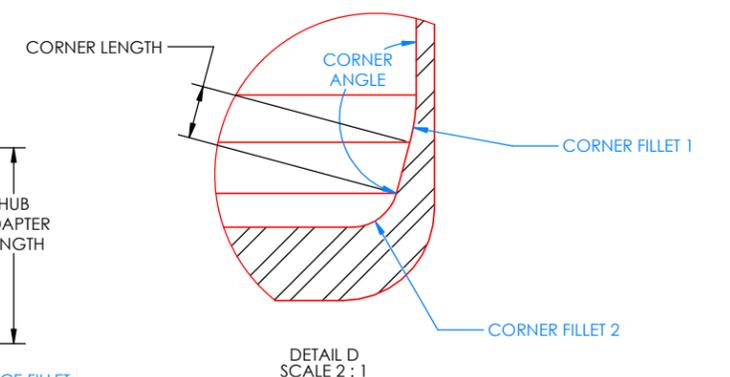
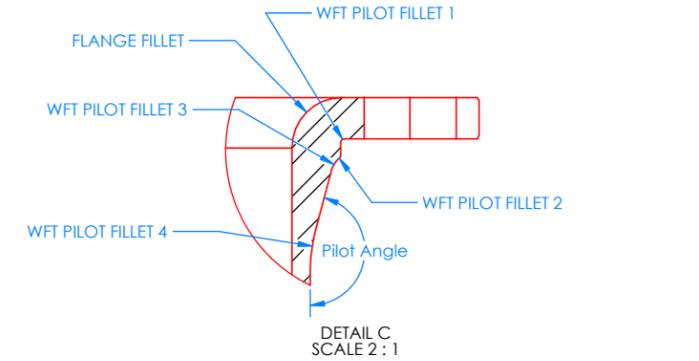
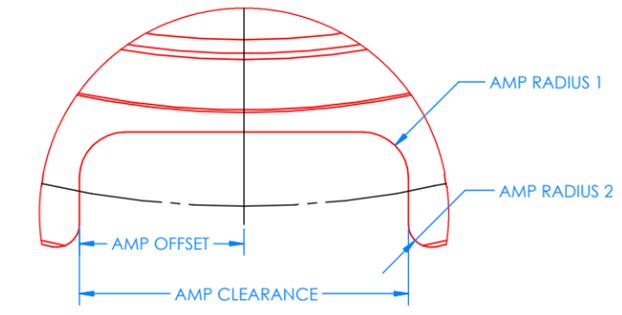
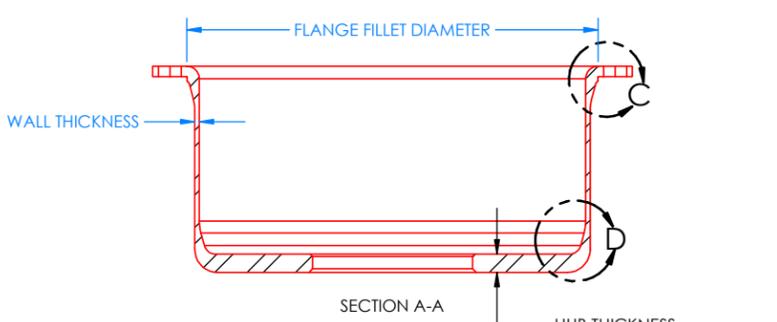
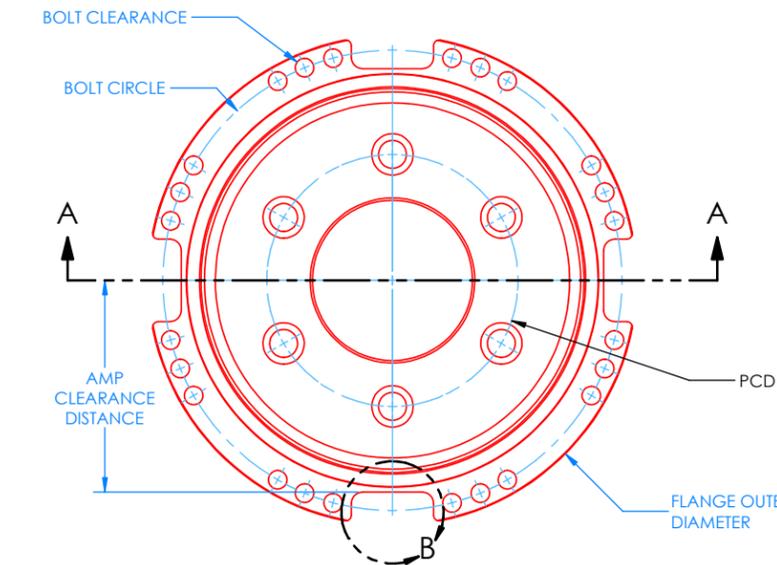
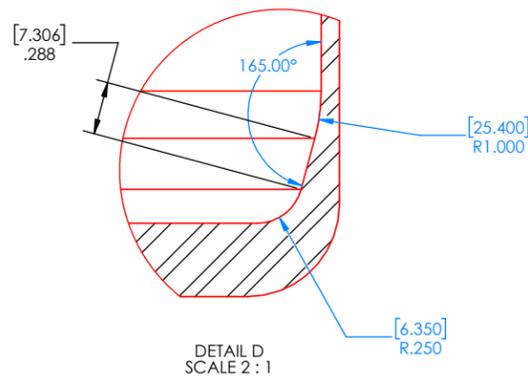
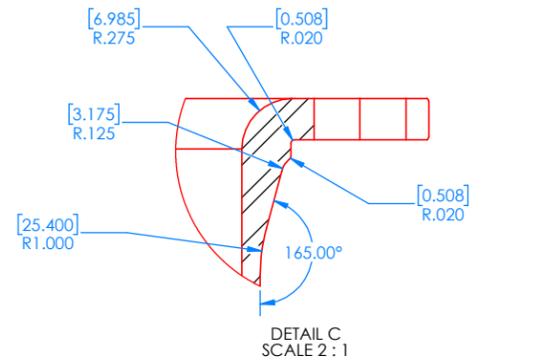
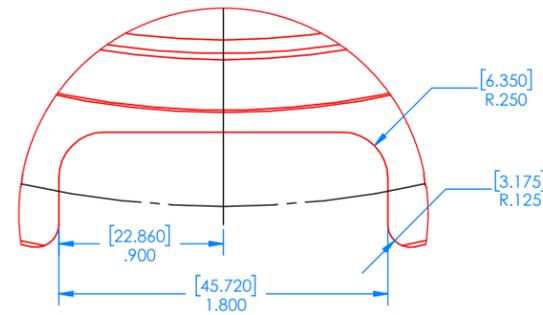
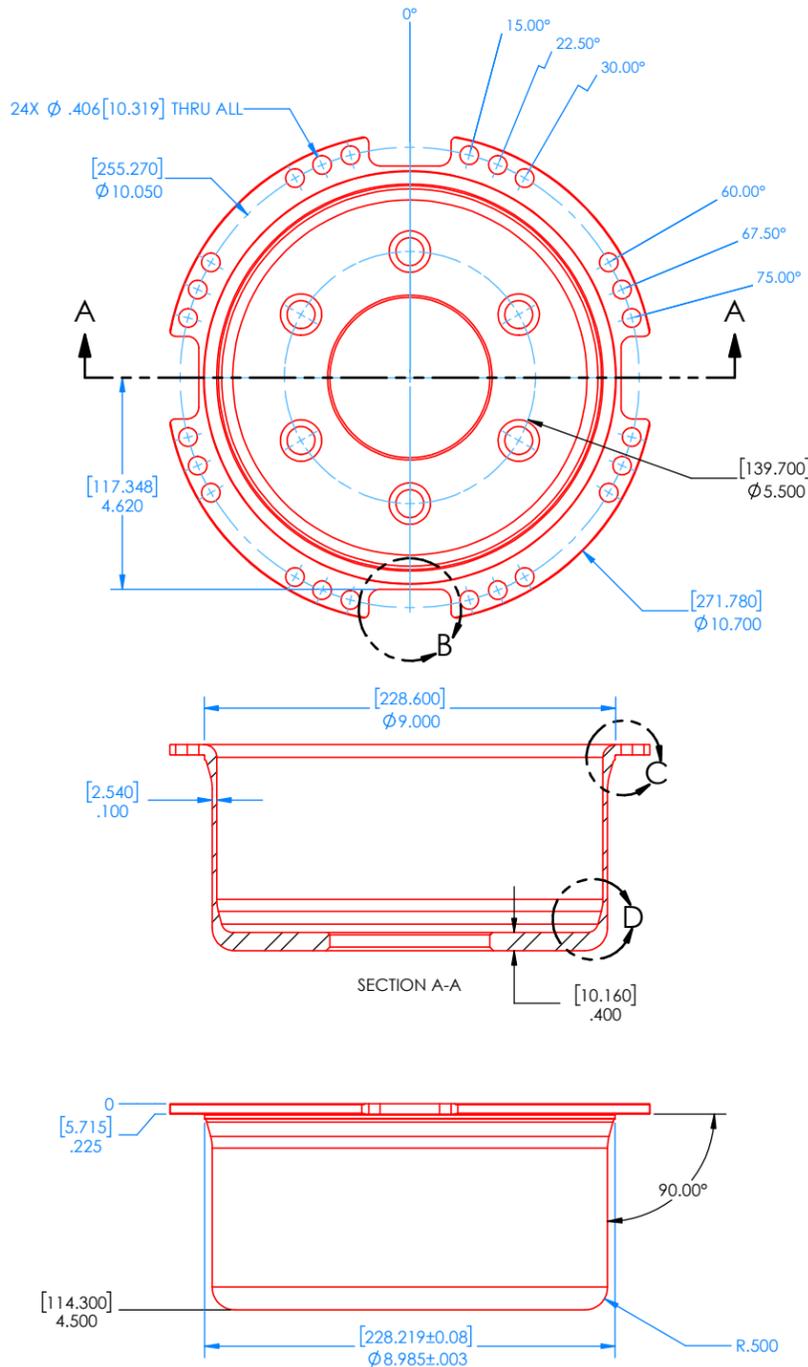


LW65 Hub Adapter Design Guide

Note: Blue dimension are CRITICAL and CANNOT change. Black dimensions can change.



It is essential that the adapters match the recommended guidelines. This will ensure the system can withstand the rated loads and provide the most accurate results. The critical features are shown in blue. Customers may change all other geometry. Examples of permitted changes are shown on the second sheet.

The "HUB THICKNESS" should not be less than 0.400 in (10.160 mm).

Detail D shows geometry that reduces the material stresses to increase the adapter fatigue life.

Michigan Scientific Corporation (MSC) machines hub adapters from 17-4 H1100 stainless steel. This material provides good insulation from brake heat. Alloy steels can be used but they will conduct brake heat more than the stainless steel. The material should have a yield strength of at least 890 MPa (130 ksi) and a hardness between 32 and 45 HRC.

MSC verifies all rim and hub adapter assemblies using FEA to simulate the SAE J328 wheel durability standard. This should be done with all adapter systems to verify the load ratings and fatigue life of the adapters. A LW65 transducer has a SAE J328 static load rating of 2900 lb (1320 kg). This should never be exceeded.

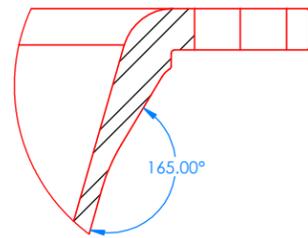
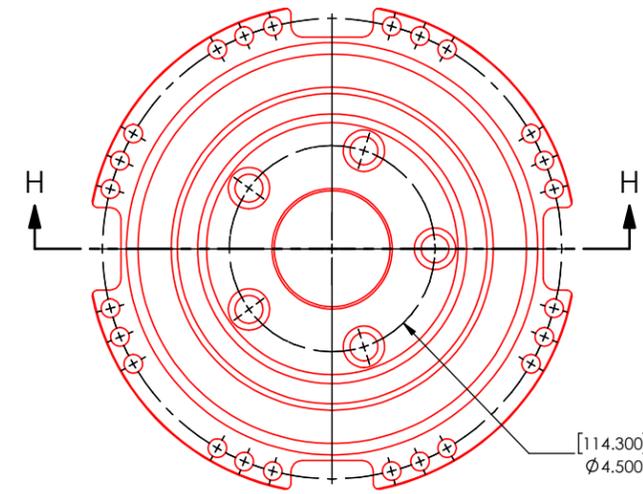
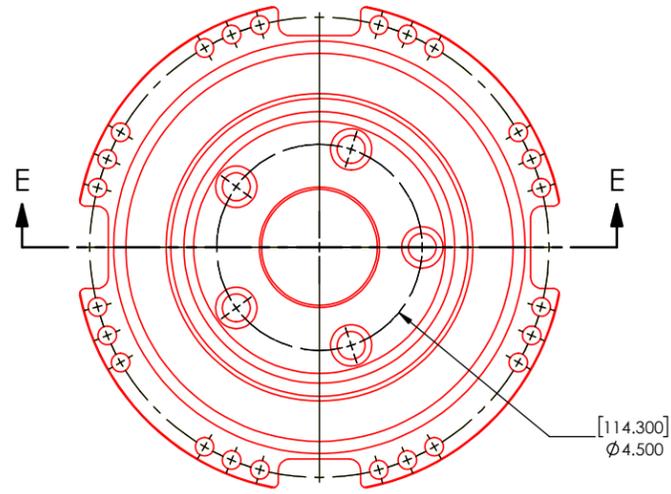
MSC can check your adapter designs at no cost. Contact MSC online at michsci.com/contact-us or via phone at 1-231-547-5511.

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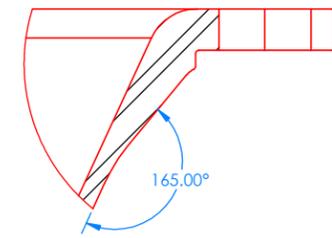
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: XXX ±.005 XX ±.010 X ±.015 FRACTIONAL: BEND: WEIGHT:		DATE: 09/01/20 NAME: JPSaley	MICHIGAN SCIENTIFIC CORPORATION 8500 ANCE ROAD CHARLEVOIX, MICHIGAN 49720 www.michsci.com
CHECKED: - ENG APPR: - MFG APPR: -	PRODUCT LINE: LW65	CUSTOMER CODE: - PROJECT CODE: -	DESCRIPTION: Hub Adapter Design Guide
MATERIAL: 17-4 H1100 FINISH: -	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MICHIGAN SCIENTIFIC CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MICHIGAN SCIENTIFIC CORPORATION IS PROHIBITED.	SIZE: D DWG. NO.: LW65 Hub Adapter Design Guide SCALE: 1:2	REV: - SHEET 1 OF 2

LW65 Hub Adapter Design Guide

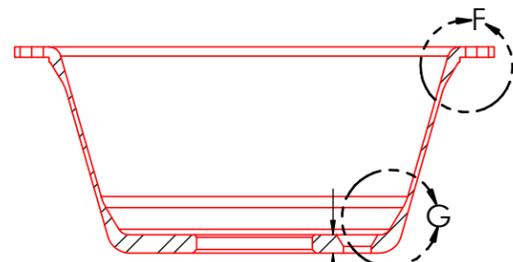
Note: Blue dimension are CRITICAL and CANNOT change. Black dimensions can change.



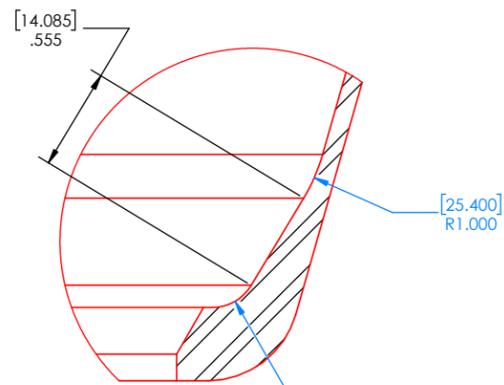
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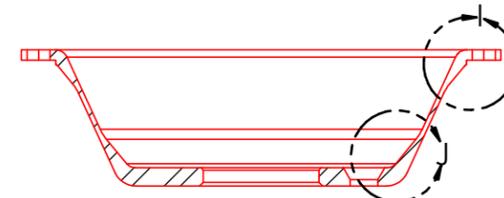
DETAIL I
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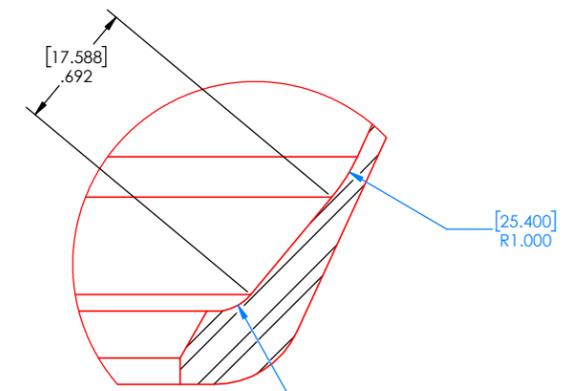
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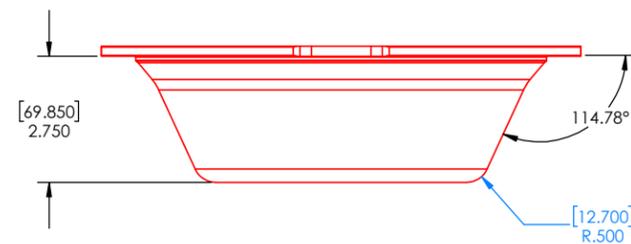
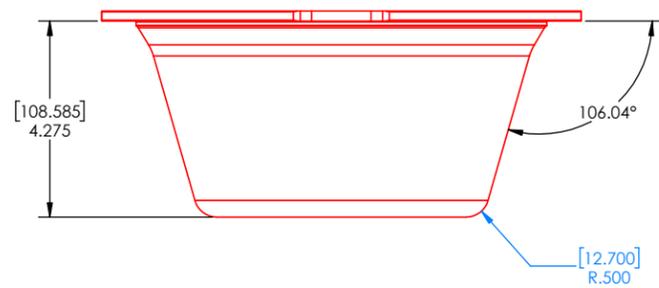
DETAIL G
SCALE 2 : 1



SECTION H-H
[17.588]
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DETAIL J
SCALE 2 : 1



It is essential that the adapters match the recommended guidelines. This will ensure the system can withstand the rated loads and provide the most accurate results. The critical features are shown in blue. Customers may change all other geometry. Examples of permitted changes are shown above.

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UNLESS OTHERWISE SPECIFIED:		DATE	NAME	MICHIGAN SCIENTIFIC CORPORATION 8500 ANCE ROAD CHARLEVOIX, MICHIGAN 49720 www.michsci.com	
TOLERANCES:	XXX ±.0010	DRAWN	09/01/20	JPSaley	PRODUCT LINE
XXX ±.005	CHECKED	-	-	-	LW65
XX ±.01	ENG APPR	-	-	-	CUSTOMER CODE
FRACTIONAL ±	MFG APPR	-	-	-	PROJECT CODE
ANGULAR: MACH ±	WEIGHT			DESCRIPTION: Hub Adapter Design Guide	
BEND ±	MATERIAL	17-4 H1100		SIZE	DWG. NO.
	FINISH			D	LW65 Hub Adapter Design Guide
				SCALE: 1:2	REV
					SHEET 2 OF 2