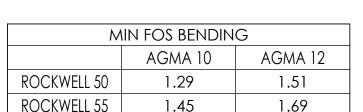
- MATERIAL: 4140 28-32 ROCKWELL PRE-HARD 1.
- 2. GAS NITRIDE SURFACE 50-55 ROCKWELL. DEPTH 0.010" - 0.015"

INVOLUTE SPUR GEAR

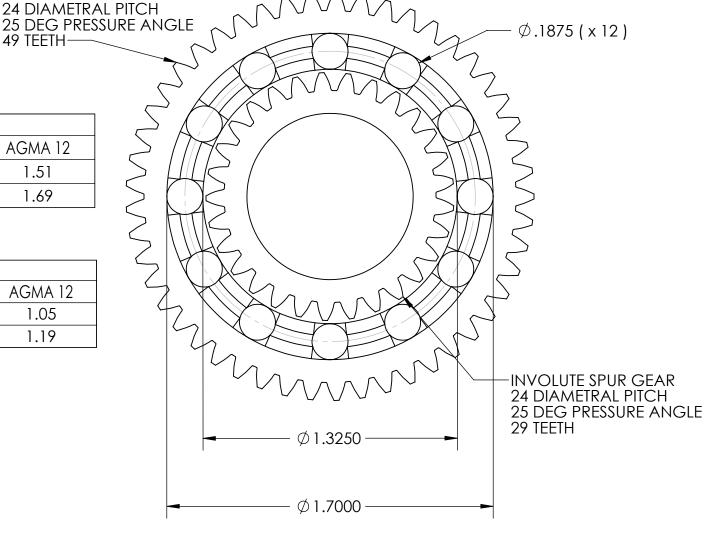
49 TEETH-

3. POLISH TO MIRROR FINISH RA: 4-8

## **ALL NEED TO BE CLOCKED** TO THE SAME ANGLE



MIN FOS WEAR			
	AGMA 10	AGMA 12	
ROCKWELL 50	0.95	1.05	
ROCKWELL 55	1.08	1.19	





NOTES:

FOR ANY QUESTIONS. PLEASE CONTACT TRISTAN HINOUL:

PHONE: (908) 420 - 4258 EMAIL: hinoul@go.uwracing.com **SCALE: 2:1** 

MATERIAL 4140 Prehard

3

TITLE:

2

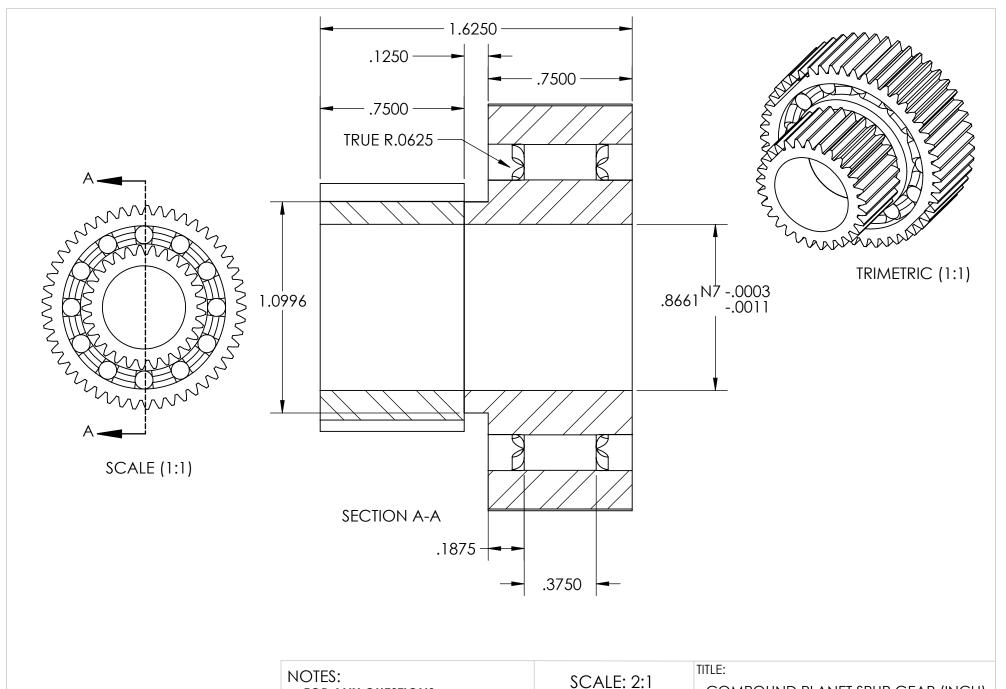
COMPOUND PLANET SPUR GEAR (INCH)

SIZE UW -MADISON PART NUMBER

Α 220e-320-03

QTY: 9

SHEET 1 OF 3 WEIGHT: LBS



WISCONSIN M A D I S O N FOR ANY QUESTIONS,
PLEASE CONTACT TRISTAN HINOUL:
PHONE: (908) 420 -4258
EMAIL: hinoul@go.uwracing.com

MATERIAL
4140 Prehard

COMPOUND PLANET SPUR GEAR (INCH)
SIZE | UW -MADISON PART NUMBER

A 220e-320-03
WEIGHT: LBS

2

QTY: 9 SHEET 2 OF 3

3

Small Planet Gear				
All Dimension in mm unless otherwise specified				
Normal Module	1.058333			
Normal Diametral Pitch	24.00 1/in'			
Normal Pressure Angle	25 deg			
Number of Teeth	29			
Pitch Diameter	30.692			
Base Diameter	27.8	.816		
	min tolerance	max tolerance		
Outside Diameter	32.510	32.610		
Root Diameter	27.600	27.900		
Tip Chamfer Diameter	32.510	32.560		
Ball Diameter	2			
Diameter over/ between two balls	33.541	33.636		
Transverse tooth thickness	1.562	1.612		
Normal tooth thickness	1.562	1.612		
Operating transverse backlash	0.100	0.200		
Roll angle at SAP - tight mesh	13.023 deg	-		
Roll angle at SAP	15.053 deg	-		
Roll angle at tip chmfer	34.661 deg	34.860 deg		

Big Planet Gear				
All Dimension in mm unless otherwise specified				
Normal Module	1.058333			
Normal Diametral Pitch	24.00 1/in'			
Normal Pressure Angle	25 deg			
Number of Teeth	49			
Pitch Diameter	51.858			
Base Diameter	46.999			
	min tolerance	max tolerance		
Outside Diameter	53.925	54.025		
Root Diameter	49.010	49.210		
Tip Chamfer Diameter	53.925	54.025		
Ball Diameter	2			
Diameter over/ between two balls	54.748	54.847		
Transverse tooth thickness	1.562	1.612		
Normal tooth thickness	1.562	1.612		
Operating transverse backlash	0.102	0.202		
Roll angle at SAP - tight mesh	20.520 deg	-		
Roll angle at SAP	21.808 deg	-		
Roll angle at tip chmfer	32.229 deg	32.477 deg		