

## Contents

### Final Remarks

```
% VLFL_EXP59 - Publishable tutorial how to use the fncf SGcutTcylicdricblade
%           (by Tim Lueth, VLFL-Lib, 2020-SEP-04 as class: EXPERIMENTS)
%
%           Introduced first in SolidGeometry 5.0
%
%           See also: SGcutTcylicdricblade
%
%           VLFL_EXP59
%
%           EXAMPLE:
%           publishTL('VLFL_EXP59')
%
%           See also: SGcutTcylicdricblade
%
%           Copyright 2020 Tim C. Lueth
% function VLFL_EXP59
```

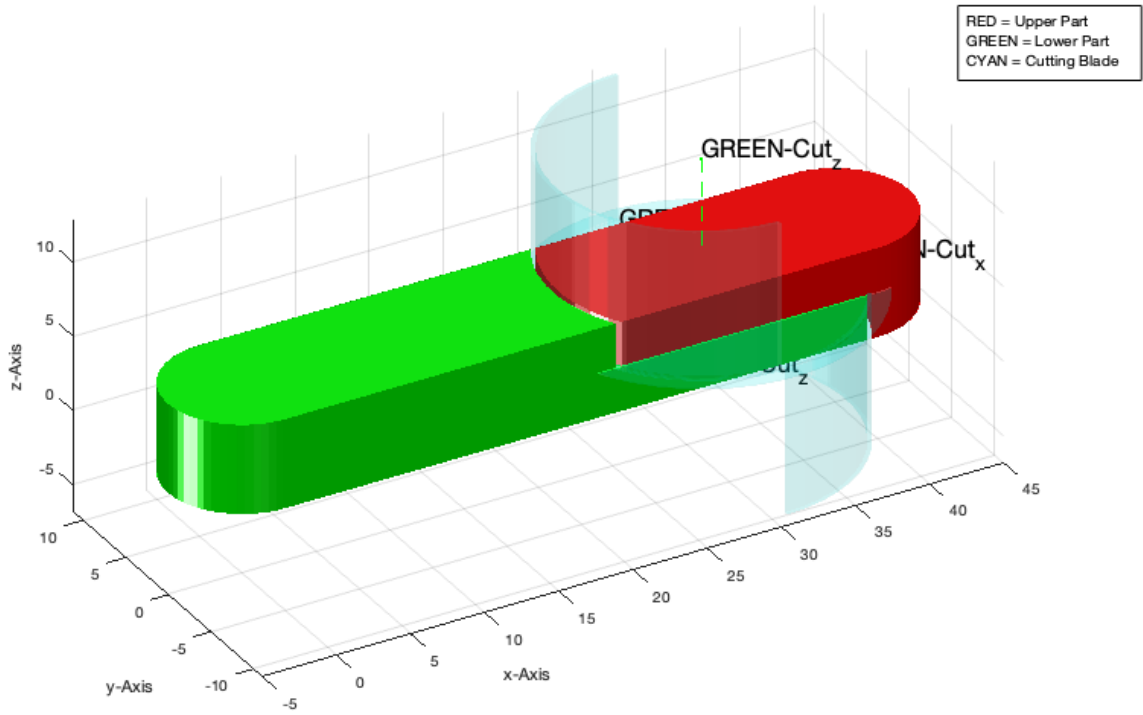
```
T=[
-0.0000    0 -1.0000   31
    0    1.0000    0    0.00
    1.0000    0 -0.0000   3.0000
    0    0    0    1.0000
]
T=TofP([31 0 3]);
```

```
T =
    0    0   -1   31
    0    1    0    0
    1    0    0    3
    0    0    0    1
```

```
SGcutTcylicdricblade(SGManipulatorLink,T,'a',[10 0.3 pi/2]); view(-30,30); drawnow;
```

```
R =
    10
```

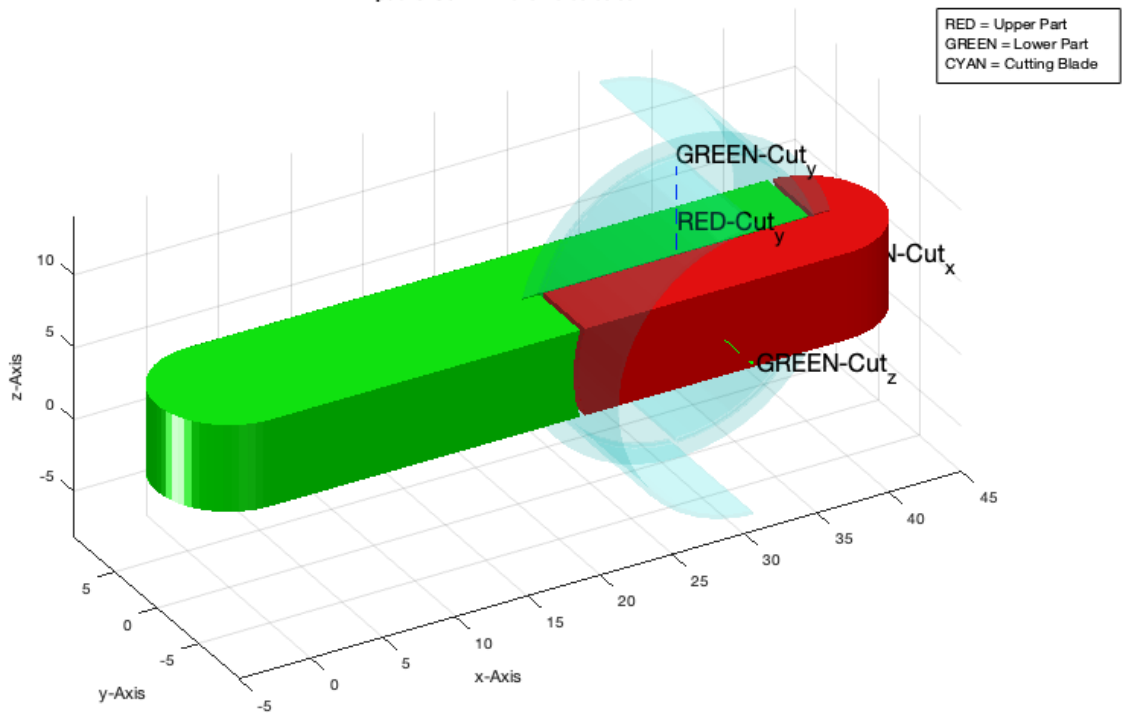
publishSGPDF: 2023-10-03 08:53:42



```
SGcutTcylindricblade(SGmanipulatorLink,T,'c',[10 0.3 pi/2]); view(-30,30); drawnow;
```

```
R =
    10
FLrepair: (SGremsurfedgepoints) 1 open triangle(s) closed.
FLrepair: (SGremsurfedgepoints) No open boundaries finally exist!
```

publishSGPDF: 2023-10-03 08:53:44



```
SGcutTcylindricblade(SGManipulatorLink,T,'s',10); view(-30,30); drawnow;
```

```
load ADAM_Aframes.mat; SG=ADAM_Aframes
SGN=SGcutTcylindricblade(SG,T,'a',[10 0.3 pi/2]); view(-30,30); drawnow;
```

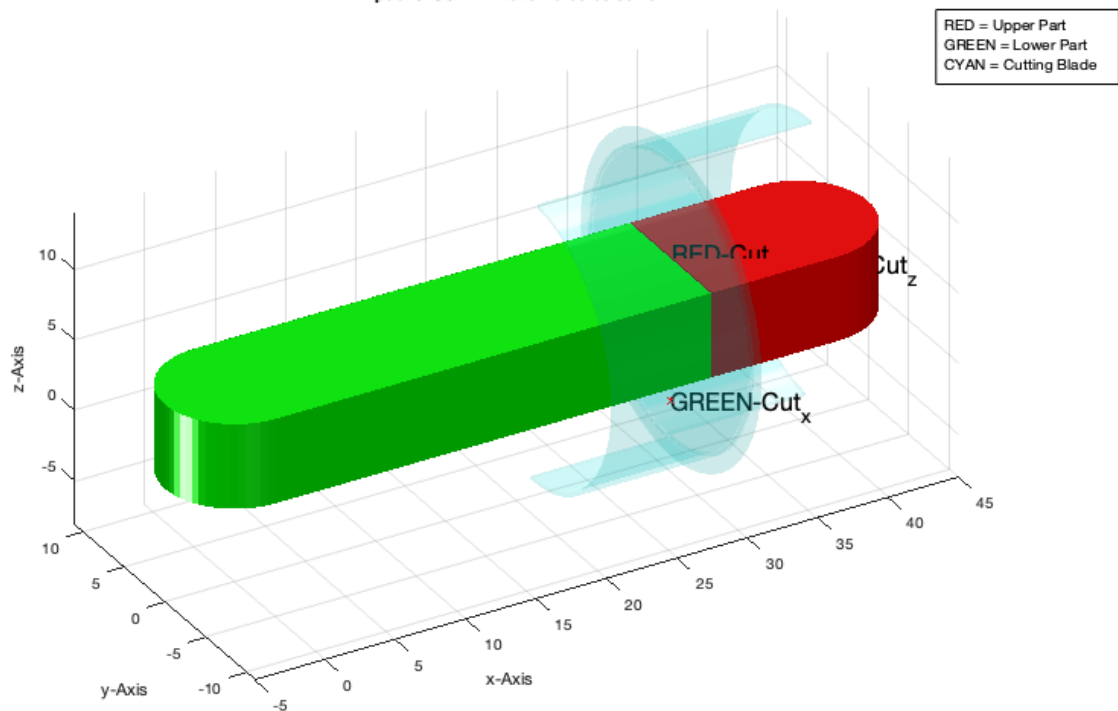
```
SGN
```

```
SGcutTbladeangle: Minimal Radius Rmin is 4.8
SGcutTbladeangle: Blade center angle is 92.99
```

```
R =
    10
SG =
  struct with fields:

    VL: [15730x3 double]
    FL: [31460x3 double]
    FC: [31460x3 double]
    Tname: {'VN' 'VL' 'KL' 'KR' 'AL' 'AR' 'ER' 'EL'}
    T: {1x8 cell}
    TFiL: {[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]}
R =
    10
SGN =
  1x4 cell array
  {0x0 double} {0x0 double} {4x4 double} {1x1 struct}
```

publishSGPDF: 2023-10-03 08:53:45



## Final Remarks

```
close all
VLFLlicense
```

This VLFL-Lib, Rel. (2023-Oct-03), is for limited non commercial educational use only!

```
Licensee: Tim Lueth (Development Version)!
Please contact Tim Lueth, Professor at TU Munich, Germany!
WARNING: This VLFL-Lib (Rel. ) license will exceed at 06-Jul-2078 08:54:12!
Executed 03-Oct-2023 08:54:14 by 'timlueth' on a MACI64 using Mac OSX 13.6 | R2023a Update 5 | SG-Lib 5.4
===== Used Matlab products: =====
database_toolbox
distrib_computing_toolbox
fixed_point_toolbox
image_toolbox
map_toolbox
matlab
optimization_toolbox
pde_toolbox
simmechanics
simscape
simulink
=====
```

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