


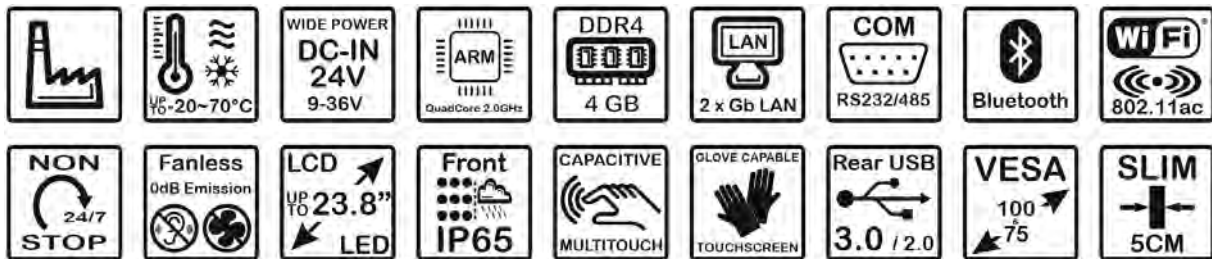
# DRAKE ARM RK3568



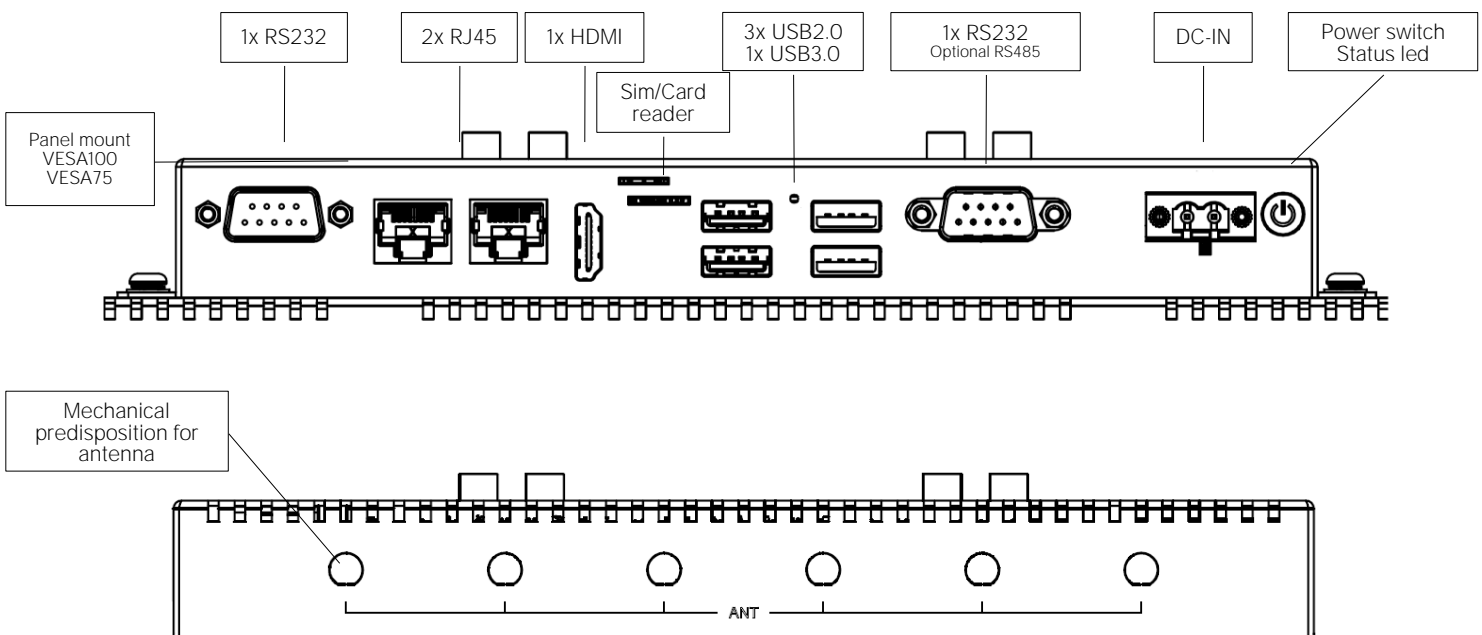
**CE** **FC** **RoHS**

### Main features

- Chassis designed for industrial environments
- Sizes available : from 10.1" to 23.8"
- Capacitive touchscreen
- ARM Rockchip RK3568
- On-board : 32GB eMMC, SDRAM LPDDR4X-3200MHz 4GB
- Front with IP65 degree of protection
- Power supply 24V DC w/ wide range input
- RS232/485 / Gigabit ethernet controller / USB 2.0/3.0
- Panel mount, VESA100 & VESA 75
- Fanless cooling system
- No acoustic impact, OdBA emissions



## I/O interface Features



## Display and touchscreen features

|  |  |                              |              |
|--|--|------------------------------|--------------|
| <b>10.1"</b><br>1280 x 800<br>WXGA     | Panel type                             | a-Si TFT LCD                 |              |
|  | Size / Aspect Ratio                    | 10.1" / 16:10                |              |
|  | Pixel HxV                              | 1280 x 800 (WXGA)            |              |
|  | Display area                           | 216.96 x 135.6               |              |
|  | Brightness                             | 350 cd/m <sup>2</sup>        |              |
|  | Viewing angle                          | Horizontal - Vertical : 170° |              |
|  | Lifetime                               | 30.000hrs                    |              |
|  | <b>10.4"</b><br>1024 x 768<br>XGA      | Panel type                   | a-Si TFT LCD |
| Size / Aspect Ratio                    |  | 10.4" / 4:3                  |              |
| Pixel HxV                              |  | 1024 x 768 (XGA)             |              |
| Display area                           |  | 211.2 x 158.4                |              |
| Brightness                             |  | 350 cd/m <sup>2</sup>        |              |
| Viewing angle                          |  | Horizontal - Vertical : 150° |              |
| Lifetime                               |  | 30.000hrs                    |              |
| <b>12.1"</b><br>1024 x 768<br>XGA      |  | Panel type                   | a-Si TFT LCD |
|  | Size / Aspect Ratio                    | 12.1" / 4:3                  |              |
|  | Pixel HxV                              | 1024 x 768 (XGA)             |              |
|  | Display area                           | 245.76 x 184.32              |              |
|  | Brightness                             | 350 cd/m <sup>2</sup>        |              |
|  | Viewing angle                          | Horizontal - Vertical : 160° |              |
|  | Lifetime                               | 50.000hrs                    |              |
|  | <b>15.0"</b><br>1024 x 768<br>XGA      | Panel type                   | a-Si TFT LCD |
| Size / Aspect Ratio                    |  | 15.0" / 4:3                  |              |
| Pixel HxV                              |  | 1024 x 768 (XGA)             |              |
| Display area                           |  | 304.128 x 228.096            |              |
| Brightness                             |  | 350 cd/m <sup>2</sup>        |              |
| Viewing angle                          |  | Horizontal - Vertical : 160° |              |
| Lifetime                               |  | 50.000hrs                    |              |
| <b>15.6"</b><br>1366 x 768<br>WXGA     |  | Panel type                   | a-Si TFT LCD |
|  | Size / Aspect Ratio                    | 15.6" / 16:9                 |              |
|  | Pixel HxV                              | 1366 x 768 (WXGA)            |              |
|  | Display area                           | 344.23 x 193.54              |              |
|  | Brightness                             | 500 cd/m <sup>2</sup>        |              |
|  | Viewing angle                          | Horizontal - Vertical : 160° |              |
|  | Lifetime                               | 50.000hrs                    |              |
|  | <b>15.6"</b><br>1920 x 1080<br>FULL HD | Panel type                   | a-Si TFT LCD |
| Pixel HxV                              |  | 1920 x 1080 (Full HD)        |              |
| Display area                           |  | 344.16 x 193.59              |              |
| Brightness                             |  | 450 cd/m <sup>2</sup>        |              |
| Viewing angle                          |  | Horizontal - Vertical : 170° |              |
| Lifetime                               |  | 50.000hrs                    |              |
| <b>17.0"</b><br>1280 x 1024<br>SXGA    |  | Panel type                   | a-Si TFT LCD |
|  |  | Size / Aspect Ratio          | 17.0" / 5:4  |
|  | Pixel HxV                              | 1280 x 1024 (SXGA)           |              |
|  | Display area                           | 337.92 x 270.34              |              |
|  | Brightness                             | 250 cd/m <sup>2</sup>        |              |
|  | Viewing angle                          | Horizontal - Vertical : 170° |              |
|  | Lifetime                               | 30.000hrs                    |              |
|  | <b>18.5"</b><br>1366 x 768<br>WXGA     | Panel type                   | a-Si TFT LCD |
| Size / Aspect Ratio                    |  | 18.5" / 16:9                 |              |
| Pixel HxV                              |  | 1366 x 768 (WXGA)            |              |
| Display area                           |  | 409.8 x 230.4                |              |
| Brightness                             |  | 250 cd/m <sup>2</sup>        |              |
| Viewing angle                          |  | Horizontal - Vertical : 170° |              |
| Lifetime                               |  | 50.000hrs                    |              |
| <b>18.5"</b><br>1980 x 1024<br>FULL HD |  | Panel type                   | a-Si TFT LCD |
|  | Size / Aspect Ratio                    | 18.5" / 16:9                 |              |
|  | Pixel HxV                              | 1980 x 1024 (Full HD)        |              |
|  | Display area                           | 409.8 x 230.4                |              |
|  | Brightness                             | 350 cd/m <sup>2</sup>        |              |
|  | Viewing angle                          | Horizontal - Vertical : 170° |              |
|  | Lifetime                               | 50.000hrs                    |              |



## Display and touchscreen features

|  |                     |  |
|--|---------------------|--|
| <b>19.0"</b><br>1280 x 1024<br>SXGA    | Panel type          | a-Si TFT LCD                               |
|  | Size / Aspect Ratio | 19.0" / 5:4                                |
|  | Pixel HxV           | 1280 x 1024 (SXGA)                         |
|  | Display area        | 376.32 x 310.06                            |
|  | Brightness          | 250 cd/m <sup>2</sup>                      |
|  | Viewing angle       | Horizontal - Vertical : 178°               |
|  | Lifetime            | 30.000hrs                                  |
| <b>21.5"</b><br>1920 x 1080<br>Full HD | Panel type          | a-Si TFT LCD                               |
|  | Size / Aspect Ratio | 21.5" / 16:9                               |
|  | Pixel HxV           | 1920 x 1080 (Full HD)                      |
|  | Display area        | 476.64 x 268.11                            |
|  | Brightness          | 250 cd/m <sup>2</sup>                      |
|  | Viewing angle       | Horizontal - Vertical : 178°               |
|  | Lifetime            | 30.000hrs                                  |
| <b>23.8"</b><br>1920 x 1080<br>Full HD | Panel type          | a-Si TFT LCD                               |
|  | Size / Aspect Ratio | 23.8" / 16:9                               |
|  | Pixel HxV           | 1980 x 1024 (Full HD)                      |
|  | Display area        | 527.04 x 296.46                            |
|  | Brightness          | 250 cd/m <sup>2</sup>                      |
|  | Viewing angle       | Horizontal - Vertical : 178°               |
|  | Lifetime            | 30.000hrs                                  |
| <b>23.8"</b><br>1920 x 1080<br>Full HD | Panel type          | a-Si TFT LCD                               |
|  | Size / Aspect Ratio | 23.8" / 16:9                               |
|  | Pixel HxV           | 1980 x 1024 (Full HD)                      |
|  | Display area        | 527.04 x 296.46                            |
|  | Brightness          | 250 cd/m <sup>2</sup>                      |
|  | Viewing angle       | Horizontal - Vertical : 178°               |
|  | Lifetime            | 30.000hrs                                  |
| PCAP<br>Touchscreen                    | Type                | Capacitive                                 |
|  | Touch point         | Multi points touch, max. up to 10 points   |
|  | Interface           | USB  |
|  | Durability          | 100 000 000 times                          |
|  | Surface hardness    | Mohs 6H                                    |
|  | Special treatment   | Anti-fingerprint (AF)                      |
|  | Gloves capable      | Yes (only with capacitive suitable gloves) |



## Technical Features

|                        |                                 |  |  |
|------------------------|---------------------------------|--|--|
| System                 | Processor                       | ARM Rockchip RK3568<br>4 Cores Cortex-A55, up to 2.0Ghz  |  |
|                        | Expansion slots                 | 1 x Mini-PCIe slot (for 4G/3G)<br>1 x M.2 NGFF B-key 3052 slot (for 5G)<br>1 x Sim             |  |
|                        | Note                            | The processor is integrated and not replaceable after the order.                               |  |
| Memory                 | Type                            | 4GB SDRAM LPDDR4X-3200Mhz on board   |  |
|                        | Note                            | The memory type is integrated and not replaceable after the order.                             |  |
| Back I/O interfaces    | Serial                          | 2 x RS232 (optional, upon request : 1 x RS485, 1x RS232)                                       |  |
|                        | USB                             | 1 x USB3.0/OTG<br>3 x USB2.0   |  |
|                        | LAN                             | 2 x RJ45   |  |
|                        | Video                           | 1 x HDMI   |  |
|                        | GPI/O                           | Optional upon request  |  |
|                        | WIFI                            | 6 x Mechanical predisposition  |  |
|                        | DC-IN                           | 1 x Phoenix terminal 2P (5.08, Block with lock)  |  |
|                        | Power switch                    | 1 x Power Switch   |  |
|                        | Remote switch                   | N/A  |  |
|                        | Recovery switch                 | 1x Recovery Button   |  |
|                        | Status Led                      | 1 x Status Led (w/ Power switch)   |  |
|                        | Ground Connector                | 1 x M4   |  |
|                        | Storage                         | Controller   | 1x eMMC 5.1, 32GB (option: 16GB/64GB)<br>1x TF Card slot   |
| Note                   |                                 | The storage is integrated and not replaceable after the order.                                 |  |
| Graphics subsystem     | Max resolution                  | HDMI : up to 4096x2304@60Hz  |  |
|                        | Multi-display                   | Max to 2 contemporary active displays<br>(1x Internal & 1x external)                           |  |
| Network subsystem      | Integrated LAN adapter          | 2 x Realtek GbE (10/100/1000)  |  |
|                        | WIFI & BT                       | Realtek Wireless 2.4/5Ghz integrated on-board, w/ antenna                                      |  |
| Management             | Wake On Events                  | AC power failure recovery  |  |
| Power supply           | Input voltage                   | Standard: 24V DC<br>(supported range: From 9V DC to 36V DC)                                    |  |
|                        | Power consumption (estimated)   | 20W (size 10.1", 10.4", 12.1")   |  |
|                        |                                 | 25W (size 15.0", 15.6", 17.0", 18.5", 19.0")<br>30W (size 21.5", 23.8")                        |  |
| Software compatibility | Supported operating system      | Standard : Linux<br>Optional : Android 11  |  |
| Mechanical Features    | Fixing method                   | Panel, VESA100, VESA75   |  |
|                        | Dimensions                      | See next pages   |  |
|                        |                                 | Weight   | 10.1" : 2.9 kg<br>10.4" : 3.0 kg<br>12.1" : 3.4 kg<br>15.0" : 3.8 kg<br>15.6" : 4.2 kg<br>17.0" : 4.6 kg<br>18.5" : 5.5 kg<br>19.0" : 6.1 kg<br>21.5" : 6.9 kg<br>23.8" : 7.6 kg |
|                        |                                 | Color  | Back : black   |
|                        |                                 | Chassis material   | Magnesium-Aluminum alloy, sand blasting, anodized treatment  |
| Environment            | Operating temp.                 | From -20°C to +70°C (size : 10.1", 10.4", 12.1", 15.6" Full HD)                                |  |
|                        |                                 | From -20°C to +60°C (size : 15.0", 18.5 Full HD)   |  |
|                        |                                 | From -10°C to +60°C (size : 15.6" WXGA)  |  |
|                        | Non op. temp.                   | From 0°C to +60°C (size : 21.5", 23.8")  |  |
|                        |                                 | From 0°C to +50°C (size : 17.0", 18.5" WXGA, 19.0")  |  |
|                        |                                 | From -20°C to +80°C (size : 10.1", 10.4", 12.1", 21.5")  |  |
|                        |                                 | From -20°C to +60°C (size : 15.0", 17.0", 18.5" WXGA, 19.0")                                   |  |
|                        | RH                              | From -20°C to +70°C (size : 15.6" WXGA, 23.8")   |  |
|                        |                                 | From -30°C to +70°C (size : 18.5" Full HD)   |  |
|                        |                                 | From -30°C to +80°C (size : 15.6" Full HD)   |  |
| Suitable for           | Indoor use only                 |  |  |
| IP Grade               | Front : IP65<br>Back : IP20     |  |  |
| Cooling System         | Fanless                         |  |  |
| Acoustic emissions     | 0dB                             |  |  |
| Product approvals      | Reference marks                 | CE, FCC, RoHS  |  |
|                        | Directives, rules & regulations | Built according to European Directive 2014/53/EU (RED) and 2011/65/EU & 2015/863/EU (RoHS III) |  |

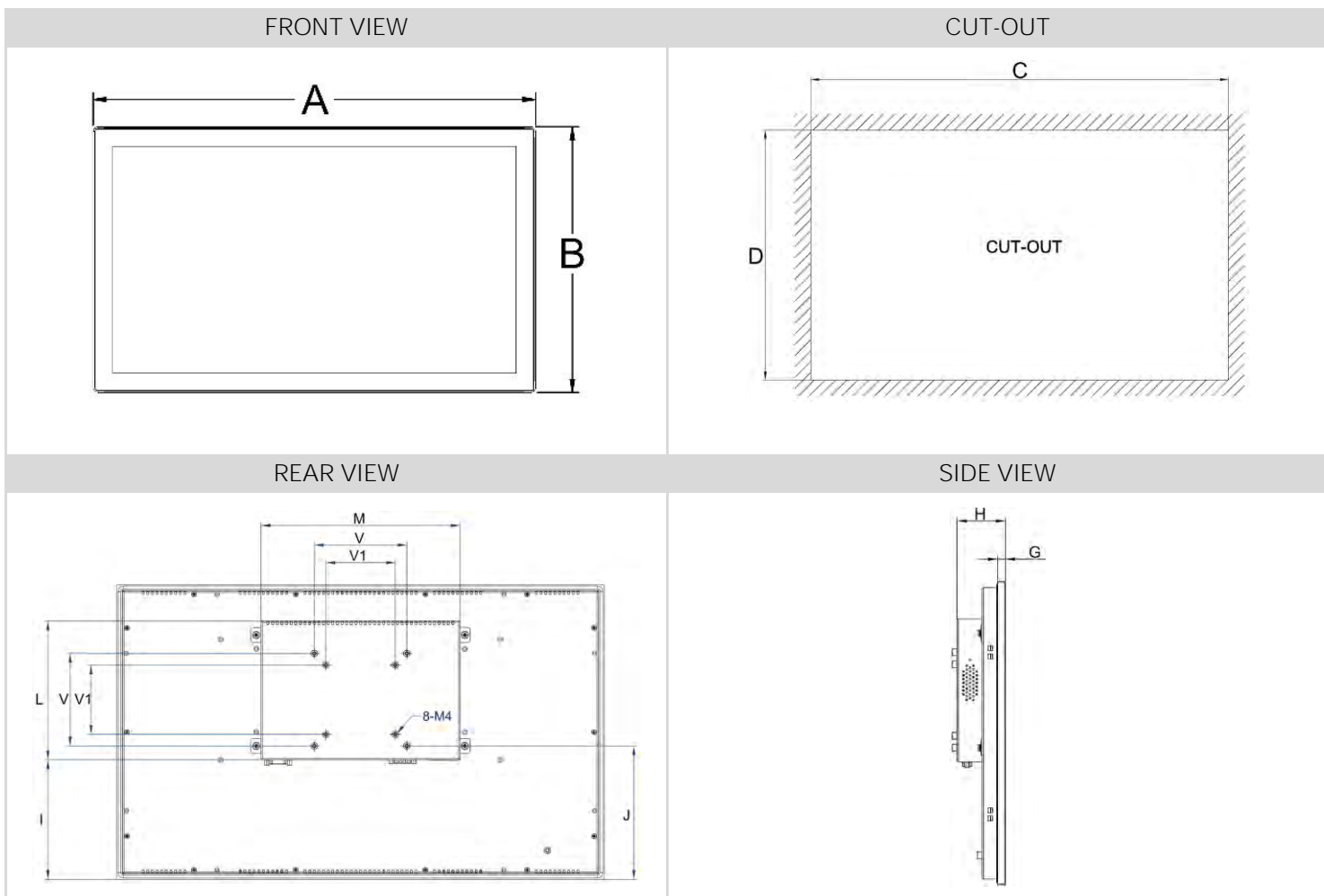
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## Ordering code & optional kit

| Ordering code     |  |
|-------------------|--|
| CN021-AU01-SN-001 | Web Panel Drake ARM, 10.1", 1280x800, WXGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V     |
| TBD               | Web Panel Drake ARM, 10.4", 1024x768, XGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V      |
| CN021-AM01-SN-004 | Web Panel Drake ARM, 12.1", 1024x768, XGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V      |
| TBD               | Web Panel Drake ARM, 15.0", 1024x768, XGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V      |
| TBD               | Web Panel Drake ARM, 15.6", 1366x768, WXGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V     |
| TBD               | Web Panel Drake ARM, 15.6", 1920x1080, Full HD, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V |
| TBD               | Web Panel Drake ARM, 17.0", 1280x1024, SXGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V    |
| TBD               | Web Panel Drake ARM, 18.5", 1366x768, WXGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V     |
| TBD               | Web Panel Drake ARM, 18.5", 1920x1080, Full HD, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V |
| TBD               | Web Panel Drake ARM, 19.0", 1280x1024, SXGA, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V    |
| CN021-AS01-SN-001 | Web Panel Drake ARM, 21.5", 1920x1080, Full HD, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V |
| TBD               | Web Panel Drake ARM, 23.8", 1920x1080, Full HD, 4GB RAM, 32GB eMMC, WiFi+BT, 9-36V |

## Mechanical Features



| LCD Size/Res. | A     | B     | C     | D     | G     | H     | I     | J     | L     | M     | V   | V1 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----|
| <b>10.1"</b>  | 259.0 | 177.0 | 253.0 | 171.0 | 6.0   | 45.0  | 18.5  | 33.5  | 150.0 | 215.0 | 100 | 75 |
| <b>10.4"</b>  | 264.0 | 205.6 | 253.0 | 195.0 | 8.0   | 50.0  | 37.8  | 52.8  |       |       |     |    |
| <b>12.1"</b>  | 306.0 | 242.5 | 295.0 | 232.0 |       |       | 64.3  | 79.3  |       |       |     |    |
| <b>15.0"</b>  | 352.2 | 279.3 | 341.0 | 268.0 |       |       | 109.7 | 124.7 |       |       |     |    |
| <b>15.6"</b>  | 395.6 | 247.9 | 385.0 | 237.0 |       |       | 74.0  | 89.0  |       |       |     |    |
| <b>17.0"</b>  | 386.5 | 323.5 | 376.0 | 313.0 |       |       | 136.8 | 151.8 |       |       |     |    |
| <b>18.5"</b>  | 462.4 | 286.6 | 451.0 | 276.0 |       |       | 113.3 | 128.3 |       |       |     |    |
| <b>19.0"</b>  | 422.3 | 353.0 | 411.0 | 342.0 |       |       | 131.5 | 146.5 |       |       |     |    |
| <b>21.5"</b>  | 527.0 | 318.7 | 516.0 | 308.0 |       |       | 129.4 | 144.4 |       |       |     |    |
| <b>23.8"</b>  | 578.4 | 347.9 | 568.0 | 338.0 | 153.9 | 168.9 |       |       |       |       |     |    |

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All dimensions are expressed in millimeters (mm)

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