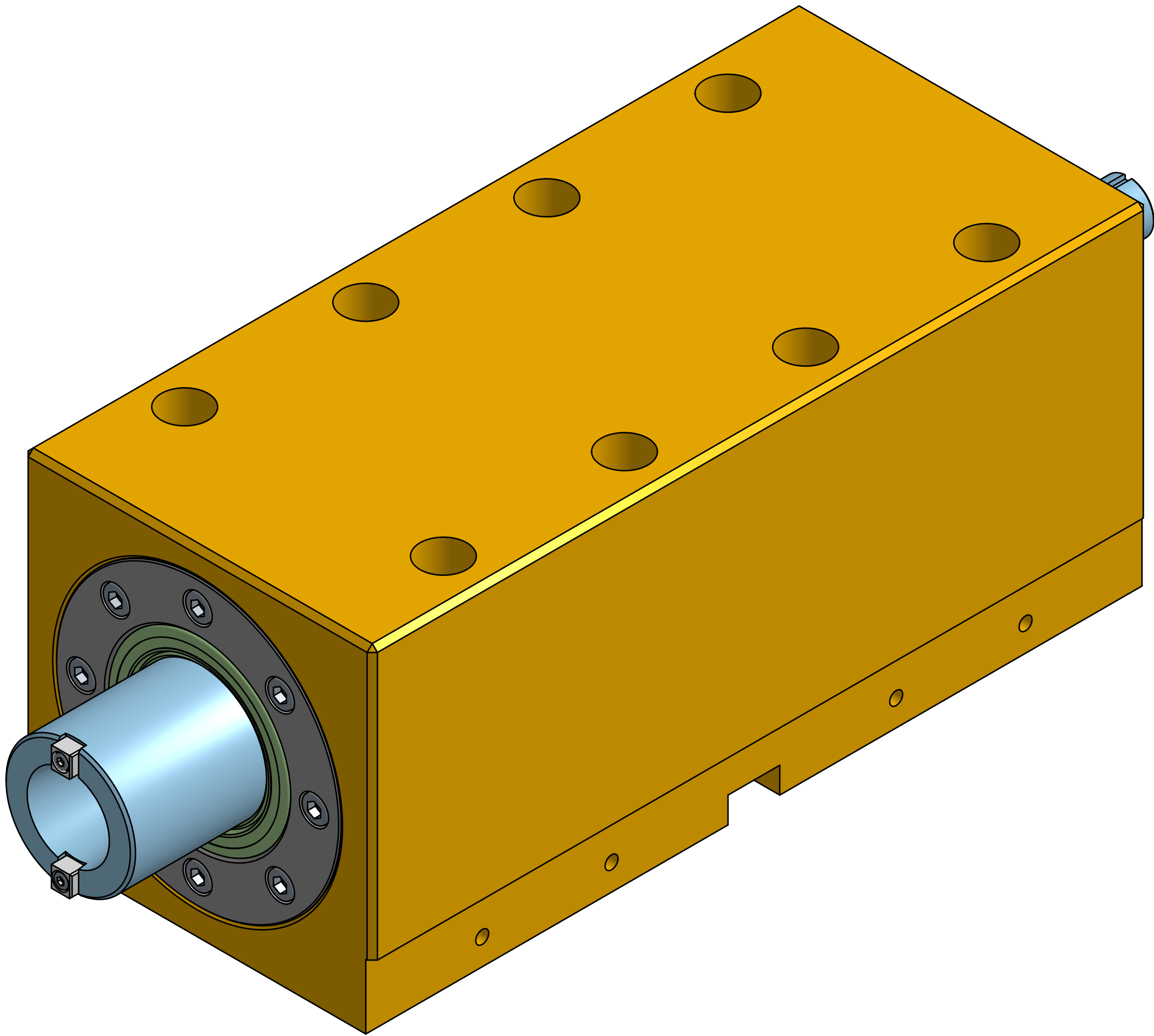
C



B

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XXX = ±.01- .XXXX = ±.001- SURFACE FINISH ✓ DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS THIRD ANGLE PROJECTION 	NAME		DATE		Ferris State University DRILL UNIT SPINDLE ASSEMBLY FULL FRONT SECTION VIEW						
	DRAWN		BRIAN BRADY						10/15/2019		
	CHECKED								TITLE		
	APPROVED										
MATERIAL		VOLUME		C		DWG NO.		BR-549-A		REV.	
		XXXXXX mm³		SCALE		1:1		WEIGHT		X.XXX kg	
								SHEET		2 of 3	



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01- .XXX = ±.001- .XXXX = ±.0001- SURFACE FINISH 		NAME BRIAN BRADY		DATE 10/15/2019		FERRIS STATE UNIVERSITY	
DO NOT SCALE DRAWING		DRAWN		CHECKED		TITLE DRILL UNIT SPINDLE ASSEMBLY SHADED ISOMETRIC VIEWS	
BREAK ALL SHARP EDGES AND REMOVE BURRS		APPROVED		MATERIAL		SIZE C	
THIRD ANGLE PROJECTION 		VOLUME XXXXX mm³		SCALE 1:3		WEIGHT X.XXX kg	
				SHEET 3 of 3		REV.	