

# CATALOG CODE TI-C5M-X.XX-XX

TORQUE Nm
- 0.15
- 0.25
- 0.30

SHAFT-END TYPE
-01 - KNURLED SHAFT
-02 - SINGLE FIN

CATALOG CODE	DYNAMIC TORQUE	
	NOMINAL	TOLERANCE
	Nm	±
TI-C5M-0.15-01	0.15	30%
TI-C5M-0.25-01	0.25	30%
TI-C5M-0.30-01	0.30	25%
TI-C5M-0.15-02	0.15	30%
TI-C5M-0.25-02	0.25	30%
TI-C5M-0.30-02	0.30	25%

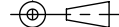
NOTES:

1. USER MUST DETERMINE FITNESS FOR USE IN APPLICATION.
2. LIFE: 30,000 CYCLES ONE CYCLE CONSISTS OF 135° CW AND 135° CCW.
3. DIMENSIONS APPLY WITH THE ASSEMBLY RESTRAINED IN THE ABC REFERENCE FRAME.
4. HINGE NOT DESIGNED TO SUPPORT AXIAL FORCE IN EITHER DIRECTION.
5. MATERIALS:  
DIECAST ZINC HOUSINGS  
POWDERED METAL SHAFT END  
HARDENED STEEL TORQUE ELEMENT  
MINERAL OIL BASED LUBRICANT
6. FINISH:  
NON-COSMETIC PLAIN.
7. CUSTOMER IS RESPONSIBLE FOR CHECKING COMPATIBILITY OF REELL LUBRICANTS WITH PLASTICS USED.

SPECIFICATION SUBJECT TO CHANGE

INTERPRET PRINT PER  
ASME Y14.5M-1994  
THIS PRINT IS THE  
CONFIDENTIAL PROPERTY  
OF REELL PRECISION MFG.

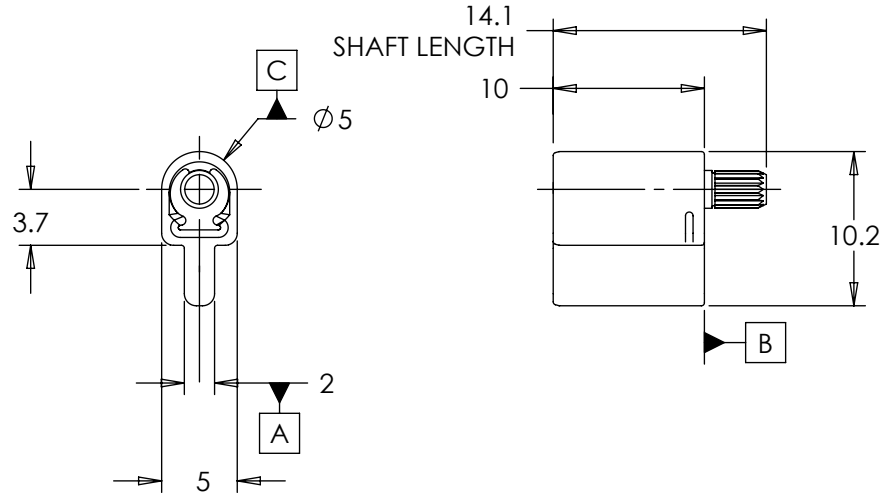
THIRD ANGLE PROJECTION



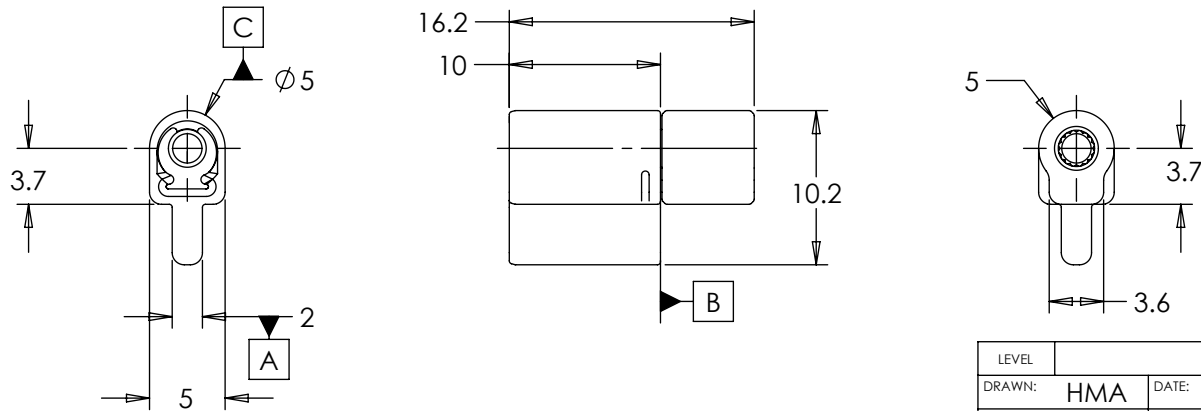
LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN: HMA	DATE: 13DEC13	PART NO:		
CHECKED: STK	DATE: 24APR14	TITLE:		
APPROVED: STK	DATE: 24APR14	SALES DRAWING		
REVISED: 01JUN20	DIMS: mm			
		DESCRIPTION: TI-C5M		REV: N
		SCALE: 2:1	DO NOT SCALE DRAWING	SHEET 1 OF 4

REELL PRECISION MANUFACTURING  
1259 WILLOW LAKE BOULEVARD  
SAINT PAUL, MINNESOTA 55110-5103, USA

# TI-C5M-X.XX-01



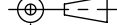
# TI-C5M-X.XX-02




ALL DIMENSIONS REFERENCE  
SEE CAD MODEL FOR UNSPECIFIED FEATURES.  
SPECIFICATION SUBJECT TO CHANGE

INTERPRET PRINT PER  
ASME Y14.5M-1994  
THIS PRINT IS THE  
CONFIDENTIAL PROPERTY  
OF REELL PRECISION MFG.

THIRD ANGLE PROJECTION

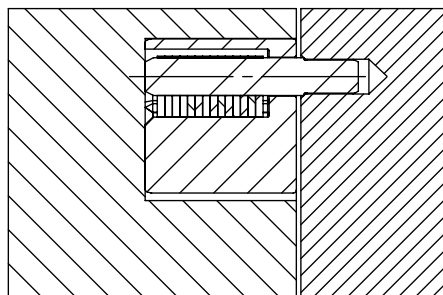


LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN: HMA	DATE: 13DEC13	PART NO:		
CHECKED: STK	DATE: 24APR14	TITLE:		
APPROVED: STK	DATE: 24APR14	SALES DRAWING		
REVISED: 01JUN20	DIMS: mm			
 REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		DESCRIPTION: TI-C5M		REV: N
		SCALE: 2:1	DO NOT SCALE DRAWING	SHEET 2 OF 4

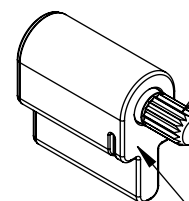
# TI-C5M-X.XX-01 CUSTOMER INSTALLATION GEOMETRY

CUSTOMER MATERIAL	D1	D2	L1	L2	L3	L4	L5	L6	CF1	WALL	GAP
DIE CAST ZINC	2.3±0.03	5.05±0.05	3.7±0.05	4.5±0.1	1.9±0.03	5.05 <sup>+0.15</sup> <sub>-0.05</sub>	10±0.05	4.5 MIN	0.3±0.1 X 45°±5°	1.25 MIN	0.1 MIN
MILD STEEL	2.4±0.015										
DIE CAST ALUMINUM	2.3±0.03										
WROUGHT ALUMINUM	2.4±0.015										

- HINGE HOUSING MAY BE PRESS FIT INTO NON-METALLIC MATERIALS. DELRIN DIMENSIONS SPECIFIED FOR HINGE HOUSING ON PAGE 4.  
CONTACT REELL FOR OTHER MOUNTING OPTIONS.

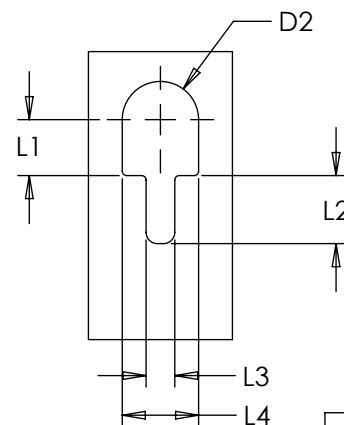
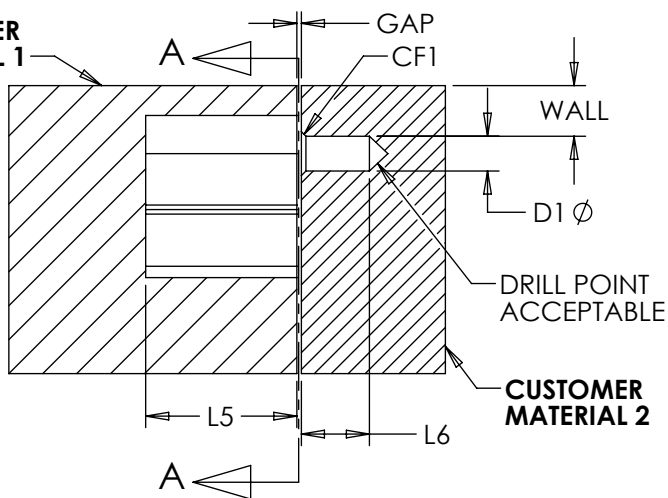


### HINGE PRESS

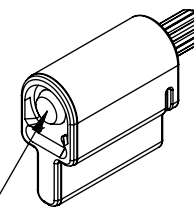


PRESS TOOLING SHOULD BE CLEARANCED TO AVOID CONTACT WITH SHAFT  
TO INSERT HINGE, PRESS ON SURFACE INDICATED

CUSTOMER MATERIAL 1



### KNURLED SHAFT PRESS



FRONT OF SHAFT MUST BE SUPPORTED DURING INSTALLATION

### SECTION A-A

CUSTOMER MATERIAL 1 AND CUSTOMER MATERIAL 2 ALIGNMENT TO BE WITHIN 0.10mm IN ANY DIRECTION TO ENSURE PRODUCT PERFORMANCE.

SPECIFICATION SUBJECT TO CHANGE

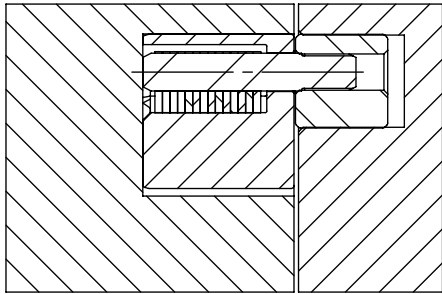
LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN: HMA	DATE: 13DEC13	PART NO:		
CHECKED: STK	DATE: 24APR14	TITLE:		
APPROVED: STK	DATE: 24APR14	<h2>SALES DRAWING</h2>		
REVISED: 01JUN20	DIMS: mm			
		DESCRIPTION: TI-C5M		REV: N
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		SCALE: 2:1	DO NOT SCALE DRAWING	SHEET 3 OF 4

INTERPRET PRINT PER ASME Y14.5M-1994  
THIS PRINT IS THE CONFIDENTIAL PROPERTY OF REELL PRECISION MFG.  
THIRD ANGLE PROJECTION

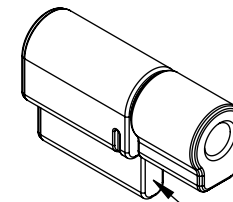
# TI-C5M-X.XX-02 CUSTOMER INSTALLATION GEOMETRY

CUSTOMER MATERIAL	D1	D2	L1	L2	L3	L4	L5	L6	L7	L8	R1	CF1	WALL	GAP
DIE CAST ZINC	4.9±0.03	5.05±0.05	3.7±0.05	4.5±0.1	1.9±0.03	5.05 <sup>+0.15</sup> <sub>-0.05</sub>	10±0.05	7±0.1	3.5±0.03	3.65±0.05	0.75±0.1	0.3±0.1 X 45°±5°	1.25 MIN	0.1 MIN
DIE CAST ALUMINUM					1.7±0.03				3.2±0.03	3.5±0.05	0.6±0.1			
DELTRIN	4.6±0.015													

- DELTRIN DIMENSIONS SPECIFIED, OTHER PLASTICS MAY REQUIRE DIFFERENT MOUNTING OPTIONS.  
CONTACT REEL FOR OTHER MOUNTING OPTIONS.

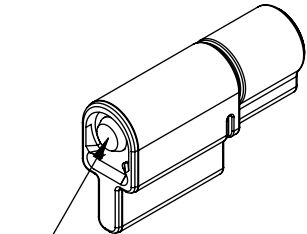


## HINGE PRESS

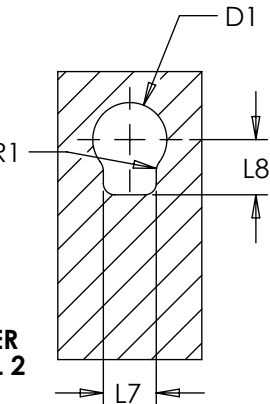
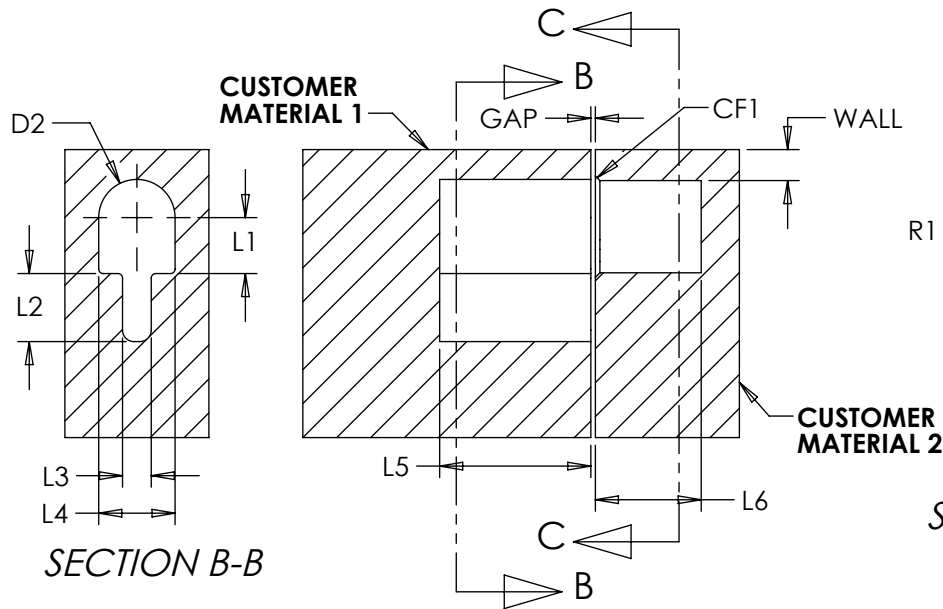


TO INSERT HINGE, PRESS ON SURFACE INDICATED

## SHAFT END PRESS



FRONT OF SHAFT MUST BE SUPPORTED DURING INSTALLATION



SECTION C-C

CUSTOMER MATERIAL 1 AND CUSTOMER MATERIAL 2 ALIGNMENT TO BE WITHIN 0.10mm IN ANY DIRECTION TO ENSURE PRODUCT PERFORMANCE.

SPECIFICATION SUBJECT TO CHANGE

INTERPRET PRINT PER ASME Y14.5M-1994  
THIS PRINT IS THE CONFIDENTIAL PROPERTY OF REELL PRECISION MFG.  
THIRD ANGLE PROJECTION

LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN:	HMA	DATE:	13DEC13	PART NO:
CHECKED:	STK	DATE:	24APR14	TITLE:
APPROVED:	STK	DATE:	24APR14	
REVISED:	01JUN20	DIMS:	mm	SALES DRAWING
				TI-C5M
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA				N
SCALE: 2:1	DO NOT SCALE DRAWING	SHEET 4 OF 4		