



Presentation SMART SANDER

Search your modules

Edit Favorites Install Module



Robot Parameters



Task Editor



Jog Plus



Status



Logs



Settings



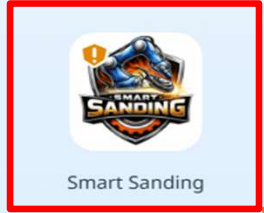
Remote Control



Store



Soudage ANG



Smart Sanding

Programming Sander App

Smart Sanding User Command Settings

Global settings

- Move to home before process
- Move to home after process

Default speed regime

OnRobot

Pose dialog speed / acceleration

Move Linear speed 200 mm/s
Move Linear acceleration 600 mm/s²
Move Joint speed 30 deg/s
Move Joint acceleration 60 deg/s²



Home Pose

Sweep command defaults

spacing 100 mm

radius 30 mm

speed 100 mm/s

acceleration 60 mm/s²

Automatic Approach/Retreat

Lift Offset 20 mm

Path Offset 40 mm

Fill Mode
Zigzag

Ensure full coverage

Tool orientation
Teaching (original)

Enable force control

Target force 5 N

Reset all defaults

Smart Sanding User Command Settings

Global settings

- Move to home before process
- Move to home after process

Default speed regime

OnRobot

OnRobot

Mirca

Move Joint speed 30 deg/s

Move Joint acceleration 60 deg/s²

Move acceleration 30 mm/s²

Home Pose

Sweep command defaults

spacing

100 mm

radius

30 mm

speed

100 mm/s

acceleration

60 mm/s²

Automatic Approach/Retreat

Lift Offset

20 mm

Path Offset

40 mm

Fill Mode

Zigzag

Ensure full coverage

Tool orientation

Teaching (original)

Enable force control

Target force

5 N

Reset all defaults

Servo

On

Robot

Quick Control

Speed 100%

Smart Sanding User Command Settings

Global settings

- Move to home before process
- Move to home after process

Default speed regime

OnRobot

Pose dialog speed / acceleration

Move Linear speed: 200 mm/s

Move Linear acceleration: 600 mm/s²

Move Joint speed: 30 deg/s

Move Joint acceleration: 60 deg/s²

Home Pose

Sweep command defaults

spacing: 100 mm

radius: 30 mm

speed: 100 mm/s

acceleration: 60 mm/s²

Automatic Approach/Retreat

Lift Offset: 20 mm

Path Offset: 40 mm

Fill Mode: Zigzag

Enable force control

Target force: 5 N

Reset all defaults

Smart Sanding User Command Settings

v1.5.0

Global settings

- Move to home before process
- Move to home after process

Default speed regime

OnRobot

Pose dialog speed / acceleration

Move Linear speed	200 mm/s	Move Linear acceleration	600 mm/s ²
Move Joint speed	30 deg/s	Move Joint acceleration	60 deg/s ²

Home Pose

Sweep command defaults

spacing	100 mm
radius	30 mm
speed	100 mm/s
acceleration	60 mm/s ²
<input type="checkbox"/> Automatic Approach/Retreat	
Lift Offset	20 mm
Path Offset	40 mm

Fill Mode

Zigzag

Ensure full coverage

Tool orientation

Teaching (original)

Teaching (original)

Plane

Axis

Custom plane

Reset all defaults

Smart Sanding User Command Settings

Global settings

- Move to home before process
- Move to home after process



Home Pose

Edit Joint Pose: Home Pose

X (mm)	Y (mm)	Z (mm)	RZ (deg)	RY (deg)	RX (deg)
563,039	34,22	229,938	180	0	180

Solution Space (Shoulder/Elbow/Wrist)

2 - Lefty / Above / NoFlip

J1 (deg)	J2 (deg)	J3 (deg)	J4 (deg)	J5 (deg)	J6 (deg)
0	0	90	0	90	0



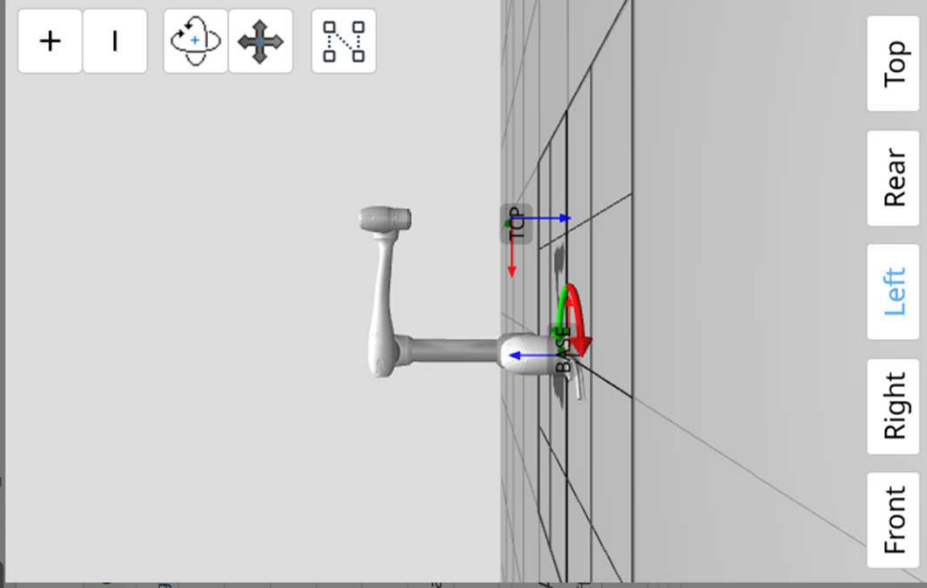
Get Current Pose

Move Linear

Move Joint

Apply Changes

Cancel



+

-



Front

Right

Left

Rear

Top

Servo

On



Robot

Quick Control



Speed 100%

Reset all defaults

Smart Sanding User Command Settings

Global settings

- Move to home before process
- Move to home after process

Default speed regime

OnRobot

Pose dialog speed / acceleration

Move Linear speed 200 mm/s
Move Linear acceleration 600 mm/s²
Move Joint speed 30 deg/s
Move Joint acceleration 60 deg/s²

Home Pose

Sweep command defaults

spacing 100 mm
radius 30 mm
speed 100 mm/s
acceleration 60 mm/s²
 Automatic Approach/Retreat
Lift Offset 20 mm
Path Offset 40 mm

Fill Mode Zigzag
 Ensure full coverage
Tool orientation Teaching (original)
 Enable force control
Target force 5 N

Reset all defaults

Smart Sanding User Command Settings

Global settings

- Move to home before process
- Move to home after process

Default speed regime

OnRobot

Pose dialog speed / acceleration

Move Linear speed	200 mm/s	Move Linear acceleration	600 mm/s ²
Move Joint speed	30 deg/s	Move Joint acceleration	60 deg/s ²



Home Pose

Sweep command defaults

spacing	100 mm
radius	30 mm
speed	100 mm/s
acceleration	60 mm/s ²
<input type="checkbox"/> Automatic Approach/Retreat	
Lift Offset	20 mm
Path Offset	40 mm

Fill Mode
Zigzag

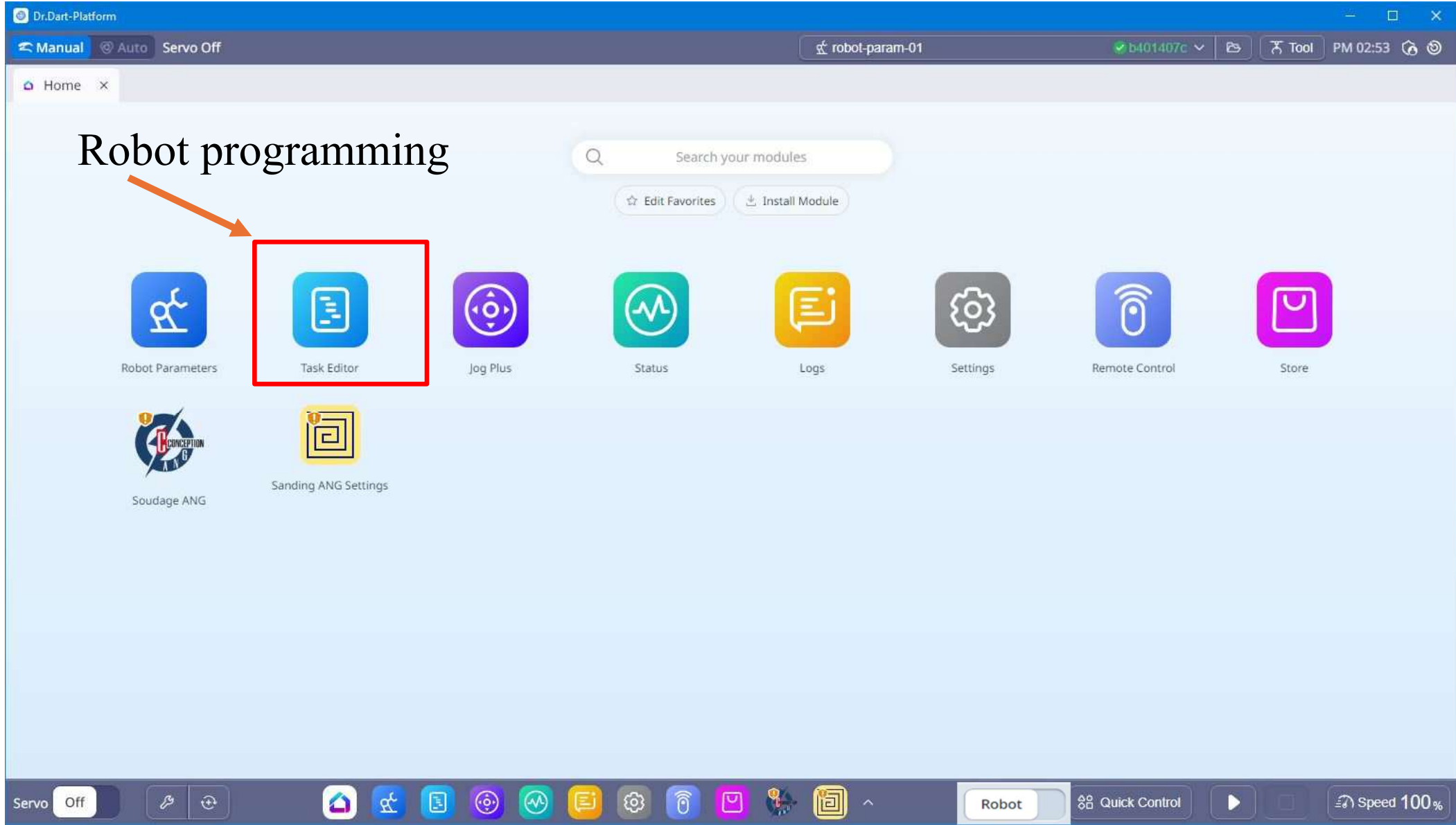
Ensure full coverage

Tool orientation
Teaching (original)

Enable force control

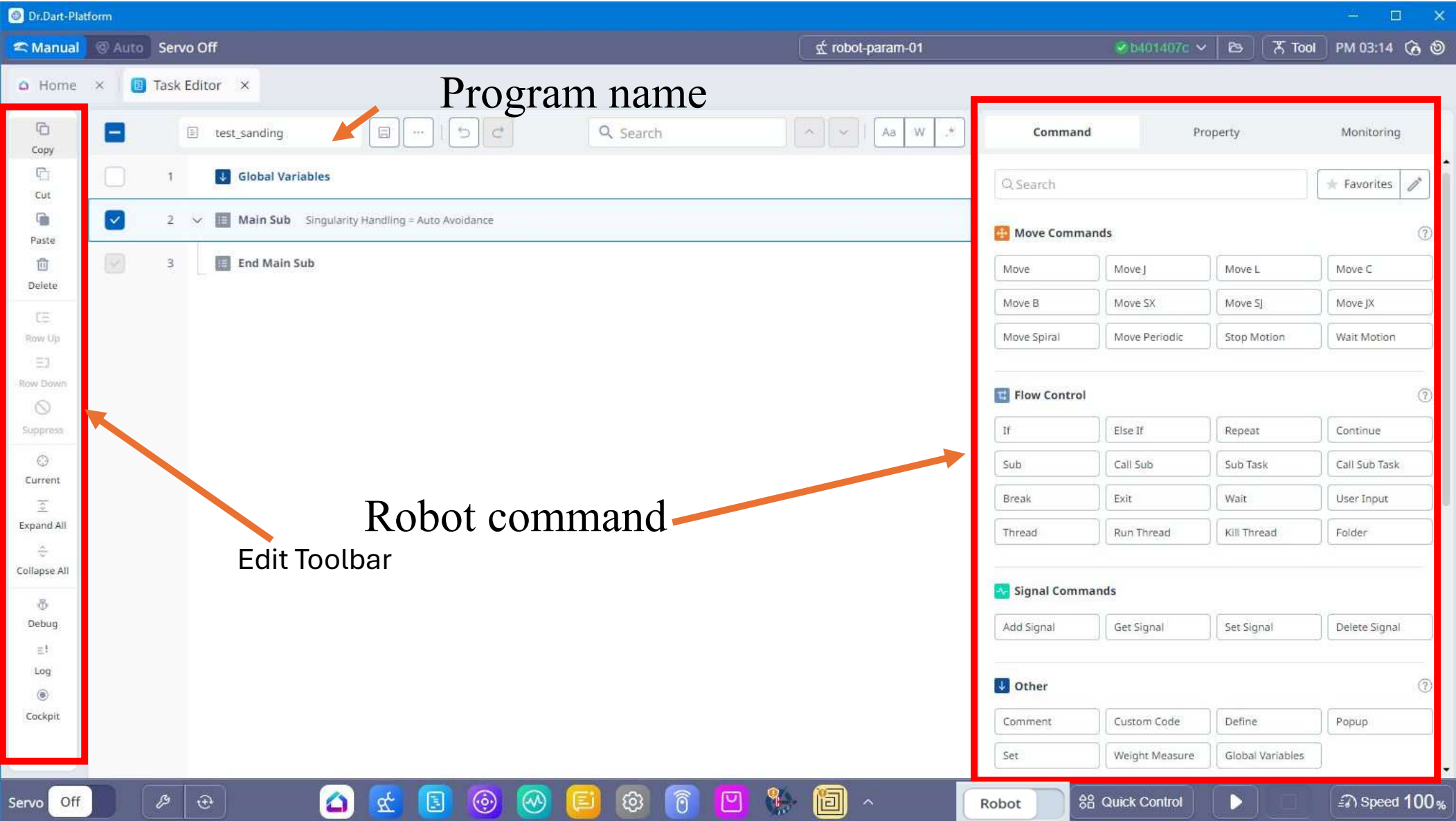
Target force
5 N

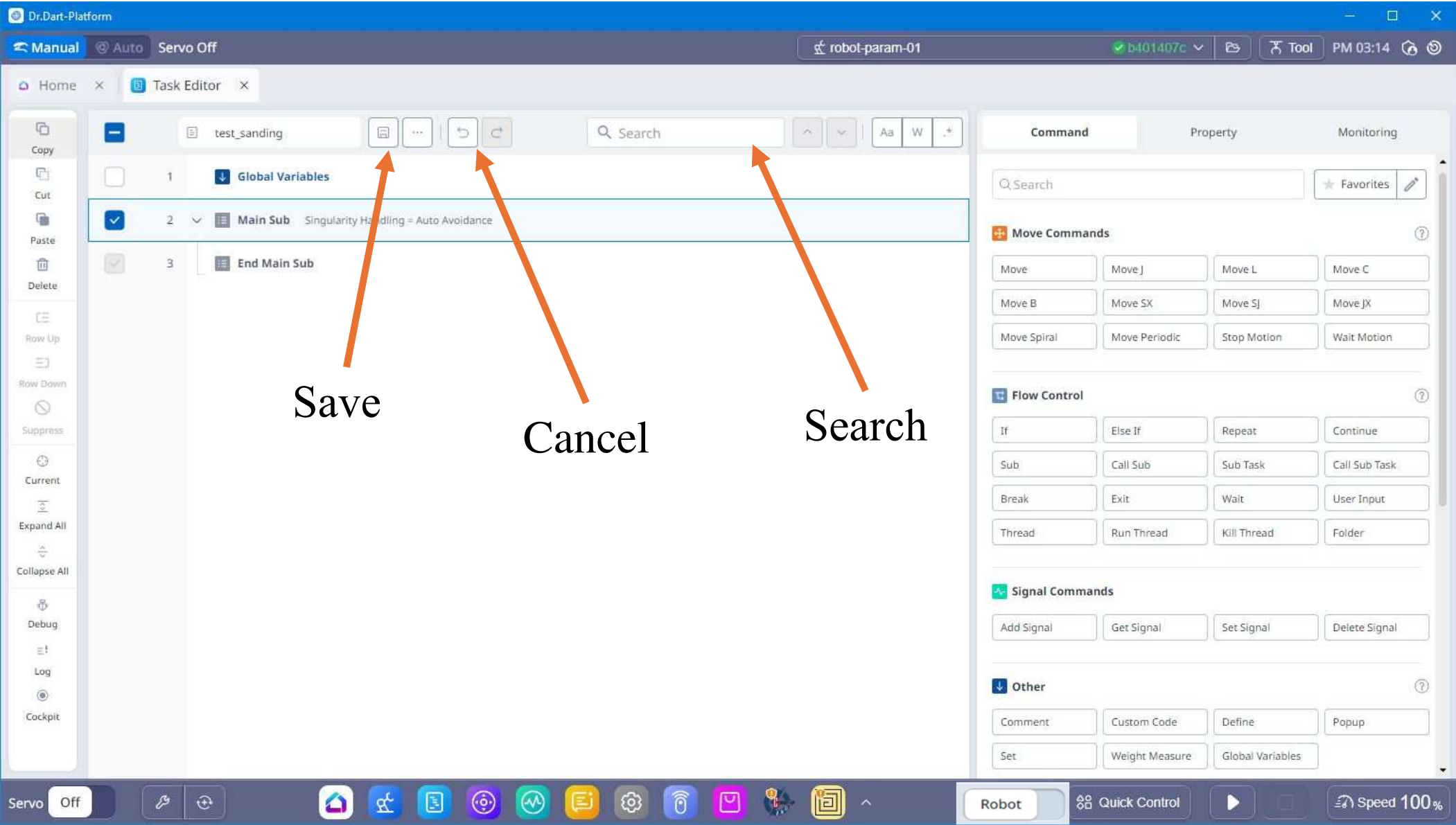
Reset all defaults



Robot programming



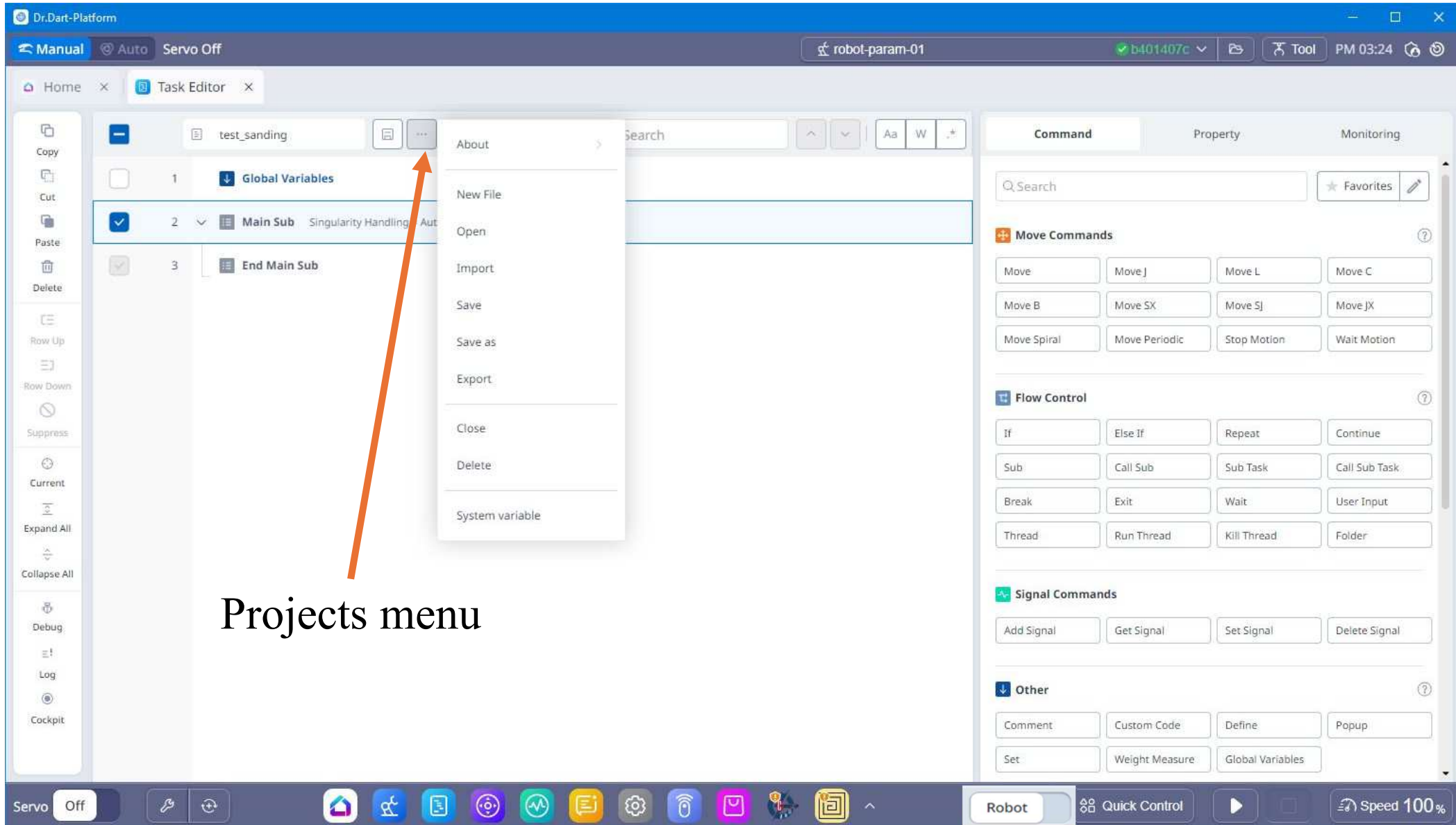




Save

Cancel

Search



PROGRAMMING SANDING PATH



Dr.Dart-Platform

Manual Auto Manual Standby robot-param-01 d55be11a Tool AM 10:36

Task Editor Home Jog Plus Smart Sanding Robot Parameters Settings

Copy
Cut
Paste
Delete
Row Up
Row Down
Suppress
Current
Expand All
Collapse All
Debug
Log

Demo_Smart Sander

1 Global Variables

2 Main Sub Singularity Handling = Auto Avoidance

3 End Main Sub

Command Property Monitoring

Main Sub

General Task Information

Repeat (Variable : gLoopCountRev)

Wait Between Repeats 0.00 s

The delay between repeat executions. A minimum of 0.1 seconds is recommended.

Repeat Number

Infinite Loops

Processing a large number of commands in a short period of time can cause system performance degradation.

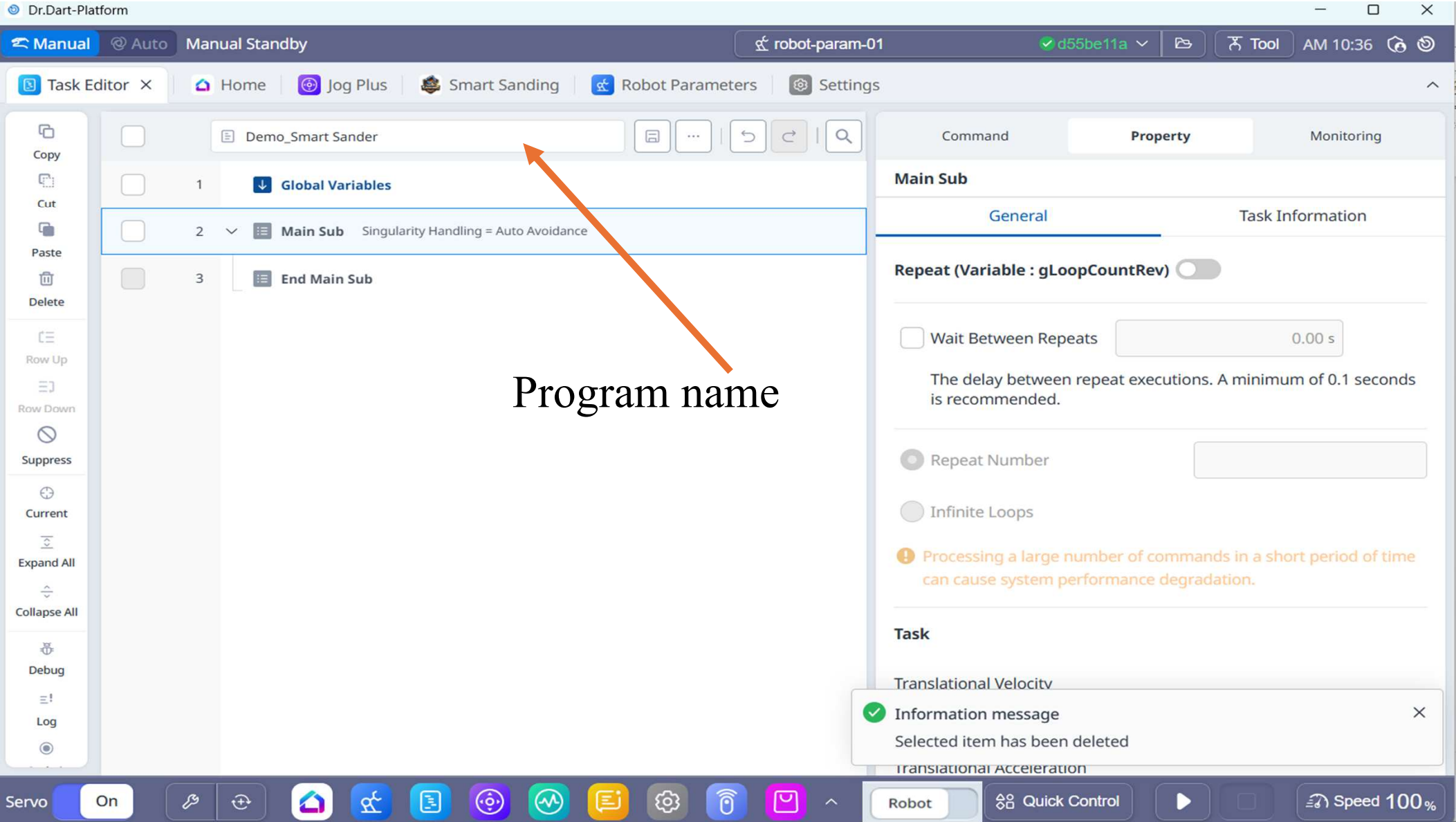
Task

Translational Velocity

Information message Selected item has been deleted

Translational Acceleration

Servo On Robot Quick Control Speed 100%



Program name

Copy
Cut
Paste
Delete
Row Up
Row Down
Suppress
Current
Expand All
Collapse All
Debug
Log

Demo_Smart Sander

- 1 Global Variables
- 2 Main Sub Singularity Handling = Auto Avoidance
- 3 End Main Sub

SMART SANDINNG



Command	Property	Monitoring
Other		
Comment	Custom Code	Define
Set	Weight Measure	Global Variables
Force Control Commands		
Compliance	Force	
Advanced Commands		
Hand Guide	Nudge	
User Commands		
Smart_Welding		
Weld_L	Weld_C	Weld_L_D
Smart_Sanding		
Sweep	SanderSpeed	ChangePaper

Copy Cut Paste Delete

Row Up Row Down Suppress

Current Expand All Collapse All

Debug Log

Demo_Smart Sander

1 Global Variables

2 Main Sub Singularity Handling = Auto Avoidance

3 ChangePaper Smart_Sanding

4 End Main Sub

Command Property Monitoring

Other

Comment Custom Code Define Popup

Set Weight Measure Global Variables

Force Control Commands

Compliance Force

Advanced Commands

Hand Guide Nudge

User Commands

Smart_Welding Weld_L Weld_C Weld_L_D Weld_L_M

Smart_Sanding

Information message

Selected item has been deleted

Copy Cut Paste Delete

Row Up Row Down Suppress Current Expand All Collapse All Debug Log

Demo_Smart Sander

- Global Variables
- Main Sub Singularity Handling = Auto Avoidance
- ChangePaper** Smart_Sanding, change_sanding_paper(target_posj=[0,90,0,90,0], mo...
- End Main Sub

Command Property Monitoring

Change Paper Command

Moves to the paper-change pose and waits for operator confirmation.

Paper-change pose

Show operator instruction popup before waiting for confirmation

Task Editor X Home Jog Plus Smart Sanding Robot Parameters Settings

Copy Cut Paste Delete Row Up Row Down Suppress Current Expand All Collapse All Debug Log

Demo_Smart Sander

Global Variables

Main Sub Singularity Handling = Auto Avoidance

Edit Joint Pose: Paper-change pose

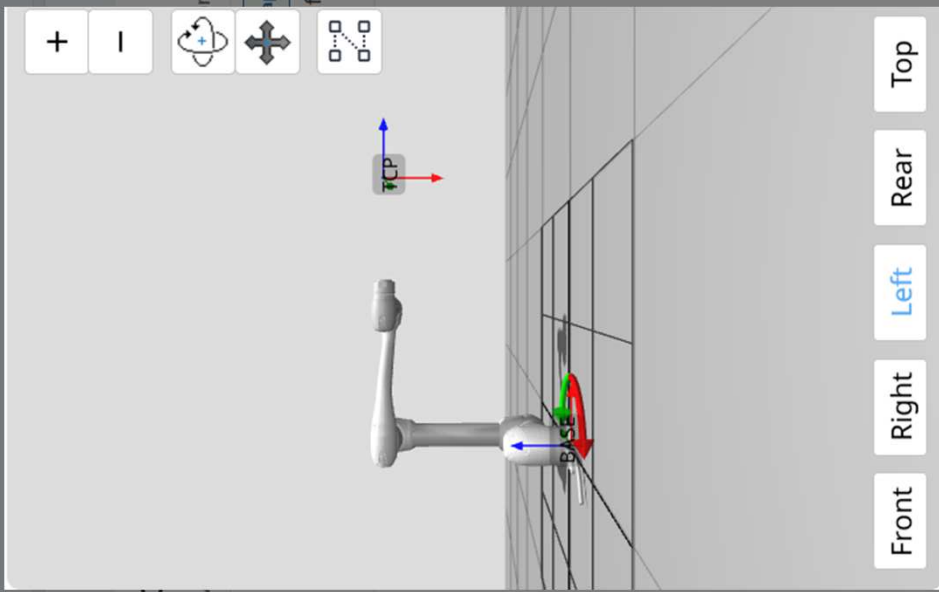
X (mm)	Y (mm)	Z (mm)	RZ (deg)	RY (deg)	RX (deg)
1101,562	34,213	776,539	25,23937	90	25,23975

Solution Space (Shoulder/Elbow/Wrist)

2 - Lefty / Above / NoFlip

J1 (deg)	J2 (deg)	J3 (deg)	J4 (deg)	J5 (deg)	J6 (deg)
0	0	90	0	0	0

Get Current Pose Move Linear Move Joint Apply Changes Cancel



Servo On

Robot

Quick Control

Speed 100%

Change Paper Command

Moves to the paper-change pose and waits for operator confirmation.

Paper-change pose
Function popup before waiting for

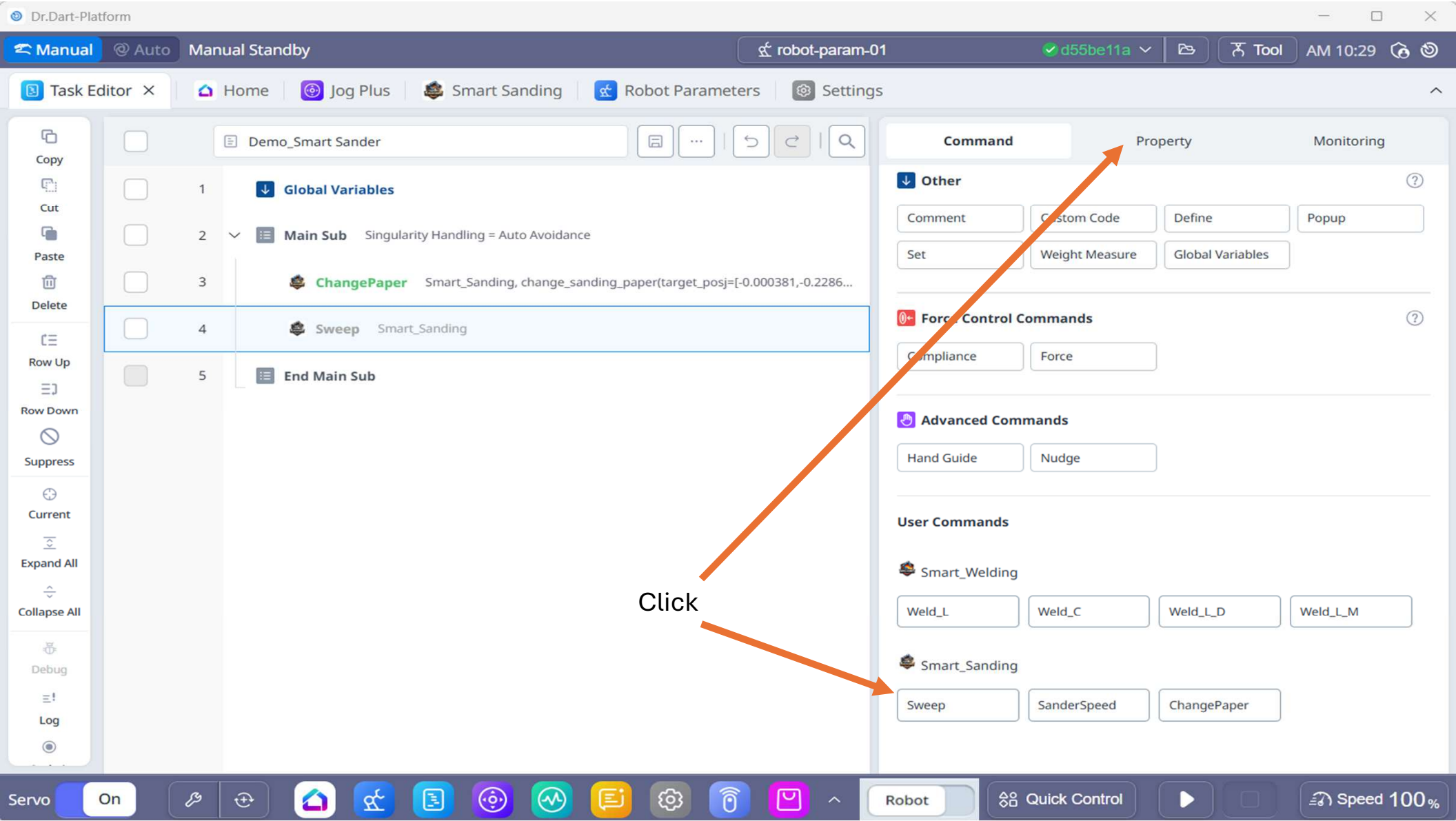
Edit Joint Pose: Paper-change pose

X (mm)	Y (mm)	Z (mm)	RZ (deg)	RY (deg)	RX (deg)
1099,099	34,214	775,374	179,9992	89,76619	179,9995

Solution Space (Shoulder/Elbow/Wrist)
0 - Lefty / Below / NoFlip

J1 (deg)	J2 (deg)	J3 (deg)	J4 (deg)	J5 (deg)	J6 (deg)
0	-0,229	90,121	0,018	0,342	-0,018

Buttons: Get Current Pose, Move Linear, Move Joint, Apply Changes, Cancel



Click

Task Editor

- Copy
- Cut
- Paste
- Delete
- Row Up
- Row Down
- Suppress
- Current
- Expand All
- Collapse All
- Debug
- Log

Demo_Smart Sander

- Global Variables
- Main Sub Singularity Handling = Auto Avoidance
- ChangePaper Smart_Sanding, change_sanding_paper(target_posj=[9.404896,0.07219...
- Sweep Smart_Sanding, area_sweep(path_points=[[879.102,-35.621,-29.465,0.016705,17...**
- End Main Sub

Area Sweep Command

Path Process Sander

Fill Mode
 Zigzag Spiral

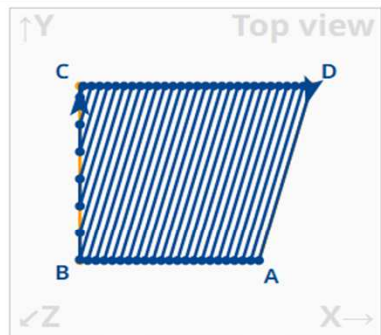
spacing 10 mm radius 30 mm

Automatic Approach
 Automatic Retreat

Start edge 0 D → A

Flip order Flip path Ensure full coverage

Top view



Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	812.4	-285.6	-29.5	0.0	180.0	-0.0		
B	585.0	-285.6	-29.5	0.0	180.0	-0.0		
C	585.0	-35.6	-29.5	0.0	180.0	-0.0		

Click

Task Editor

- Copy
- Cut
- Paste
- Delete
- Row Up
- Row Down
- Suppress
- Current
- Expand All
- Collapse All
- Debug
- Log

- 1 Demo_Smart Sander
- 2 Global Variables
- 3 Main Sub Singularity Handling = Auto Avoidance
- 4 ChangePaper Smart_Sanding, change_sanding_paper(target_posj=f9.404896,0.07219,...
- 5 Sweep Smart_Sanding, area_sweep(path_points=[[879.102,-35.621,-29.465,0.016705,17... End Main Sub

Search, Refresh, Undo, Redo, Close icons

Command Property Monitoring

Area Sweep Command

Path Process Sander

Fill Mode

Zigzag Spiral

spacing 10 mm radius 30 mm

Automatic Approach

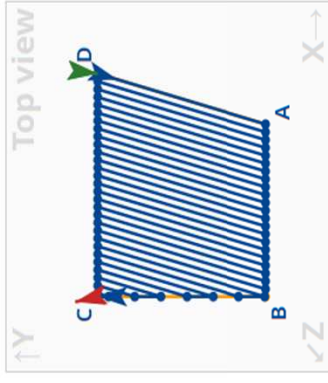
Automatic Retreat

Lift Offset 20 mm Path Offset 40 mm

Start edge

0 | D → A | ▶

Flip order Flip path Ensure full coverage



Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	812.4	-285.6	-29.5	0.0	180.0	-0.0	-0.0	
B	585.0	-285.6	-29.5	0.0	180.0	-0.0	-0.0	

Servo Off

🔑

↺

Virtual

Quick Control

⚙️

▶

□

⌵

Speed 100%

Task Editor

Copy Cut Paste Delete

Row Up Row Down Suppress

Current Expand All Collapse All

Debug Log

1	Global Variables	
2	Main Sub Singularity Handling = Auto Avoidance	
3	ChangePaper Smart_Sanding, change_sanding_paper(target_pos=[9.404896,0.07219...	
4	Sweep Smart_Sanding, area_sweep(path_points=[[879.102,-35.621,-29.465,0.016705,17...	
5	End Main Sub	

Area Sweep Command

Command Property Monitoring

Path Process Sander

Fill Mode

Zigzag Spiral

spacing 10 mm radius 30 mm

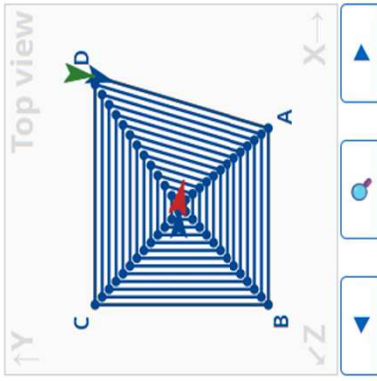
Automatic Approach

Automatic Retreat

Lift Offset 20 mm Path Offset 40 mm

Start edge 0 | D → A | ▶

Flip order Flip path Ensure full coverage



Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	812.4	-285.6	-29.5	0.0	180.0	-0.0		
B	585.0	-285.6	-29.5	0.0	180.0	-0.0		

Area Sweep Command

Path Process Sander

speed acceleration

100 mm/s 60 mm/s²

Move to home before process

Move to home after process

Home Pose

Tool orientation

Teaching (original)

Enable force control

Target force

5 N

Demo_Smart Sander
 Global Variables
 Main Sub Singularity Handling = Auto Avoidance
 ChangePaper Smart_Sanding, change_sanding_paper(target_posj=[-0.000381,-0.2286...
 Sweep Smart_Sanding
 End Main Sub

Copy
 Cut
 Paste
 Delete
 Row Up
 Row Down
 Suppress
 Current
 Expand All
 Collapse All
 Debug
 Log

Copy, Cut, Paste, Delete, Row Up, Row Down, Suppress, Current, Expand All, Collapse All, Debug, Log

- 1 Global Variables
- 2 Main Sub Singularity Handling = Auto Avoidance
- 3 ChangePaper Smart_Sanding, change_sanding_paper(target_pos=[-0.000381,-0.2286...
- 4 Sweep Smart_Sanding
- 5 End Main Sub

Area Sweep Command

Command: Property Monitoring

Path: Process Sander

speed: 100 mm/s acceleration: 60 mm/s²

Move to home before process
 Move to home after process

Home Pose

Tool orientation: Teaching (original)

Teaching (original)

Plane

Axis

Custom plane

Target force: 5 N

Demo_Smart Sander

- 1 Global Variables
- 2 Main Sub Singularity Handling = Auto Avoidance
- 3 ChangePaper Smart_Sanding, change_sanding_paper(target_posj)=[-0.000381,-0.2286...
- 4 Sweep Smart_Sanding
- 5 End Main Sub

Command Property Monitoring

Area Sweep Command

Path Process Sander

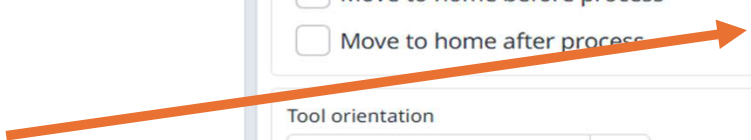
speed 100 mm/s acceleration 60 mm/s²

Move to home before process Move to home after process [Home Pose](#)

Tool orientation Teaching (original)

Enable force control Target force 5 N

Click



- 1 Global Variables
- 2 Main Sub Singularity Handling = Auto Avoidance
- 3 ChangeP
- 4 Sweep
- 5 End Main Sub

Area Sweep Command

Path

Sander

acceleration

60 mm/s²

Home Pose

Target force

5 N

Edit Joint Pose: Home Pose

X (mm)	Y (mm)	Z (mm)	RZ (deg)	RY (deg)	RX (deg)
563,038	34,218	229,938	180	-0,000007	-180

Solution Space (Shoulder/Elbow/Wrist)

2 - Lefty / Above / NoFlip



J1 (deg)	J2 (deg)	J3 (deg)	J4 (deg)	J5 (deg)	J6 (deg)
0	0	90	0	90	0

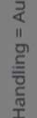
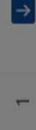
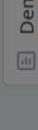
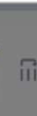
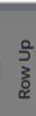
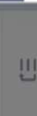
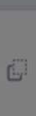
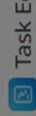
Get Current Pose

Move Linear

Move Joint

Apply Changes

Cancel



Edit Joint Pose: Home Pose

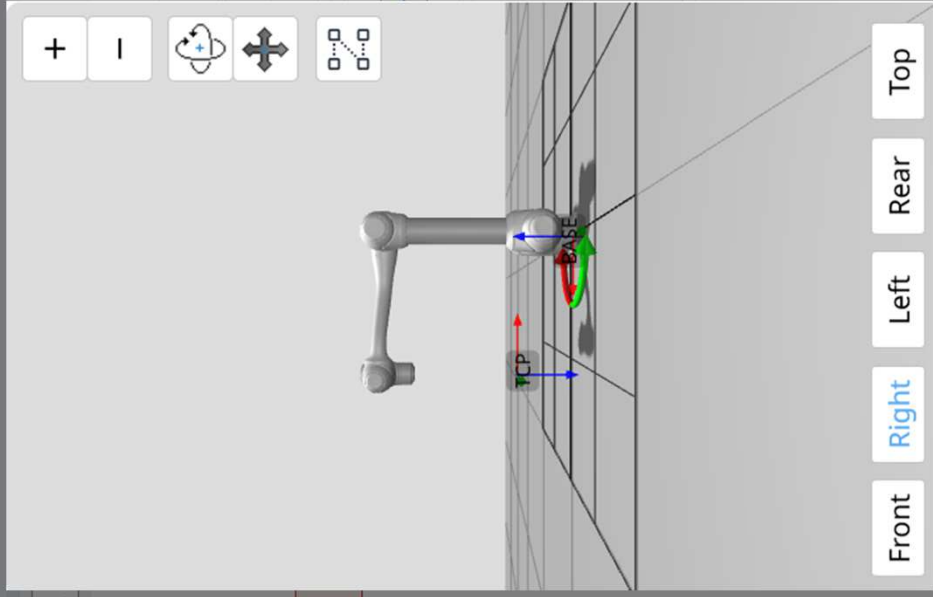
X (mm)	Y (mm)	Z (mm)	RZ (deg)	RY (deg)	RX (deg)
563,801	34,379	231,43	0,016705	179,9915	-0,017084

Solution Space (Shoulder/Elbow/Wrist)

2 - Lefty / Above / NoFlip

J1 (deg)	J2 (deg)	J3 (deg)	J4 (deg)	J5 (deg)	J6 (deg)
0	0,063	89,784	0,017	90,144	-0,017

Get Current Pose Move Linear Move Joint Apply Changes Cancel



Copy Cut Paste Delete

Row Up Row Down

Suppress

Current

Expand All Collapse All

Debug Log

1	<input type="checkbox"/>	Global Variables	
2	<input type="checkbox"/>	Main Sub	Singularity Handling = Auto Avoidance
3	<input type="checkbox"/>	ChangePaper	Smart_Sanding, change_sanding_paper(target_posj=[L-0.000381,-0.0085...
4	<input type="checkbox"/>	Sweep	Smart_Sanding
5	<input type="checkbox"/>	End Main Sub	

Command Property Monitoring

Area Sweep Command

Path Process Sander

speed 100 mm/s acceleration 60 mm/s²

Move to home before process
 Move to home after process

Home Pose

Tool orientation Teaching (original)

Enable force control Target force 5 N

Copy Cut Paste Delete

Row Up Row Down Suppress Current Expand All Collapse All

Debug Log

Command Property Monitoring

Area Sweep Command

Path Process Sander

speed acceleration

100 mm/s 60 mm/s²

Move to home before process

Move to home after process

Home Pose

Tool orientation

Teaching (original)

Enable force control

Target force

5 N

Copy Cut Paste Delete

Row Up Row Down

Suppress

Current

Expand All Collapse All

Debug Log

<input type="checkbox"/>	Demo_Smart Sander	
<input type="checkbox"/>	Global Variables	
<input type="checkbox"/>	Main Sub Singularity Handling = Auto Avoidance	
<input type="checkbox"/>	ChangePaper Smart_Sanding, change_sanding_paper(target_posj=L-0.000381,-0.2286...	
<input type="checkbox"/>	Sweep Smart_Sanding	
<input type="checkbox"/>	End Main Sub	

Search

Refresh

Undo

Redo

More

Print

Command

Property

Monitoring

Area Sweep Command

Path Process Sander

- Start sander automatically before path
- Stop sander automatically after path/retract

Command Property Monitoring

Area Sweep Command

Path Process Sander

Start sander automatically before path

Speed regime OnRobot Mirca

Select speed value

0 1000 1500 2000 2500

3000 3500 4000 4500 5000 5500

6000 6500 7000 7500 8000

Pins Configuration

Pin 9 = OFF Pin 10 = ON Pin 11 = ON Pin 12 = ON

Stop sander automatically after path/retract

Demo_Smart Sander

Global Variables

Main Sub Singularity Handling = Auto Avoidance

ChangePaper Smart_Sanding, change_sanding_paper(target_pos=[0.000381, 0.2286...

Sweep Smart_Sanding

End Main Sub

Copy Cut Paste Delete

Row Up Row Down Suppress Current Expand All Collapse All

Debug Log

Copy Cut Paste Delete

Row Up Row Down Suppress Current Expand All Collapse All

Debug Log

1	Global Variables	
2	Main Sub Singularity Handling = Auto Avoidance	
3	ChangePaper Smart_Sanding, change_sanding_paper(target_pos)=[-0.000381,-0.0085...	
4	Sweep Smart_Sanding	
5	End Main Sub	

Area Sweep Command

Command Property Monitoring

Path Process Sander

Start sander automatically before path

Speed regime OnRobot Mirca

Select speed value

0 1000 1500 2000 2500

3000 3500 4000 4500 5000 5500

6000 6500 7000 7500 8000

Pins Configuration

Pin 9 = ON Pin 10 = OFF Pin 11 = OFF Pin 12 = OFF

Stop sander automatically after path/retract

Dr.Dart-Platform

Manual Auto Servo Off robot-param-01 b401407c Tool PM 06:40

Home Task Editor

Sander_Test

The Sweep command generates the sanding path inside a convex polygon defined by its vertices.

Copy
Cut
Paste
Delete
Row Up
Row Down
Suppress
Current
Expand All
Collapse All
Debug
Log

10 End Main Sub

Area Sweep Command

Command Property Monitoring

Fill Mode
 Zigzag Spiral

spacing 100 mm radius 30 mm

speed 100 mm/s acceleration 60 mm/s²

Start edge 0

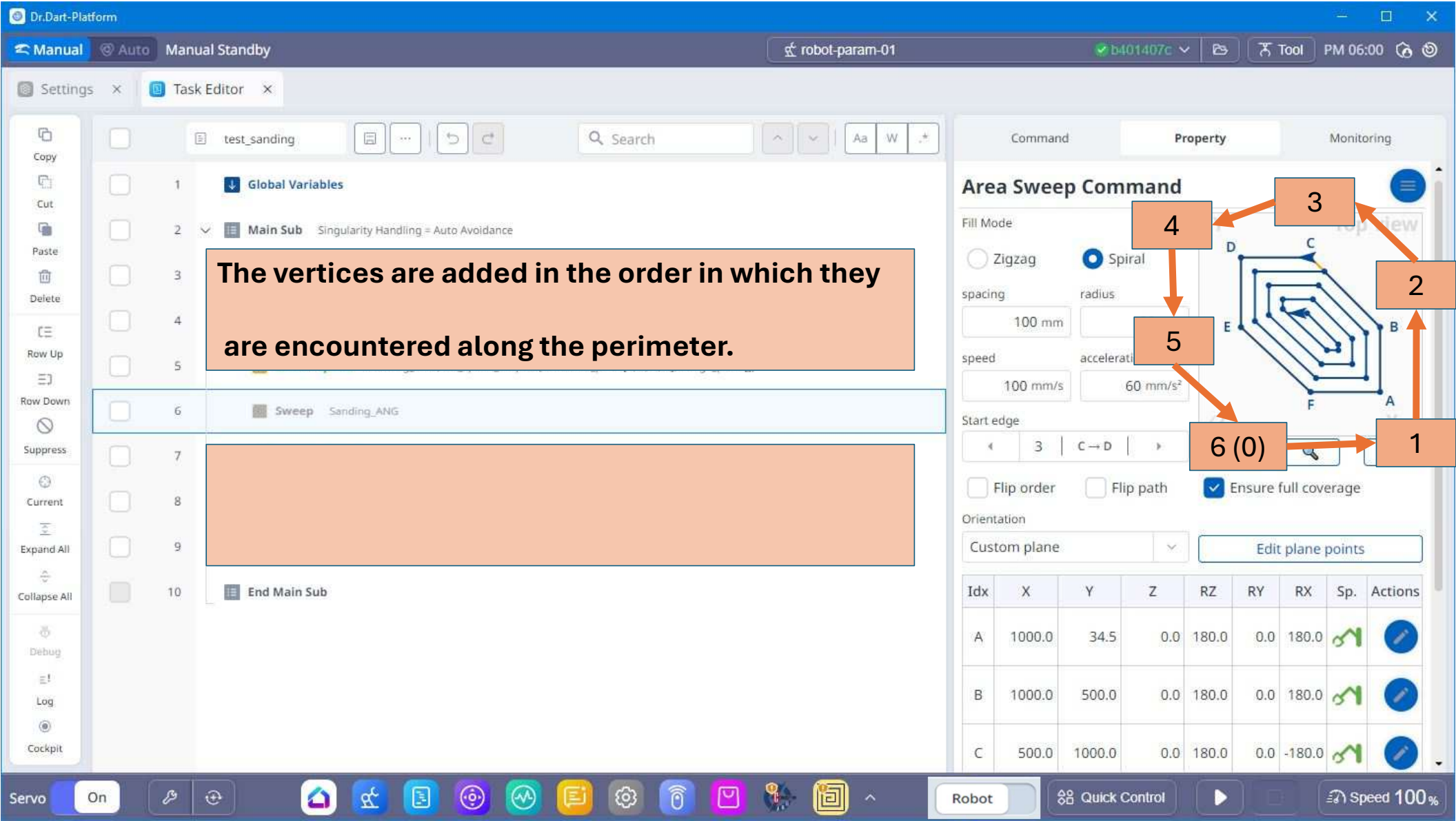
Flip order Flip path Ensure full coverage

Orientation
Teaching (original)

Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
Add vertex								

Servo Off Robot Quick Control Speed 100%

To add a polygon vertex, move the robot to the desired position and press the “Add vertex” button.



Dr.Dart-Platform

Manual Auto Manual Standby

robot-param-01 b401407c Tool PM 06:00

Settings Task Editor

test_sanding

1 Global Variables

2 Main Sub Singularity Handling = Auto Avoidance

6 Sweep Sanding_ANG

10 End Main Sub

Select the view.
Choose between “Top view”, “Front view”, “Left view”, “Right view”, “Rear view”, “Isometric view”, “Dimetric view”, or “Perspective view”.

Area Sweep Command

Fill Mode

Zigzag Spiral

spacing 100 mm radius 30 mm

speed 100 mm/s acceleration 60 mm/s

Start edge

3 C → D

Flip order Flip path Ensure full coverage

Orientation

Custom plane Edit plane points

Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	1000.0	34.0	0.0	180.0	0.0	180.0		
B	1000.0	1000.0	0.0	180.0	0.0	180.0		
C	500.0	1000.0	0.0	180.0	0.0	-180.0		

Robot Quick Control Speed 100%

Dr.Dart-Platform

Manual Auto Manual Standby

robot-param-01 b401407c Tool PM 06:00

Settings Task Editor

test_sanding

1 Global Variable

2 Main Sub Singularity Handling = Auto Avoidance

3

4

5

6 Sweep Sanding_ANG

7

8

9

10 End Main Sub

Select the path pattern (zigzag or spiral).

Choose the sanding path starting point

Reverse the starting direction

Traverse from end to start

Traverse a few additional segments

Area Sweep Command

Fill Mode

Zigzag Spiral

spacing 100 mm radius 30 mm

speed 100 mm/s acceleration 60 mm/s²

Start edge

3 C → D

Flip order Flip path Ensure full coverage

Orientation Custom plane

Edit plane points

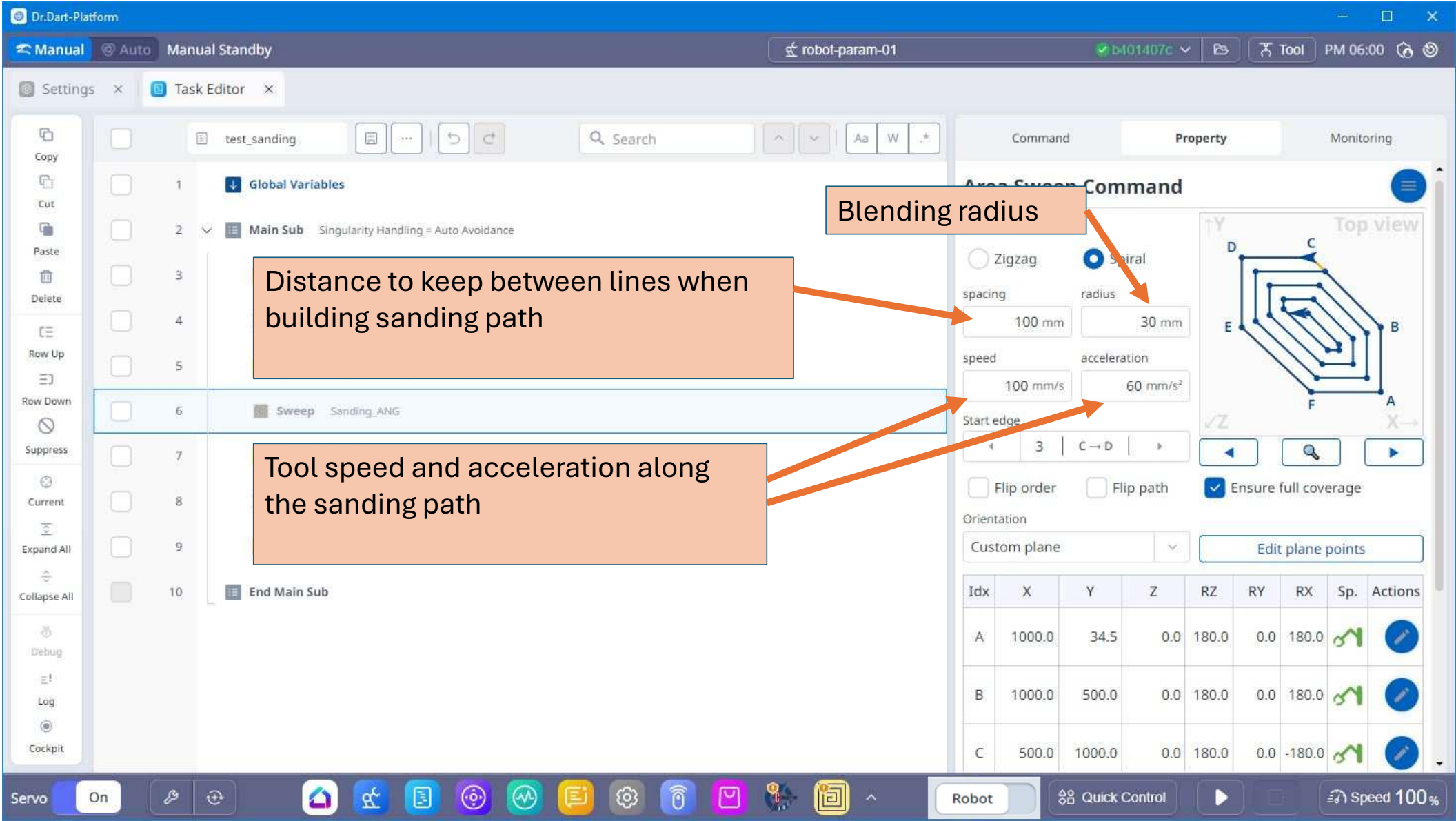
Top view

Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	1000.0	34.5	0.0	180.0	0.0	180.0		
B	1000.0	500.0	0.0	180.0	0.0	180.0		
C	500.0	1000.0	0.0	180.0	0.0	-180.0		

Servo On

Robot Quick Control

Speed 100%



Distance to keep between lines when building sanding path

Blending radius

Tool speed and acceleration along the sanding path

Area Sweep Command

Zigzag Spiral

spacing: 100 mm radius: 30 mm

speed: 100 mm/s acceleration: 60 mm/s²

Start edge: 3 | C → D

Flip order Flip path Ensure full coverage

Orientation: Custom plane

Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	1000.0	34.5	0.0	180.0	0.0	180.0		
B	1000.0	500.0	0.0	180.0	0.0	180.0		
C	500.0	1000.0	0.0	180.0	0.0	-180.0		

Dr.Dart-Platform

Manual Auto Manual Standby

robot-param-01 b401407c Tool PM 06:00

Settings Task Editor

Select the tool orientation:

Teaching – the tool maintains the orientation defined by the user at each polygon vertex, with interpolated orientation between the remaining points;

Plane – orientation perpendicular to a plane automatically determined from the largest triangle formed by the polygon vertices;

Axis – orientation aligned parallel to one of the axes (X / Y / Z) with direction (+ / -);

Custom plane – perpendicular to a plane defined by three additional user-specified points.

Area Sweep Command

Fill Mode

Zigzag Spiral

spacing: 100 mm radius: 30 mm

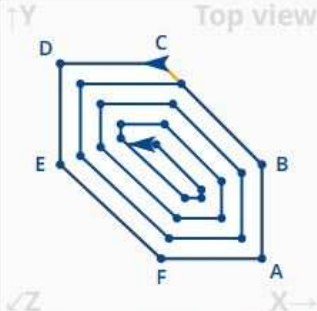
speed: 100 mm/s acceleration: 60 mm/s²

Start edge: 3 | C → D

Flip order Flip path Ensure full coverage

Orientation: Custom plane

Top view



Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	1000.0	34.5	0.0	180.0	0.0	180.0		
B	1000.0	500.0	0.0	180.0	0.0	180.0		
C	500.0	1000.0	0.0	180.0	0.0	-180.0		

Servo On

Robot Quick Control Speed 100%

Dr.Dart-Platform

Manual Auto Servo Off

robot-param-01 b401407c

Task Editor

test_sandi...

1 Global Variables

2 Main Sub Singularity Handling = Auto Avoidance

3

4

5

6 Sweep Sanding_ANG, area_sweep(path_points=[[354.003,580.312,0,180,0,153.434949],[334.315,600,0,180,0,153.434949],...])

7

8

9

10

Retrieve the robot's current position and insert it after this position

Swap this position with the previous position

Swap this position with the next position

Replace this position with the robot's current position

Open the position edit dialog

Delete the position

Press to open the position menu

Area Sweep Command

Fill Mode

speed 100 mm/s acceleration 60 mm/s²

Start edge 3 D → C

Flip order Flip path Ensure full coverage

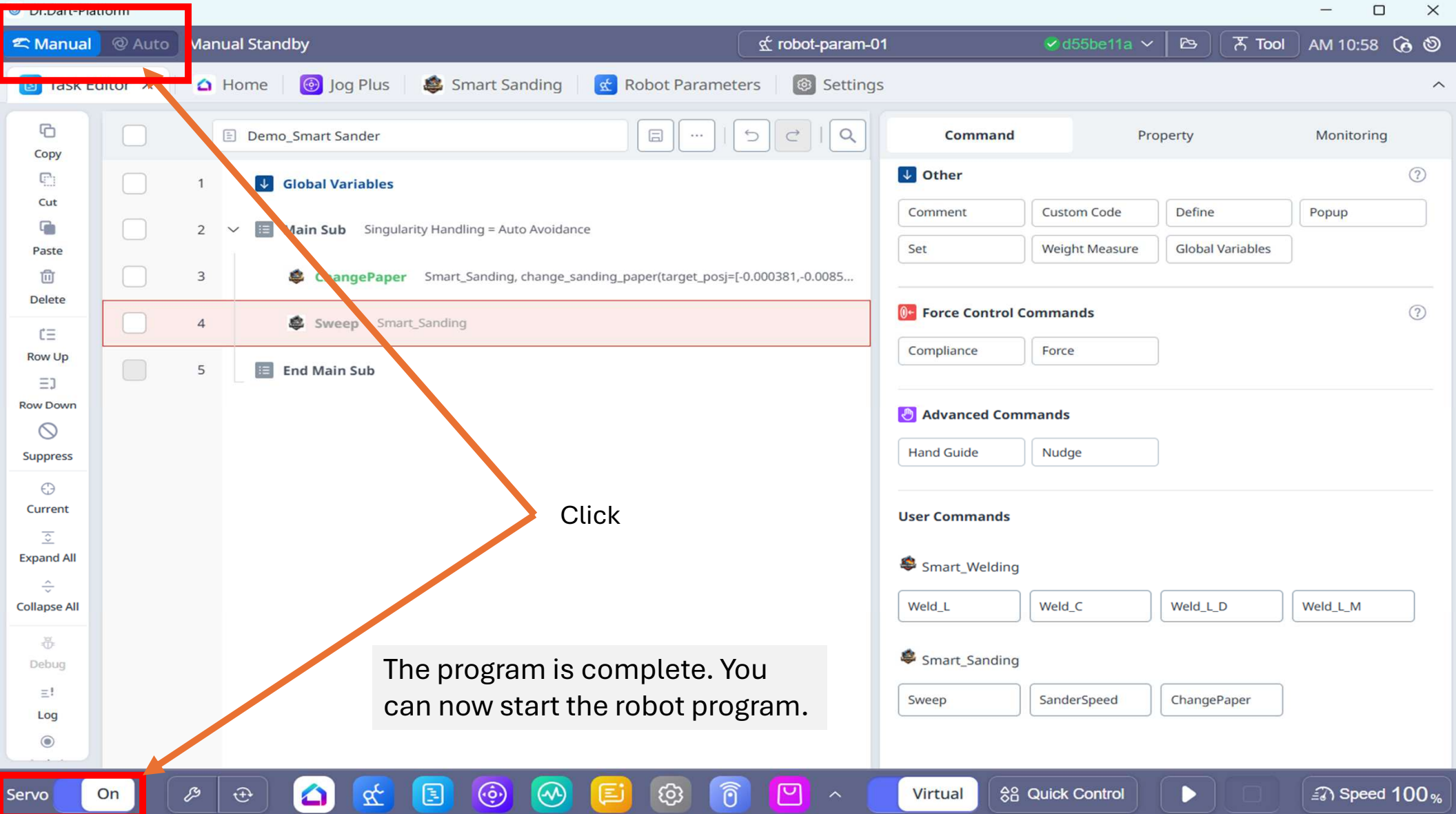
Orientation Custom plane Edit plane points

Idx	X	Y	Z	RZ	RY	RX	Sp.	Actions
A	1000.0	500.0	0.0	0.0	0.0	0.0	1.0	[edit]
B	1000.0	500.0	0.0	180.0	0.0	180.0		[edit]
	1000.0	0.0	0.0	180.0	0.0	-180.0		[edit]

Servo Off

Robot Quick Control

Speed 100%



Manual

Manual Standby

robot-param-01

d55be11a

Tool

AM 10:58

- Copy
- Cut
- Paste
- Delete
- Row Up
- Row Down
- Suppress
- Current
- Expand All
- Collapse All
- Debug
- Log

Command	Property	Monitoring
1	Global Variables	
2	Main Sub Singularity Handling = Auto Avoidance	
3	ChangePaper Smart_Sanding, change_sanding_paper(target_posj)=[-0.000381,-0.0085...	
4	Sweep Smart_Sanding	
5	End Main Sub	

Other

Comment Custom Code Define Popup

Set Weight Measure Global Variables

Force Control Commands

Compliance Force

Advanced Commands

Hand Guide Nudge

User Commands

Smart_Welding

Weld_L Weld_C Weld_L_D Weld_L_M

Smart_Sanding

Sweep SanderSpeed ChangePaper

Click

The program is complete. You can now start the robot program.

Servo On

Virtual

Quick Control

Speed 100%

Dr.Dart-Platform

Manual **Auto** Auto Standby robot-param-01 d55be11a Tool AM 11:13

Task Editor x Home Jog Plus Smart Sanding Robot Parameters Settings

Demo_Smart Sander

- 1 Global Variables
- 2 Main Sub Singularity Handling = Auto Avoidance
- 3 **ChangePaper** Smart_Sanding, change_sanding_paper(target_posj=[-0.000381,-0.0085...
- 4 Sweep Smart_Sanding, area_sweep(path_points=[[879.102,-35.621,-29.465,0.016705,17...
- 5 End Main Sub

3D Simulator

Command Property **Monitoring**

Time

Total Time	Total Count	Cycle Time
00:02:07.67	0 / 1	00:00:00.00

Tool

Tool Center Point Tool Weight

Click

Dr.Dart-Platform

Manual **Auto** Auto Standby robot-param-01 d55be11a Tool AM 11:11

Task Editor Home Jog Plus Smart Sanding Robot Parameters Settings

Demo_Smart Sander

- 1 Global Variables
- 2 Main Sub Singularity Handling = Auto Avoidance
- 3 **ChangePaper** Smart_Sanding, change_sanding_paper(target_posj=[-0.000381,-0.0085...
- 4 Sweep Smart_Sanding, area_sweep(path_points=[[879.102,-35.621,-29.465,0.016705,17...
- 5 End Main Sub

Message
Change sanding paper if needed, then confirm start.

OK Task Stop

Click

3D Simulator

Command Property Monitoring

Front Right Left Rear Top

Time

Total Time	Total Count	Cycle Time
00:00:08.00	0 / 1	00:00:00.00

Tool

Tool Center Point Tool Weight

Servo On Virtual Quick Control Speed 100%

Dr.Dart-Platform

Manual **Auto** Auto Standby robot-param-01 d55be11a Tool AM 11:14

Task Editor Home Jog Plus Smart Sanding Robot Parameters Settings

Demo_Smart Sander

- 1 Global Variables
- 2 Main Sub Singularity Handling = Auto Avoidance
- 3 **ChangePaper** Smart_Sanding, change_sanding_paper(target_posj=[-0.000381,-0.0085...
- 4 Sweep Smart_Sanding, area_sweep(path_points=[[879.102,-35.621,-29.465,0.016705,17...
- 5 End Main Sub

3D Simulator

Time

Total Time	Total Count	Cycle Time
00:00:06.57	0 / 1	00:00:00.00

Tool

Tool Center Point	Tool Weight
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Servo On Virtual Quick Control Speed 100%

Press the green button to start the robot sequence.

The table is active with the part. The green light confirms its presence. You can now press the green button to start the robot sequence.

Press the green button to start the robot sequence.

⚠ The green button can only be activated if the robot program in the *Task Editor* is completed and the robot is in automatic mode.

