

7 \$ % / (2) & 217 (176

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) X Q F W L R Q D Q J R Q H G U \$ Q Q F R W D W L R Q
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 % R W W R P 7 R R O E D U
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 * H R P H W U L F & K D U D F W H U L V W L F 6 \ P E R O
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9 L H Z V

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' D W X P V

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 3 R V L W L R Q L Q J D ' D W X P
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' L P H Q V L R Q V
& U H D W L Q J ' L P H Q V L R Q V
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7ROHUDQFLQJ \$GYLVRU

\$ Q Q R W D W L R Q V
 & U H D W L Q J 7 H [W
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* H R P H W U \ I R U '
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 & R Q V W U X P W W R J Q & H R D W L R Q
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 7 K U H D G Q M S D U W H L V R Q & U H D W L R
 * H R P H W U \ W & L R R Q Q Q B H D Q D J H P H Q W

1 R W H 2 E M H F W \$ W W U L E X W H

5 H S R U W V

9 L V X D O L] D W L R Q
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)LOWHULQJ
 0 L U U R U
 & O L S S L Q J 3 O D Q H
 & D S W X U H V
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)LOWHU :RUNEHQFK
 \$FWLYH 9LHZV DQG WKH &OLSSLQJ 3ODQH
 & X U U H Q W 6 W D W H
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 &UHDWLQJ WKH 7RS &DSWXUH
 & U H D W L Q J W K H ' \$O O & D S W X U H
 & U H D W L Q J W K H ' 1 R Q H & D S W X U H
 3 U R S H U W L H V
 & D S W X U H 0 D Q D J H P H Q W

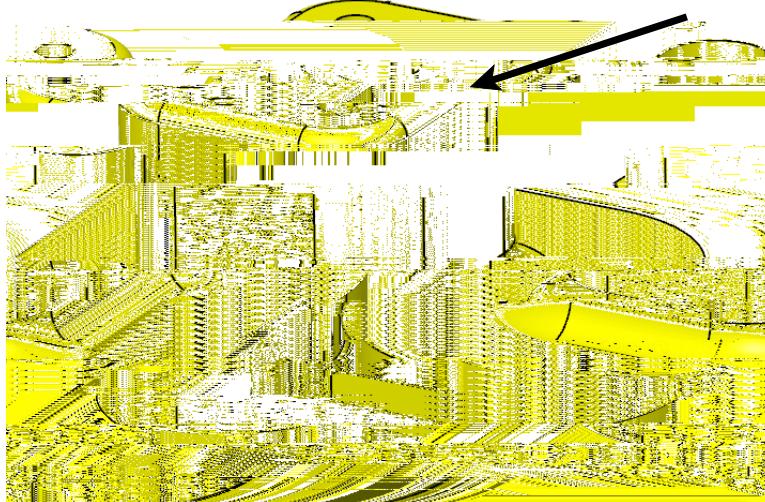
3 U R E O H P V
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\$ S S H Q G L [\$
 0 H F K D Q L F D O ' H V L J Q) 7 \$ 7 R O H U D Q F L Q
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 0HFKDQLFDO 'HVLJQ)7 \$ \$QQRWDWLRQ
 0 H F K D Q L F D O ' H V L J Q) 7 \$ 7 R O H U D Q F H V
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 0 H F K D Q L F D O ' H V L J Q) 7 \$ \$ G P L Q L V W U D

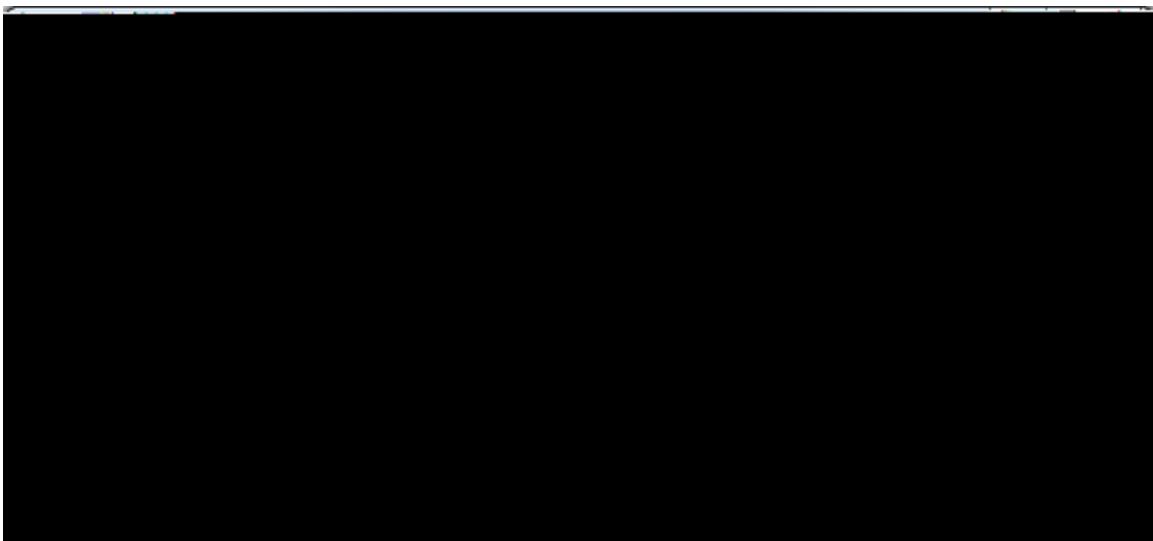
) X Q F W L R Q D O 7 R O H U D Q F L Q J D Q G \$ Q Q R W D W L R Q
)
L Q D ' H Q Y L U R Q P H M Q K A H V H % W X R V R D O V L J C / C B Z G Q P M Q P V D L R Q Q P D W Q H H G
E H F U H D W H G 0 D Q V H F S R U P I S V D V Q H L G I V D Q D L V Q H P D L S V W L Q J R L Q J
H Q Y L U R Q P H Q W F E X O W W I W Q G D E F V R B S D Q M K D Q F X L Q F J W D Q Q D D Q Q R W D V
R Q H V H W R I W R R D O N H W K D H V F D Q Q K V H L O V S R P Q D U H D O L W \
7 R H I I H F W L Y H O \ L F S L O O H F V H K Q W F A R K X H J D M P R L R O Q D X U P Z V W K E W K H
I X Q G D P H Q W D M O U L R I G J L H P R H P Q H V L R Q L Q J D Q , Q V V L R Q Q H R V D Q N F K L I Q J L Q * W H Q
W K L V F R X U V H W R W L H D F R P * H D V V I K V H W V Q E Q S V U K R H Y I L G Q H F G V Z R Q D O
W K H Z R U N E H Q F K O D O R V Z L R V X Z W B Q P Q S U L P O S D Q D O D Q M Q R P O W H D V D H D G H V

7ROHUDQFLQJ \$GYLVRU

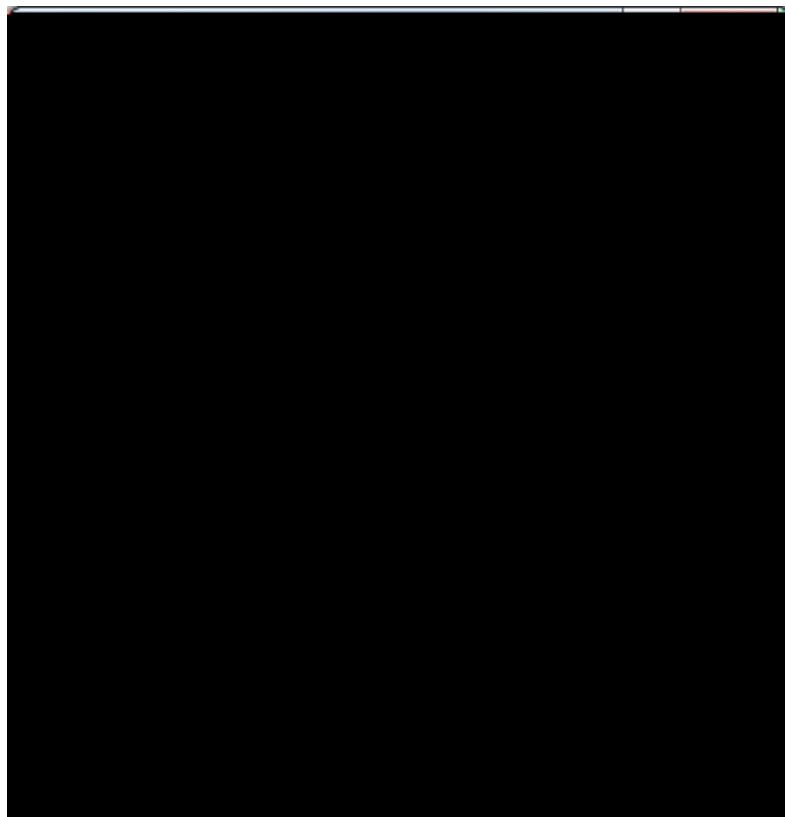
Select the 7ROHUDQFLQJ icon, then select the top of the part.  <RX ZLOO
FUHDWH D IODWQHVV WROHUDQFH IRU WKLV IDFH



<RXU ZLQGRZ VKRXQG DSKSHDRJOIW DQMRZQU V\$ Q X LW RWKHLRSWL R
DUH QRW YDOLGRU DQQLQWCH SXIWWOL GHQWL VRFSXWLRHQGLQ HD
H[HUFLVH



Select the *Unit Basis* tab.



+ H U H \RX FDQ VS HF W R O HUHDIQ Q H P R Q WDK M PDXQD B B HD D Q B Q J
W R W D O YDULDWL R Q R U \RX FDQ XVH LW

Change the symbol to) O D W ~~With A~~ Value of 0.03.

W K H W R O H U D Q F I D U I Q D W K, H V J K U D D S D H E E I Q H D T W I K J L W \ O / R R N L Q W
V S H F L I L F D W L R Q, W W U M H U I D G e n e r a l T o l e r a n c e Q D V W H D G e s e s I D

6 W U D L J K W Q H V V

6 W U D L J K W Q H V V ~~W B S Q I U H D Q F W H R V F X D Q I D F A H H D Q H V P H R Q W F H Q W H M U I H D W X U H V R I V L] H~~

, I D S S O L H G W R D R V O X U K D F Z H V W W D F V R U Q R W V D K O H L Q X I U H I D F H P H P Q V W W R P H H W W K H G H V I \$ J Q Q U C H L T Q X H L U H I O R D P C H M Q K A D V Y H R I W R K H [V X W I Z L W W R O H U D Q F H] R Q R H S / S W I S O Q V M C G C E H G M E V E D W U K D M W R O H U D Q F H Y

, I D S S O L H G W R D Q Q D H L V R I D O U F F O R Q M Q H I F D D W H F D R W Q X M W H R O V W K R I W K H D [L V 7 K H W D Q L W K P L X Q V W W K H I L A L R I O H G U D E Q F D H F] R Q Q Q G / S U H Z G L D P H W H U K H W R X D H Q D V Q R F M Y D O X H

, I D S S O L H G W R D F H Q W H U S O D Q D H F H L W (Y M U F R Q L W Q H R D O H B H V S O D Q H P X V W H [L H M U D Q E M W K R Q H W K S H D F R O D H G S E Q D A Q Z H R W S H D Q D U D V E \ W K H W R O H U D Q F H Y D O X H

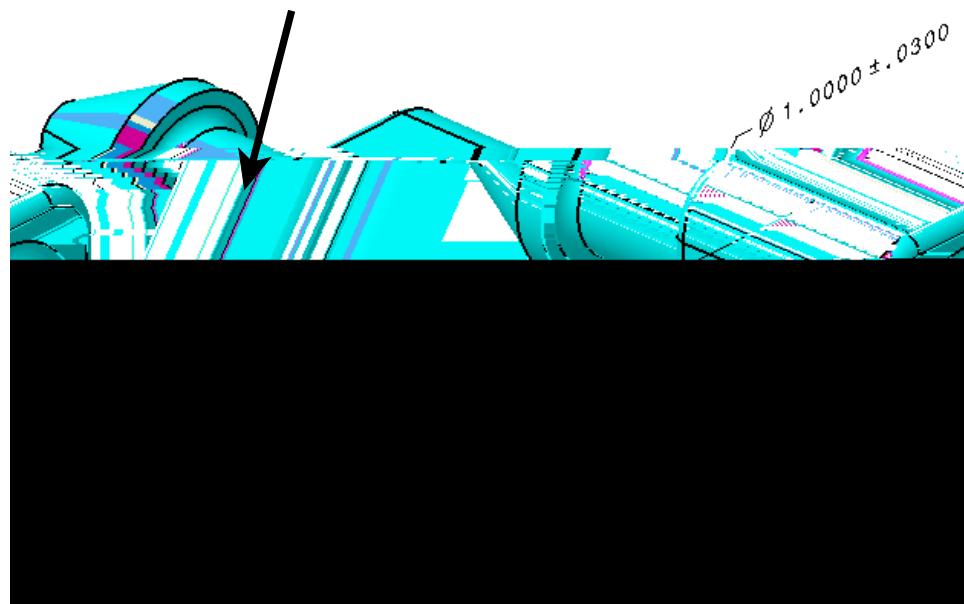
Open the 6 W U D L J K W H V V 7 Z R Y L H Z V D Q G W Z R G L P H Q V L R Q V D

7 R O H U D Q F L Q J \$ G Y L V R U

\$ V V W D W H G E H I R U \$ G Y L K / H R U R Q H M U D Q U Q F V J G V R D H W R J Q D D Q D M O R O H F U H D W H G

Select the 7 R O H U D Q F L Q icon, then select the cylindrical surface indicated

below.  < R X Z L O O F U H D W R H D U D V Q B B L I R K W W Q M D Q R W X D I D H F D I W X V L] H V R W K H W B S Q I U H D Q F W H R Z W C Q W C H Q D H X H Q D H F P H H Q Q R W R W R W R L V F H Q W H U O L Q H

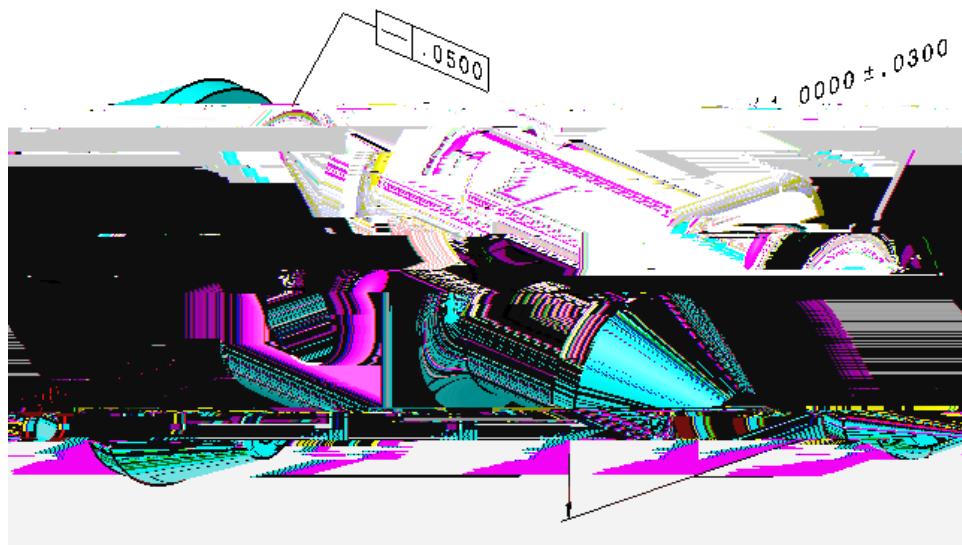


7 K Semantic Tolerancing Advisor L Q G R Z H [S D Q G R Q D Q M G K W W H Z R S W L Q R W Y D
W K H F X U U H Q W H V E H O H Q F W L O R / Q H K B G D Z D \

6 H O H F 6 W W D K L H J K W Q H V V 6 I S F H F Q I L F 7 G M P R C Geometrical Specification
Z L Q G R Z D S S H D U V

& K D Q J N u M e K d a l Y D O X H W R O K D Q K H M O R I O F M D Q F H D S S H D U V D G
7 R O H U D Q F L Q J \$ G Y L V R U U H P D L Q V D F W L Y H

Select *Close*, then position the tolerance as shown below.



Select the tolerance, then press and hold the first mouse button on the yellow diamond.

Change the *Numerical value to 0.05*. 7 K H G L D P H W H U D W L F E D R O O \ D X S V S R H P D U V L Q I H D W X U H F R Q W U R \$ N Q B Z M W L K Q D F W H L Q S V M R O B I U F D Q I F Q G J U R Q F D \$ O V P D W H U L D O F F Q Q G I U M L Q R Z L B Y D L O D E O H

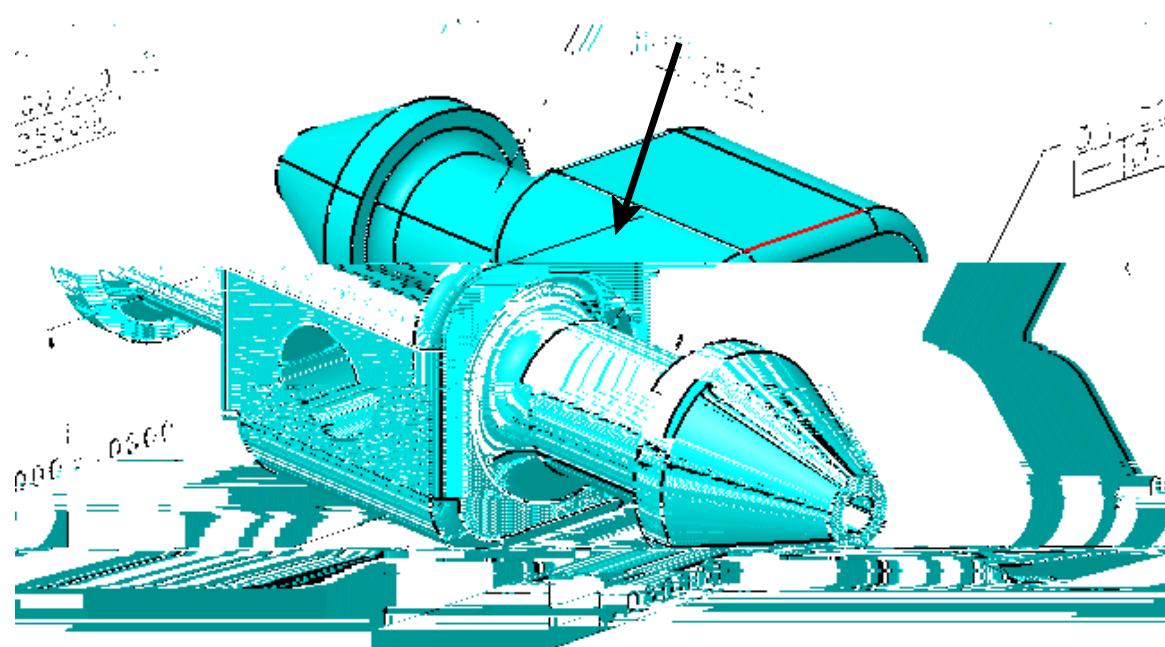


Select the 0 D [L P X P 0 D W H U L D ~~non~~ & G L T K L L R / Q D O O R Z V I R U H [W U D W R Z K L O H V W L O O X I Q Q F W X U R L Q Q B R I W D K V H V H P E O \

Select *OK*, then select *Close*. 7 K H V W U D L J K W Q S H V D / U W R E O H I Q U H D D Q W F K H V D K H G L P H W R O H U D Q F H D Q G I K Q D V V D R S R W L W : I K R R Q D M O H V H V G K P I H V Q R / O R Q D Q F H Z P R Y H Z L W K L W 7 Q H U M D Q U F D H L D I O W B P H H M V V W W V D V Q W W K K H G M D P H Q V L R



Select in the *Definition Element* field and select the edge shown below.



Select OK. 1 R U P D O O \ W K H W R D D W B Q F Z L W I K O W K E H G L P H Q V L R Q

Position the tolerance so that it is beneath the dimension.



Select the tolerance, then press the third mouse button on the yellow diamond at the end of the leader and select *Remove Leader/Extremity* from the contextual menu. 7 K H
O H D G H U L V U H P R Y H G

Change the dimension's leader to 7 Z R 3 D then move the dimension below its bottom extension line.  7 K H W R O H U D Q F H I R O O R Z V

\$ V W U D L J K W Q H V V W R O H U D Q F H F D Q D

Open the 6 W U D L J K W Q H V V document. W <%> V Z L V O O G H I L Q H V R P H V W U D L W R O H U D Q F H V V Z K W Q M Q L V Q H E D W K L H P W R O H U D Q F H V

Select the 7 R O H U D Q F L Q icon  L V R S K h Geometrical Tolerancing Advisor L Q G R Z D S S H D U V

Select the top face of the part, then choose the 6 W U D L J K W Q H V V 6conH I L F D W L R Q 7 K Geometrical Specification L Q G R Z D S S H D U V R F D Y M L H F D D D V F D U X H M D W H G V W K H U H Z H U H Q R Q H E H I R U H K D Q G

Change the *Numerical* value to 0.05 and select the *Unit Basis* tab. 7 K H R S W L R Q V K H U H D Y H U \ V L P L O W Q H W R / V R I S M V I L Q Q V H [F R H Q S H W O M I Q D W K W Q H I L I Q I L W L R R Q Q D



7 K Whit Basis W D E V S H F L I L H V D Q B H I L R Q U H D H V Q P M D Q M R S D O H D Q D D H Q D D R K Q R J I W Z L W K D W R W D O Q Y E H L D W H L Q R C E \ R D D W H H M O R D X , Z Q L Q W Q L W S A F L I \ D U H I I V W D W L Q J W K D W K I R U P D [L P X P H Q J W I M W R Q F D Q R Q O \

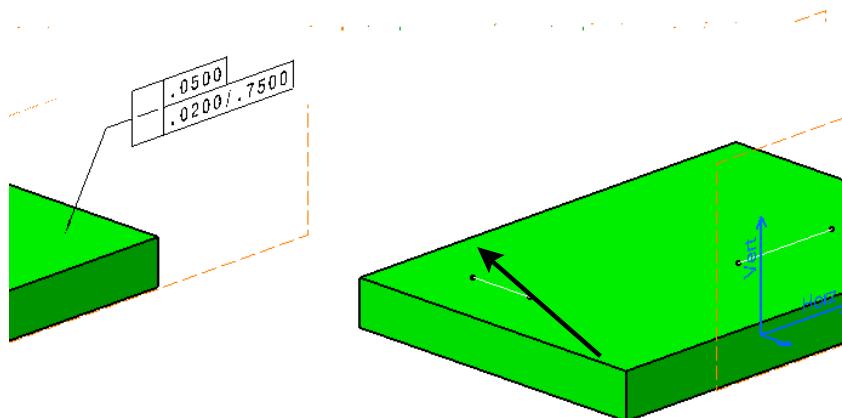
Select the *Applied on Unit Basis* and *Refinement Tolerance* options, change the

Numerical value of the refinement to *0.02* and *Length 1* to *0.75*, then select *OK*. \$ V P D O O
P H V V D J H D S S H D U V W L Q R W Q H H I O R Z H W K H L W \$ I Z Y \$ V Z K Q G / R D P H P H V
E H I R U H

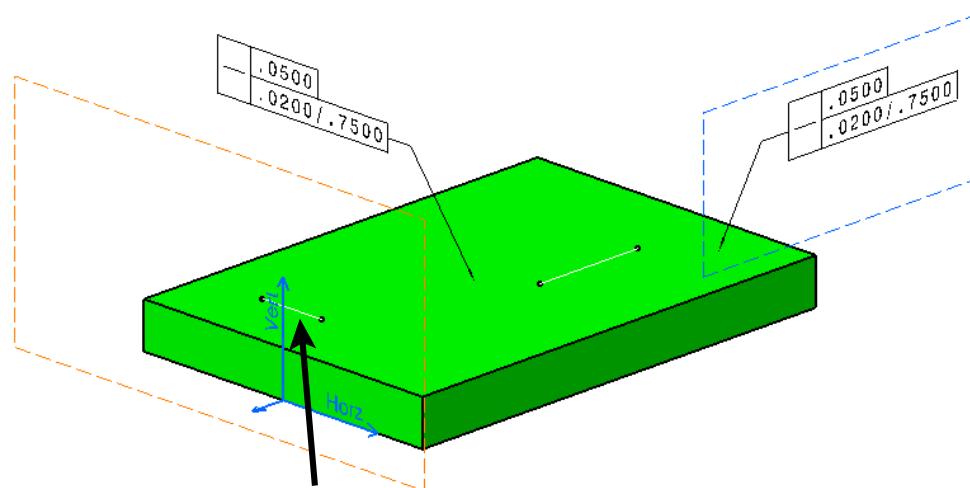
No definition element has been selected.
Hence, the created geometrical tolerance applies to all the lines defined by
all the possible intersection planes. This is not explicitly allowed by
GD&T standards. Make sure it is really the specification you want to define.

Select *Close*, then double-click on the tolerance just created. : K H Q X V L Q J D S O D Q H
W R O H U D Q F R I U G W K H F V W L B Q L U K W Q H V V P X V W E H V S H F L I L H G

Under the *General* tab, select in the *Definition Element* field and choose the line indicated below, then select *OK* and position the tolerance as shown here.



Create a view normal to the existing view, then create another straightness tolerance as shown below using the other line as the direction. 



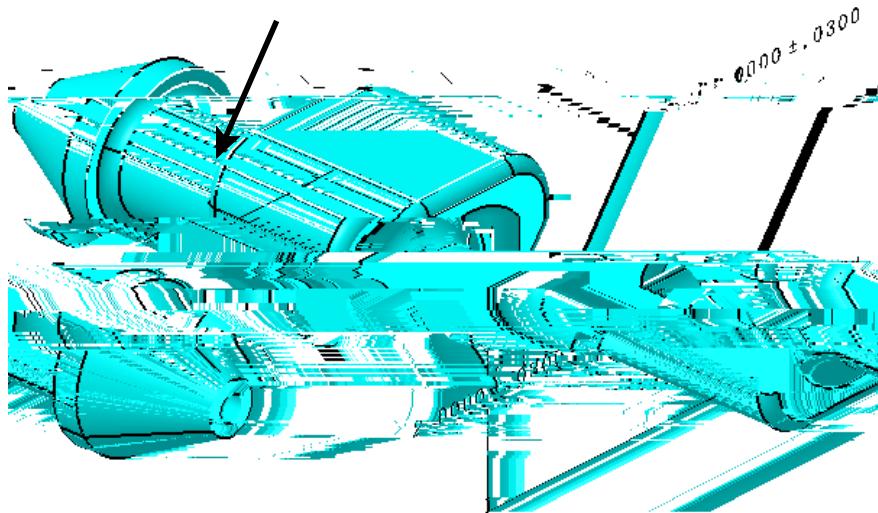
Save and close the document.

0 D Q X D O O \

1 R Z \ R X Z L O O P D Q X D D H O U H R P H W U L W D G W R O H U D Q F H V

Open the original 6 W U D L J KtWnCenter again, then select the * H R P H W U L F D O
 7 R O H U iDnQ [] 1 R W K L Q J Z L O O H K O I S B H Q W K Q W L V H F W H G

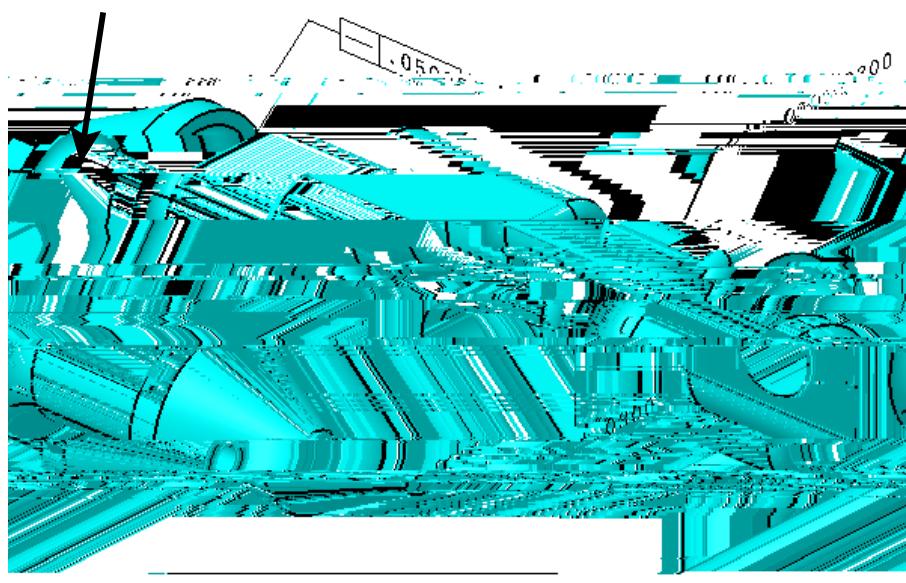
Select the cylindrical surface shown below. 7 Geometrical Tolerance Z L Q G R Z D S S H D U V



Change the specification to 6 W U D L J KtWnCenter 0.05 for the Tolerance and click OK. — 7 K L V W R O H U W Q F W K L H M H R G O Z H L Q W C H H D Q F R Q J \$ G Y L V R U

Select the * H R P H W U L F D O icon, Open the Geometrical surface shown below.

[] 7 Geometrical Tolerance Z L Q G R Z D S S H D U V

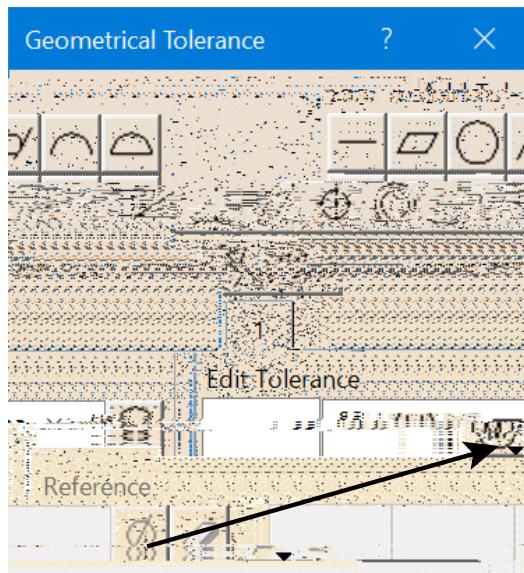


Change the symbol to 6 W U D L J ~~With a value of 0.03~~ and select **OK**. — The tolerance appears.

Select the * H R P H W U L F D O icon, Open the **Edit** of the **1.0000** dimension.  7 K H Geometrical Tolerance Z L Q G R Z D S S H D U V

Change the symbol to 6 W U D L J K  H V A K L V W L P H D G L D P H W H U V \ P E Z L W K W K H Y D O X H Q R Q F B X & \$ R P \$ D M U C O O R O O H D U G D Q Q E W Q Q L \$ N G H Y M

Select before the value in the **Edit Tolerance** field, then select the symbol drop down as shown below. \$ P H Q X Z L W K Y D U L R X V V \ P E R O V D S S H D U V



Select the 'L D P H ~~symbol~~'  7 K H G L D P H W Q V H V U V E R O E H V R U H W K H

Change the value to 0.05, then select the symbol drop down again and choose the 0 D [L P X P 0 D W H U L D ~~Symbol~~  L W T R Q V \ P E R V O H I G V D I Q V H H U W K H Y D

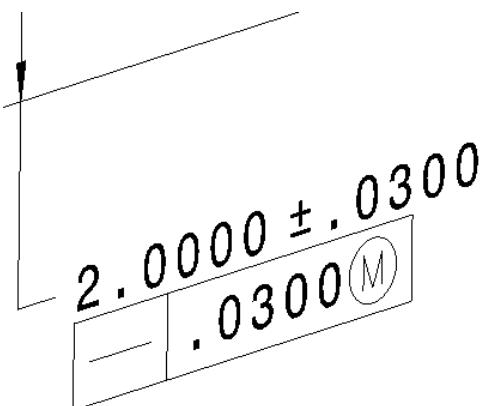
Select **OK**. 7 K H W R O H U D Q F K H D S S Q I D H Q F O B R D M V S M Q L S I R F D Q M L R Q W 7 K H * H R P H W D Q F D I O R T S R V L H R U Q U G H R Q H W O Q R V O F R X Z U D Q J Q W Q H V V W R E H G H I L Q H G L \$ W D D I Q Q V R X W V H S R V L W L R Q H G

Select the * H R P H W U L F D O icon, Open the **Edit** of the **2.0000** dimension.  7 K H Geometrical Tolerance Z L Q G R Z D S S H D U V

Change the symbol to 6 W U D L J ~~K with M~~ with a value of 0.03. —

Add the 0 D [L P X P 0 D W H U L D ~~Symbol after the value~~ in the Tolerance field and select OK. (M) 7 K H W R O H U D Q F H D S S H D U V

Change the leader of the 2.000 dimension to 7 Z R 3 D then position the tolerance beneath it as shown here.



7 K H U H D U H D F R R X Q Q M H R I K W I K W Q J W H D Q L J M R / Q H U D Q F H Z D V X Q D E G H I L Q H G D Q G V W H Q W J H K U W Q E D Q H D Q W K C H R U N D Q F R T X G L U U H F W L R

Close the document.

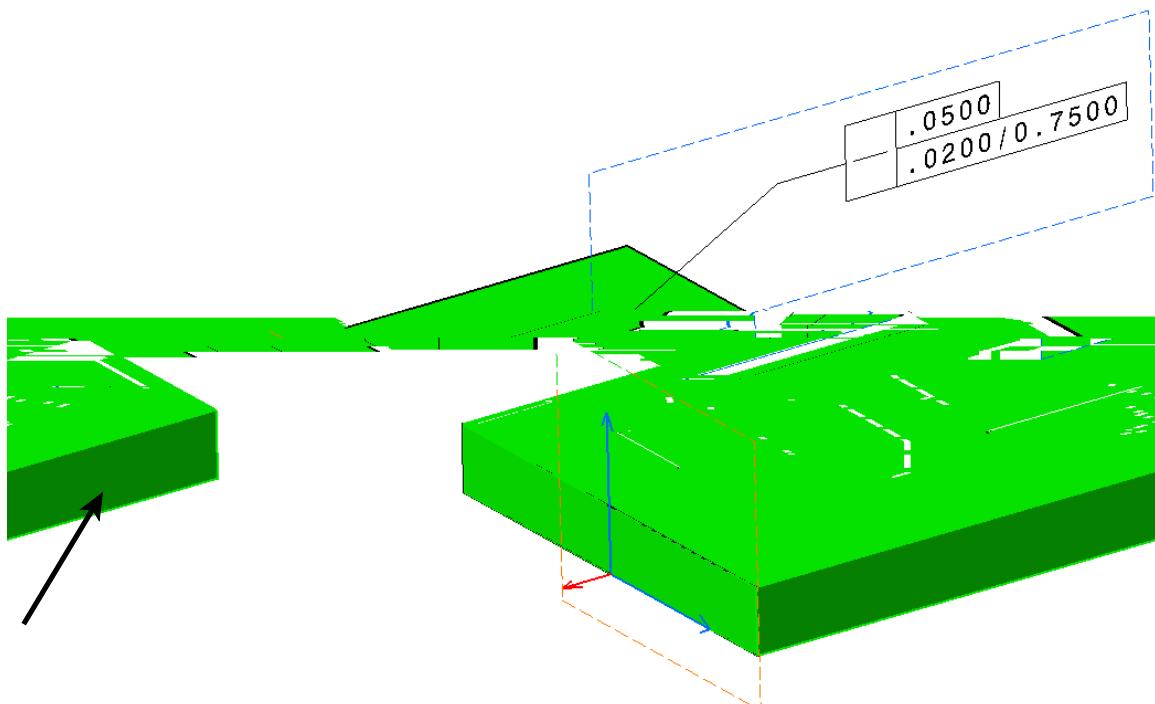
Open the 6 W U D L J K W Q H V V document.

Select the * H R P H W U L F D O icon, then select the top face of the part.  7 K H
Geometrical Tolerance Z L Q G R Z D S S H D U V

Change the symbol to 6 W U D L J K W Q H V V value of 0.05 and select OK.  7 K H
W R O H U D Q F H D S S H D U V

7 R G H I L Q H W K H F R R W U K H H U F W W C O H D U G D Q X H W H H Q W & Y L 7 H \$ Z V O U H Q R V
D X W R P D W L F D O O \ P K D H N Q H W D K Q H M Z R Y G L H H D X D \ P H O \ P D Q

Select the 9 L H Z) U R P 5 H icon, then Create a front view on the face that is shown below.  7 K H Y L H Z L V F U H D W H G



& L U F X O D U L W \

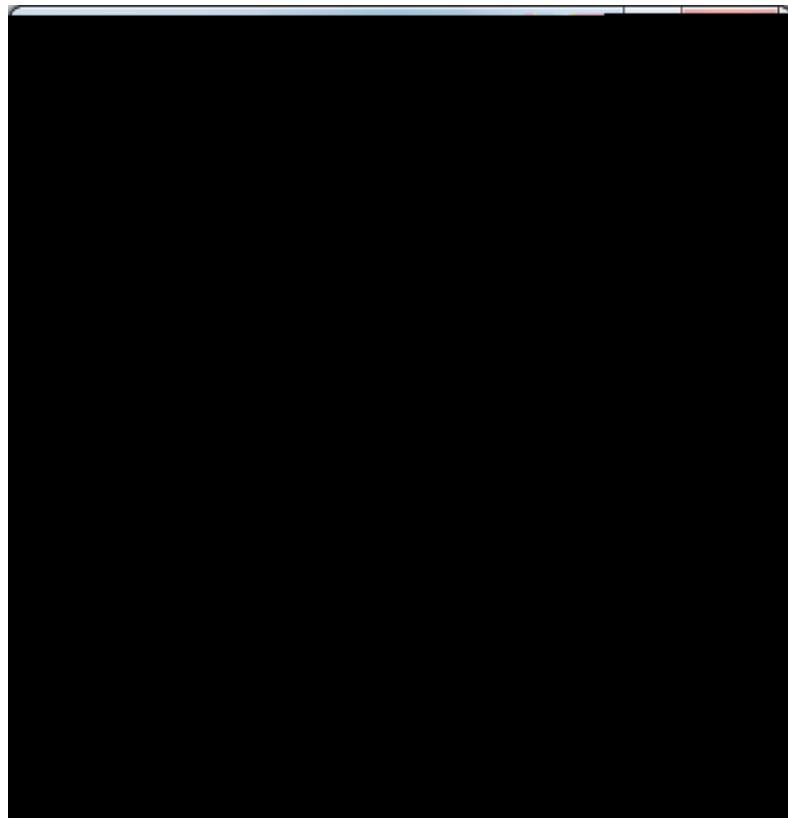
& L U F X O D U L W \ W O R Q R Z U D U Q F X I Q V G F D R Q X M W D H U H W P R X V P M H E M H W Q H R G H
U H T X L U H P H Q W V

, I D S S O L H G W R D Q X D U V D S F K S H R B R Q W D V Q D W D F K H H W K D W D U H L Q W H
S O D Q H Q R U P D O W R X U W B A H D P L X W V R I H R Y Q K N H W D Z Q L F V M K J L R Q Q M V K V S H W F L I L
F R Q F H Q W U L F F S D I E O H M H Q H E D D Q B H U H W D R C B X H

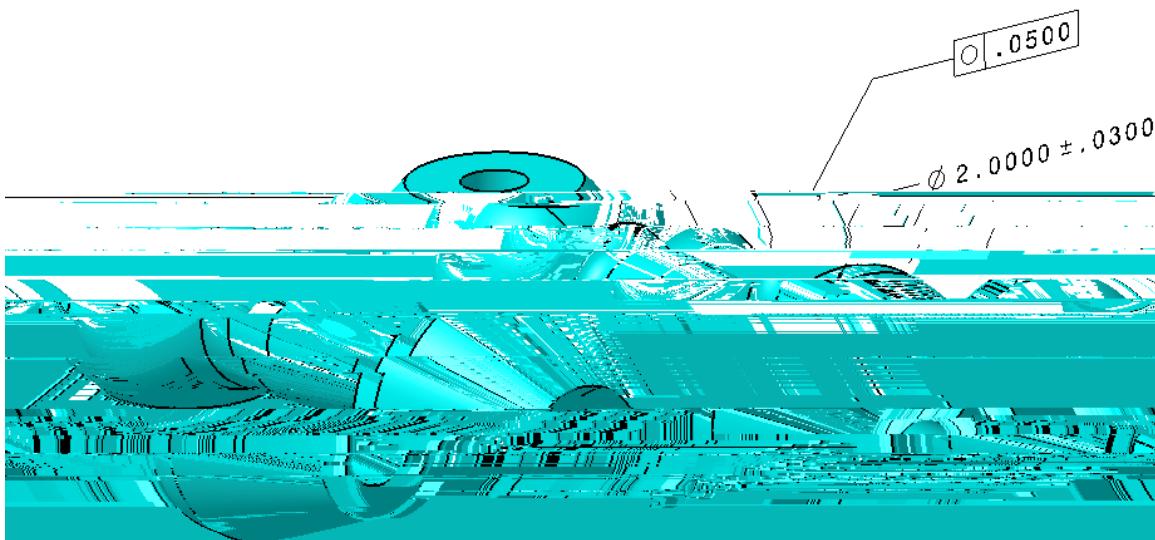
, I D S S O L H G V O R D S R / L S Q K W W D H I H D W K H D W X D W H G L Q E W B Q \ S O D Q H S
W K U R X J K W K H F H Q K W H U H S P R X L V Q W W H R L O W W E Q V A H K U Q Q V H K V S W R L I L H
F R Q F H Q W U L F F S D I E O H M H Q H E D D Q B H U H W D R C B X H

Open the & L U F X ~~Annotations~~ \

Select the **Geometrical Specification** icon.

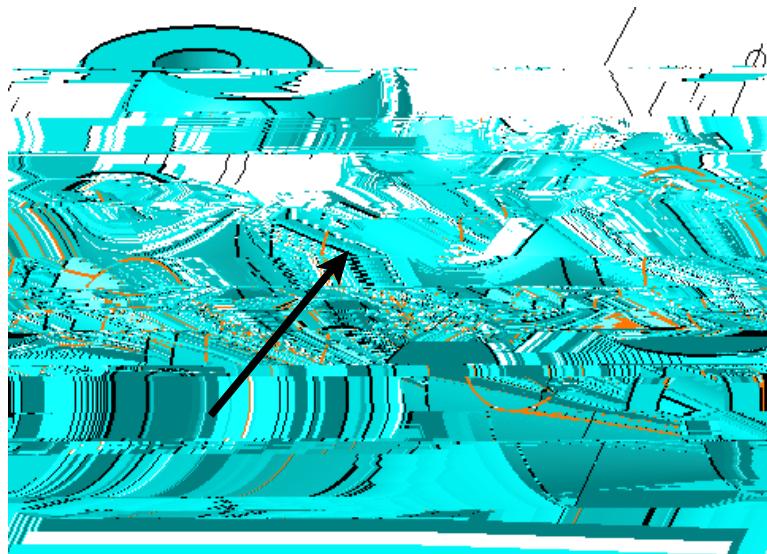


Change the **Numerical value to 0.05** and select **OK**, then select **Close**. 7KH WROHUDQFH
DSSHDUV 3RVLWLRQ LW DV VKRZQ EHORZ



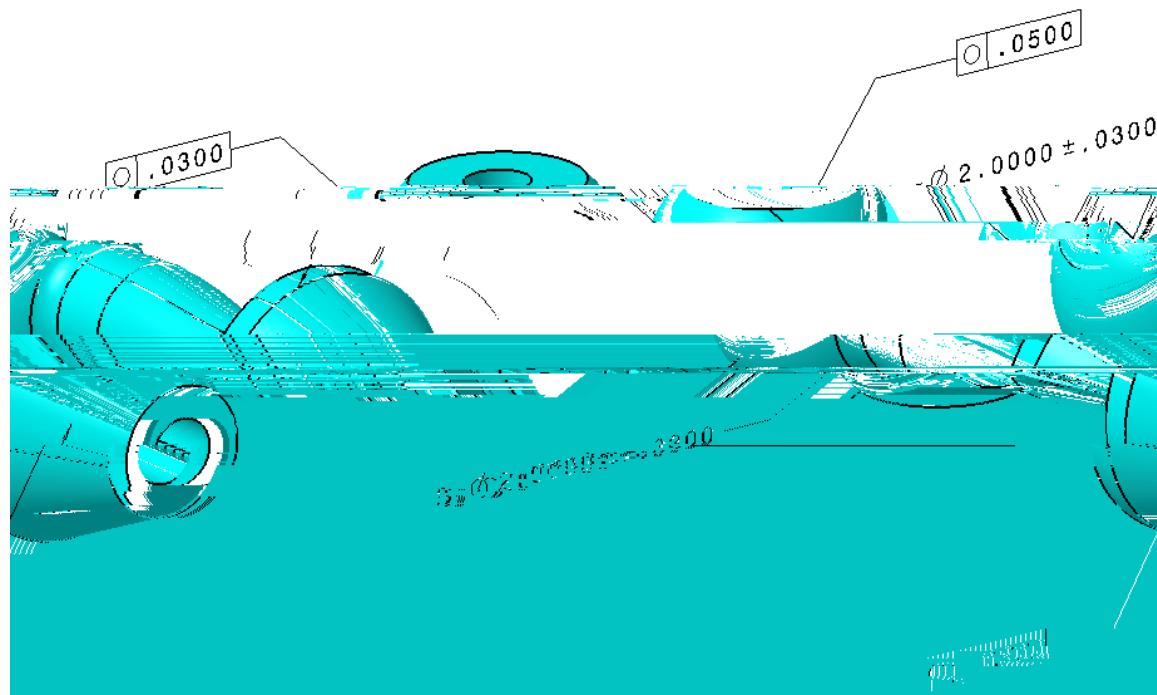
&OLFNLQJ DQG GIDQRJZ QQLBRQRQKG HDWHD Q/HKUH ZHQOGO RHQDKEIO ID L W
LQ D FLUKF DOBRX QSD WLKPHL QDU UDV/RHWKK HROLVQMDLS QWQHV V

Select the surface shown below. 7 K H F L U F X O D W L Q R \ W R D S S L R D U G R T K L V L V D
 O L P L W D W L R Q R I W K H 7 R O H U F D Q F X Q D S D Q M E V A R F Q J H H U D D Q H G Z L W K
 * H R P H W U L F 7 R O H U D Q D H E H F R Q Q V R Q M H P W D Q W L



Select the spherical surface instead, then select the & L U F X O D U L W \ 6 i 8 o H F L I L F D W L R Q
 7 Geometrical Specification Z L Q G R Z D S S H D U V D F R X F Z L O O D U S W D F W R O H
 R Q W K H V S K H U H

Change the *Numerical* value to **0.03** and select *OK*, then select *Close*. 3 R V L W L R Q W K H
 W R O H U D Q F H V D V V K R Z Q



Save and close the document.

0 D Q X D O O \

1 R Z \ R X Z L O O F U H P D H W W H U W R K D O V D R @ H J W H R Q F H V P D Q X D O O \

Open the & L U F X Document, then select the * H R P H W U L F D O icon  U D Q F H (Q V X U H \ R X R S H Q X P K H Q V R U Q J R L V Q D A O K @ R R A Q K H L Q R J X Z V D V H K G D S S H Q D Q H O H P H Q W L V V H O H F W H G

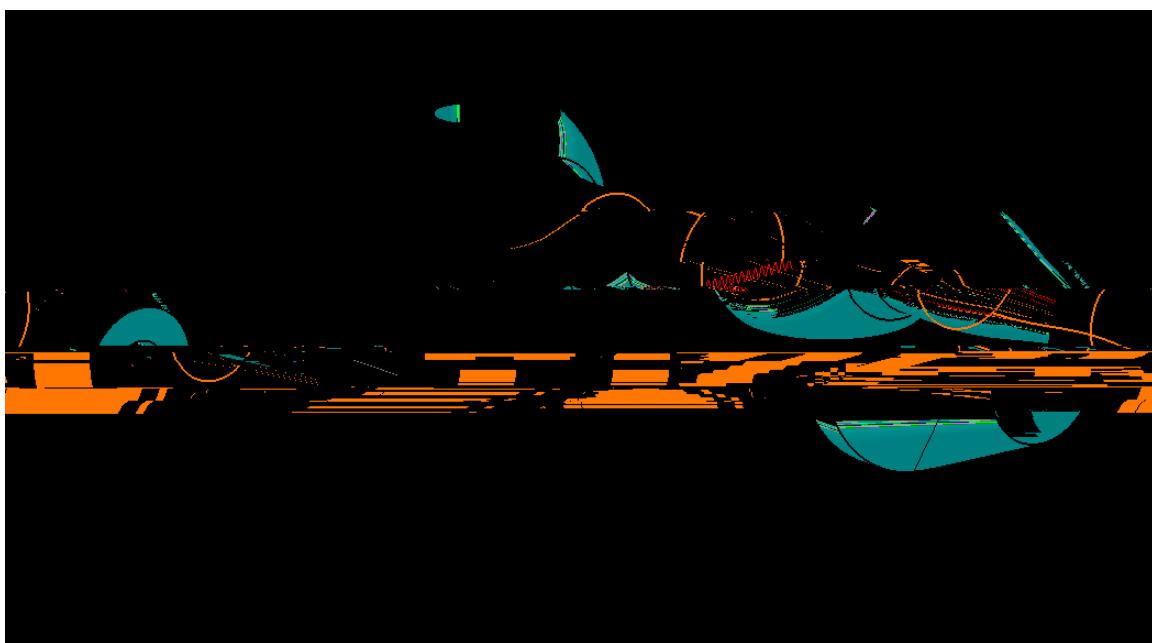
Select the cylindrical surface, then change the symbol to & L U F X O  I L W \

Enter 0.05 in the *Tolerance* field and select *OK*. 7 K H W R O H U D Q W H L D S S G H D Q U W / L F D W K H R Q H F U H D R M O H G U @ Q W K Q W K \$ H G Y L V R U

Select the * H R P H W U L F D O icon again, then select the conical surface.  7 K Geometrical Tolerance Z L Q G R Z D S S H D U V

Change the symbol to & L U F X  With a value of 0.03 and select *OK*.  7 K H W R O H U D Q F H D S S H D U V

Select the * H R P H W U L F D O icon, then select the surface shown below.  7 K Geometrical Tolerance Z L Q G R Z D S S H D U V

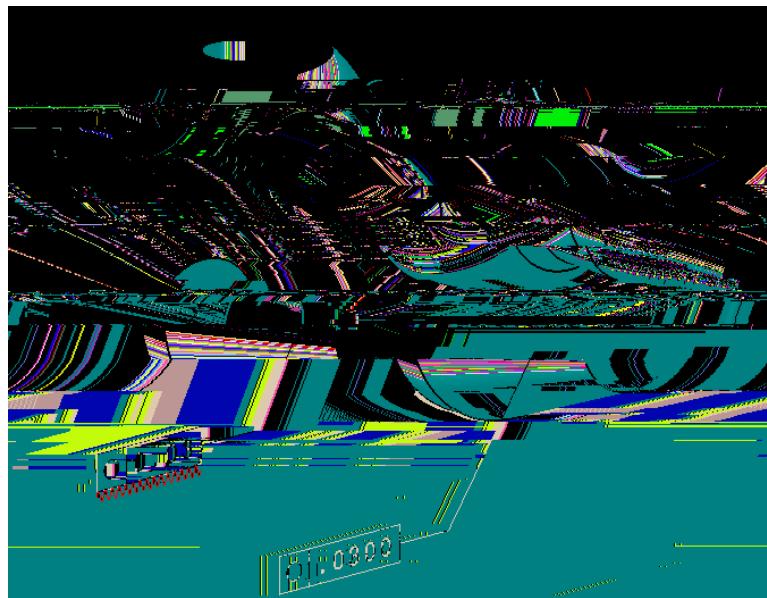


Change the symbol to & L U F X  **Value of 0.03 and select OK.**



7 K H

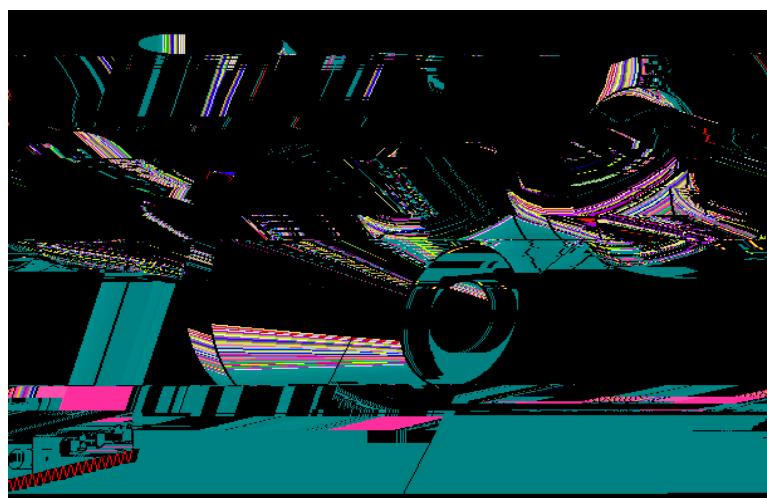
W R O H U D Q F H U H G Q R Q V L I O P D O Q M D L / F W H E Q W Z D V V F W H D M , W D S S H D U
W K H U H G V T X L J W \ D Q Q H I E Q I E D M M R H D I V W D U L F D O W R O H U D Q F H
V S H F L I L F D W L R Q W U H H



7 K H Y D O X H G I R G Q R W D D G M X V M R W C Q / K Q D Y Q H V E H P D D Q X W I H F L W < R X F D
I R U F H L W W R U H B G L Q R J U M K H T W H Q D F E W W R Y Q Q H X H \ R X Z D Q W

**Double-select on the new geometrical tolerance. 7 K H Geometrical Tolerance Z L Q G R Z
D S S H D U V**

**Change the value to .0300 and select OK. 1 R Z W K H Y D O X H U H D G V S U R S H U O **



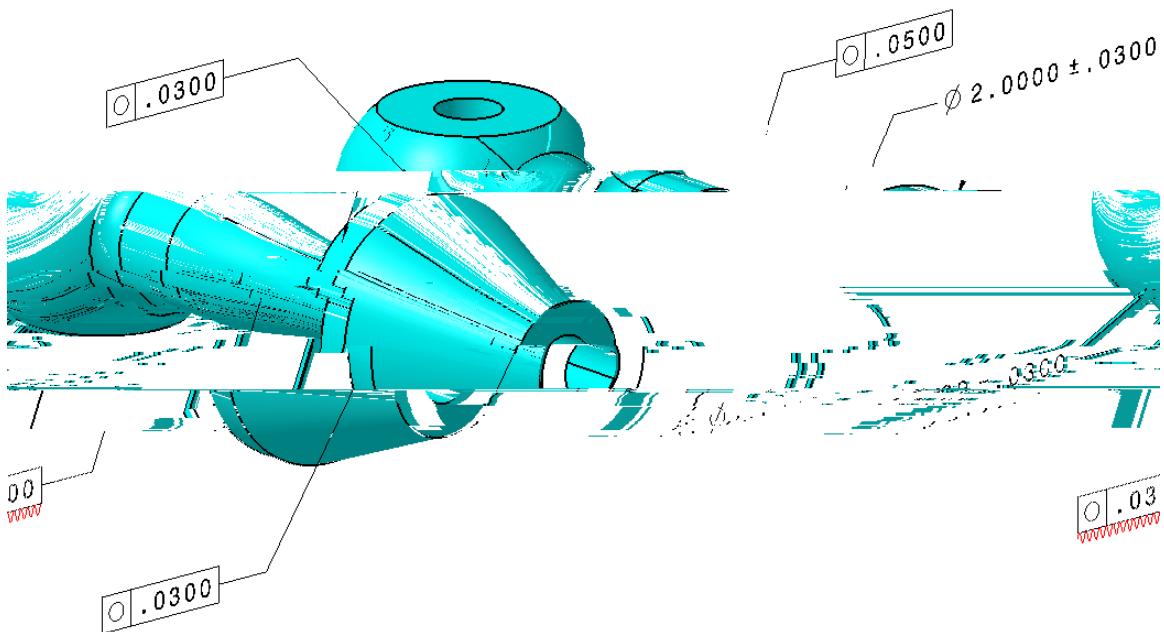
Select the * H R P H W U L F D O icon, Open select the spherical surface.  7 K H

Geometrical Tolerance Z L Q G R Z D S S H D U V

Change the symbol to & L U F X With a value of 0.03 and select OK.
WR OH UD QF HV DV VK RZ Q EH OR Z



3 R V L W L R Q W



Close the document.