

**Ex02. 3** + ..... 3

[ ] ..... 3

[ ] ..... 3

[ ] ..... 4

[ ] ..... 4

[ ( ) ] ..... 6

[ ] ..... 7

[ ] ..... 7

[ ] ..... 8

[ ] ..... 8

[ ( ) ] ..... 9

[ ( ) ] ..... 10

[ 가 ] ..... 10

[ : ] ..... 11

[ ] ..... 11

[ 1 : ] ..... 12

[ 1 : ] ..... 13

[ 2 : ] ..... 13

[ 3 : ] ..... 14

[ ] ..... 14

[ ] ..... 15

[ : ] ..... 16

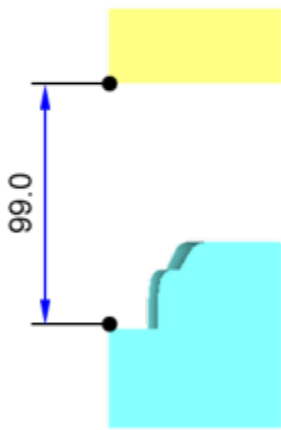
[ : ] ..... 16



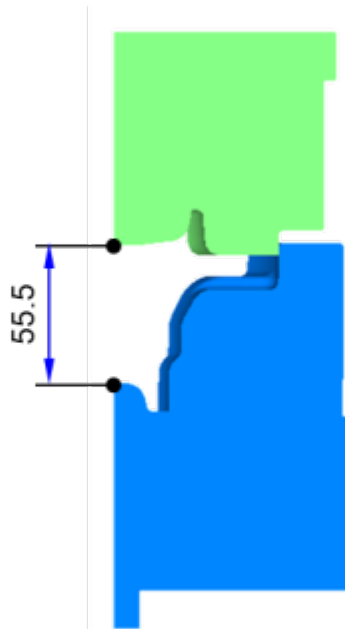
# Ex02. 3

+

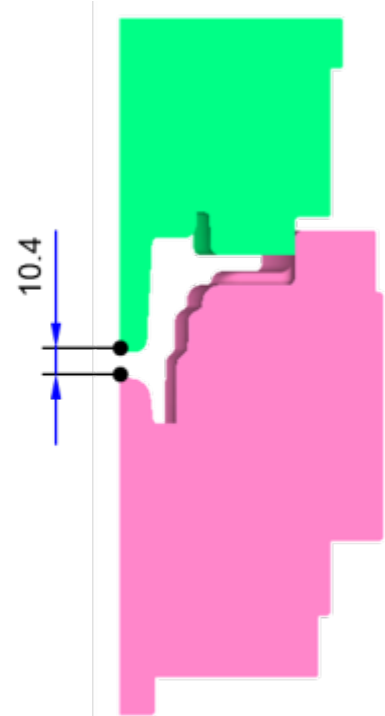
[       ]



< Upsetting >



< Blocker >



< Finisher >

[       ]

1.

- 
- 

(       +       )

2.

- : AISI 1015(T=800-1300°C) →
- : 1200°C →
- : STL

3.

- : STL (       )
- : SKD61 →
- :       ,  $\mu=0.3$ ,  $m=0.8$ (       )
- 

- : JFP-1600 →
- : 0.0 mm/s(       )

4.

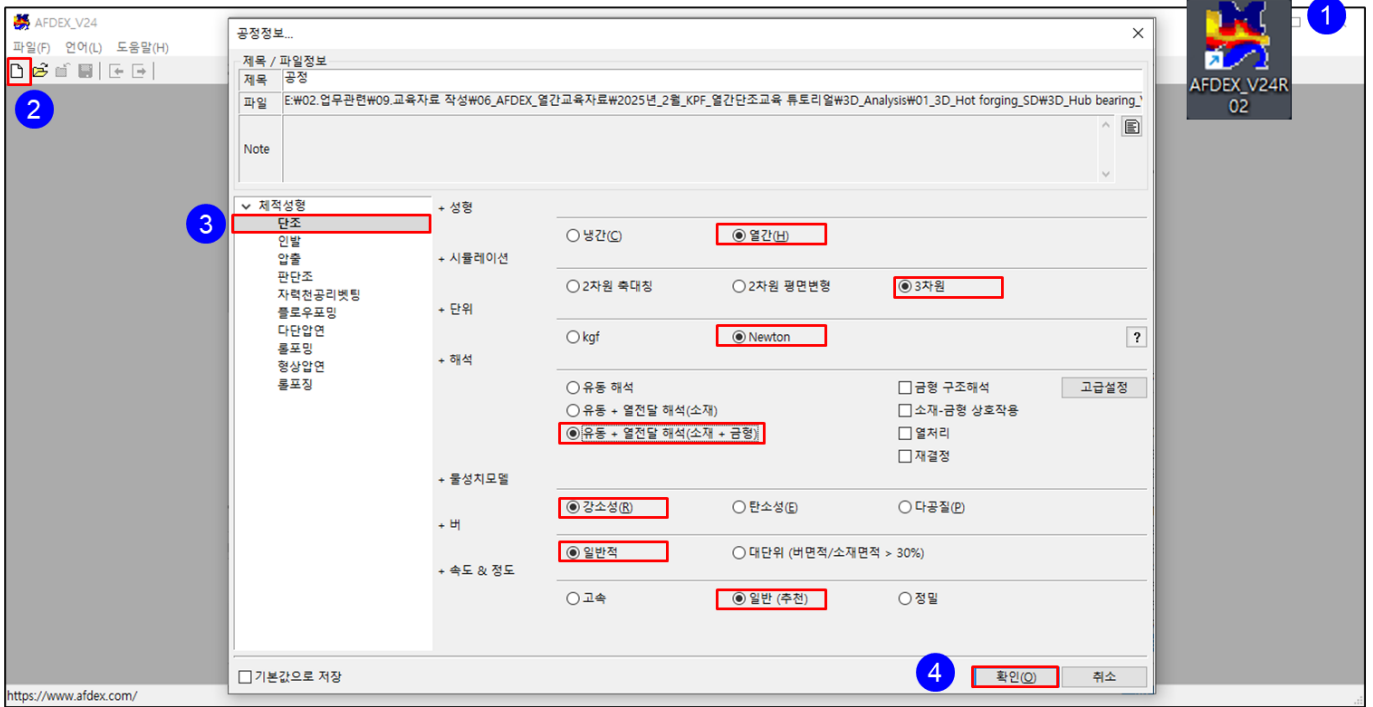
- : 36° (1/10)\_       2EA

5.

-

- Sample\_HeatWPCS\_All\_Analysis →
  - : 1s
  - : 1s
  - / : 1s
- 
- Sample\_HeatDIES →
  - : 300°C →

[ ]



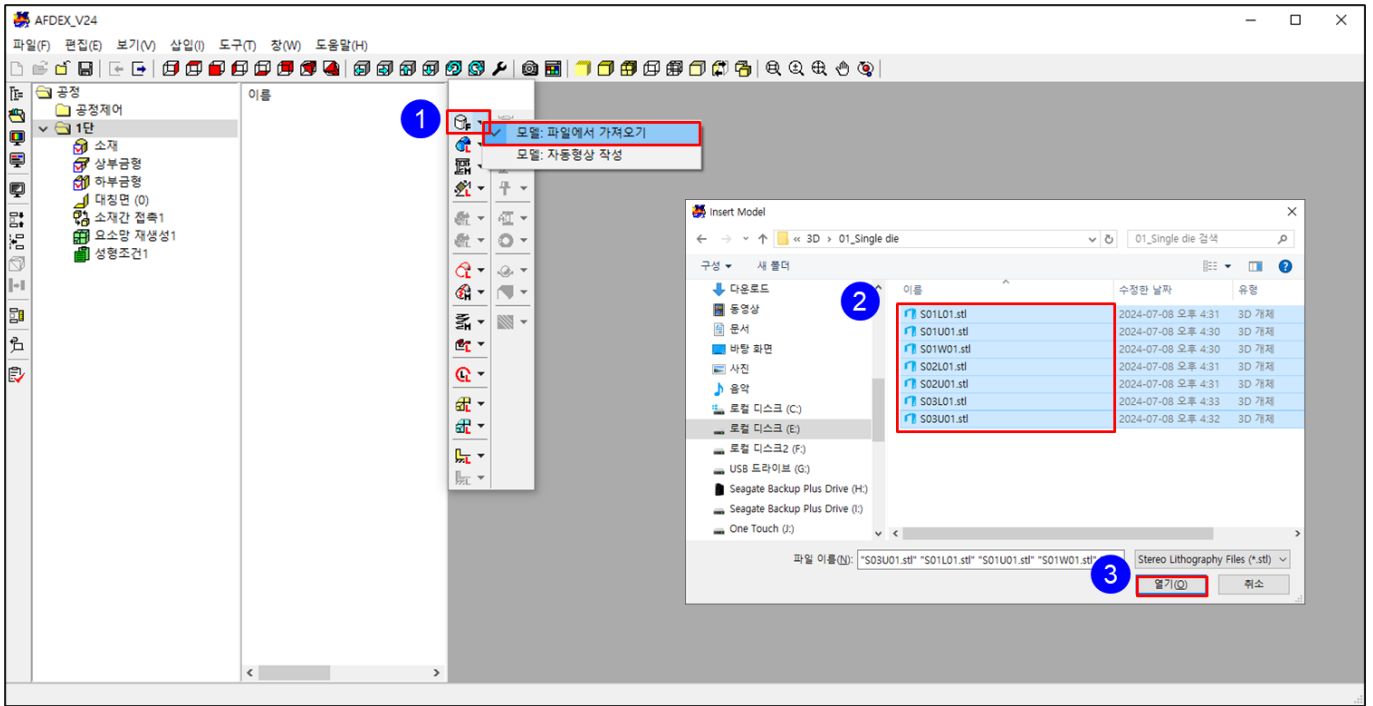
1. ADEX\_V24R02

2. “ ”

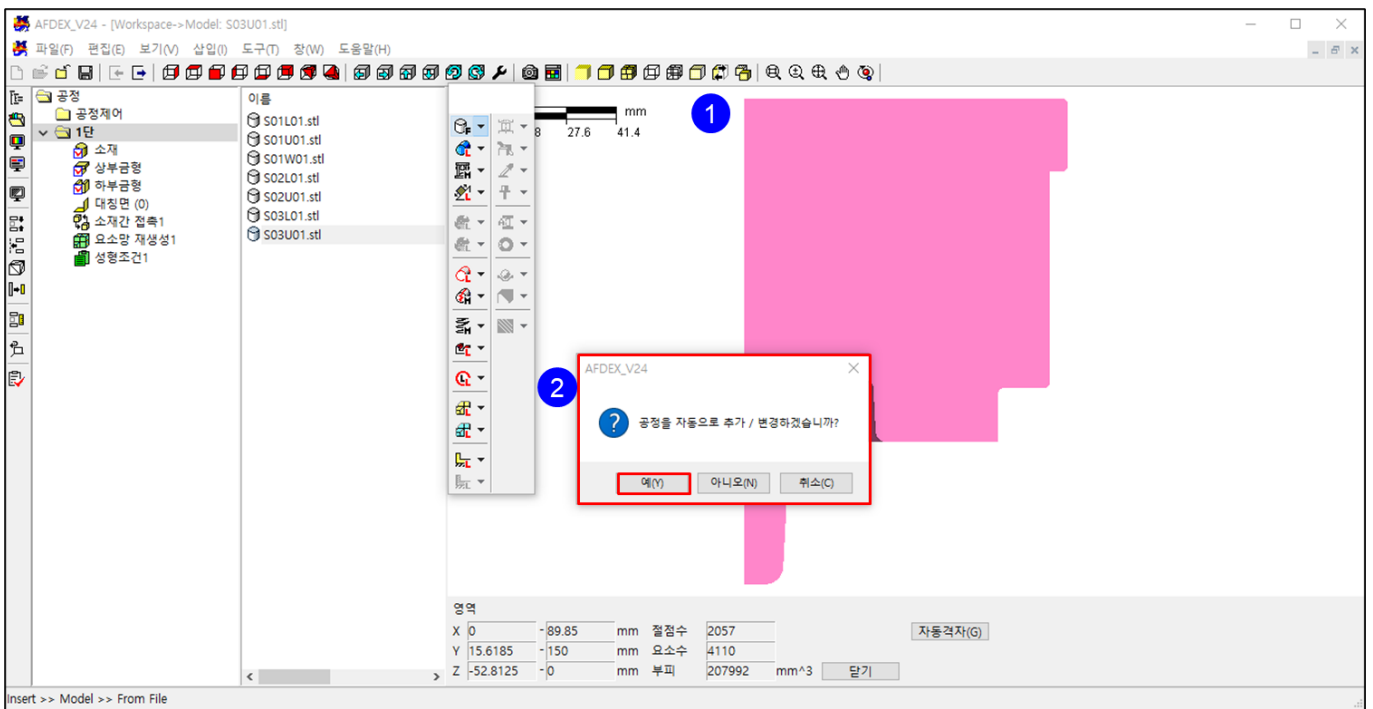
3. “ ”, “ ”, “ 3, “Newton”, “ + ( + )”, “ ”, “ ”, “ ”, “ ( )”

4. “ ”

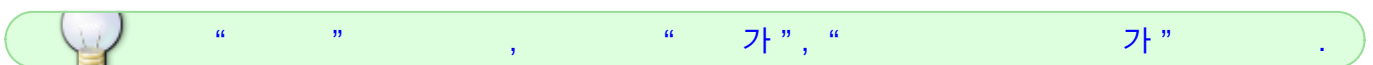
[ ]

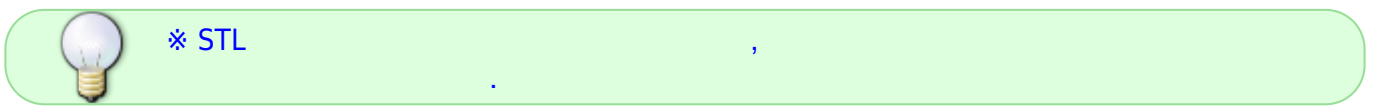
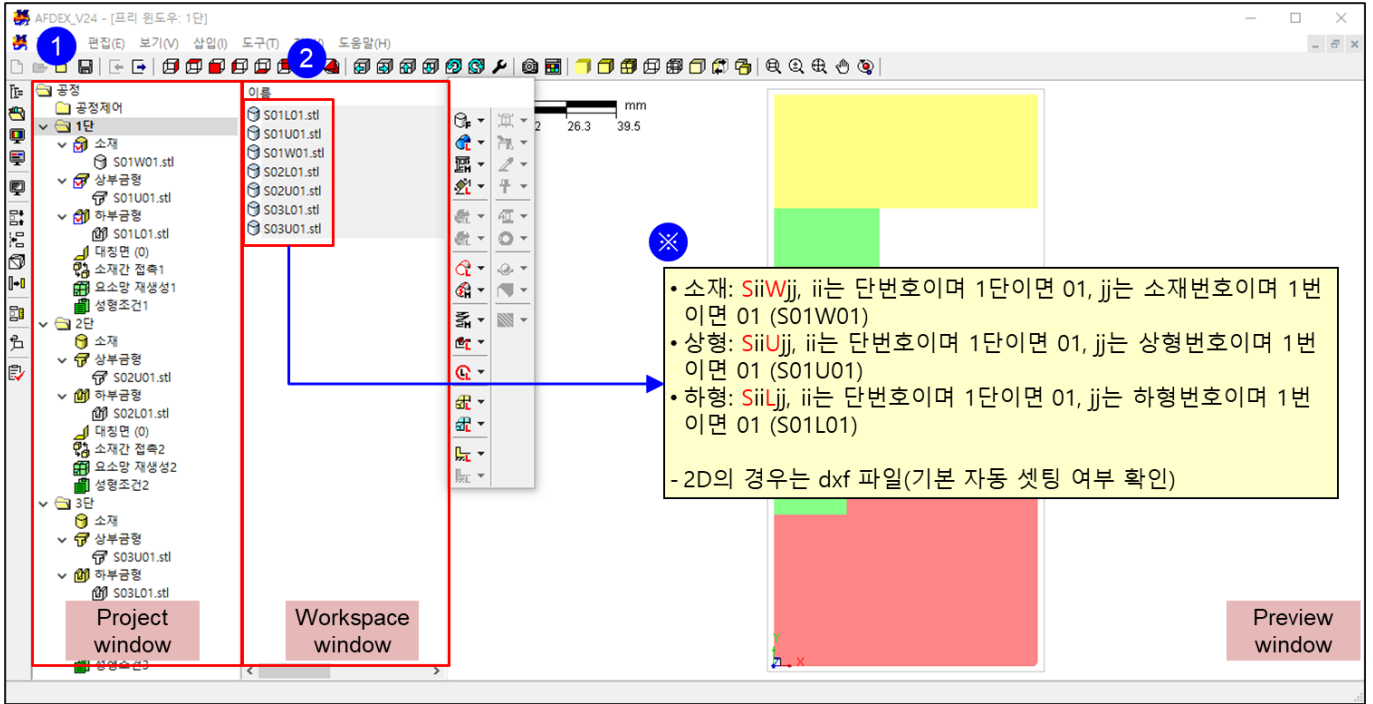


1. “ : 가 ”
2. , “\*\*\*.stl”
3. “ ”

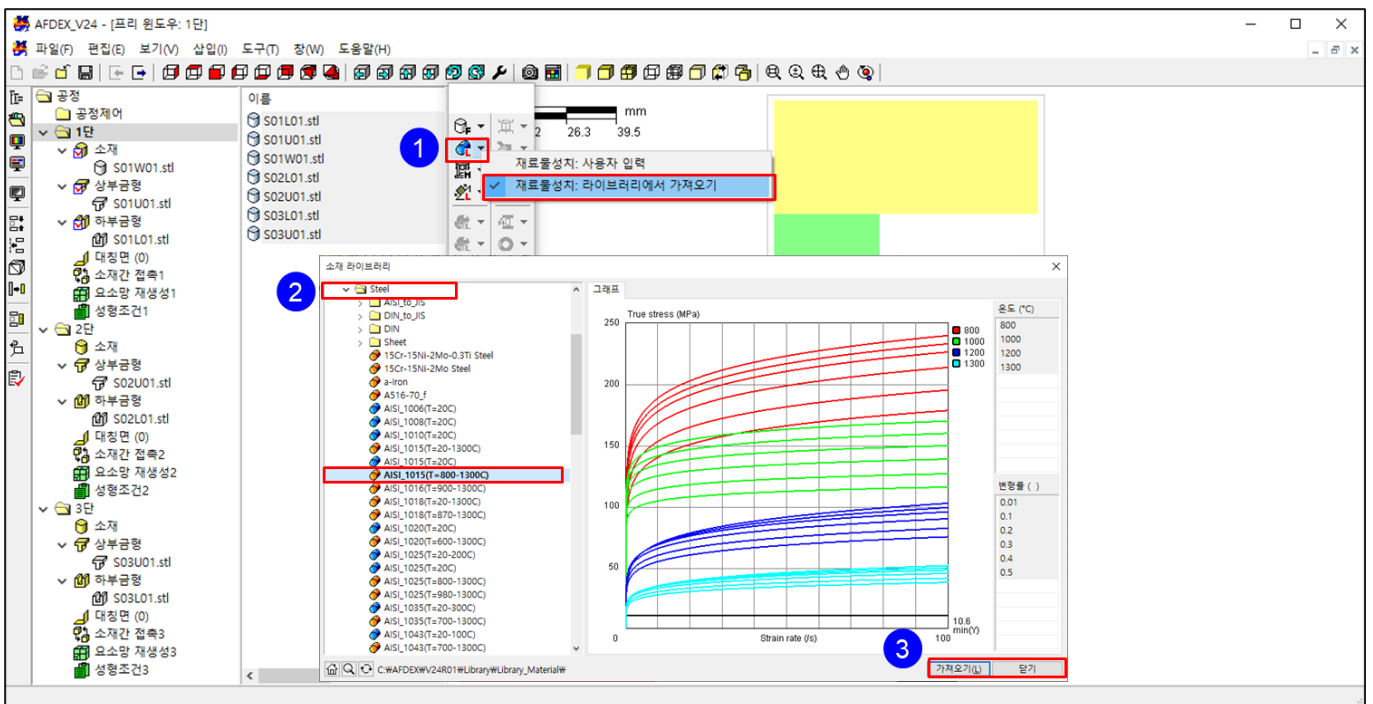


1. “ ”
2. “ 가 / ? ” , “ ”



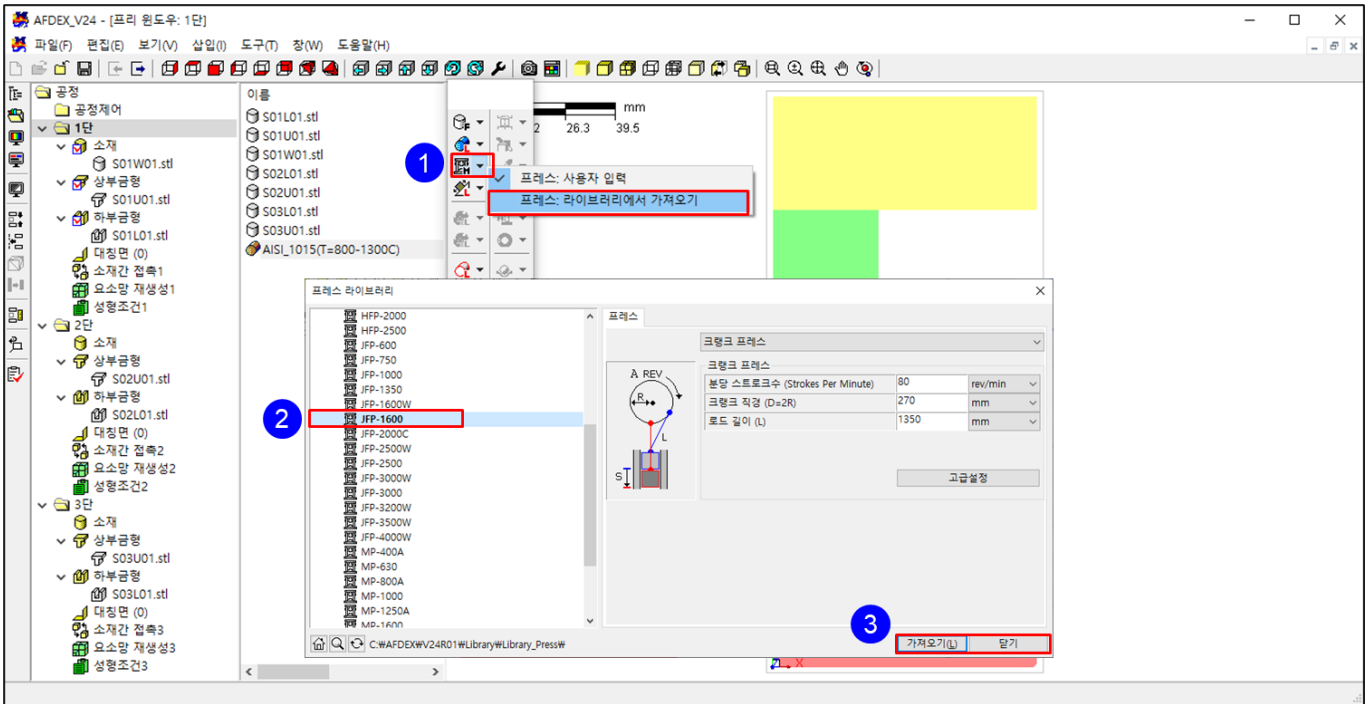


[ ( ) ]



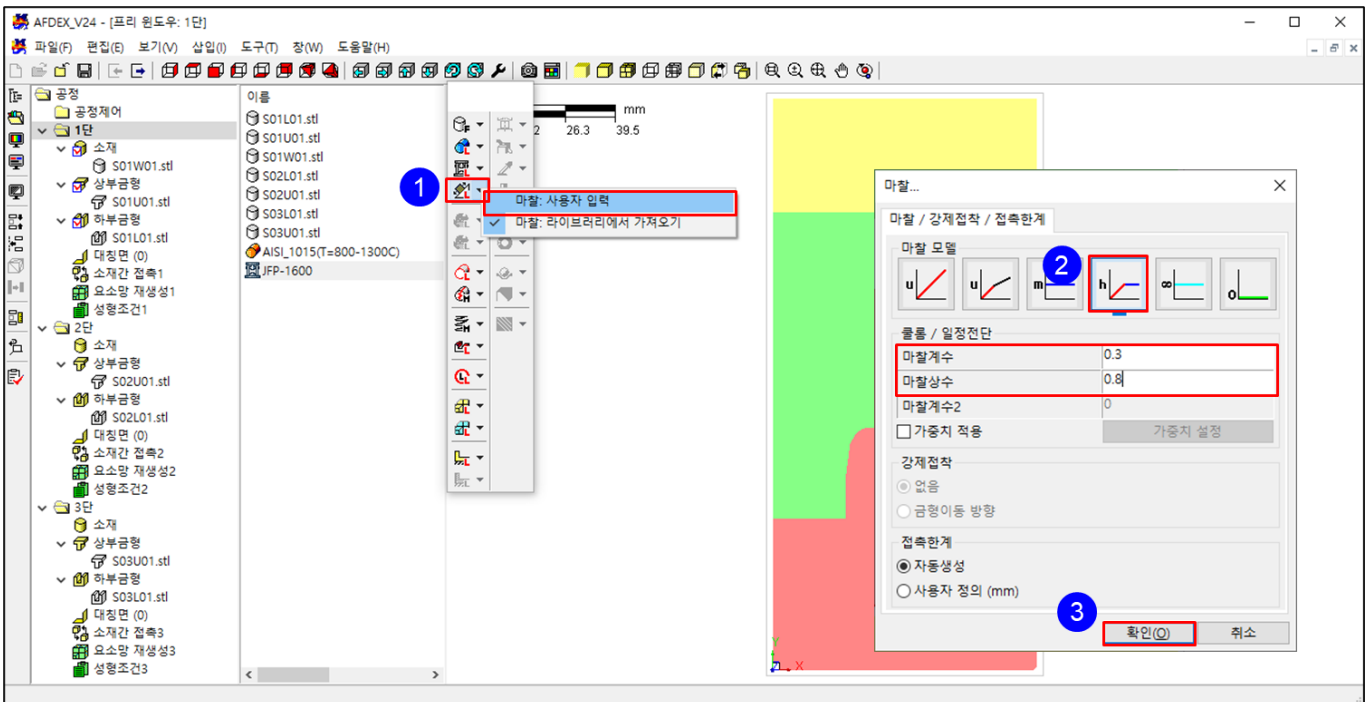
### 3. “가” “ ” “ ”

[ ]



1. “가” : “ ” 가 “ ”
2. “가” “ ” “ ” , “JFP-1600”
3. “가” “ ” “ ”

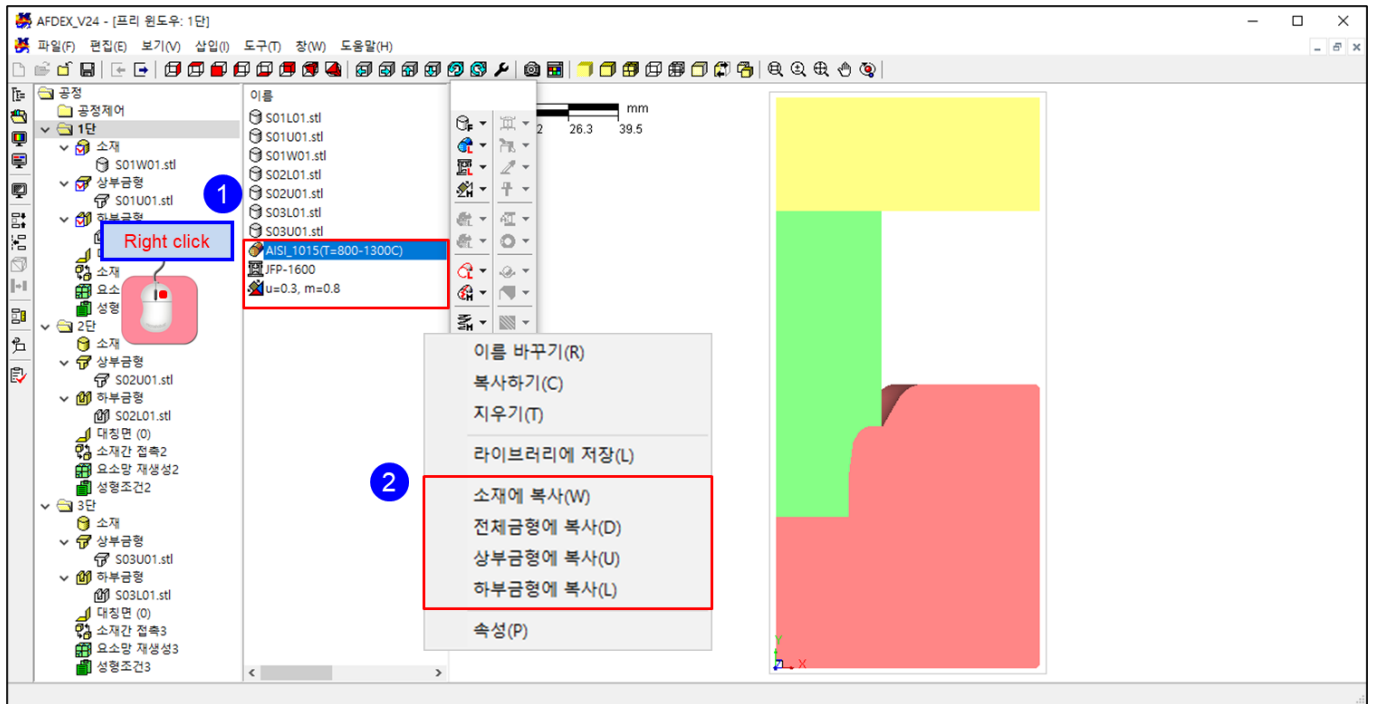
[ ]



1. “ : ”
2. “ ”
3. “ ”

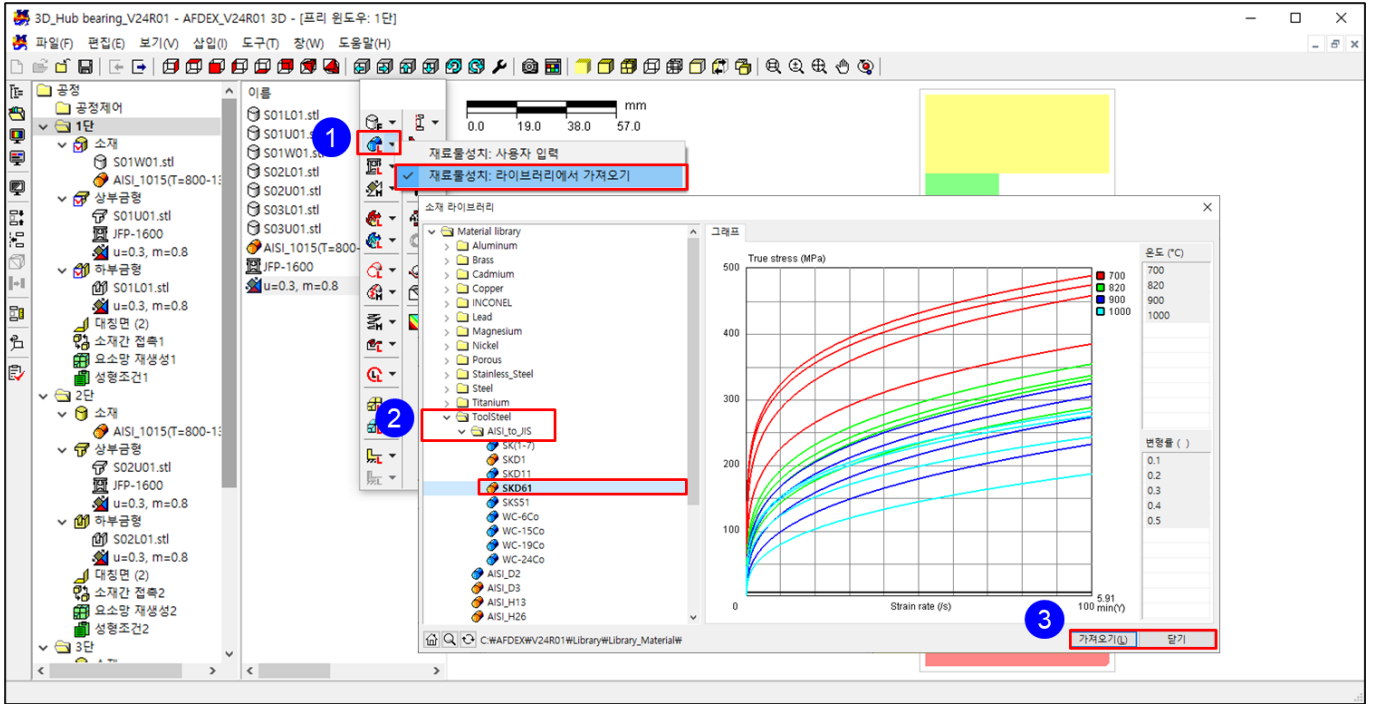


[ ]



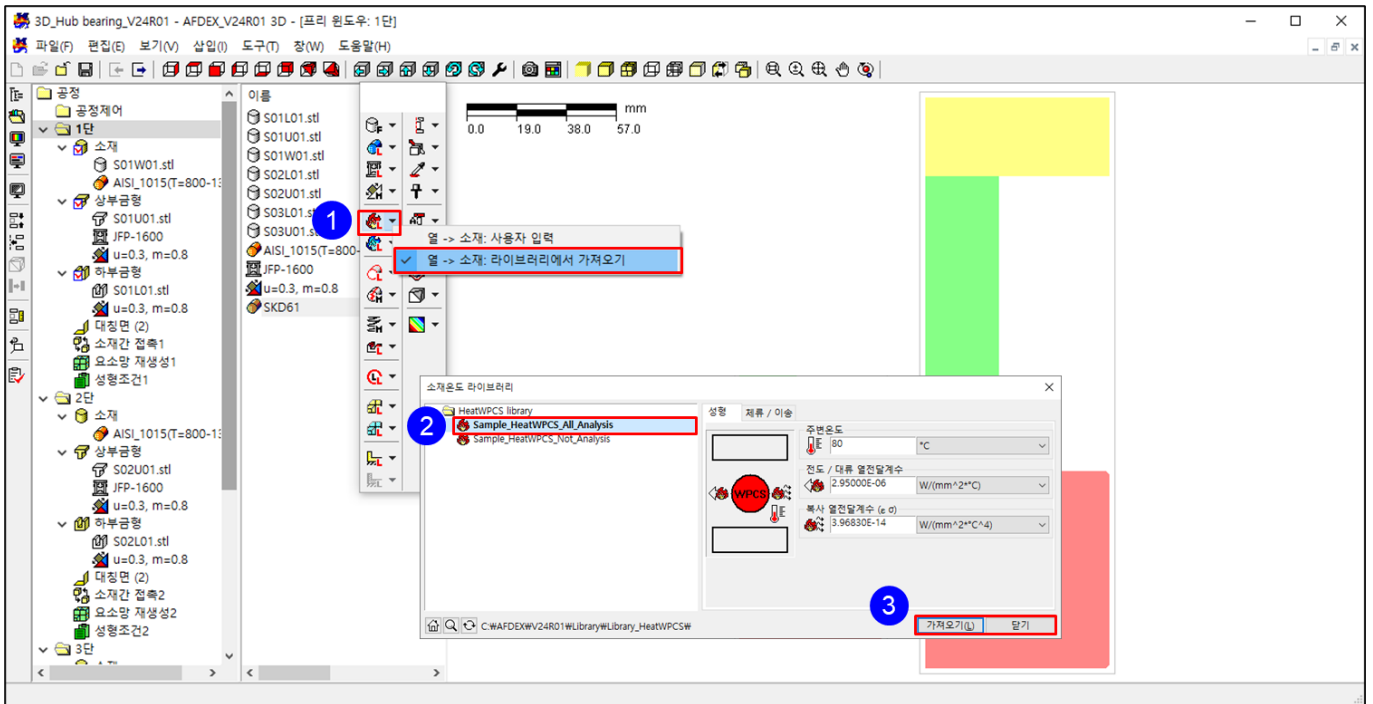
1. “ ”
2.
  - AISI 1015 :
  - JFP-1600 :
  - $\mu=0.3, m=0.8$  :

[ ]



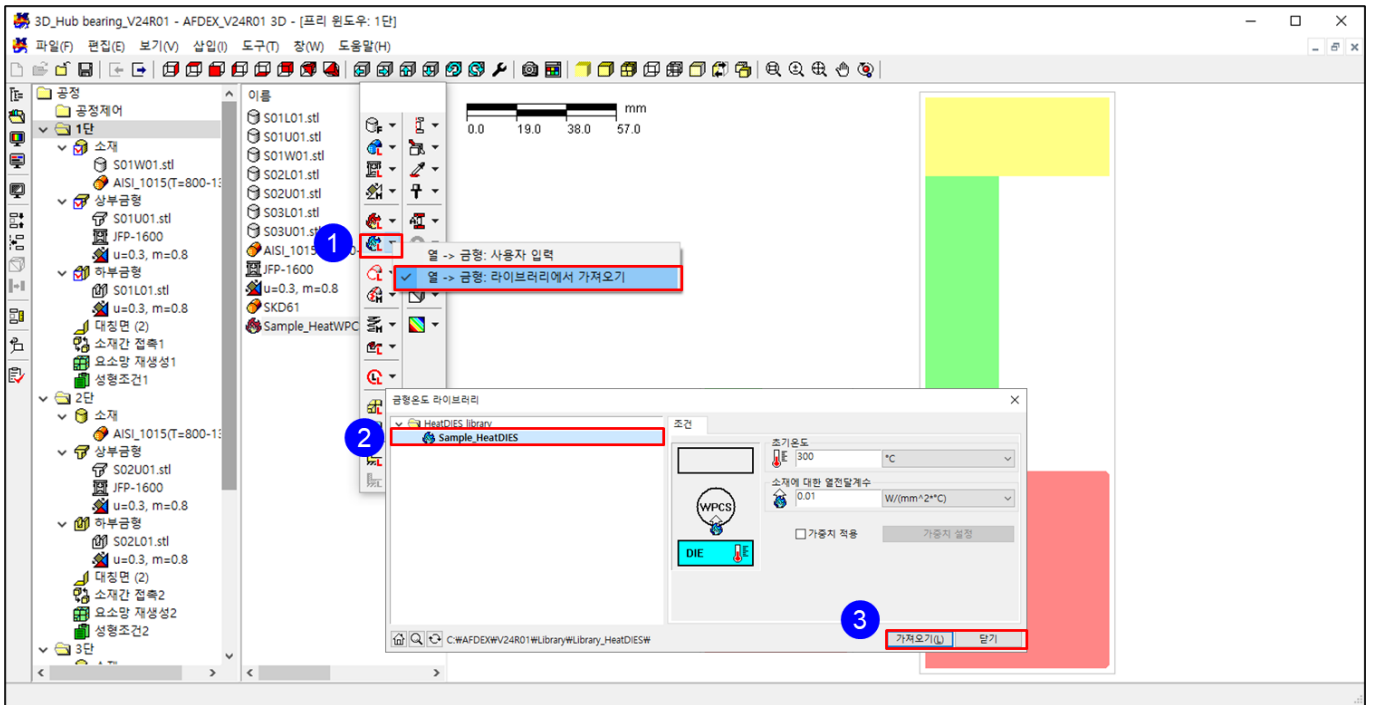
1. “ : ” 가 ”
2. “ ” , “ToolSteel → AISI to JIS → SKD61”
3. “ 가 ” “ ”

[ ( ) ]



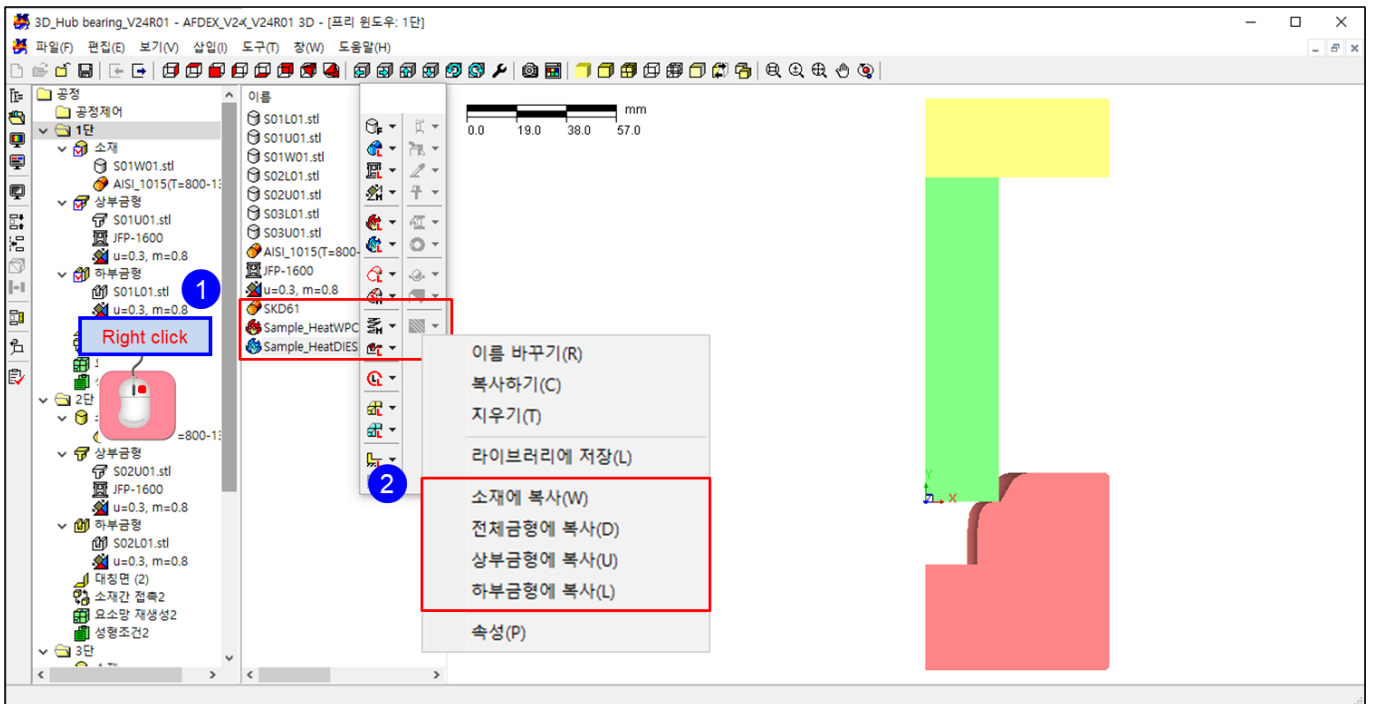
1. “ : ” 가 ”
2. “ ” , “Sample HeatWPCS All Analysis”
3. “ 가 ” “ ”

[ ( ) ]



1. “ : ” 가 ”
2. “ ” , “Sample HeatDIES”
3. “ 가 ” “ ”

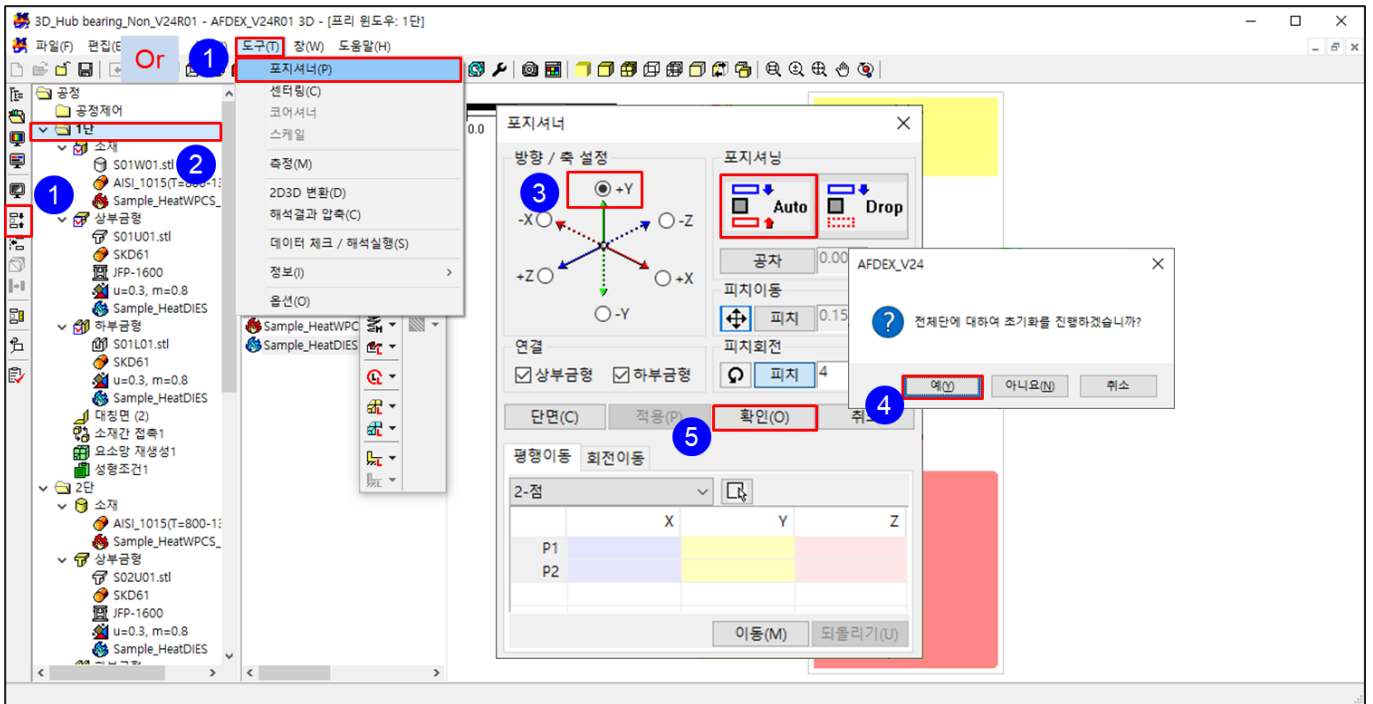
[ 가 ]



1. “ ”
2. ,  
○ SKD61 :

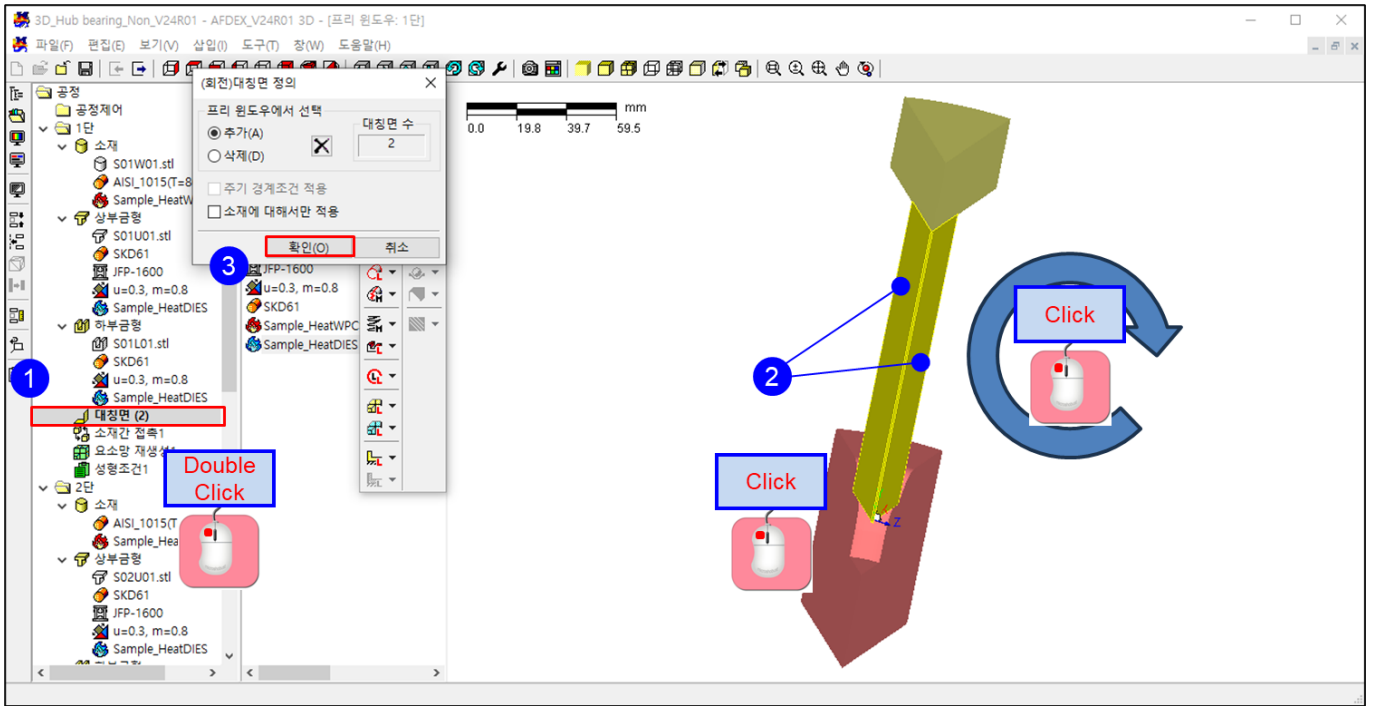
- Sample HeatWPCS All Analysis :
- Sample HeatDIES :

[ : ]



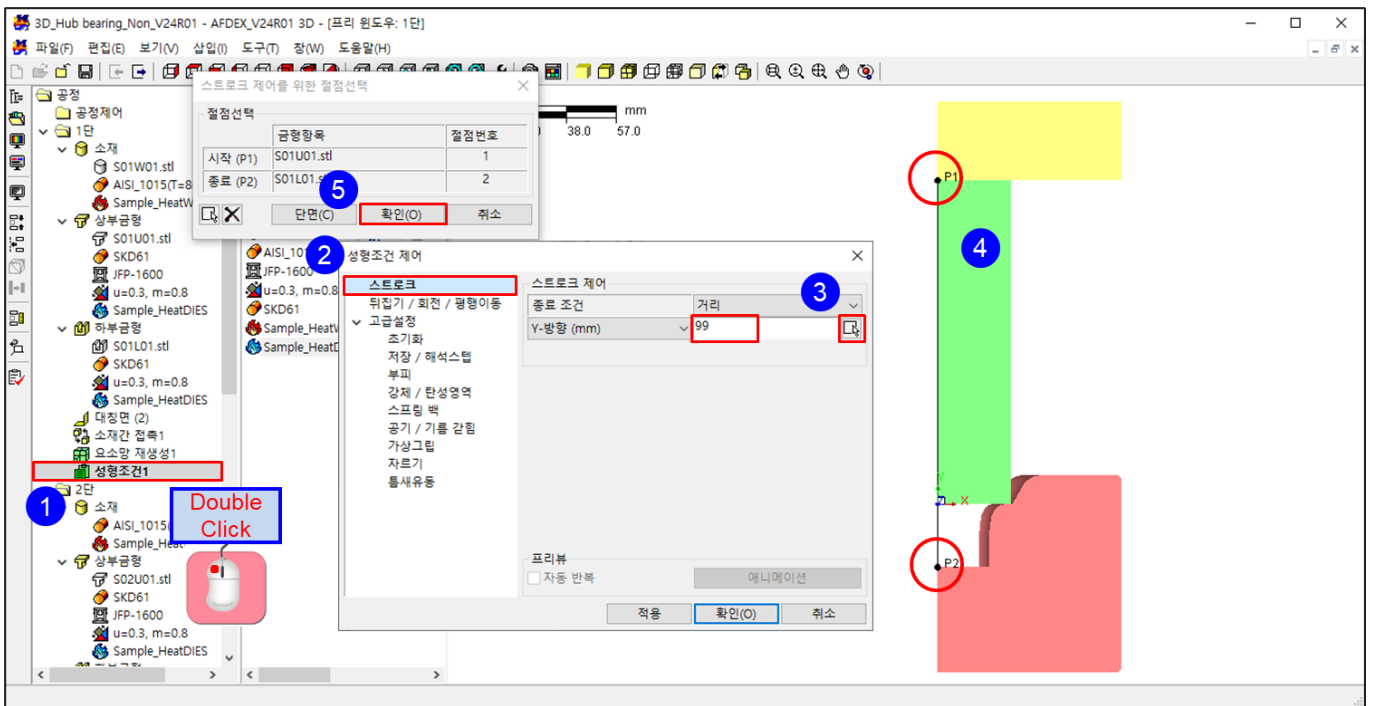
1. “ On/Off” “ ” .( “ ”
2. “ ” , “ ” “ 1 ” .
3. “ ” , “ ” “Auto” .
4. “ ?” , “ ” .
5. “ ” “ ” .


[ ]



1. 1 “ ”
2. “ ” , “ ” ,
3. “ ” “ ” .

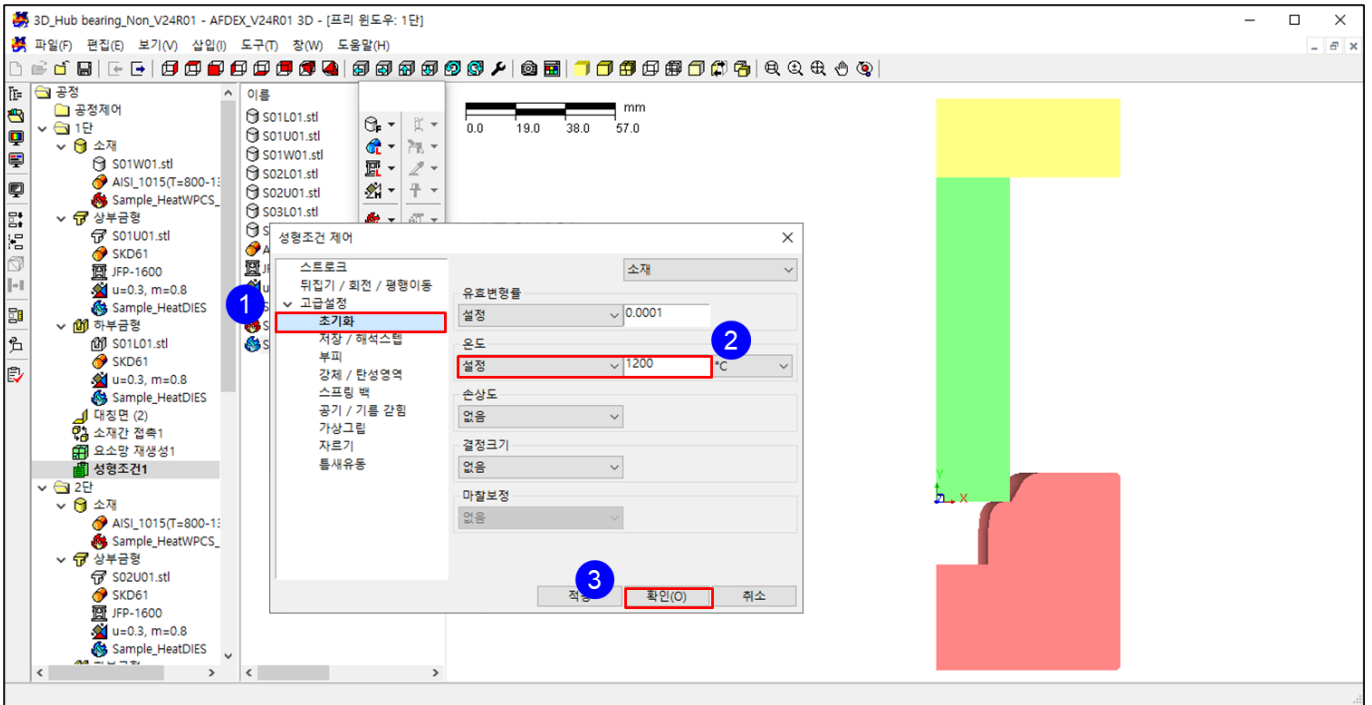
[ 1 : ]



1. “ 1 ” .
2. “ ” , “ ” “ ” “ 99 ” . (
3. “  “ .
4. . ( )

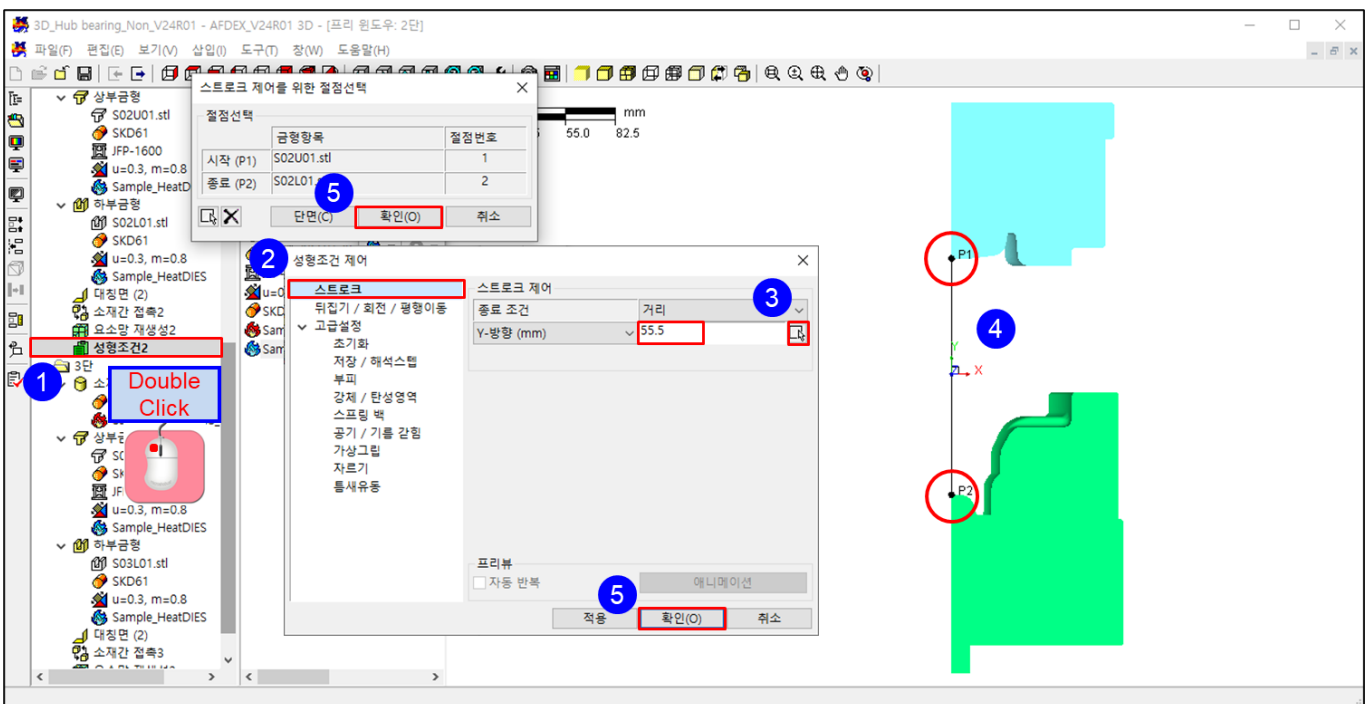
5. “ ” “ ” “ ” “ ” “ ”

[ 1 : ]



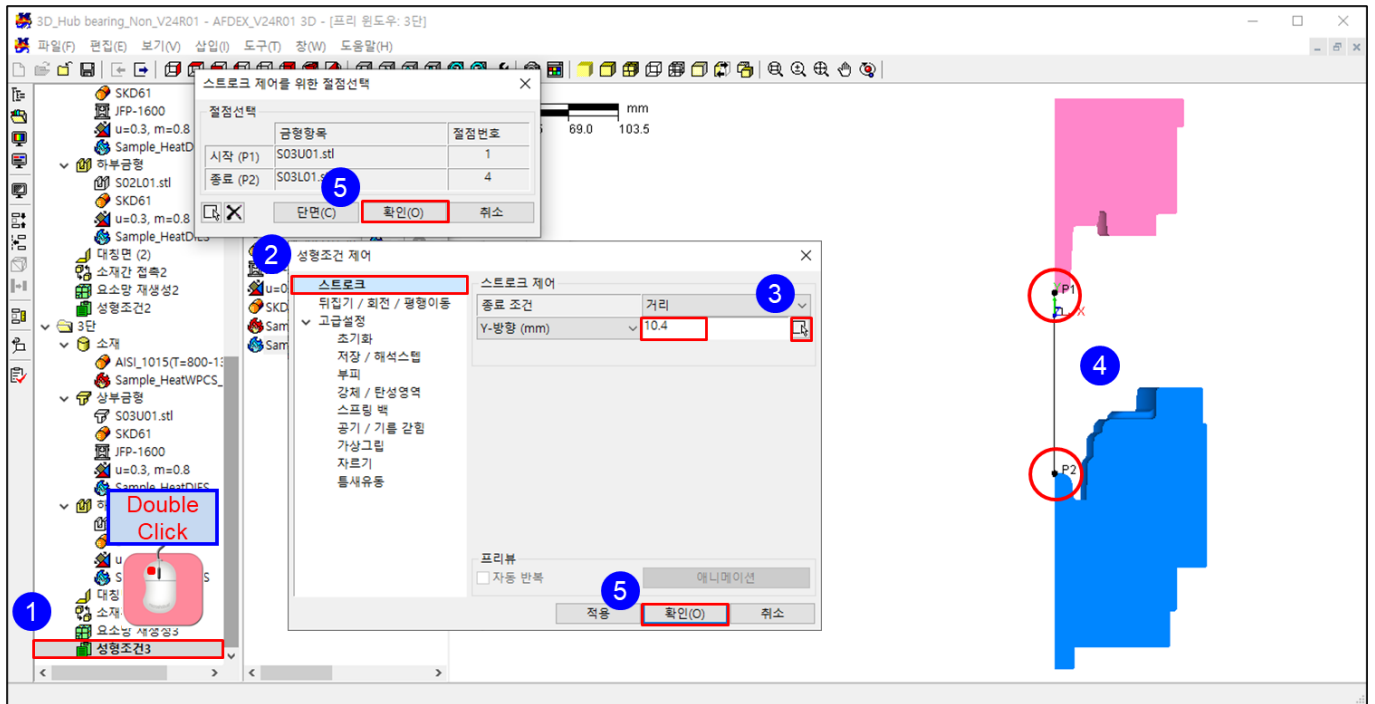
1. “ ” “ ”
2. “ ” “ 1200 ”
3. “ ”

[ 2 : ]



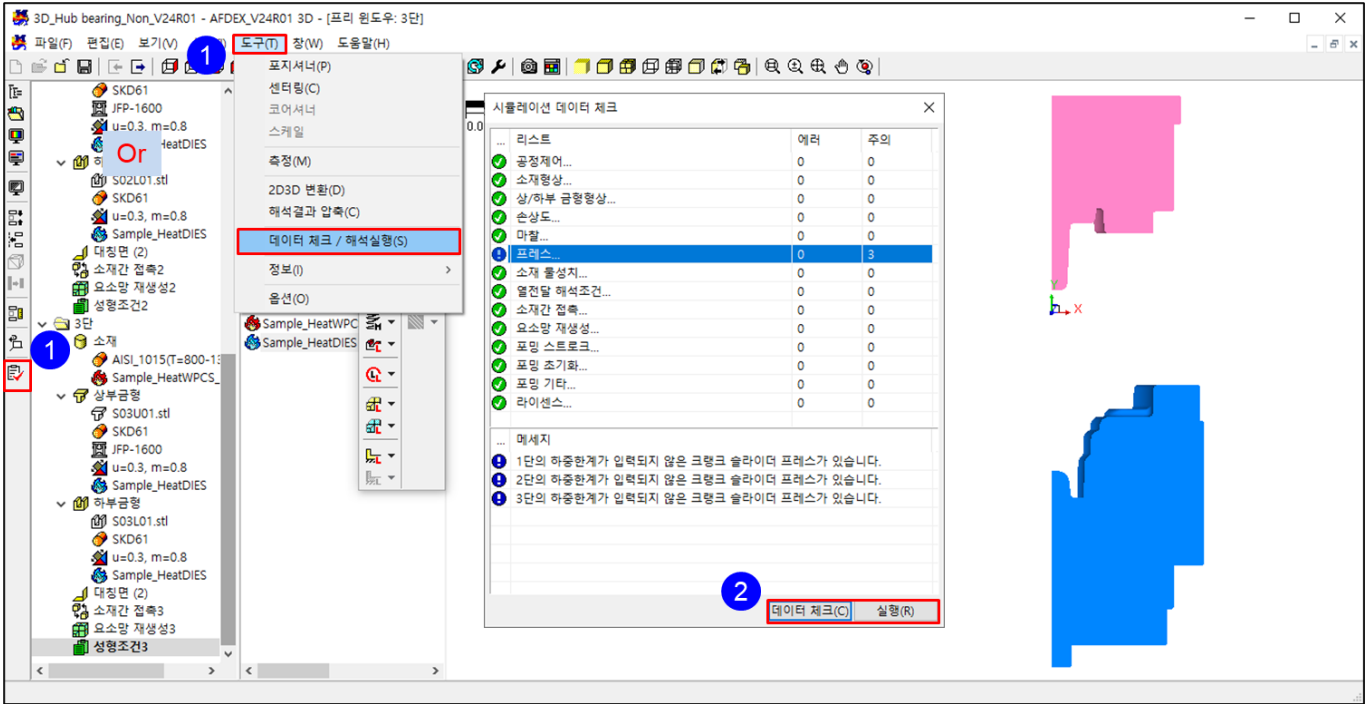
1. “ 2 ”
2. “ ” , “ ” “ 55.5 ”
3. “ ( ”
4. “ )
5. “ ” “ ” “ ” “ ”

[ 3 : ]

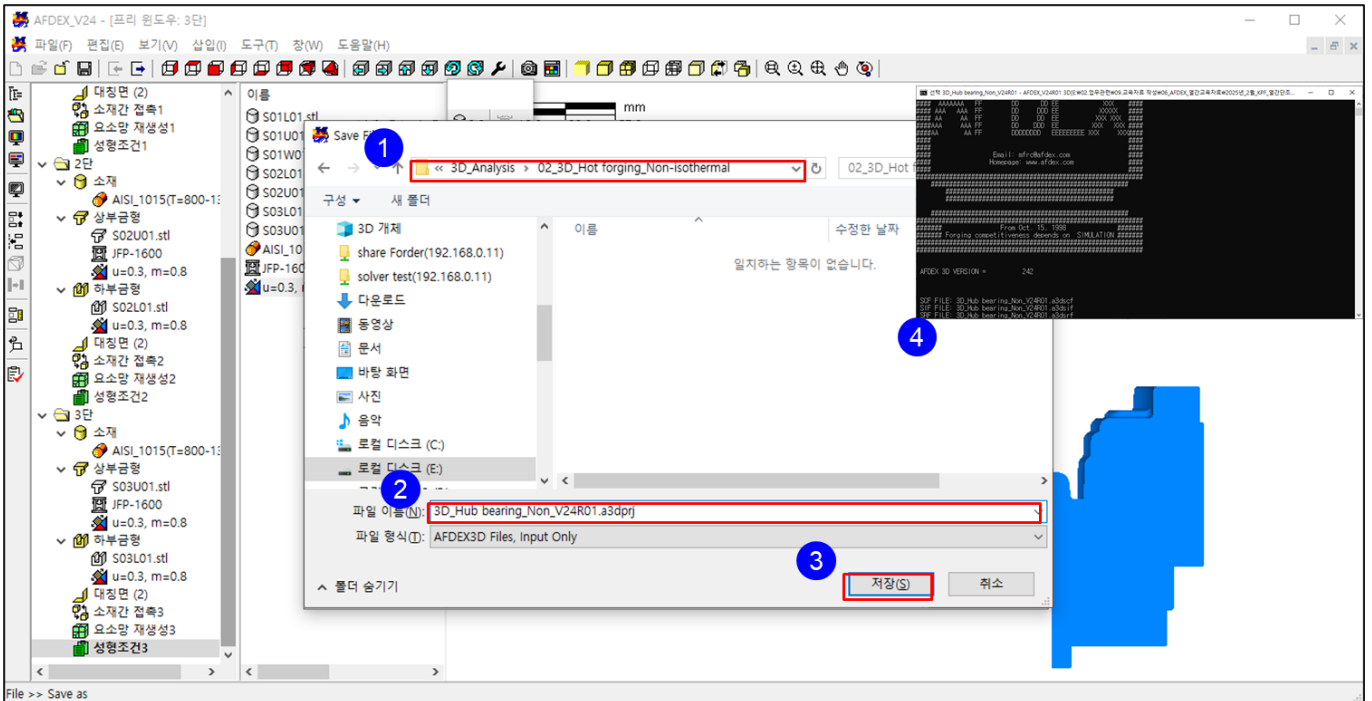


1. “ 3 ”
2. “ ” , “ ” “ 10.4 ”
3. “ ( ”
4. “ )
5. “ ” “ ” “ ” “ ”

[ : ]

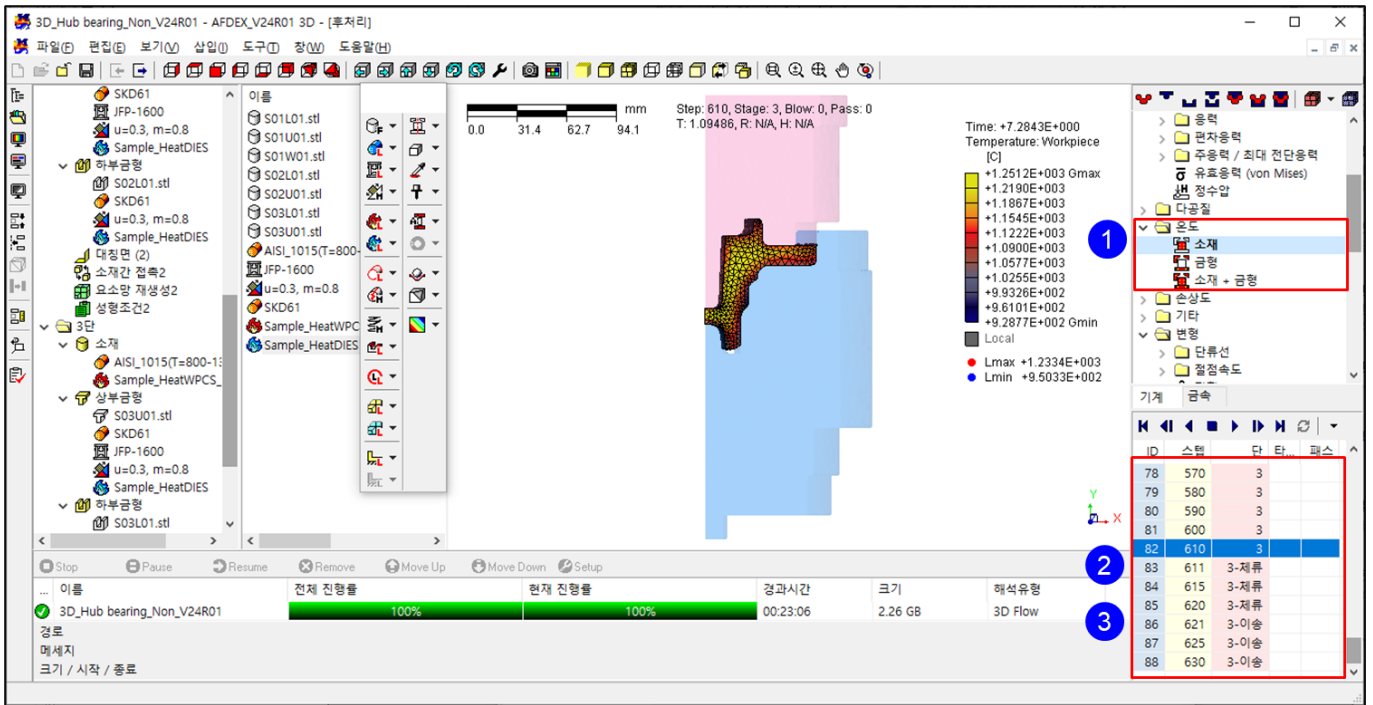


1. “ On/Off” “ / ” .( “
  2. “ ” “ ” “ ”
- [ ]



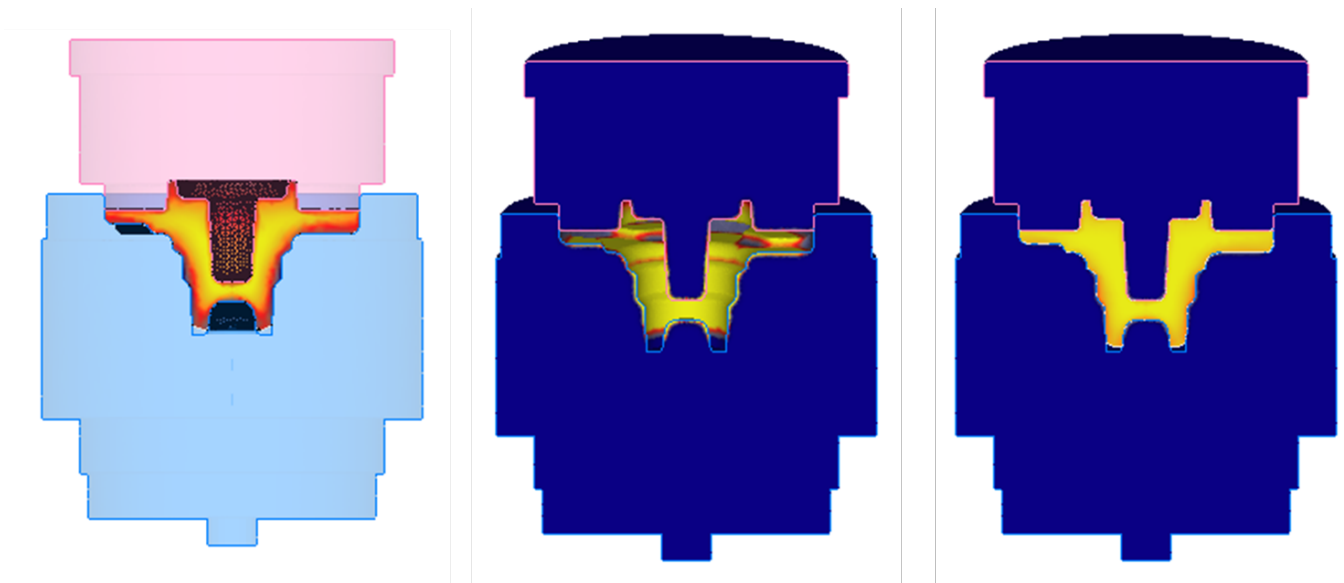
- 1.
2. “ ” .( )
3. “ ” .
- 4.

[ : ]



1. “ ” “ ( ) “ . ( )
2. 가

[ : ]



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