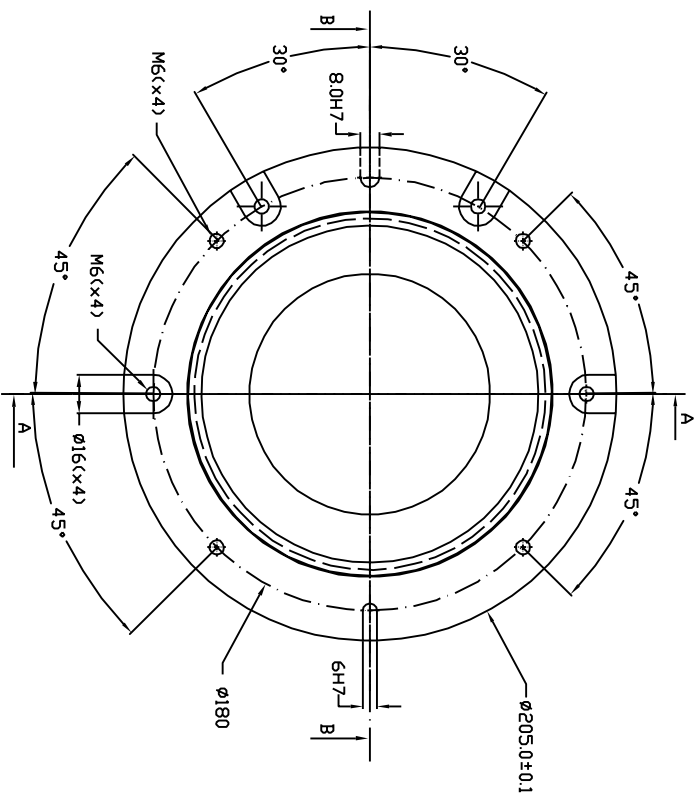


DWM1.25-C-01

[illegible]

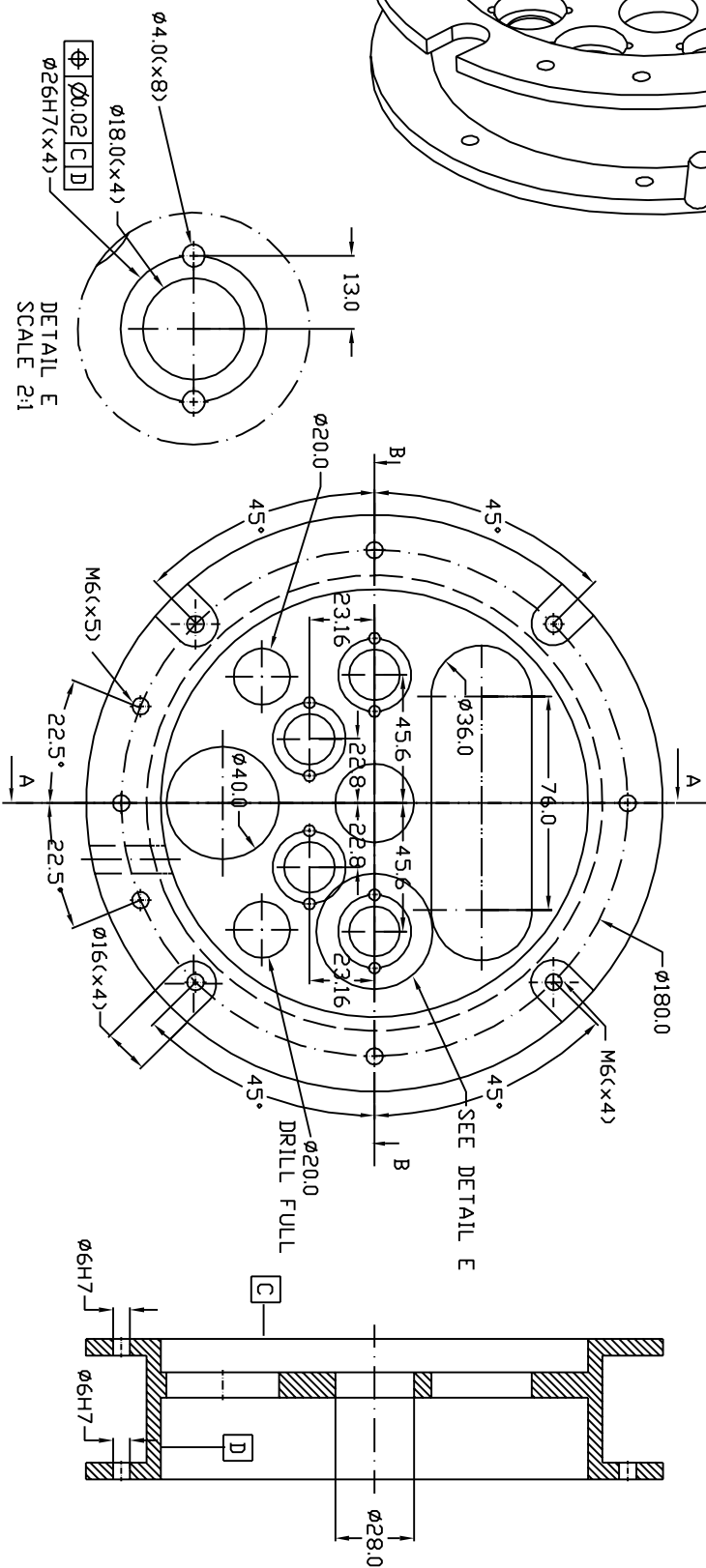
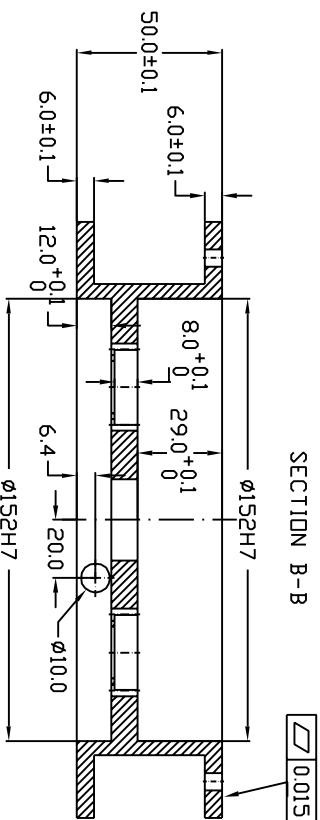
Technical drawing of a mechanical part showing dimensions and tolerances. The drawing includes a cross-section view of a shaft with a diameter of $\phi 140H7$ and a length of 80.0 ± 0.1 . The shaft has a central hole with a diameter of $\phi 60.01D$ and a length of 2.0 ± 0.1 . The shaft is supported by a housing with a diameter of $\phi 140H7$ and a length of 60.0 ± 0.1 . The housing has a central hole with a diameter of $\phi 60.01D$ and a length of 2.0 ± 0.1 . The shaft is also supported by a housing with a diameter of $\phi 140H7$ and a length of 80.0 ± 0.1 . The housing has a central hole with a diameter of $\phi 60.01D$ and a length of 2.0 ± 0.1 . The shaft is also supported by a housing with a diameter of $\phi 140H7$ and a length of 80.0 ± 0.1 . The housing has a central hole with a diameter of $\phi 60.01D$ and a length of 2.0 ± 0.1 .



1.1) ALL DIMENSIONS ARE IN MILLIMITRES
1.2) TOLERANCE ON: X. IS ± 0.5

McGILL UNIVERSITY
WMR

McGILL UNIVERSITY									
WMR									
PART NAME: LOWER CASE				No:	REVISION		DATE	BY	
MATERIAL: AA6061				SCALE: 1:1		DN BY TANG FAN	CH BY J. ANGELS		
NO. RECD. 1				DWM:		PART No:		REV:	
				DATE: Aug 2002		DWM1.25-C-02			



NOTES:
1) UNLESS OTHERWISE SPECIFIED:

2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY
WMR

PART NAME: MIDDLE CASE

MATERIAL: AA6061

NO. REQD. 1

[illegible]

[illegible]

DETAIL E
SCALE: 2:1

SECTION B-B

1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X. IS ± 0.5

2) LAST REVISION INDICATED BY: ☒

McGILL UNIVERSITY

PART NAME: UPPER CASE

MATERIAL: AA6061

NO. REQ. 1

No:

REVISION

DATE	BY
------	----

SCALE: 1:1

DN BY TANG FAN

CH BY J. ANGELES

DIM: mm

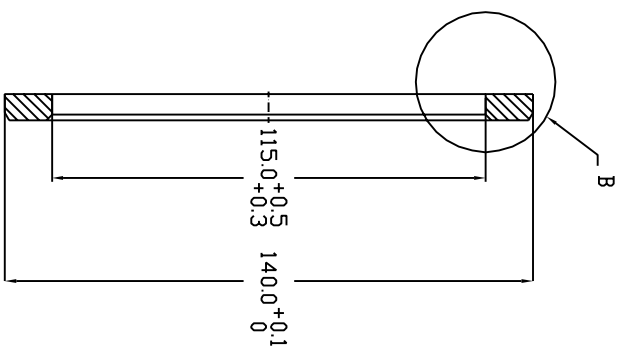
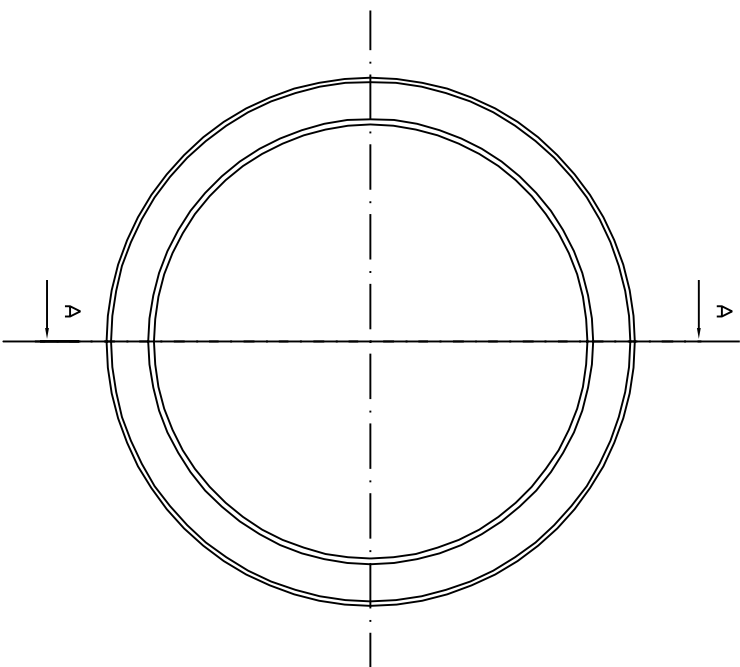
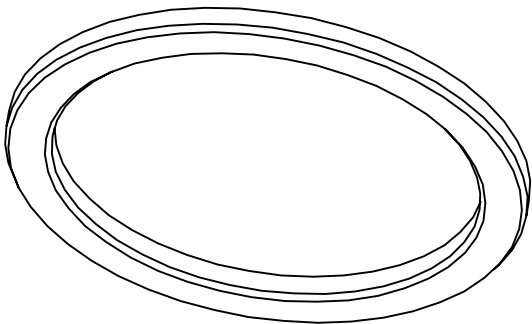
PART No:

REV:

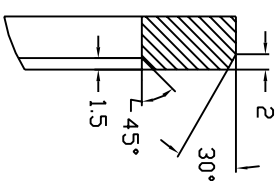
DATE: Aug 2002

10

DWM1.25-C-04



SECTION A-A



DETAIL B
SCALE: 2:1

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXXX IS ± 0.010

2) LAST REVISION INDICATED BY:

MC GILL UNIVERSITY
WMR

PART NAME: SEAL RING

MATERIAL: NYLON

NO. REQD. 1



No:

REVISION

DATE

BY

SCALE: 1:1

DWG: mm

DATE: Aug 2002

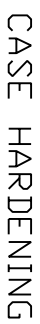
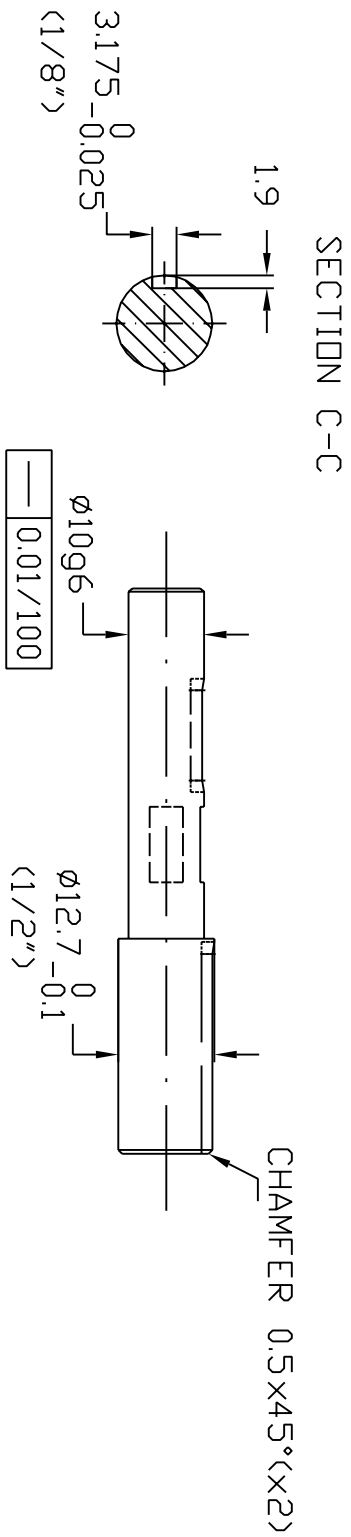
DN BY TANG FAN

CH BY J. ANGELES

PART No:

DWM1.25-C-05

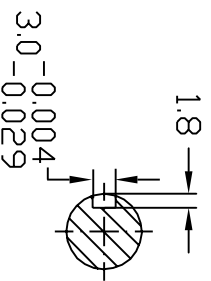
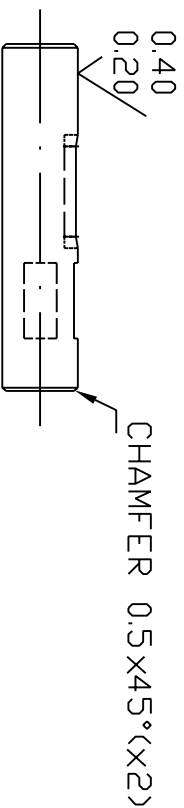
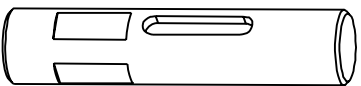
REV:



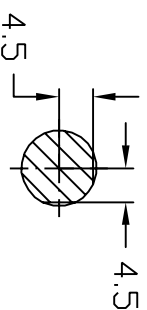
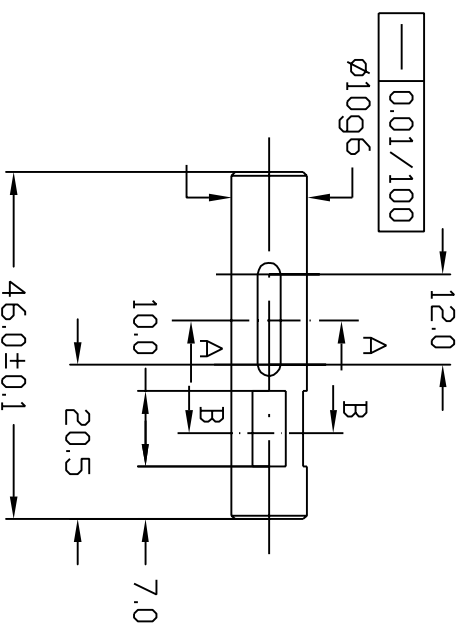
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X. IS ± 0.5

McGILL UNIVERSITY
WMR

McGILL UNIVERSITY WMR									
PART NAME: INPUT SHAFT A				No:	REVISION		DATE	BY	
MATERIAL: AISI 4340				SCALE: 1:1	DN BY TANG FAN		CH BY J. ANGELES		
NO. RECD. 1				DIM: mm	PART No:		REV:		
				DATE: Aug 2002	DWM1.25-C-06				



SECTION A-A



SECTION B-B

CASE HARDENING

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X, X.X, X.XX, X.XXX IS ± 0.5, IS ± 0.2, IS ± 0.05, IS ± 0.010

2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY
WMR

PART NAME: INPUT SHAFT B

MATERIAL: AISI 4340

NO. RECD. 1



No:	REVISION	DATE	BY

SCALE: 1:1

DM: mm

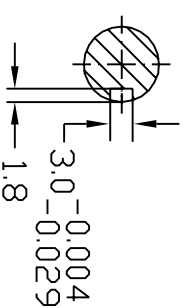
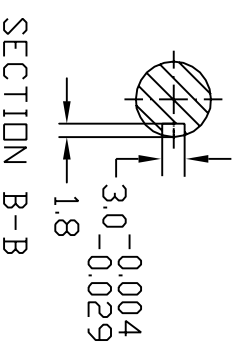
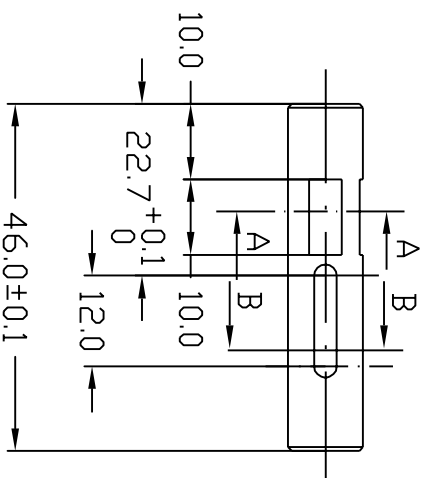
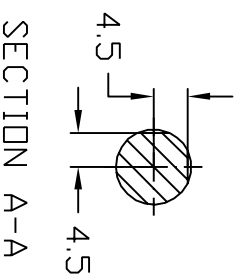
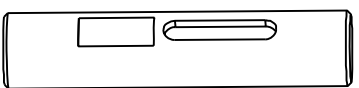
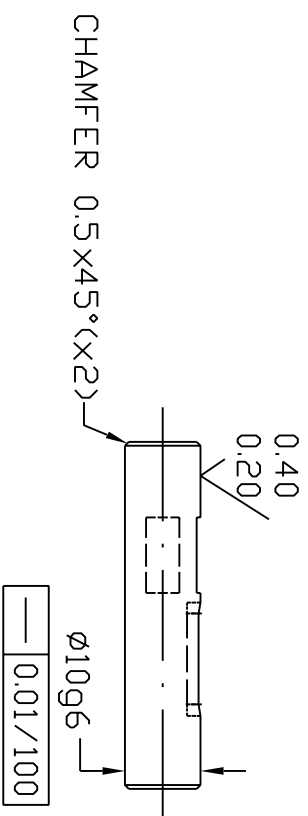
DATE: Aug 2002

DN BY TANG FAN

CH BY J. ANGELES

PART No: DWM1.25-C-07

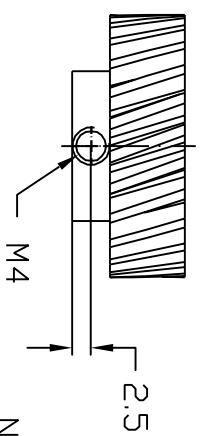
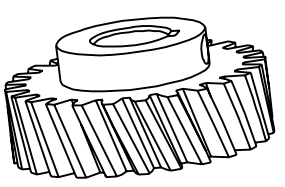
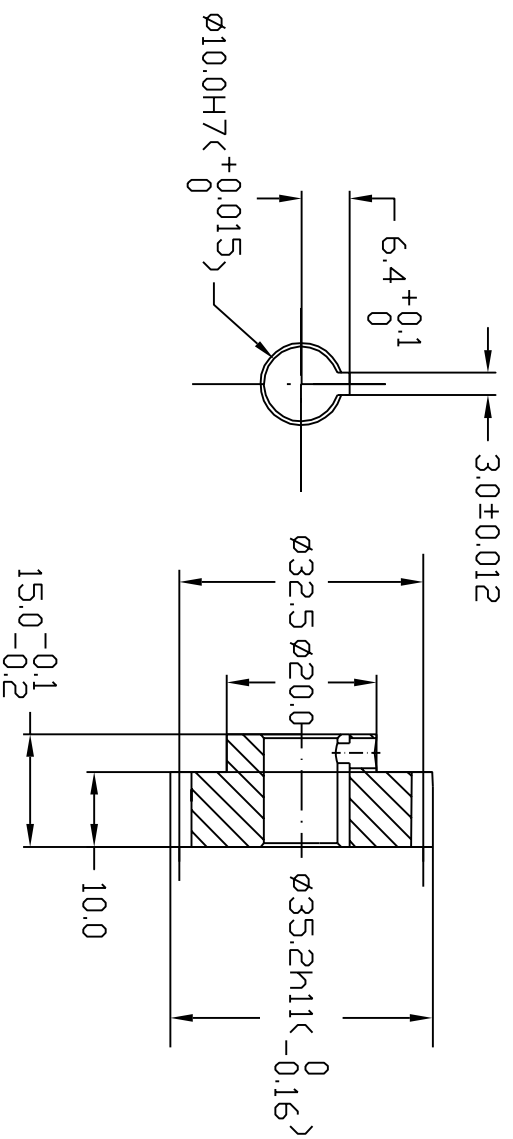
REV:



CASE HARDENING

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXXX IS ± 0.010
2) LAST REVISION INDICATED BY: ▽

McGILL UNIVERSITY			
WMR			
PART NAME: INPUT SHAFT D			
MATERIAL: AISI 4340			
NO. REQD. 1			
No:			
SCALE: 1:1			
DATE: Aug 2002			
REVISION			
DN BY TANG FAN			
CH BY J. ANGELES			
PART No: DWM1.25-C-09			
REV:			



NOTE: ALL CHAMFER 0.5X45°
INDUCTION HARDENED
52 Rc min.

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X: 1S ± 0.5
X.X 1S ± 0.2
X.XX 1S ± 0.05
X.XXX 1S ± 0.010
2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY
WMR

PART NAME: GEAR C

MATERIAL: AISI 4140

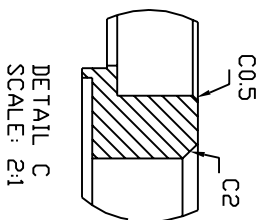
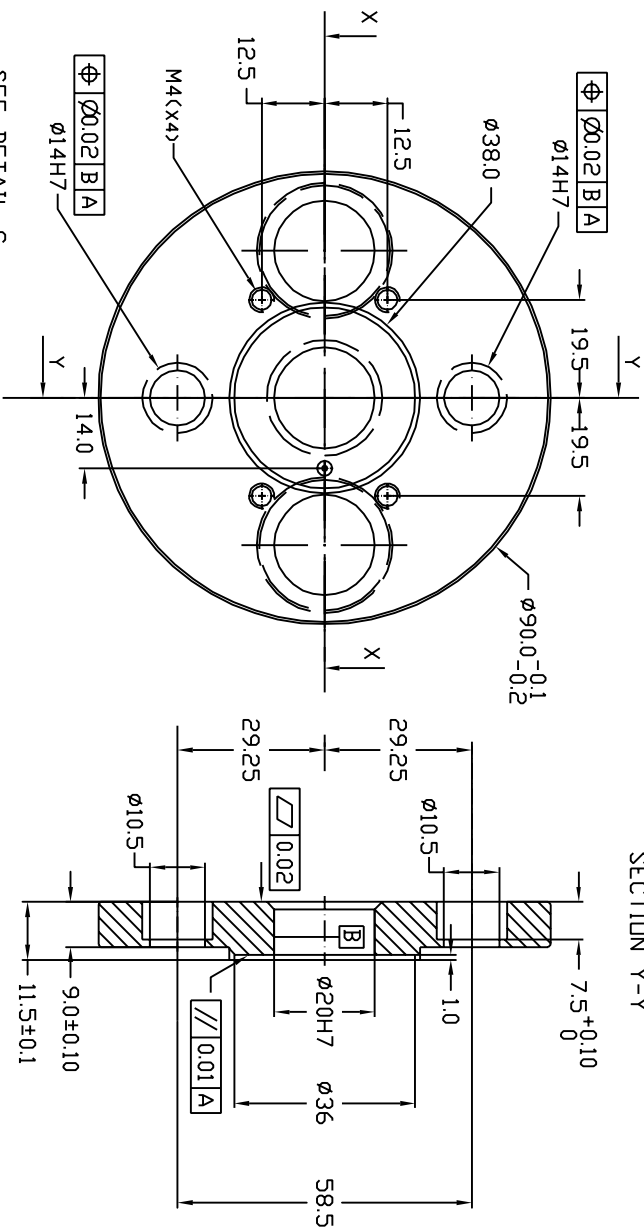
NO. RECD. 2

CUTTING DATA			
NO. OF TEETH	25		
NDRMAL DIAM. PITCH	20		
PRESSURE ANGLE	20°		
HELIX ANGLE	12°20'L.H.		
WHOLE DEPTH	2.845		
ADDENDUM	1.27		
DEDENDUM	1.575		
AGMA QUALITY CLASS NUMBER	Q8B-IN-3		
TOTAL COMPOSITE ERROR	0.068		
TOOTH THICKNESS TOLERANCE	0.03		
TOOTH TO TOOTH COMPOSITE ERROR	0.032		
CHORDAL THICKNESS	1.99		
CHORDAL ADD.	1.299		
NO. OF TEETH FOR SPAN MEASUREMENT	3		
BACK LASH	0.05 TO 0.1		
NO. OF TEETH IN MATING GEAR	20		
OPERATING CENTER DISTANCE	29.25		

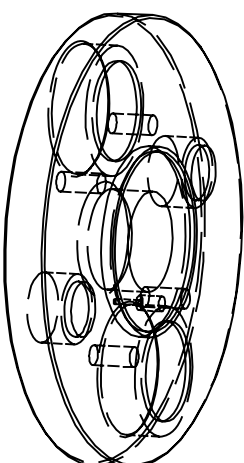
NO:	REVISION	DATE	BY

SCALE: 1:1	DN BY TANG FAN	CH BY J. ANGELES
DWG: MTH	PART No:	REV:
DATE: Aug 2002	DWM1.25-C-10	

SECTION Y-Y



SECTION X-X



1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X. IS ± 0.5

2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY

WMR

PART NAME: GUIDE

MATERIAL: AA6061

NO. READ. 1



No:

SCALE: 1:1

DIM: mm

DATE: Aug 2002

REVISION

DN BY TANG FAN

PART No:

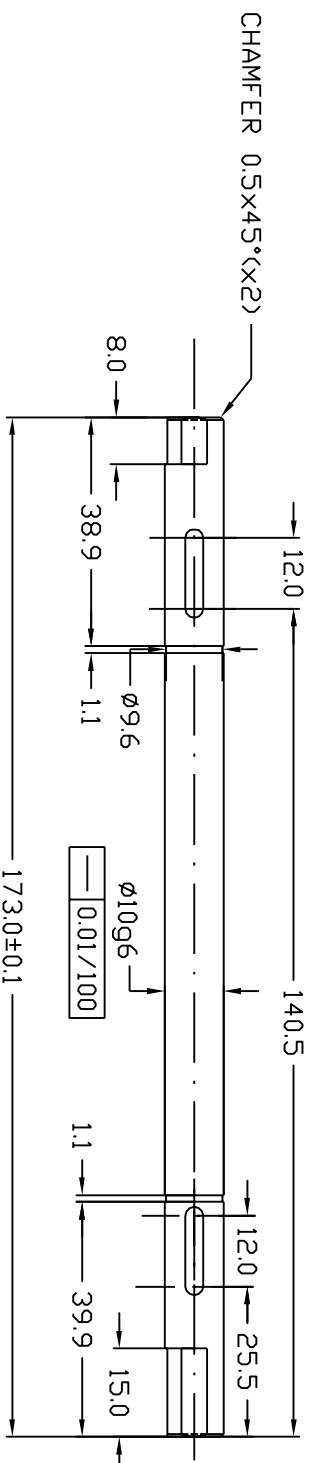
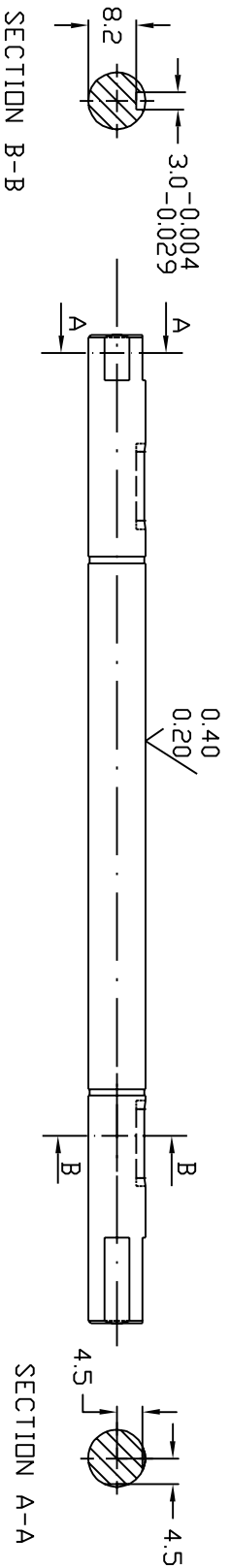
--	--

DATE	BY
------	----

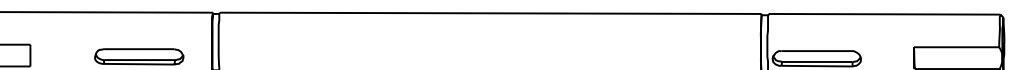
CH BY J. ANGELES

REV:

DWM1.25-T-01



CASE HARDENING



NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X. IS ± 0.5
X.X IS ± 0.2
X.XX IS ± 0.05
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY: ▽

McGILL UNIVERSITY
WMR

PART NAME: INNER SHAFT

MATERIAL: AISI 4340

NO. REOD. 1

No:

REVISION

DATE BY

SCALE: 1:1

DM: mm

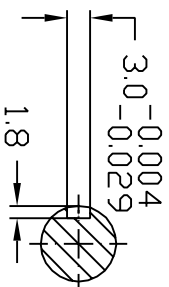
DATE: Aug 2002

DN BY TANG FAN

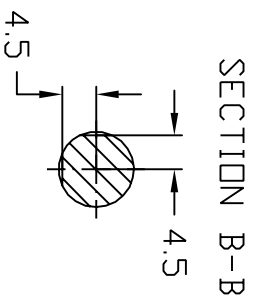
CH BY J. ANGELES

PART No:

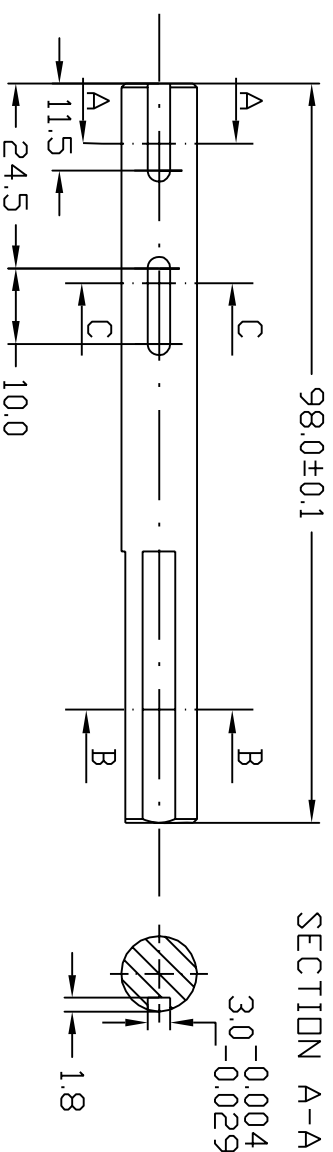
DWM1.25-T-02



SECTION C-C



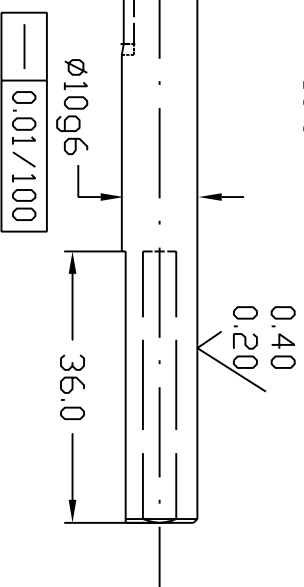
SECTION B-B



SECTION A-A



CHAMFER 0.5X45°(X2)



CASE HARDENING

- NOTES:
- 1) UNLESS OTHERWISE SPECIFIED:
 - 1.1) ALL DIMENSIONS ARE IN MILLIMETRES
 - 1.2) TOLERANCE DN: X.
 - X.X IS ± 0.5
 - X.XX IS ± 0.2
 - X.XXX IS ± 0.05
 - X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY:



McGILL UNIVERSITY
WMR

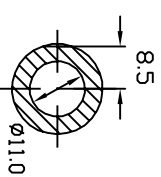
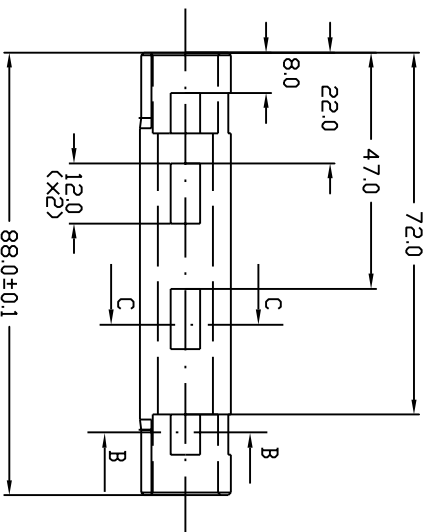
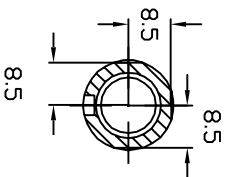
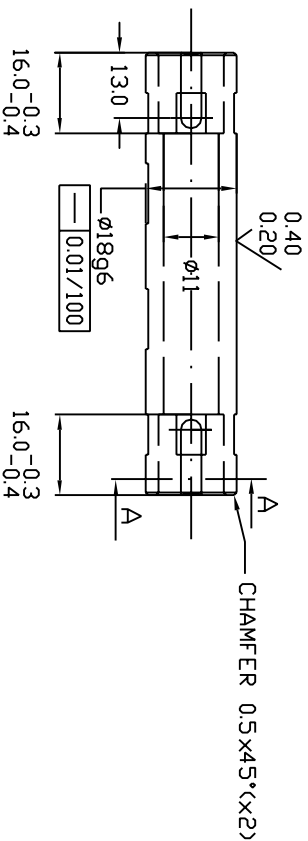
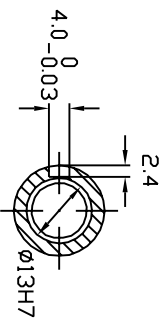
PART NAME: LEFT SHAFT

MATERIAL: AISI 4340

NO. REQD. 1



No:	REVISION	DATE	BY
SCALE: 1:1	DN BY TANG FAN	CH BY J. ANGELES	REV:
DWG: mm	PART No:	DWM1.25-T-03	
DATE: Aug 2002			



CASE HARDENING

- NOTES:
- 1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXXX IS ± 0.010
 - 2) LAST REVISION INDICATED BY:

MC GILL UNIVERSITY
WMR

PART NAME: OUTER SHAFT

MATERIAL: AISI 4340

NO. REQD. 1

No:

REVISION

DATE

BY

SCALE: 1:1

DIM: mm

DATE: Aug 2002

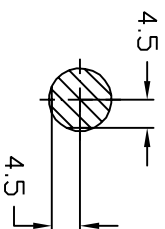
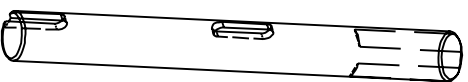
DN BY TANG FAN

CH BY J. ANGELES

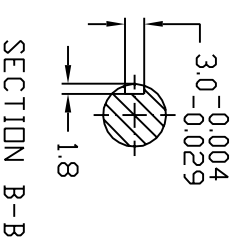
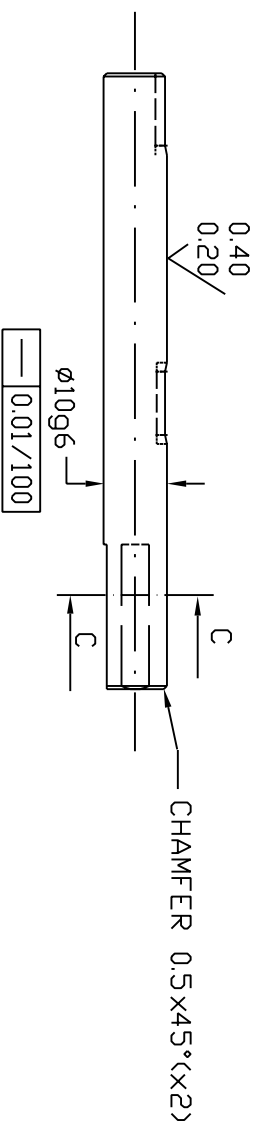
PART No:

DWM1.25-T-04

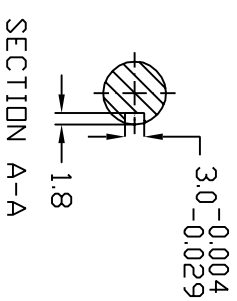
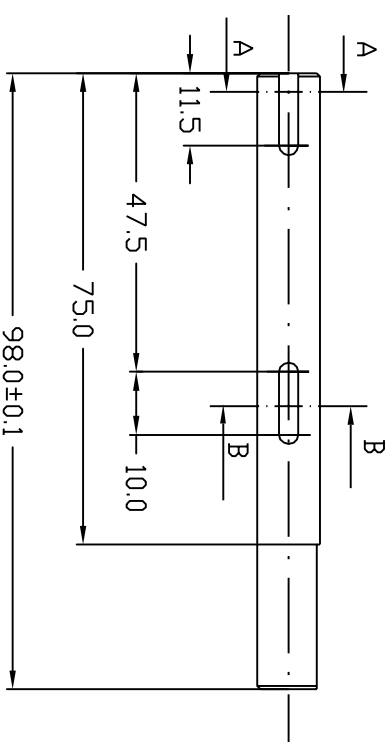
REV:



SECTION C-C



SECTION B-B



SECTION A-A

CASE HARDENING

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXXX IS ± 0.010

2) LAST REVISION INDICATED BY: ∇

McGILL UNIVERSITY
WMR

PART NAME: RIGHT SHAFT

MATERIAL: AISI 4340

NO. REQD. 1



No: _____

REVISION

DATE BY

SCALE: 1:1

DM: mm

DATE: Aug 2002

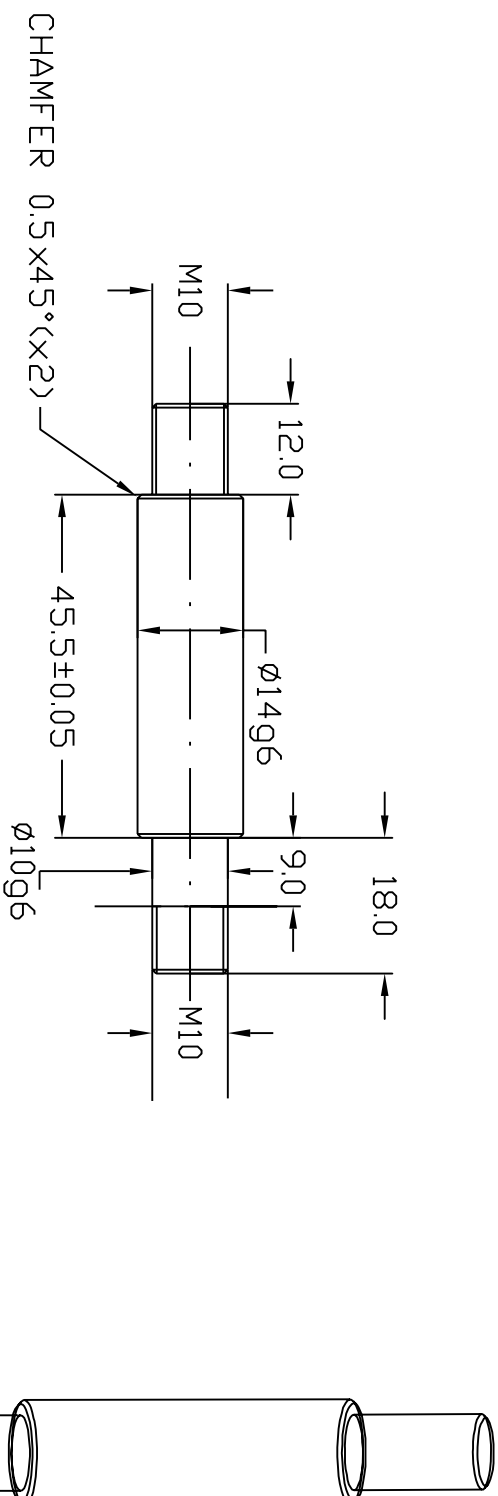
DN BY TANG FAN

CH BY J. ANGELES

PART No:

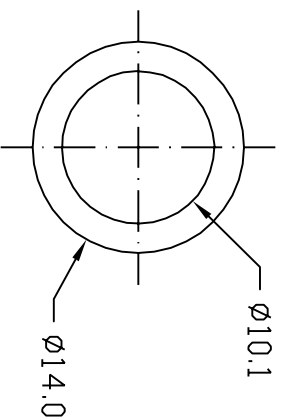
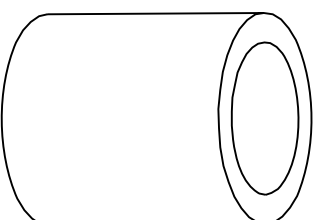
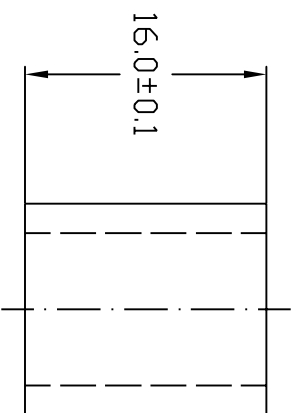
DWM1.25-T-05

REV:



NOTE: ALL CHAMFER $0.5 \times 45^\circ$

NOTES: 1) UNLESS OTHERWISE SPECIFIED: 1.1) ALL DIMENSIONS ARE IN MILLIMETRES 1.2) TOLERANCE ON: X. X.X IS ± 0.5 X.XX IS ± 0.2 X.XXX IS ± 0.05 X.XXXX IS ± 0.010		McGILL UNIVERSITY WMR		No: _____ SCALE: 1:1 DIM: mm DATE: Aug 2002		REVISION DN BY TANG FAN CH BY J. ANGELES PART No: _____ REV: _____	
2) LAST REVISION INDICATED BY:		PART NAME: SUSPENSION BAR MATERIAL: AISI 304 NO. REQD. 2				DWM1.25-T-06	



NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X.

X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY:

MC GILL UNIVERSITY
WMR

PART NAME: LEFT SPACER

MATERIAL: AISI 304

NO. REQD. 1



No:

SCALE: 2:1

DIM: mm

DATE: Aug 2002

REVISION

DN BY TANG FAN

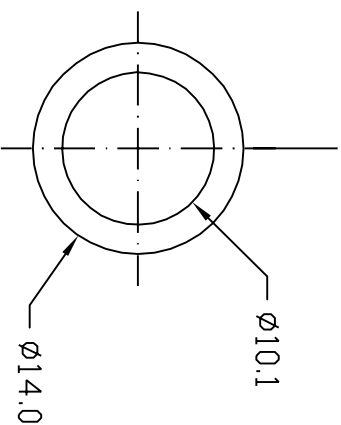
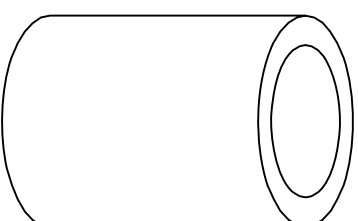
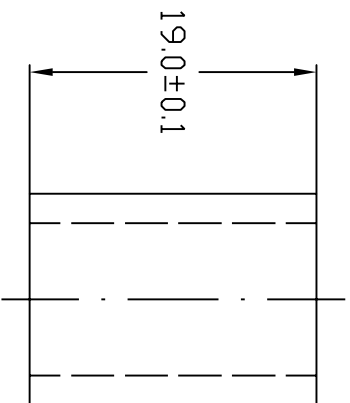
CH BY J. ANGELES

DATE BY

PART No:

DWM1.25-T-07

REV:



NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.

X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY:

MC GILL UNIVERSITY
WMR

PART NAME: RIGHT SPACER

MATERIAL: AISI 304

NO. REQD. 1



No:

REVISION

DATE

BY

SCALE: 2:1

DIM: mm

DATE: Aug 2002

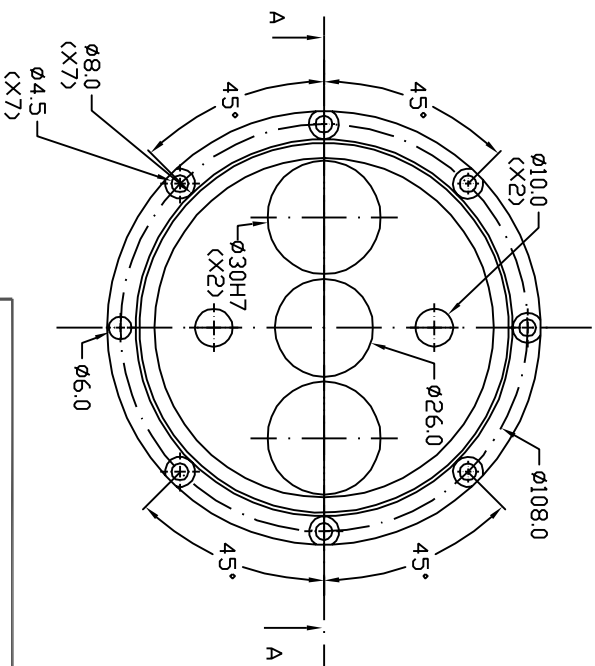
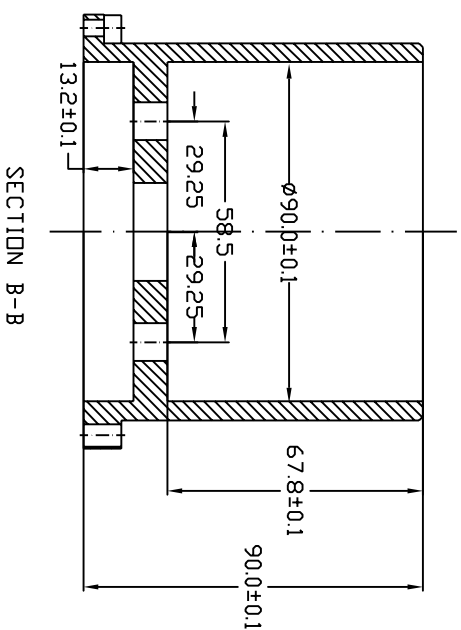
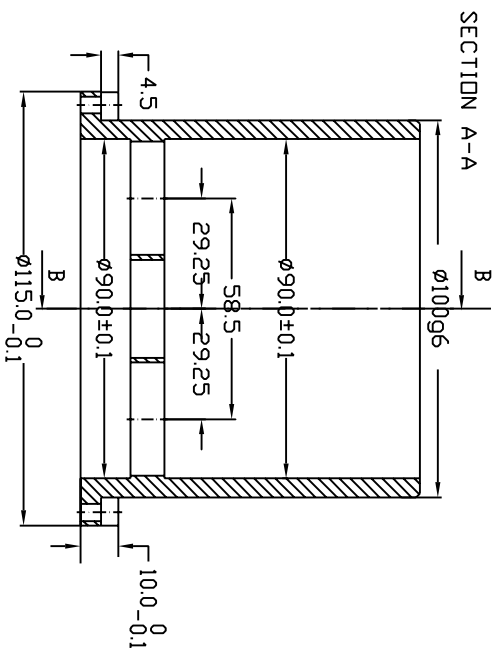
DN BY TANG FAN

CH BY J. ANGELES

PART No:

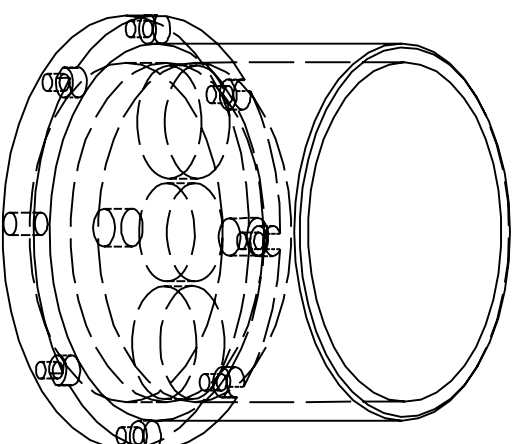
DWM1.25-T-08

REV:



UNLESS OTHERWISE SPECIFIED:

ALL CHAMFER 0.5X45°



NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X.

X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
IS ± 0.010

2) LAST REVISION INDICATED BY: ▽

McGILL UNIVERSITY
WMR

PART NAME: PLANET CARRIER

MATERIAL: AA6061

NO. REQD. 1

No:

REVISION

DATE BY

SCALE: 1:1

DN BY TANG FAN

CH BY J. ANGELES

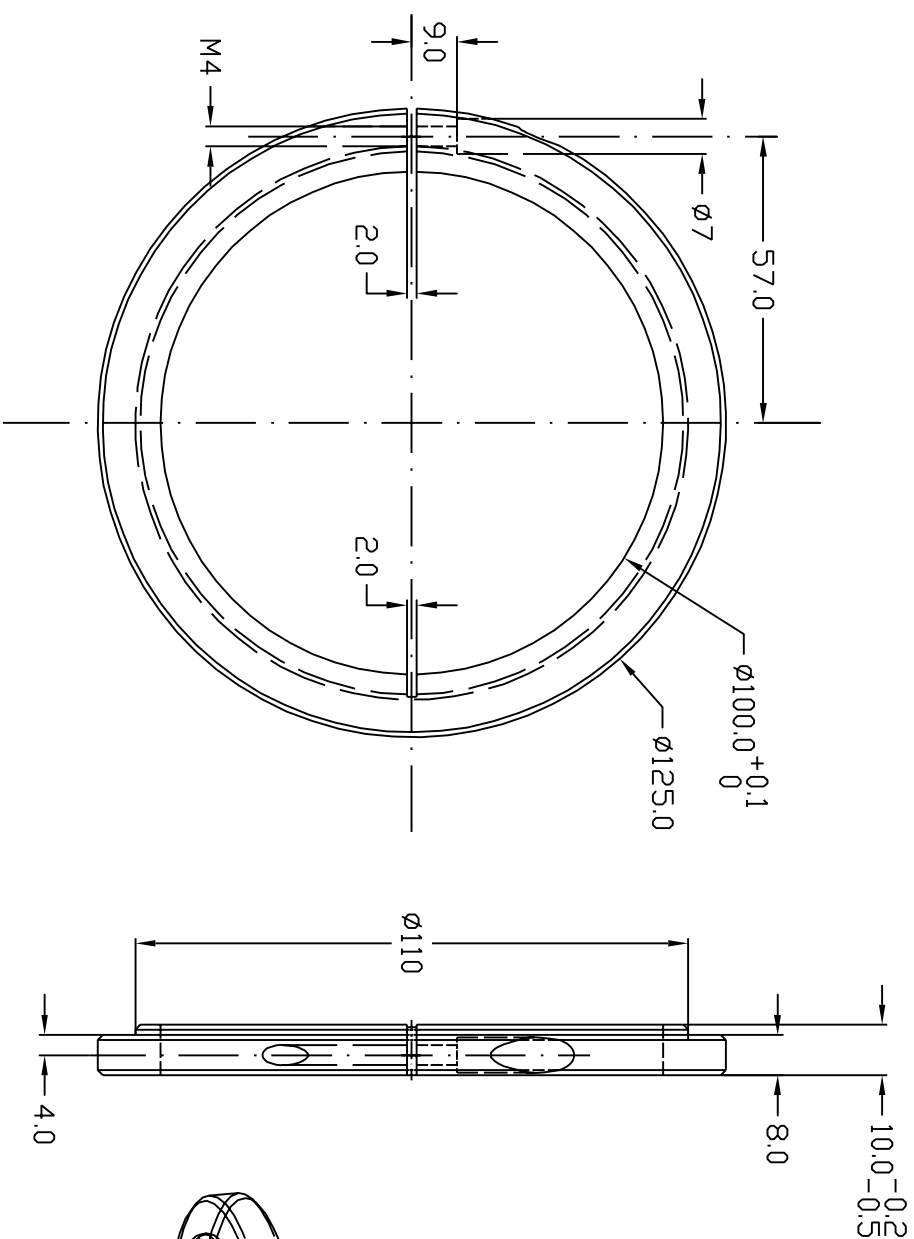
DWG: mm

PART No:

REV:

DATE: Aug 2002

DWM1.25-T-09



NOTE: ALL CHAMFER 1.0x45°

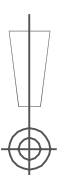
- NOTES:
- UNLESS OTHERWISE SPECIFIED:
 - ALL DIMENSIONS ARE IN MILLIMETRES
 - TOLERANCE ON: X.
- | | IS | ± | 0.5 |
|-------|------------------------------|---|-------|
| X.X | IS <td>±</td> <td>0.2</td> | ± | 0.2 |
| X.XX | IS <td>±</td> <td>0.05</td> | ± | 0.05 |
| X.XXX | IS <td>±</td> <td>0.010</td> | ± | 0.010 |
- 2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY
WMR

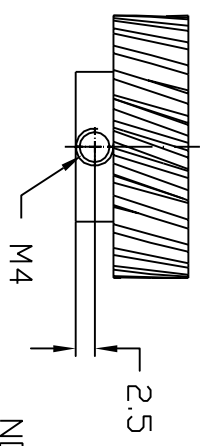
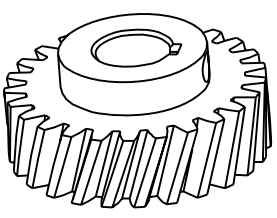
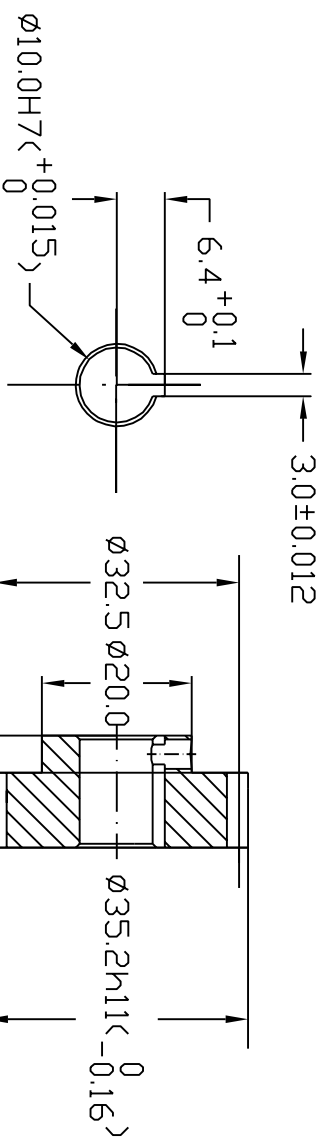
PART NAME: COLLAR

MATERIAL: AA6061

NO. RECD. 1



No:	REVISION	DATE	BY
SCALE: 1:1	DN BY TANG FAN	CH BY J. ANGELES	
DWG: TMM	PART No:		REV:
DATE: Aug 2002	DWM1.25-T-10		



NOTE: ALL CHAMFER 0.5x45°
INDUCTION HARDENED
52 Rc min.

CUTTING DATA	
NO. OF TEETH	25
PITCH DIAM.	20
PRESSURE ANGLE	20°
HELIX ANGLE	12°20'RH
WHOLE DEPTH	2.845
ADDENDUM	1.27
DEDENDUM	1.575
AGMA QUALITY CLASS NUMBER	Q88-IN-3
TOTAL COMPOSITE ERROR	0.068
TOOTH THICKNESS TOLERANCE	0.03
TOOTH TO TOOTH COMPOSITE ERROR	0.032
CHORDAL THICKNESS	1.99
CHORDAL ADD.	1.299
NO. OF TEETH FOR SPAN MEASUREMENT	3
BACK LASH	0.05 TO 0.1
NO. OF TEETH IN MATING GEAR	20
OPERATING CENTER DISTANCE	29.25

NO. OF TEETH IN MATING GEAR	20
OPERATING CENTER DISTANCE	29.25

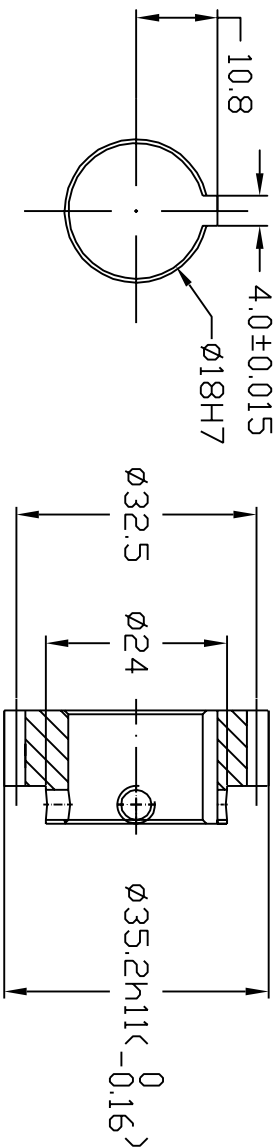
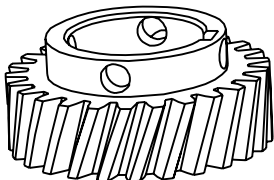
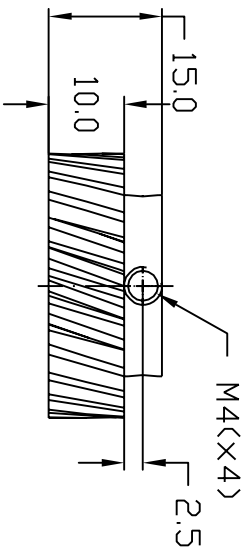
NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X. 1S ± 0.5
X.X 1S ± 0.2
X.XX 1S ± 0.05
X.XXX 1S ± 0.010

2) LAST REVISION INDICATED BY: ▽

McGILL UNIVERSITY
WMR

PART NAME: GEAR A	
MATERIAL: AISI 4140	
NO. REQD. 2	

No.	REVISION	DATE	BY
SCALE: 1:1	DN BY TANG FAN	CH BY J. ANGELES	
DWG: MIM	PART No:		REV:
DATE: Aug 2002	DWM1.25-T-11		



NOTE: ALL CHAMFER 0.5X45°
INDUCTION HARDENED
52 Rc min.

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXX IS ± 0.010

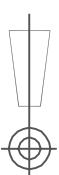
2) LAST REVISION INDICATED BY:

MCILL UNIVERSITY
WMR

PART NAME: GEAR B

MATERIAL: AISI 4140

NO. REQD. 2



CUTTING DATA

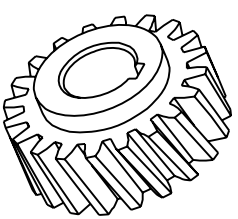
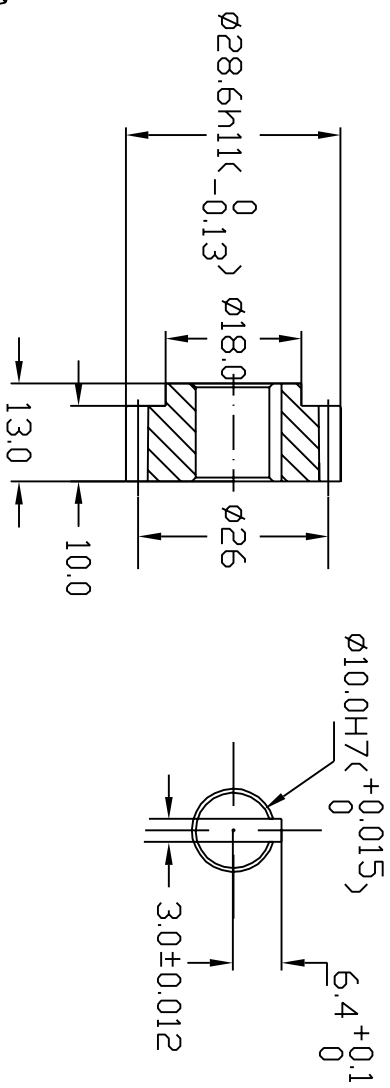
NO. OF TEETH	25
NORMAL DIAM. PITCH	20
PRESSURE ANGLE	20°
HELIX ANGLE	12°20'RH.
WHOLE DEPTH	2.845
ADDENDUM	1.27
DEDENDUM	1.575
AGMA QUALITY CLASS NUMBER	Q8B-IN-3
TOTAL COMPOSITE ERROR	0.068
TOOTH THICKNESS TOLERANCE	0.03
TOOTH TD TOOTH COMPOSITE ERROR	0.032
CHORDAL THICKNESS	1.99
CHORDAL ADD.	1.299
NO. OF TEETH FOR SPAN MEASUREMENT	3
BACK LASH	0.05 TD 0.1
NO. OF TEETH IN MATING GEAR	20
OPERATING CENTER DISTANCE	29.25

No:	REVISION	DATE	BY

SCALE: 1:1	DN BY TANG FAN	CH BY J. ANGELES
------------	----------------	------------------

DIM: mm	PART No:	REV:
---------	----------	------

DATE: Aug 2002	DWM1.25-T-12
----------------	--------------



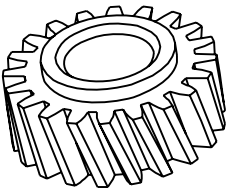
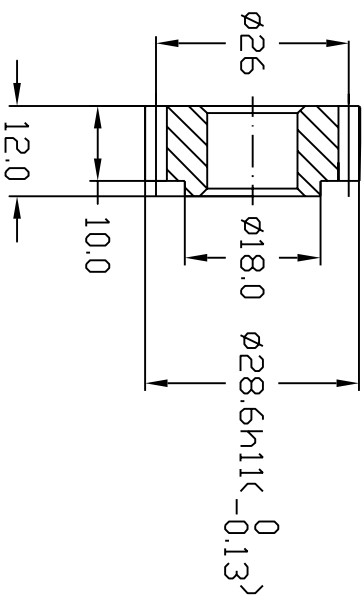
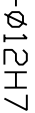
NOTE: ALL CHAMFER 0.5X45°
INDUCTION HARDENED
52 Rc min.

CUTTING DATA	
NO. OF TEETH	20
NORMAL DIAM. PITCH	20
PRESSURE ANGLE	20°
HELIX ANGLE	12°20'L.H.
WHOLE DEPTH	2.845
ADDENDUM	1.27
DEDENDUM	1.575
AGMA QUALITY CLASS NUMBER	Q8B-IN-3
TOTAL COMPOSITE ERROR	0.066
TOOTH THICKNESS TOLERANCE	0.03
TOOTH TD TOOTH COMPOSITE ERROR	0.033
CHORDAL THICKNESS	1.99
CHORDAL ADD.	1.3
NO. OF TEETH FOR SPAN MEASUREMENT	3
BACK LASH	0.05 TD 0.1
NO. OF TEETH IN MATING GEAR	25
OPERATING CENTER DISTANCE	29.25

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY			
WMR			
PART NAME: PINION A			
MATERIAL: AISI 4140			
NO. REQD. 2			
SCALE: 1:1	DN BY TANG FAN	CH BY J. ANGELES	REV:
DIM: mm	PART No:	DWM1.25-T-13	
DATE: Aug 2002			



NOTE: ALL CHAMFER 1.5X45°
INDUCTION HARDENED
52 Rc min.

NOTES:
1) UNLI

1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X. IS ± 0.5

X.X	IS ± 0.2
X.XX	IS ± 0.05
X.XXX	IS ± 0.010

2) LAST REVISION INDICATED BY:



McGILL UNIVERSITY
WMR

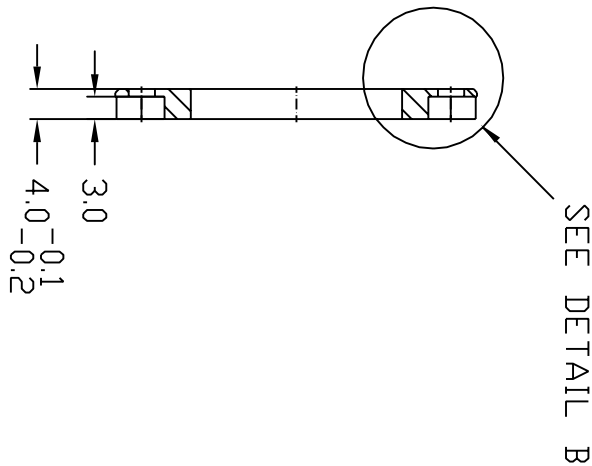
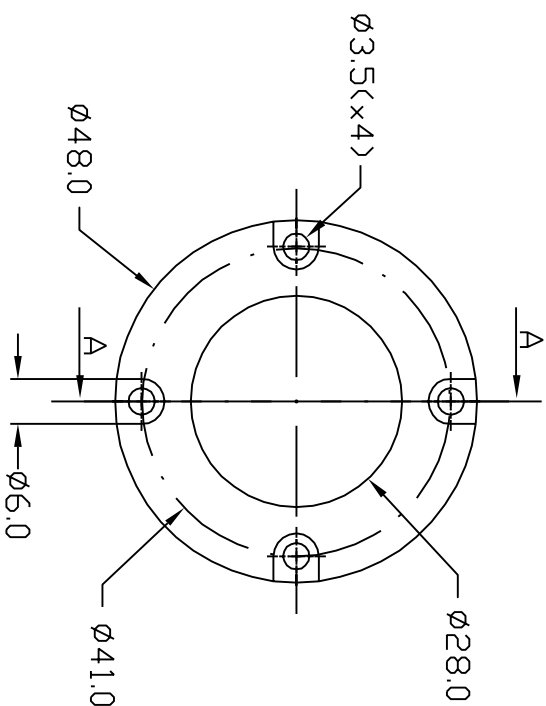
PART NAME: PINION B

MATERIAL: AISI 4140

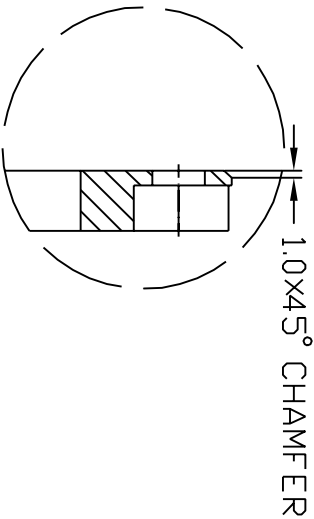
NO. READ. 2



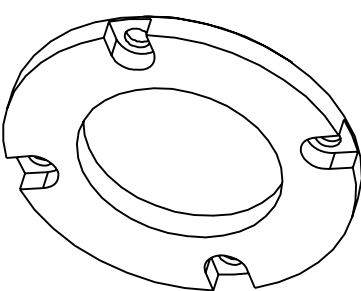
CUTTING DATA			
NO. OF TEETH	20		
NORMAL DIAM. PITCH	20		
PRESSURE ANGLE	20°		
HELIX ANGLE	12°20'L.H.		
WHOLE DEPTH	2.845		
ADDENDUM	1.27		
DEDENDUM	1.575		
AGMA QUALITY CLASS NUMBER	Q88-IN-3		
TOTAL COMPOSITE ERROR	0.066		
TOOTH THICKNESS TOLERANCE	0.03		
TOOTH TD TOOTH COMPOSITE ERROR	0.033		
CHORDAL THICKNESS	1.99		
CHORDAL ADD.	1.3		
NO. OF TEETH FOR SPAN MEASUREMENT	3		
BACK LASH	0.05 TD 0.1		
NO. OF TEETH IN MATING GEAR	25		
OPERATING CENTER DISTANCE	29.25		
No:	REVISION	DATE	BY
SCALE: 1:1	DN BY TANG FAN	CH BY J. ANCELES	
DWG: mm	PART No:	REV:	
DATE: Aug 2002	DWM1.25-T-14		



SECTION A-A



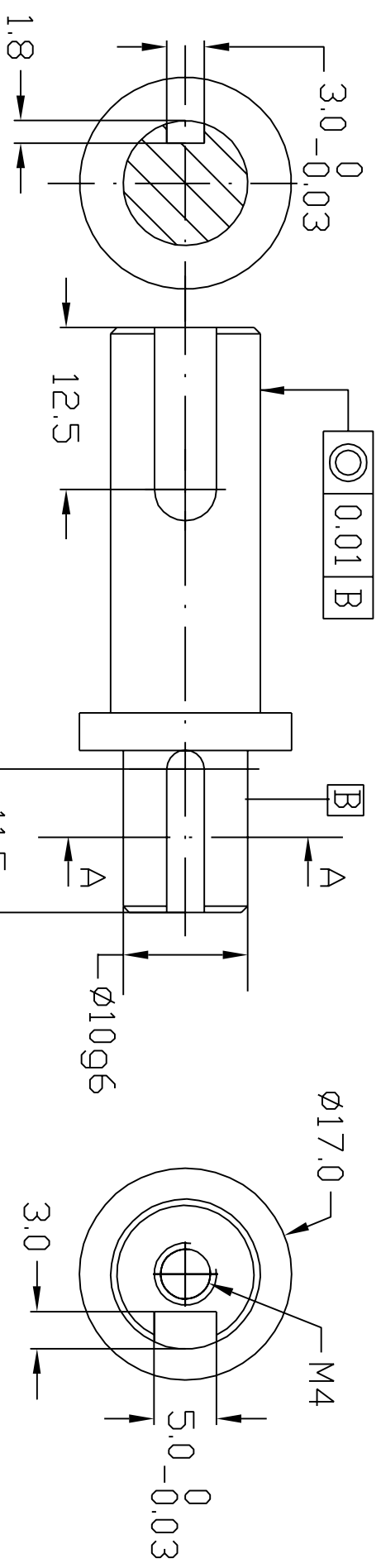
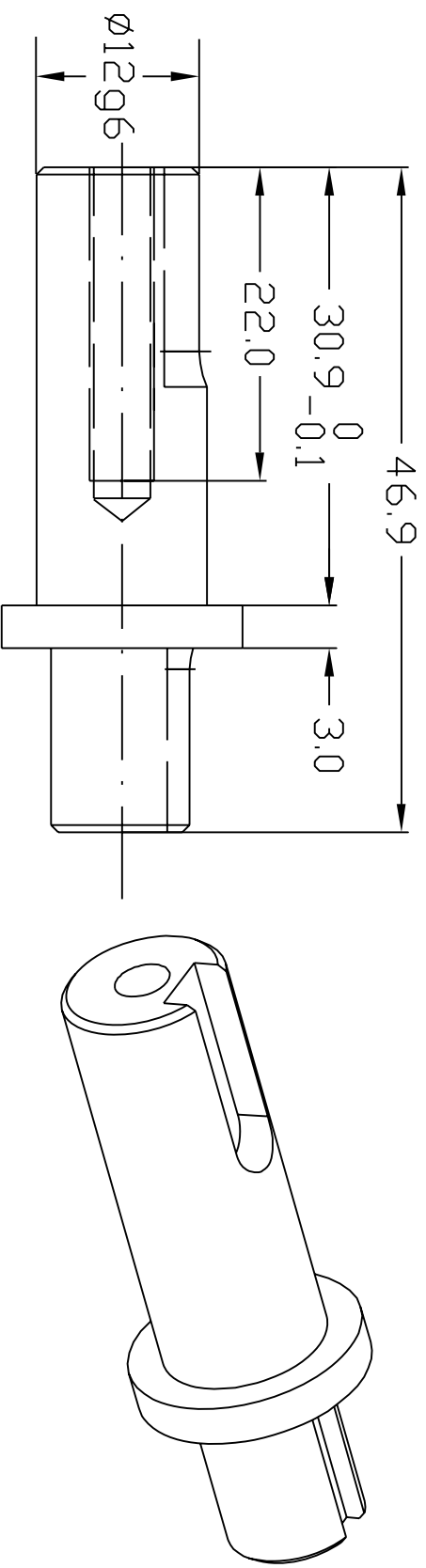
DETAIL B
SCALE 2:1



NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X. IS ± 0.5
X.X IS ± 0.2
X.XX IS ± 0.05
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY: ▽

McGILL UNIVERSITY WMR									
PART NAME: BEARING CAP				No:	REVISION		DATE	BY	
MATERIAL: AISI 304				SCALE: 1:1	DN BY TANG FAN		CH BY J. ANGELES	REV:	
NO. REQD. 2				DIM: mm	PART No: DWM1.25-W-01				
DATE: Aug 2002									

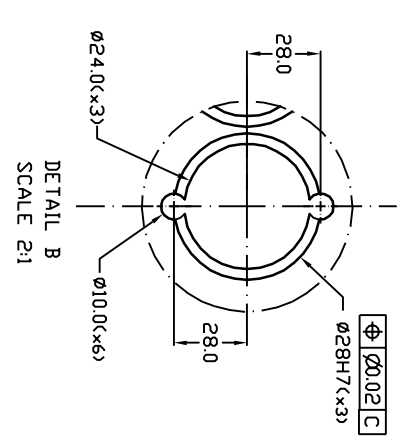
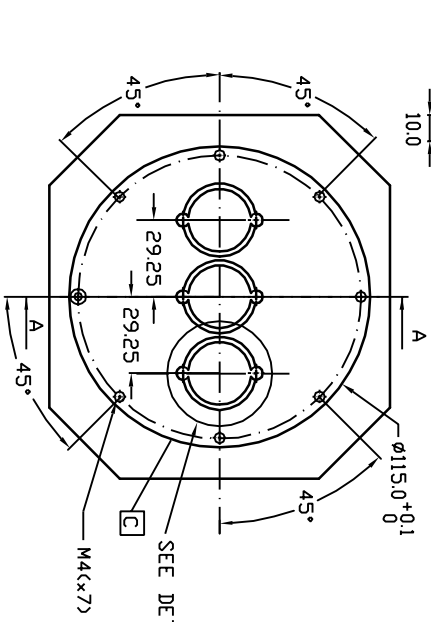
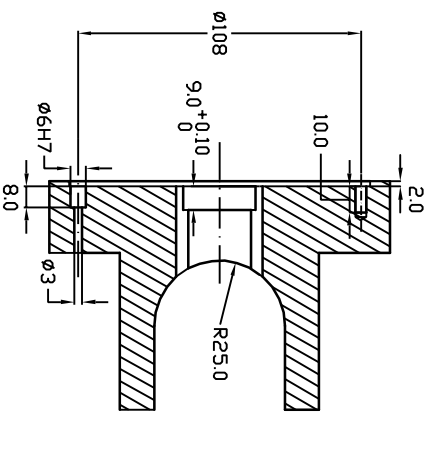
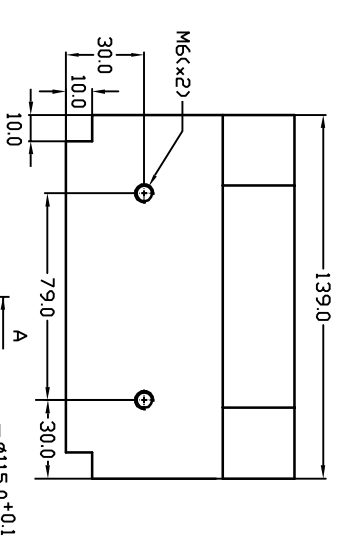
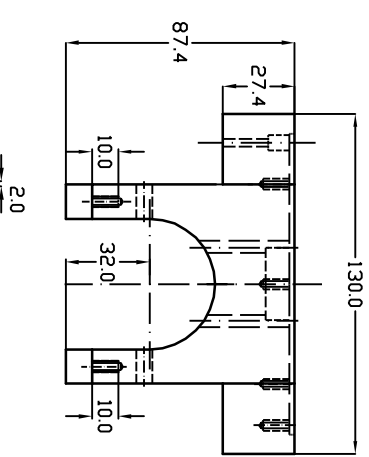
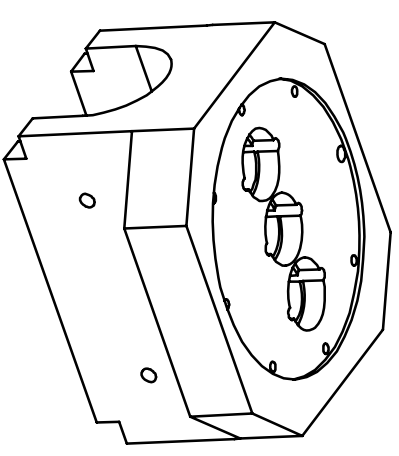
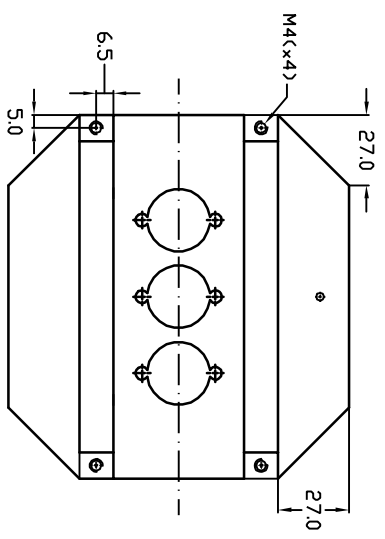


SECTION A-A

NOTES:
 1) UNLESS OTHERWISE SPECIFIED:
 1.1) ALL DIMENSIONS ARE IN MILLIMETRES
 1.2) TOLERANCE ON: X. IS ± 0.5
 X.X IS ± 0.2
 X.XX IS ± 0.05
 X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY: ∇

McGILL UNIVERSITY WMR			
PART NAME: DRIVING SHAFT		No:	
MATERIAL: AISI 4340		SCALE: 2:1	
NO. REQD. 2		DIM: mm	
DATE: Aug 2002		DATE: Aug 2002	
PART No:		REV:	
DWM1.25-W-02		DN BY TANG FAN	
		CH BY J. ANGELES	
		DATE	
		BY	



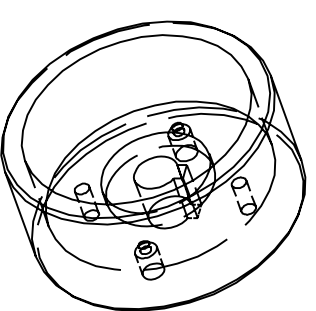
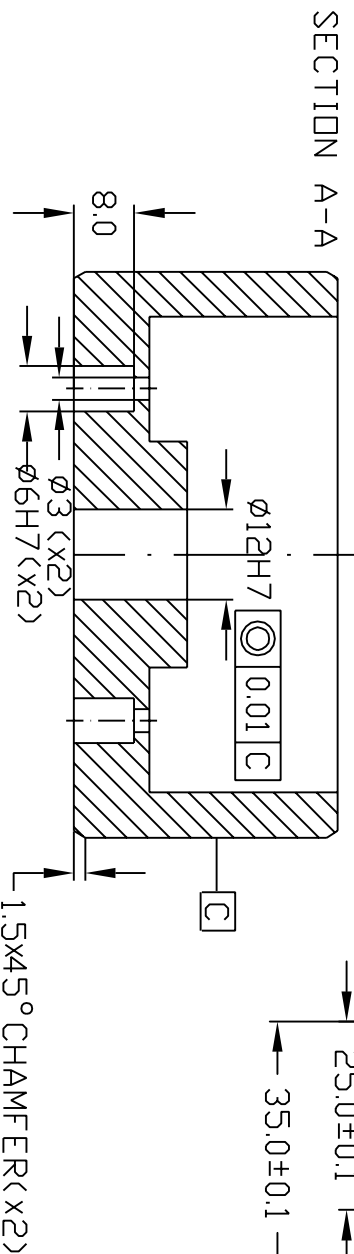
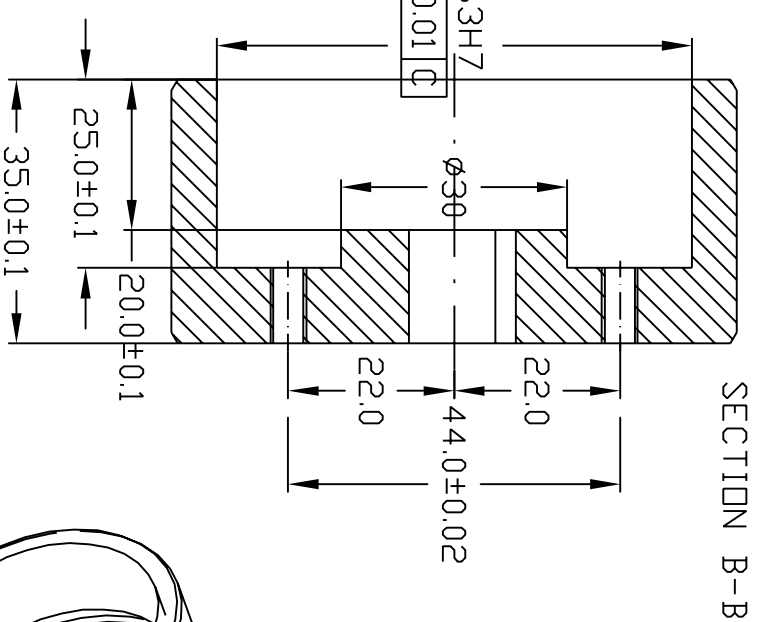
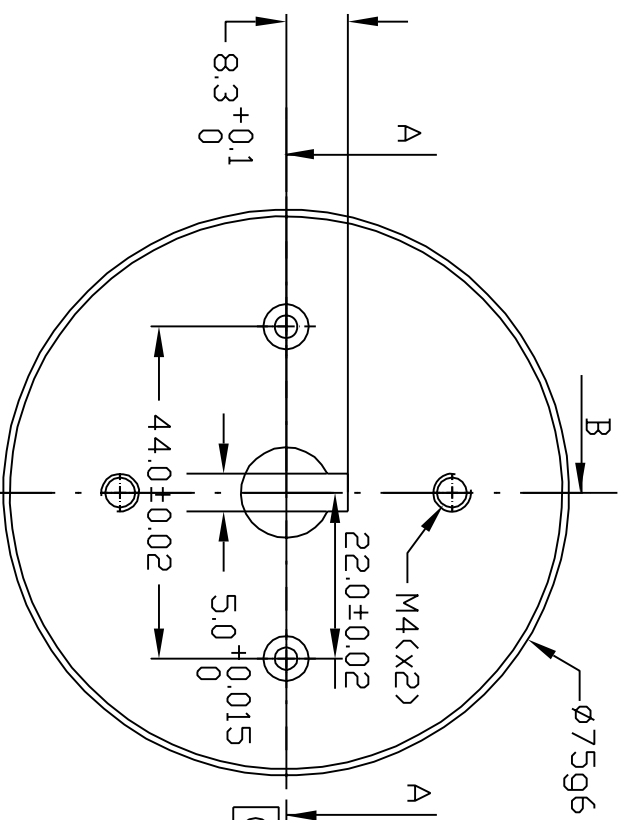
SECTION A-A

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
XX IS ± 0.5
XXX IS ± 0.2
XXX IS ± 0.05
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY: ∇

McGILL UNIVERSITY
WMR

PART NAME: HOUSING		REVISION		DATE		BY	
MATERIAL: AA6061	NO. RECD. 1	No:	SCALE: 1:1	DN BY	TANG FAN	CH BY	J. ANGELIS
		DATE: Aug 2002	PART No:	DWM1.25-W-03			

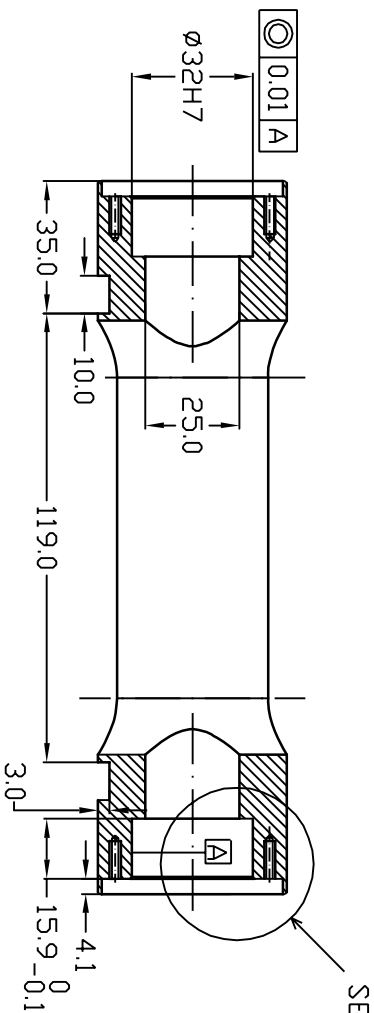
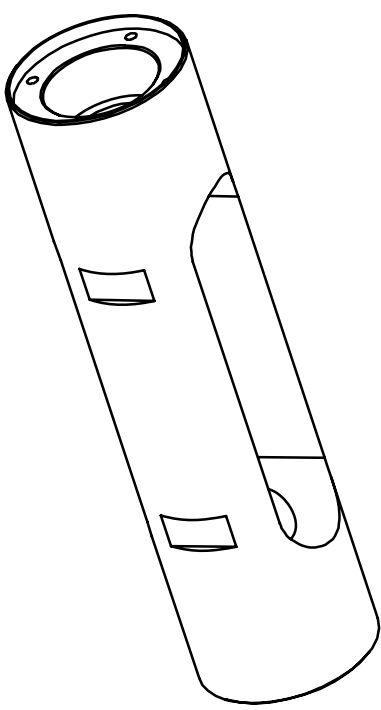
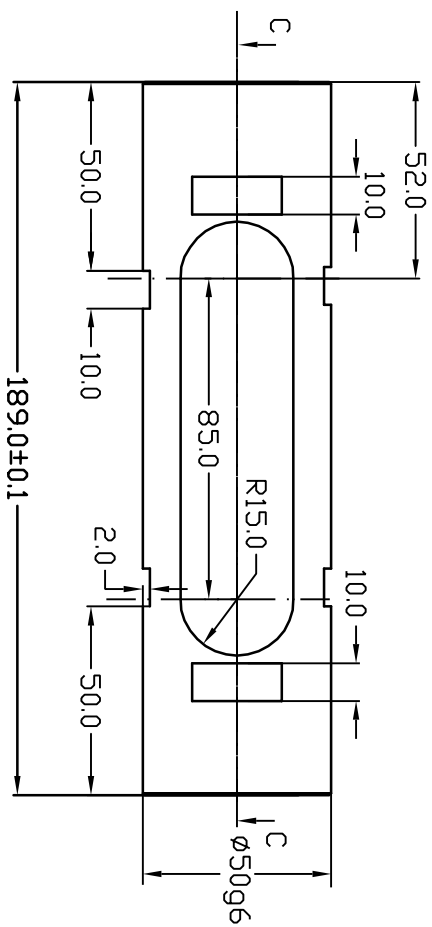


SCALE 1:2

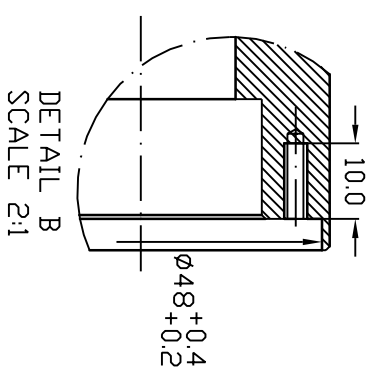
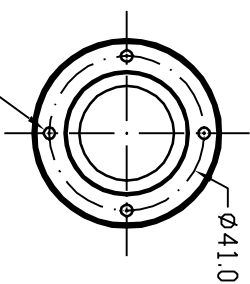
- NOTES:
- 1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.05
X.XXX IS ± 0.010
 - 2) LAST REVISION INDICATED BY: ∇

McGILL UNIVERSITY
WMR

PART NAME: HUB		No:		REVISION		DATE		BY	
MATERIAL: AA6061		SCALE: 1:1		DN BY TANG FAN		CH BY J. ANGELES		REV:	
NO. REQD. 2		DIM: mm		DATE: Aug 2002		PART No: DWM1.25-W-04			



SEE DETAIL B



SECTION C-C

NOTE: ALL CHAMFER 0.5×45°

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE DN: X.
X.X IS ± 0.5
X.XX IS ± 0.2
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY
WMR

PART NAME: ROUND HOUSING

MATERIAL: AA6061

NO. REOD. 1

No:

REVISION

DATE

BY

SCALE: 1:1

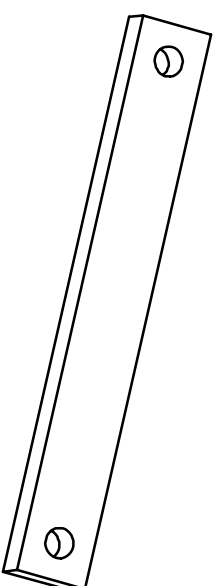
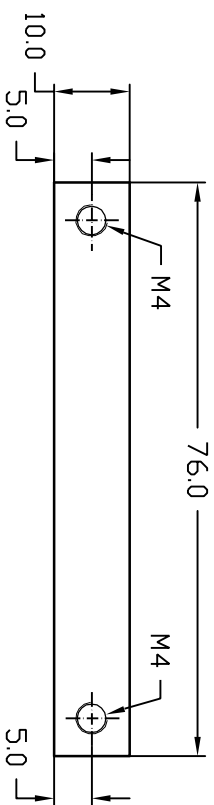
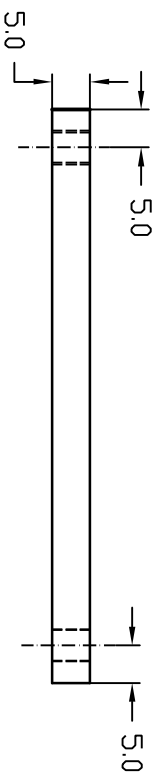
DATE: Aug 2002

DN BY TANG FAN

CH BY J. ANGELES

PART No:

DWM1.25-W-05



NOTES:
 1) UNLESS OTHERWISE SPECIFIED:
 1.1) ALL DIMENSIONS ARE IN MILLIMETRES
 1.2) TOLERANCE ON: X. IS ± 0.5
 X.X IS ± 0.2
 X.XX IS ± 0.05
 X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY: ∇

McGILL UNIVERSITY
 WMR

PART NAME: STOPPER BOARD

MATERIAL: AISI 304

NO. REQD. 2



No:

REVISION

DATE

BY

SCALE: 1:1

DIM: mm

DATE: Aug 2002

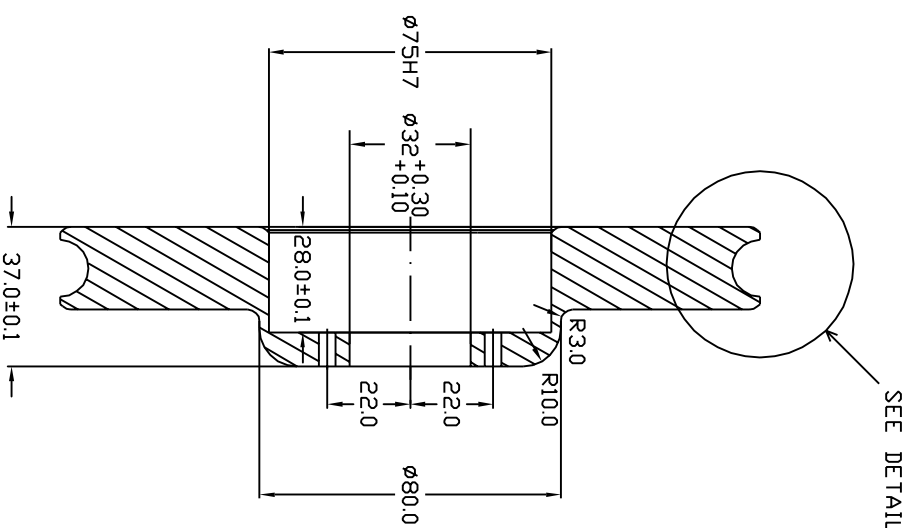
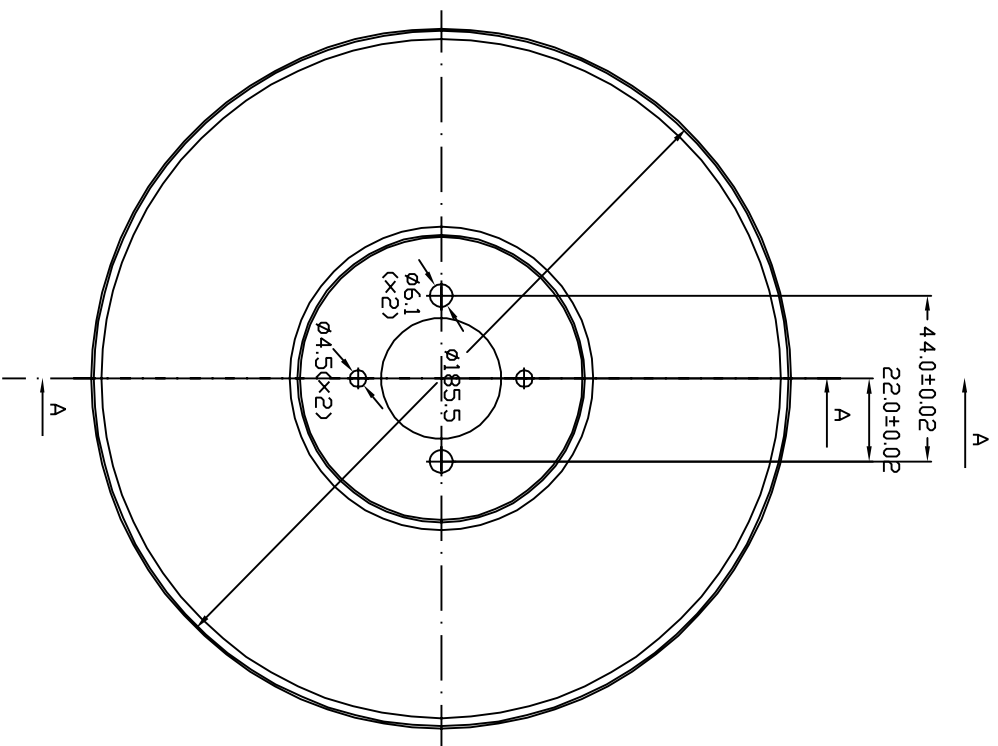
DN BY TANG FAN

CH BY J. ANGELES

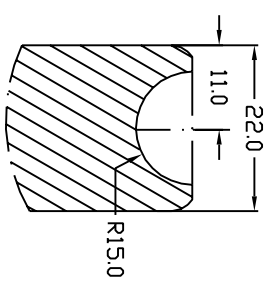
PART No:

DWM1.25-W-06

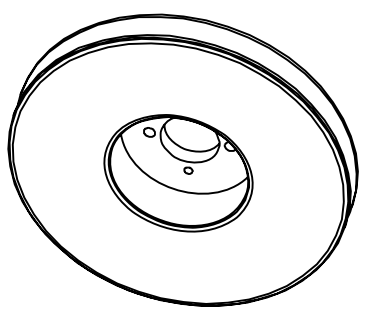
REV:



SEE DETAIL B



DETAIL B
SCALE: 2:1



SECTION A-A

NOTE: ALL CHAMFER 1.5 x 45°

NOTES:
1) UNLESS OTHERWISE SPECIFIED:
1.1) ALL DIMENSIONS ARE IN MILLIMETRES
1.2) TOLERANCE ON: X. IS ± 0.5
X.X IS ± 0.2
X.XX IS ± 0.05
X.XXX IS ± 0.010

2) LAST REVISION INDICATED BY:

McGILL UNIVERSITY
WMR

PART NAME: WHEEL		No:		REVISION		DATE		BY	
MATERIAL: AA6061		SCALE: 1:1		DN BY TANG FAN		CH BY J. ANGELES		REV:	
NO. REQD. 2		DIM: mm		PART No:		DWM1.25-W-07			
		DATE: Aug 2002							