



# TouchDrive Configuration Guide

v01

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## Patents

Patent numbers US 7,034,886; US 7,508,455; US 7,602,446; US 7,802,802 B2; US 7,834,886; US 7,914,332; US 8,307,284; US 8,407,374 B2; US 8,499,019 B2; US 8,519,949 B2; US 8,743,292 B2; US D752,530 S; GB 2,419,119 B; GB 2,447,380 B; and other patents pending.

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# TouchDrive

## Designed for Live!

TouchDrive builds on the Ross Video reputation for designing switcher control panels for live studios, trucks, and post-production. At the center of the action, it is important that the panel be powerful and versatile, yet maintain its ease of operation. This frees the operator to concentrate on the programming instead of the equipment, delivering a cleaner, more professional production.

TouchDrive improves on the highly popular Carbonite Black series of control panels by bringing integrated touchscreens, Linux® OS, and DashBoard control interface.

## Designed for Linear!

The TouchDrive family of control panels continue to build on Ross® Video's reputation for setting the standard for multi-definition linear editing suites. The traditional layout and familiar controls of other Ross® control panels provide the power and ease of use you have come to expect.

## Designed for You!

With Ross® Video products installed in well over 125 countries world-wide, our sales, demonstration, and training people get a lot of ongoing feedback from customers. This feedback is carefully tracked and considered in the design and feature-set development of our products. Key members of the design teams are part of an ongoing program in which they provide product demonstrations, assist with product installation, and train operators. As a result, the complete line of Ross Video products continues to offer our legendary combination of power and ease of use.

## Experience Great Support!

Ross® has designed and manufactured production switchers for over 45 years, with significant year over year growth for the past 29 years. We believe that an important factor of our success is our focus on providing a superior customer experience. We continually benchmark our warranty and technical support to ensure that they are the best in the industry.

We hope that you join the many thousands of satisfied video professionals around the world that are proud owners of Ross® production switchers. Please do not hesitate to contact us with any questions or comments you have related to this Configuration Guide at Tel: +1-613-652-4886, Fax: +1-613-652-4425 or email us at [solutions@rossvideo.com](mailto:solutions@rossvideo.com).

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## Product Comparison

Use the following table to compare the different control panels in the product line.

### TouchDrive Control Panels

|   | TD1C                     | TD1 | TD2 | TD2S | TD3S |
|---|--------------------------|-----|-----|------|------|
| <b>Control Panel</b>                                |                          |     |     |      |      |
| Panel Source Buttons per Row                        | 15                       | 15  | 15  | 25   | 25   |
| Number of User Assignable Buttons per Row           | 15                       | 15  | 25  | 25   | 25   |
| Number of Control Panel Rows                        | 1                        | 1   | 2   | 2    | 3    |
| DashBoard Interface                                 | Yes                      |     |     |      |      |
| Touchscreen Monitor                                 | Optional                 |     |     |      |      |
| Integrated Touchscreen Panel Displays               | Yes                      |     |     |      |      |
| Button Colors                                       | Full HSL                 |     |     |      |      |
| Mnemonic Colors                                     | 20 (background and text) |     |     |      |      |
| Source Mnemonic Icons                               | Yes                      |     |     |      |      |
| Legendary Ross Fader Handle with Lifetime Guarantee | Yes                      |     |     |      |      |
| Positioner  | Z Axis                   |     |     |      |      |
| In Row Memory Keypad                                | No                       | No  | No  | Yes  | Yes  |
| <b>Engineering and Networking</b>                   |                          |     |     |      |      |
| Redundant Power                                     | Yes (optional)           |     |     |      |      |
| Ethernet Connectivity                               | 1 × GigE                 |     |     |      |      |
| USB   | 4 × USB 2.0, 1 × USB 3.0 |     |     |      |      |

## Standard System

Whether you have a demanding production environment, or a more modest one, selecting the TouchDrive control panel that is right for you should not be a complicated task.

### TouchDrive Control Panel

Select the control panel that meets the needs of your production environment.

| Option     | Description   |
|------------|---|
| TD1C-PANEL | A compact rack-mountable panel with 15 source buttons, 15 user select buttons (plus 3 in the transition area), independent keyer and transitions areas, updated 3-knob menu interface, and an advanced z-axis positioner. |
| TD1-PANEL  | The same features as the TD1C panel but in a standard panel row design.   |
| TD2-PANEL  | The same features as the TD1 panel, but with 2 panel rows.  |
| TD2S-PANEL | The same features as the TD2 panel, but with 25 source buttons, 25 user select buttons (plus 3 in the transition area), and an Acuity® style memory area with keypad and rate buttons.                                    |
| TD3S-PANEL | The same features as the TD2S panel, but with 3 panel rows.   |

**Note:** The TouchDrive control panels do not come with a power supplies. You must pick either a standard brick power supply (CUF-PSU), or a rack power option (CUF-RACKPWR) to provide power for the control panel.

### TouchScreen Display (TD-TOUCHSCREEN)

A 15.6-inch touchscreen monitor that connects directly to the TouchDrive control panel for power, DashBoard interface, and touch-control.

**Note:** A separate VESA®-100 (VESA® MIS-D, 100, C) mounting arm is required for the display.

### Power Supplies

**Note:** The TouchDrive control panel does not come with a power supply. You must pick either a standard brick power supply (CUF-PSU), or a rack power option (CUF-RACKPWR) to provide power for the control panel.

The redundant power supply options provides protection against AC power failure. It allows

two external power supplies to receive power from independent power sources. Complete failure of one source, or power supply, will not affect standard operations. If the main AC power fails, power is drawn from the remaining source. The transition from one power source to the other is totally transparent and has no effect on operations; a critical feature should one power source fail during an on-air broadcast.

**Tip:** You can order a second CUF-PSU option to provide redundant power for the control panel.

| Option      | Description  |
|-------------|--|
| CUF-PSU     | Adds a brick power supply for the control panel.             |
| CUF-RACKPWR | Adds the Ultripower rack power supply for the control panel. |

### Extended Warranty

This extends the standard one-year warranty on your control panel or frame by one year. Additional years can be purchased if required.

| Option            | Description   |
|-------------------|---|
| <b>Panels</b>     |   |
| TD1C-PANEL-HW     | Adds an additional year of warranty to the TD1C control panel.  |
| TD1-PANEL-HW      | Adds an additional year of warranty to the TD1 control panel.   |
| TD2-PANEL-HW      | Adds an additional year of warranty to the TD2 control panel.   |
| TD2S-PANEL-HW     | Adds an additional year of warranty to the TD2S control panel.  |
| TD3S-PANEL-HW     | Adds an additional year of warranty to the TD3S control panel.  |
| TD-TOUCHSCREEN-HW | Adds an additional year of warranty to the touchscreen display. |

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## Specifications

Switcher resources, video specifications, power rating, and port pinouts.

### Power Consumption — Panel

|               | TD1C                              | TD1                 | TD2                 | TD2S                 | TD3S               |
|---------------|-----------------------------------|---------------------|---------------------|----------------------|--------------------|
| Power         | 50W<br>3.33A<br>15V               | 73W<br>4.87A<br>15V | 85W<br>5.67A<br>15V | 107W<br>7.13A<br>15V | 165W<br>11A<br>15V |
| Input Voltage | 100 - 120V~, 220 - 240V~, 47-63Hz |                     |                     |                      |                    |

# Option Summary

Use the available options listed in the following tables for each control panel or frame.

## TouchDrive Control Panel Options

|                              | TD1C              | TD1          | TD2          | TD2S          | TD3S          |
|------------------------------|-------------------|--------------|--------------|---------------|---------------|
| Control Panels               |                   |              |              |               |               |
| Panel                        | TD1C-PANEL        | TD1-PANEL    | TD2-PANEL    | TD2S-PANEL    | TD3S-PANEL    |
| Brick Power Supply           | CUF-PSU           |              |              |               |               |
| Ultrapower Rack Power Supply | CUF-RACKPWR       |              |              |               |               |
| Extended Warranty, Panel     | TD1C-PANEL-HW     | TD1-PANEL-HW | TD2-PANEL-HW | TD2S-PANEL-HW | TD3S-PANEL-HW |
| TouchScreen Display          |                   |              |              |               |               |
| Display                      | TD-TOUCHSCREEN    |              |              |               |               |
| Extended Warranty, Display   | TD-TOUCHSCREEN-HW |              |              |               |               |



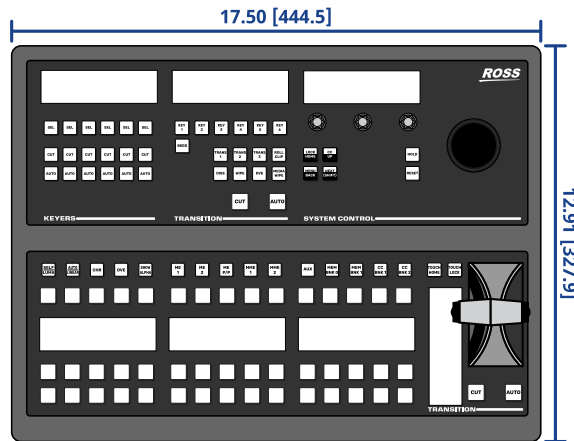
## Panel Dimensions



**Important:** These dimensions are provided as a guide only. Scale DXF/CAD drawings of the control panels are available from the Ross Video website.

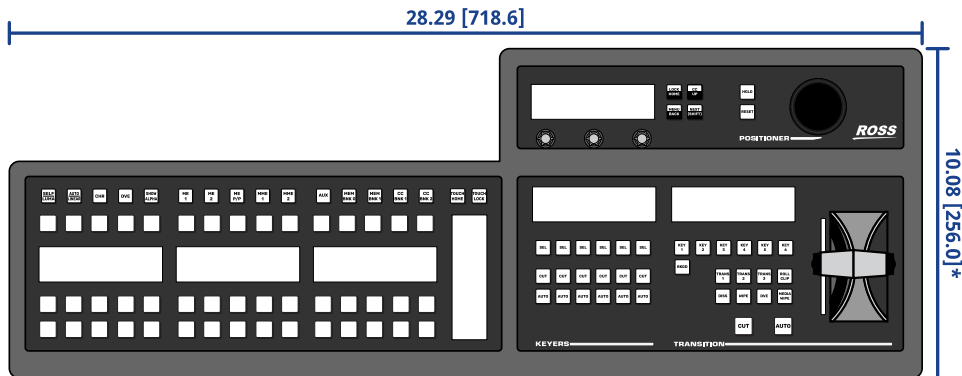
Dimensions are in inches with metric dimensions shown in brackets [mm].

### TD1C



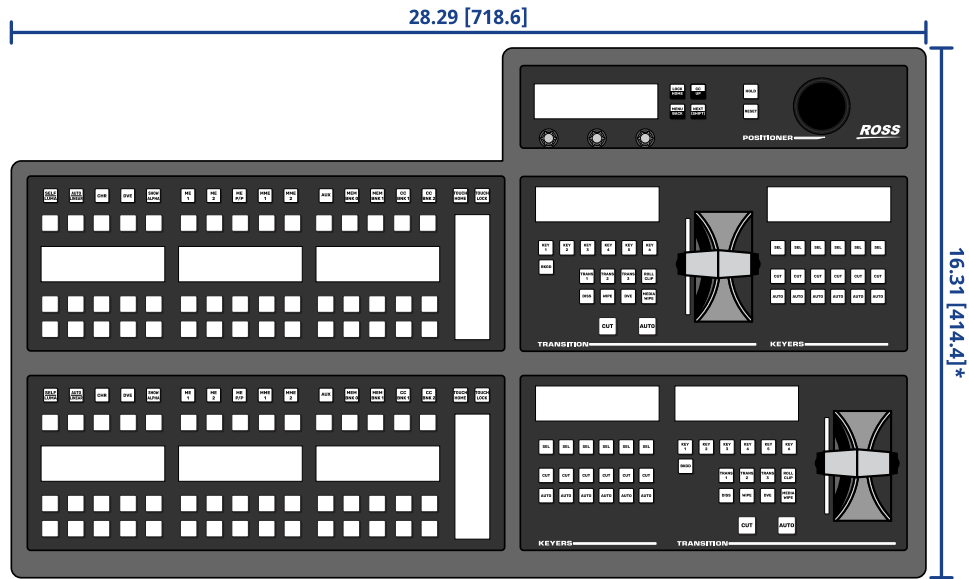
### TD1

**Note:** \* Because the TouchDrive control panel is curved, the depth measurement is only approximate.



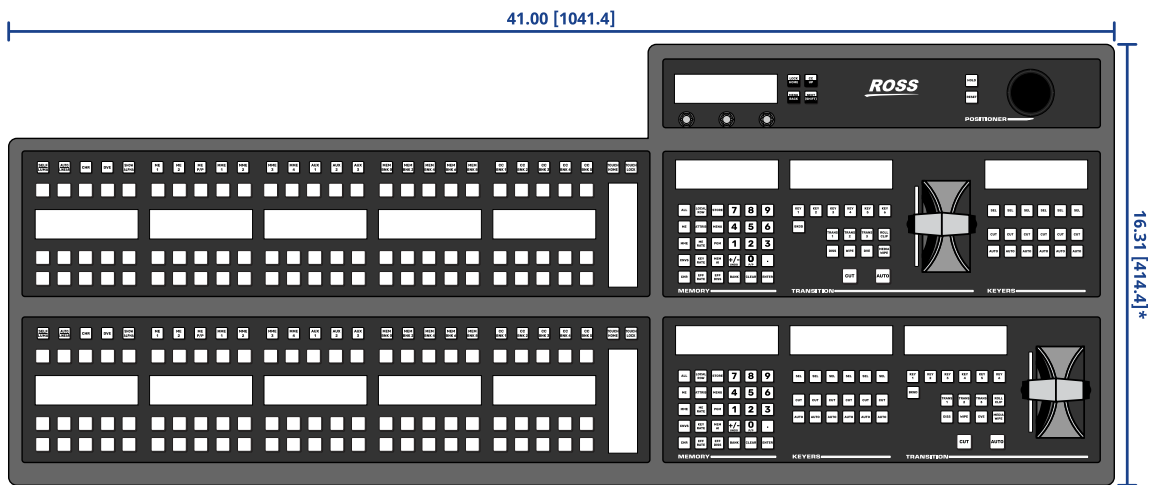
### TD2

**Note:** \* Because the TouchDrive control panel is curved, the depth measurement is only approximate.



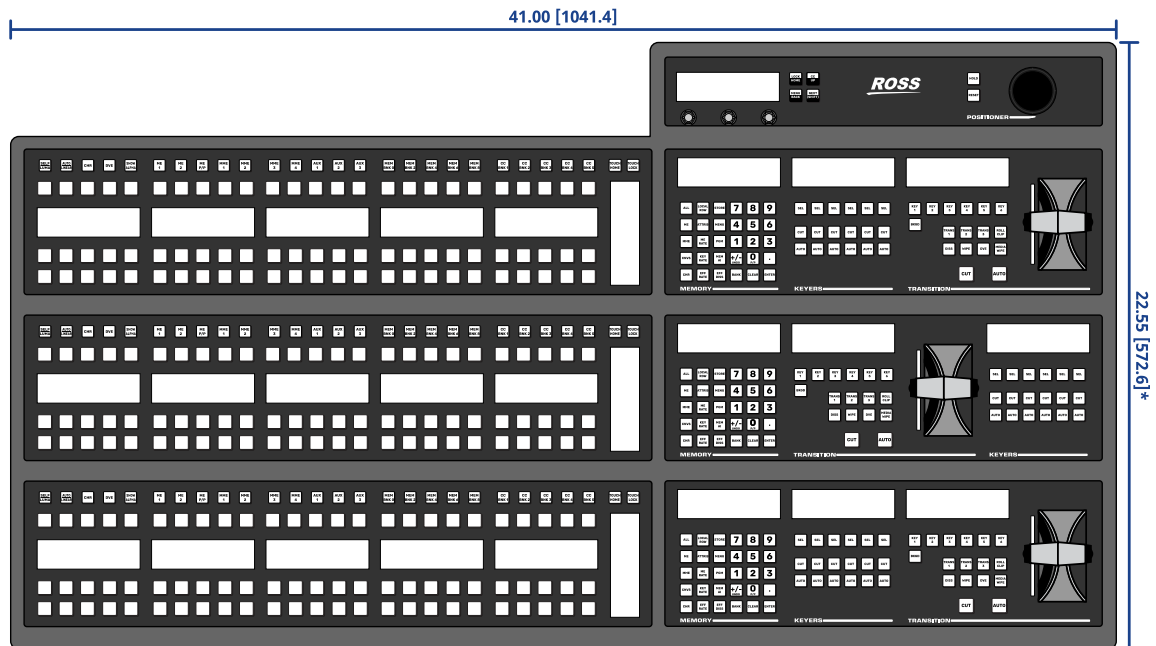
## TD2S

**Note:** \* Because the TouchDrive control panel is curved, the depth measurement is only approximate.



## TD3S

**Note:** \* Because the TouchDrive control panel is curved, the depth measurement is only approximate.



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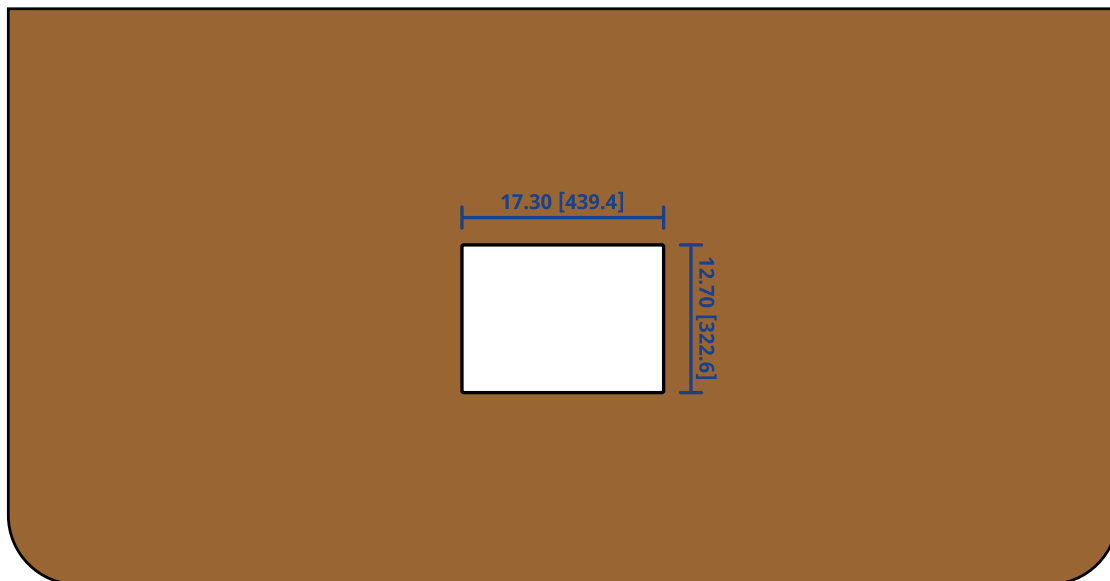
## TouchDrive Desk Cutouts



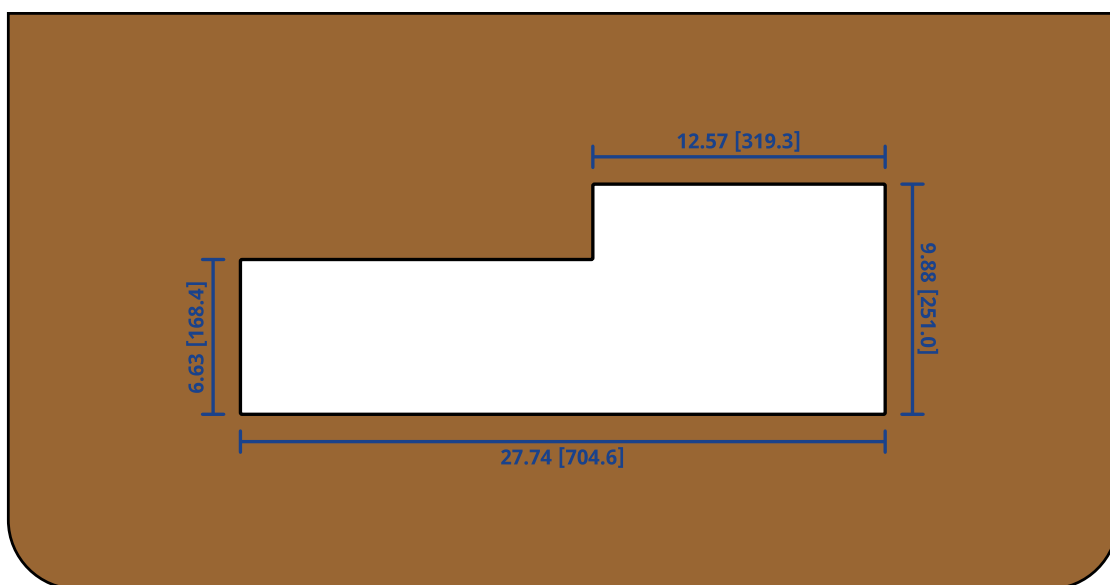
**Important:** These dimensions are provided as a guide only. Scale DXF/CAD drawings of the control panels are available from the Ross Video website that should be used as a template for a desk cutout.

Dimensions are in inches with metric dimensions shown in brackets [mm].

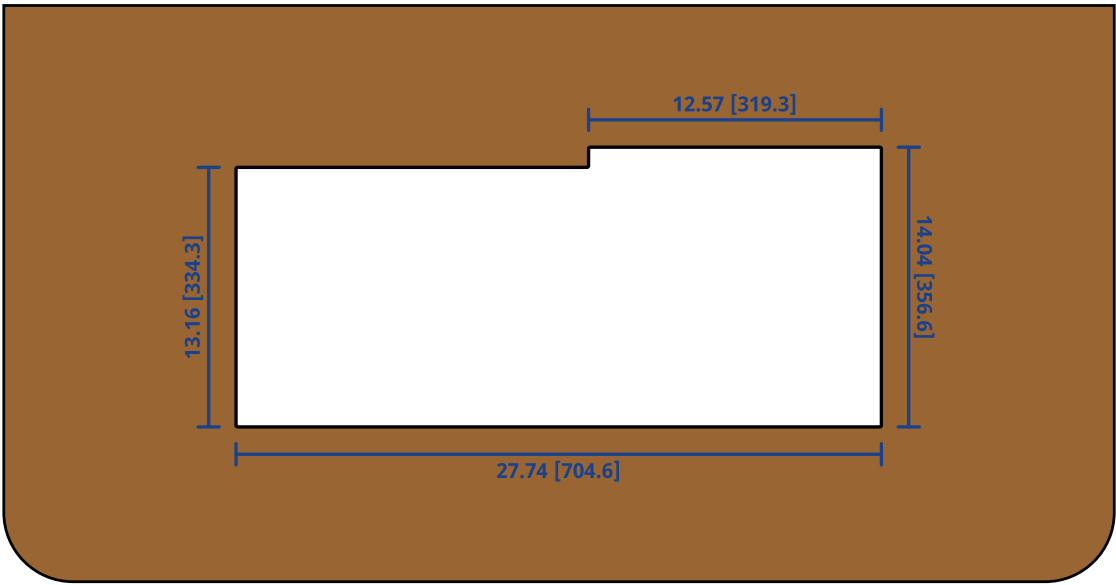
### TD1C



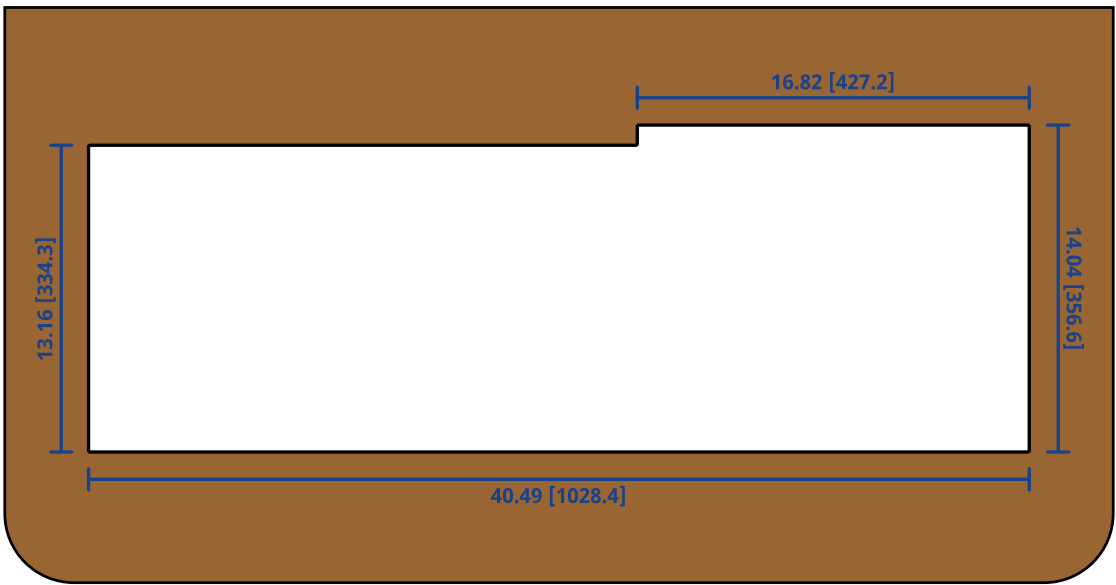
### TD1



TD2



TD2S



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## TD3S

