



**Министерство науки и высшего образования Российской Федерации  
Федеральное государственное бюджетное образовательное учреждение высшего образования  
«Московский государственный технический университет имени Н.Э. Баумана  
(национальный исследовательский университет)» (МГТУ им. Н.Э. Баумана)**

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**ФАКУЛЬТЕТ «ИНФОРМАТИКА И СИСТЕМЫ УПРАВЛЕНИЯ»  
КАФЕДРА «СИСТЕМЫ АВТОМАТИЧЕСКОГО УПРАВЛЕНИЯ»**

## **Самостоятельная работа №1.81**

**"Сборки во FreeCAD"**

**Вариант 27**

Студент группы

Соин А.Д.  
10 апреля 2025 г.

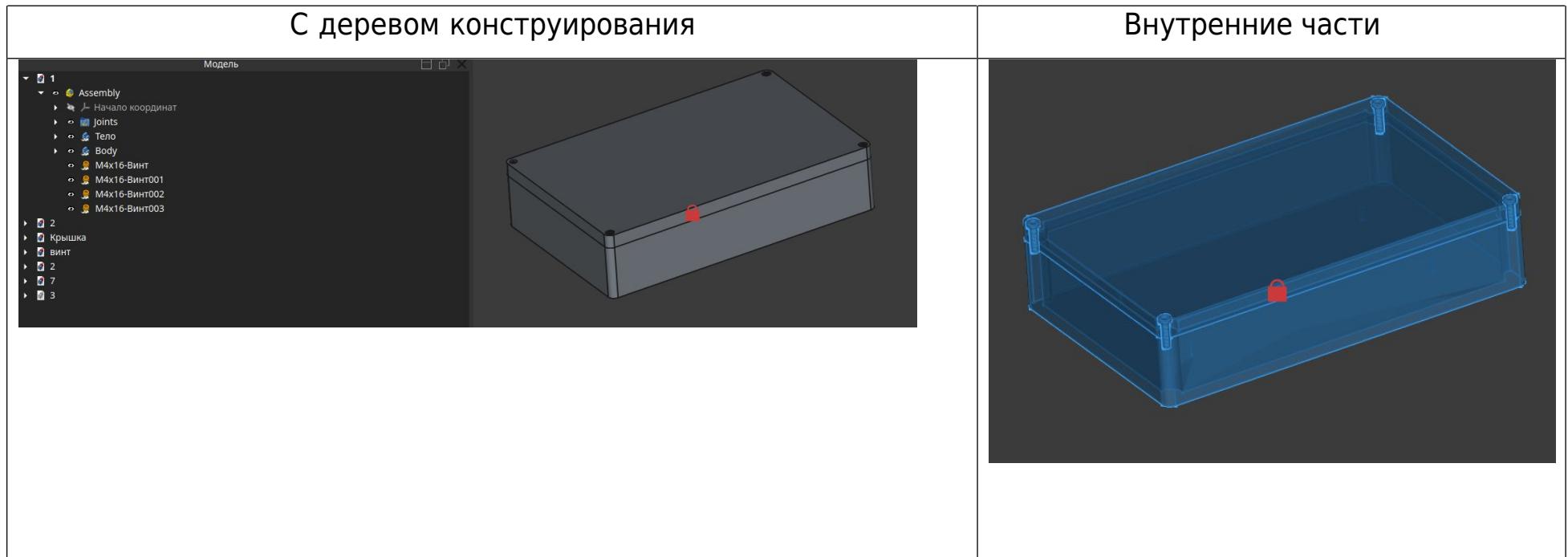
Преподаватель

Викулов А. Н.  
«\_» \_\_\_\_\_ 2025 г.

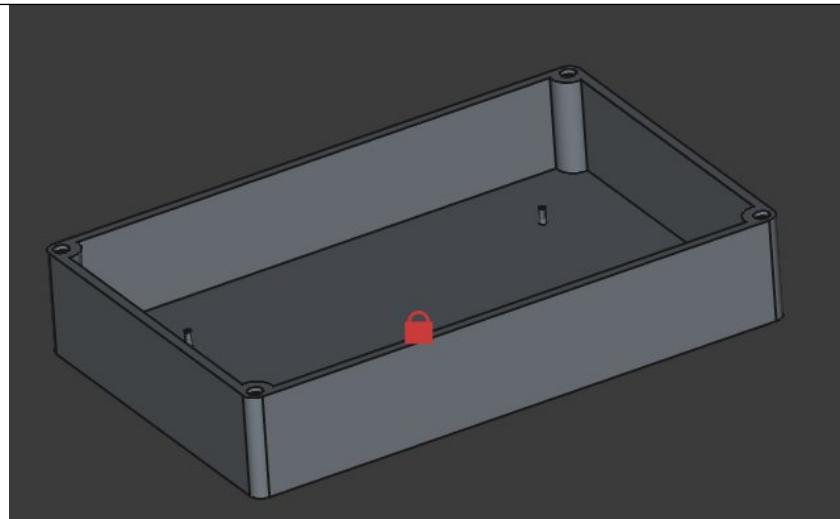
2025

# ДЕТАЛЬ 1

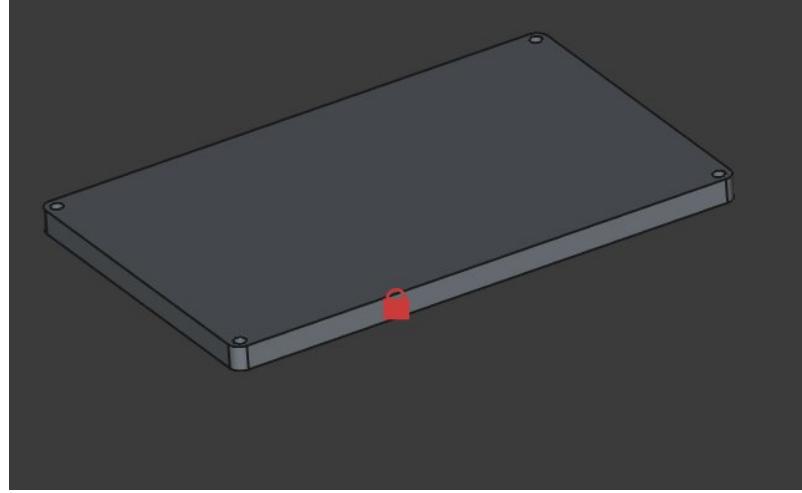
## ОБЩИЙ ВИД ДЕТАЛИ



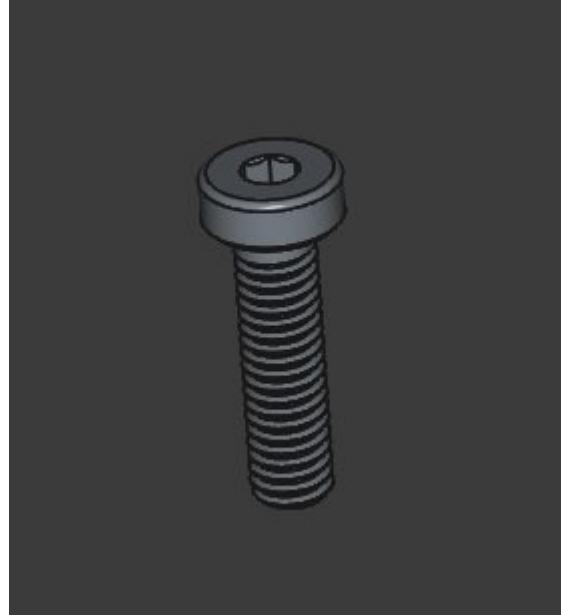
# ОСНОВА

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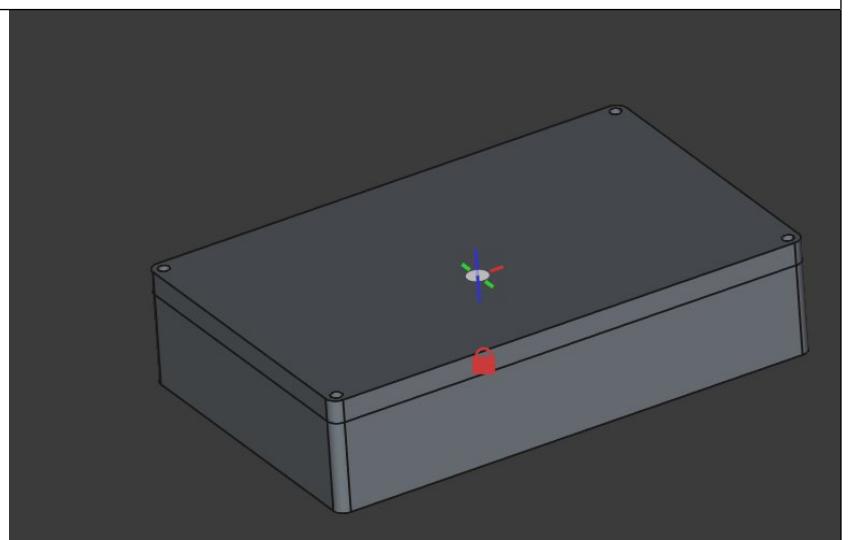
# КРЫШКА

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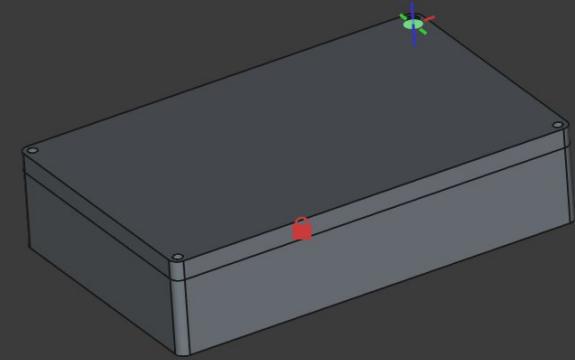
# ВИНТ М4-15

Параметры		В материале																									
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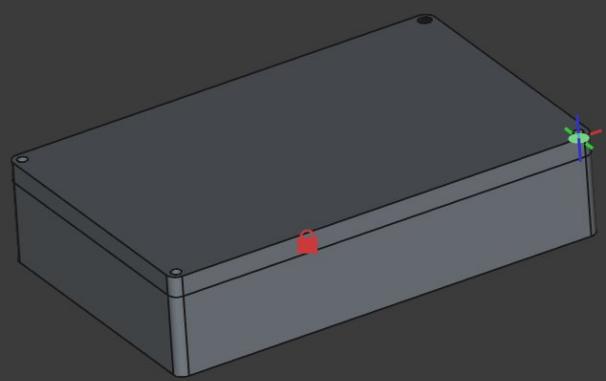
# РАССТОЯНИЕ

Параметры	В материале																																										
<p><b>База</b></p> <table><tr><td>Label</td><td>Расстояние</td></tr></table> <p><b>Joint</b></p> <table><tr><td>Activated</td><td>true</td></tr><tr><td>Distance</td><td>0,00</td></tr><tr><td>Distance2</td><td>0,00</td></tr><tr><td>Joint Type</td><td>Distance</td></tr></table> <p><b>Joint Connector 1</b></p> <table><tr><td>Detach1</td><td>false</td></tr><tr><td>Offset1</td><td>[{0,00 0,00 1,00}; 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]</td></tr><tr><td>Placement1</td><td>[{0,00 0,00 1,00}; 0,00 °; (0,00 mm 0,00 mm 40,00 mm)]</td></tr><tr><td>Reference1</td><td>Assembly [_____Face5, _____Vertex21]</td></tr></table> <p><b>Joint Connector 2</b></p> <table><tr><td>Detach2</td><td>false</td></tr><tr><td>Offset2</td><td>[{0,00 0,00 1,00}; 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]</td></tr><tr><td>Placement2</td><td>[{0,00 0,00 1,00}; 0,00 °; (0,00 mm -0,00 mm 10,00 mm)]</td></tr><tr><td>Reference2</td><td>Assembly [Body.Face5, Body.Vertex27]</td></tr></table> <p><b>Limits</b></p> <table><tr><td>Angle Max</td><td>0,00</td></tr><tr><td>Angle Min</td><td>0,00</td></tr><tr><td>Enable Angle ...</td><td>false</td></tr><tr><td>Enable Angle ...</td><td>false</td></tr><tr><td>Enable Length...</td><td>false</td></tr><tr><td>Enable Length...</td><td>false</td></tr><tr><td>Length Max</td><td>0,00</td></tr><tr><td>Length Min</td><td>0,00</td></tr></table>	Label	Расстояние	Activated	true	Distance	0,00	Distance2	0,00	Joint Type	Distance	Detach1	false	Offset1	[{0,00 0,00 1,00}; 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]	Placement1	[{0,00 0,00 1,00}; 0,00 °; (0,00 mm 0,00 mm 40,00 mm)]	Reference1	Assembly [_____Face5, _____Vertex21]	Detach2	false	Offset2	[{0,00 0,00 1,00}; 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]	Placement2	[{0,00 0,00 1,00}; 0,00 °; (0,00 mm -0,00 mm 10,00 mm)]	Reference2	Assembly [Body.Face5, Body.Vertex27]	Angle Max	0,00	Angle Min	0,00	Enable Angle ...	false	Enable Angle ...	false	Enable Length...	false	Enable Length...	false	Length Max	0,00	Length Min	0,00	
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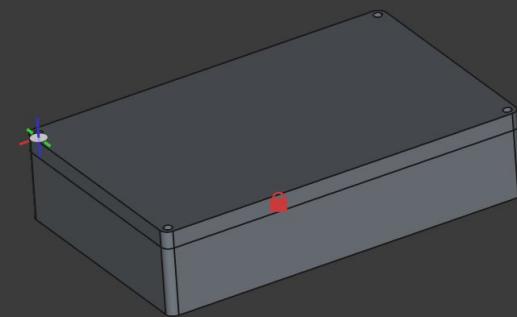
# ЦИЛИНДРИЧЕСКОЕ

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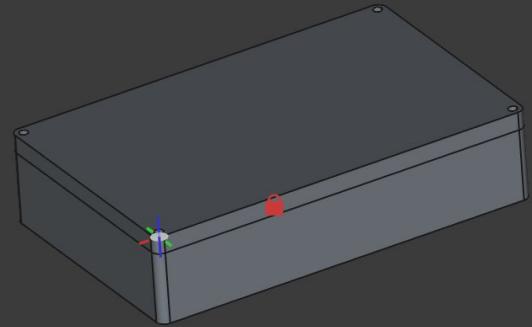
# ЦИЛИНДРИЧЕСКОЕ 1

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# ЦИЛИНДРИЧЕСКОЕ 2

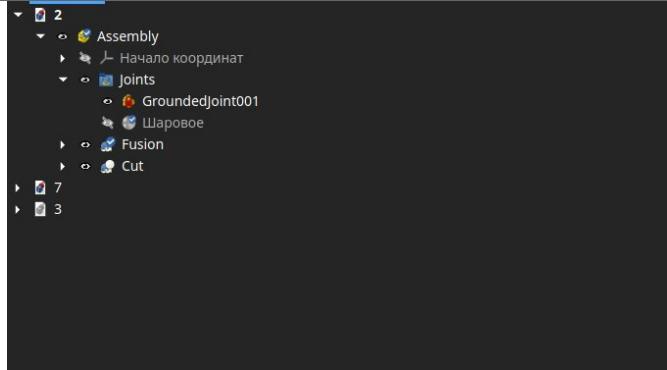
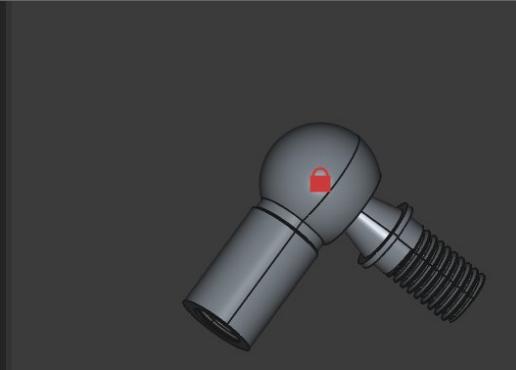
Параметры		В материале																																										
<p><b>База</b></p> <table border="1"> <tr> <td>Label</td><td>Цилиндрическое002</td></tr> </table> <p><b>Joint</b></p> <table border="1"> <tr> <td>Activated</td><td>true</td></tr> <tr> <td>Distance</td><td>0,00</td></tr> <tr> <td>Distance2</td><td>0,00</td></tr> <tr> <td>Joint Type</td><td>Cylindrical</td></tr> </table> <p><b>Joint Connector 1</b></p> <table border="1"> <tr> <td>Detach1</td><td>false</td></tr> <tr> <td>Offset1</td><td>[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]</td></tr> <tr> <td>Placement1</td><td>[(0,00 0,00 -1,00); 180,00 °; (-103,75 mm -65,00 mm 3,00 mm)]</td></tr> <tr> <td>Reference1</td><td>Assembly [Body.Edge50, Body.Edge50]</td></tr> </table> <p><b>Joint Connector 2</b></p> <table border="1"> <tr> <td>Detach2</td><td>false</td></tr> <tr> <td>Offset2</td><td>[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]</td></tr> <tr> <td>Placement2</td><td>[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,40 mm)]</td></tr> <tr> <td>Reference2</td><td>Assembly [M4x16_____002.Edge12, M4x16_____002.Edge12]</td></tr> </table> <p><b>Limits</b></p> <table border="1"> <tr> <td>Angle Max</td><td>0,00</td></tr> <tr> <td>Angle Min</td><td>0,00</td></tr> <tr> <td>Enable Angle ...</td><td>false</td></tr> <tr> <td>Enable Angle ...</td><td>false</td></tr> <tr> <td>Enable Length...</td><td>false</td></tr> <tr> <td>Enable Length...</td><td>false</td></tr> <tr> <td>Length Max</td><td>0,00</td></tr> <tr> <td>Length Min</td><td>0,00</td></tr> </table>		Label	Цилиндрическое002	Activated	true	Distance	0,00	Distance2	0,00	Joint Type	Cylindrical	Detach1	false	Offset1	[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]	Placement1	[(0,00 0,00 -1,00); 180,00 °; (-103,75 mm -65,00 mm 3,00 mm)]	Reference1	Assembly [Body.Edge50, Body.Edge50]	Detach2	false	Offset2	[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]	Placement2	[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,40 mm)]	Reference2	Assembly [M4x16_____002.Edge12, M4x16_____002.Edge12]	Angle Max	0,00	Angle Min	0,00	Enable Angle ...	false	Enable Angle ...	false	Enable Length...	false	Enable Length...	false	Length Max	0,00	Length Min	0,00	
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# ЦИЛИНДРИЧЕСКОЕ 3

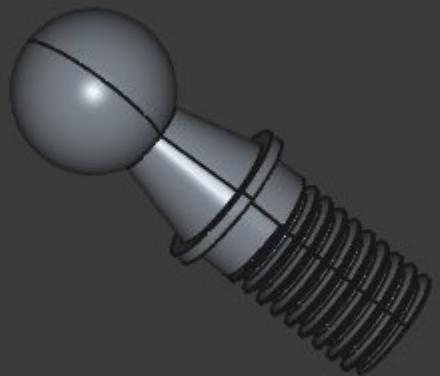
Параметры	В материале																																										
<p><b>База</b></p> <table> <tr> <td>Label</td> <td>Цилиндрическое003</td> </tr> </table> <p><b>Joint</b></p> <table> <tr> <td>Activated</td> <td>true</td> </tr> <tr> <td>Distance</td> <td>0,00</td> </tr> <tr> <td>Distance2</td> <td>0,00</td> </tr> <tr> <td>Joint Type</td> <td>Cylindrical</td> </tr> </table> <p><b>Joint Connector 1</b></p> <table> <tr> <td>Detach1</td> <td>false</td> </tr> <tr> <td>▶ Offset1</td> <td>[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]</td> </tr> <tr> <td>▶ Placement1</td> <td>[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]</td> </tr> <tr> <td>Reference1</td> <td>Assembly [M4x16_____003.Edge26, M4x16_____003.Edge26]</td> </tr> </table> <p><b>Joint Connector 2</b></p> <table> <tr> <td>Detach2</td> <td>false</td> </tr> <tr> <td>▶ Offset2</td> <td>[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]</td> </tr> <tr> <td>▶ Placement2</td> <td>[(0,00 0,00 -1,00); 180,00 °; (-103,75 mm 65,00 mm 3,00 mm)]</td> </tr> <tr> <td>Reference2</td> <td>Assembly [Body.Edge54, Body.Edge54]</td> </tr> </table> <p><b>Limits</b></p> <table> <tr> <td>Angle Max</td> <td>0,00</td> </tr> <tr> <td>Angle Min</td> <td>0,00</td> </tr> <tr> <td>Enable Angle ...</td> <td>false</td> </tr> <tr> <td>Enable Angle ...</td> <td>false</td> </tr> <tr> <td>Enable Length...</td> <td>false</td> </tr> <tr> <td>Enable Length...</td> <td>false</td> </tr> <tr> <td>Length Max</td> <td>0,00</td> </tr> <tr> <td>Length Min</td> <td>0,00</td> </tr> </table>	Label	Цилиндрическое003	Activated	true	Distance	0,00	Distance2	0,00	Joint Type	Cylindrical	Detach1	false	▶ Offset1	[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]	▶ Placement1	[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]	Reference1	Assembly [M4x16_____003.Edge26, M4x16_____003.Edge26]	Detach2	false	▶ Offset2	[(0,00 0,00 1,00); 0,00 °; (0,00 mm 0,00 mm 0,00 mm)]	▶ Placement2	[(0,00 0,00 -1,00); 180,00 °; (-103,75 mm 65,00 mm 3,00 mm)]	Reference2	Assembly [Body.Edge54, Body.Edge54]	Angle Max	0,00	Angle Min	0,00	Enable Angle ...	false	Enable Angle ...	false	Enable Length...	false	Enable Length...	false	Length Max	0,00	Length Min	0,00	
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# ДЕТАЛЬ 2

## ОБЩИЙ ВИД ДЕТАЛИ

С деревом конструирования	Внутренние части
 <p>С деревом конструирования</p> <ul style="list-style-type: none"><li>- 2<ul style="list-style-type: none"><li>- Assembly</li><li>- Начало координат</li><li>- Joints<ul style="list-style-type: none"><li>- GroundedJoint001</li><li>- Шаровое</li></ul></li><li>- Fusion</li><li>- Cut</li></ul></li><li>- 7</li><li>- 3</li></ul>	 <p>Внутренние части</p>

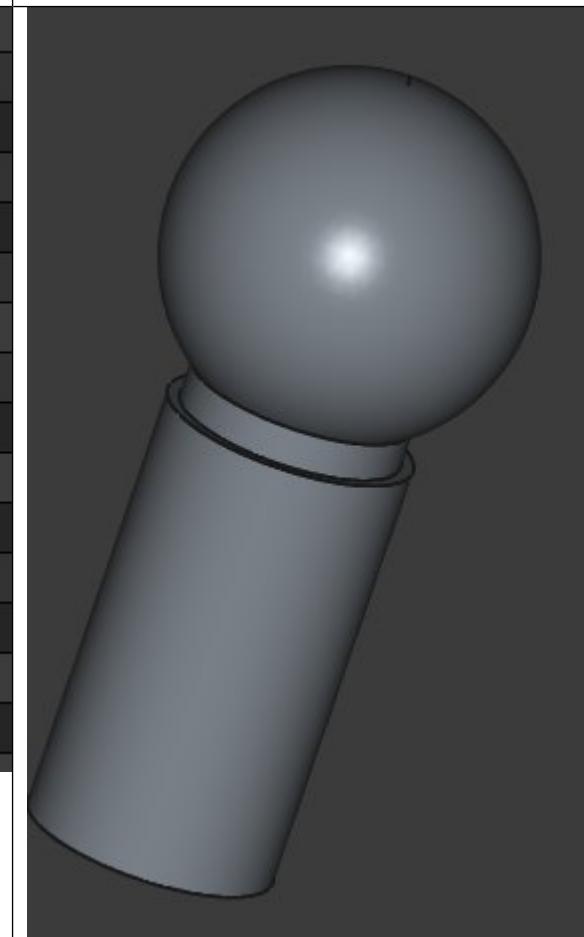
# ЧАСТЬ 1

Параметры		В материале
<b>Link</b> Linked Object _3#Fusion Link Claim Ch... false Link Transform false ▶ Placement [(0,00 -0,71 0,71); 180,00 °; (11,62 µm 49,00 mm 23,00 mm)] Show Element true Element Count 0 Link Execute Link Copy On... Disabled Scale 1,00 Scale List [] <b>База</b> Shapes [Sphere (Сфера), Cylinder (Цилиндр), Cut ...] Label Fusion <b>Boolean</b> Refine true		

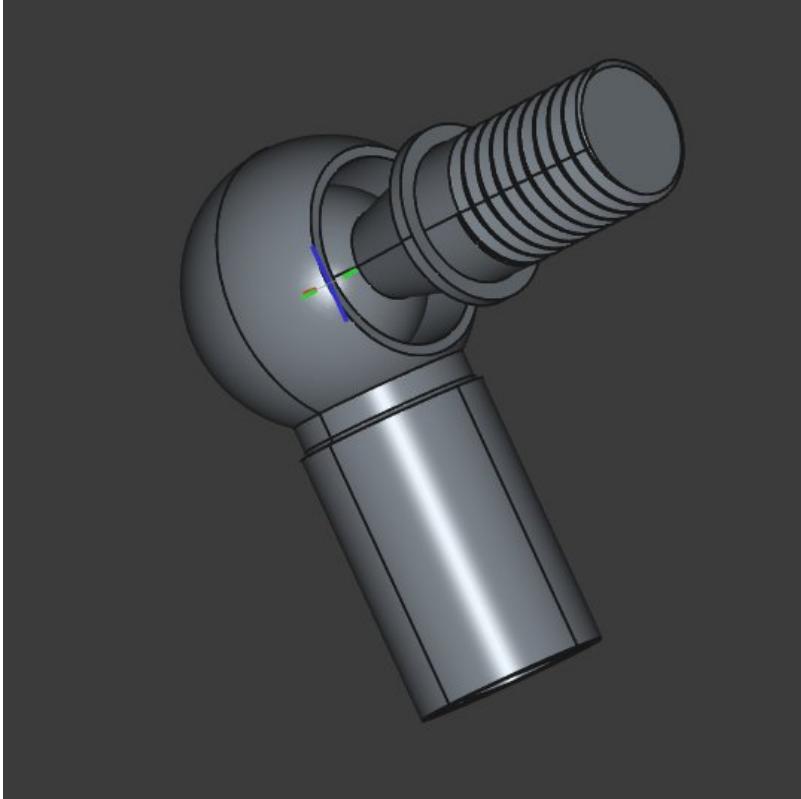
## ЧАСТЬ 2

Параметры		В материале
<b>Link</b> Linked Object _4#Cut Link Claim Ch... false Link Transform false ▶ Placement [(0,00 1,00 0,00); 180,00 °; (11,62 µm 41,00 mm 23,00 mm)] Show Element true Element Count 0 Link Execute Link Copy On... Disabled Scale 1,00 Scale List [] <b>База</b> База Slice_child0 (Slice.0) Tool Fusion Label Cut <b>Boolean</b> Refine true		

# ЦИЛИНДР 1

Параметры		В материале
<b>Attachment</b> Attacher Engi... Engine 3D Attachment S... XY_Plane (XY плоскость) Map Mode FlatFace Map Reversed true ▶ Attachment ... [(0,00 0,00 1,00); 180,00 °; (0,00 mm 0,00 mm -35,00 mm)]		

# ШАРОВОЕ СОЕДИНЕНИЕ

Параметры		В материале
<b>База</b> Label      Шаровое		

14

