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ACCREDITED CALIBRATION COMPANY**

DALLAS FT WORTH AUSTIN HOUSTON

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NICOL SCALES & MEASUREMENT IS AN ISO ACCREDITED CALIBRATION COMPANY THAT HAS PROVIDED CALIBRATION, REPAIR AND SALES OF ALL TYPES OF WEIGHING AND MEASUREMENT PRODUCTS SINCE 1931.

CLS Series Class II Forklift Scale

RICE LAKE
WEIGHING SYSTEMS

As of: Tuesday, January 28, 2025



Standard Features

Scale Carriage

- 34 in (Class II), 5,000 × 5 lbs, NTEP Certified
- 1-1/2 in thick front and back painted steel plates coupled by four flexures
- Top cleats are welded, pinned and bolted
- Welded centering pin
- Two 5,000 lb S-beam load cells
- iQUBE²® junction box with inclinometer
- Molded coiled cable, up to 15 ft uncoiled

Approvals



**Measurement
Canada
Approved**

Options

- 28 in (Class II), 5,000 × 5 lb, NTEP Certified
- 18 to 72 VDC, CLS-680

Presale Requirements

- Provide completed forklift questionnaire for quotation
- Compatible with most Class II forklift attachments, consult factory

Installation Recommendations

- When installing a forklift scale on an electric forklift, static discharge protection must be present on the forklift and install a chassis mount power conditioner to protect scale electronics.
- When installing a forklift scale, OSHA requires the end user to de-rate the lift capacity of the forklift.



WARNING:
Cancer
and
Reproductive
Harm
California
Proposition
65

Lift Profits, Lower Logistics Expenses with CLS Forklift Scales

The CLS Series forklift scale mounts directly to most Class II forklifts, saving material handling processes time and money. The CLS forklift scale system can be paired with a device for weight display through a cable or cableless connection. The weight display can either be a Rice Lake Weighing Systems indicator designed for the CLS or virtually through a device that supports the VIRTUi3 software application. There is also an optional USB, Bluetooth, and Wi-Fi connection available for connection to peripheral equipment.

CLS Series Specifications

Warranty:

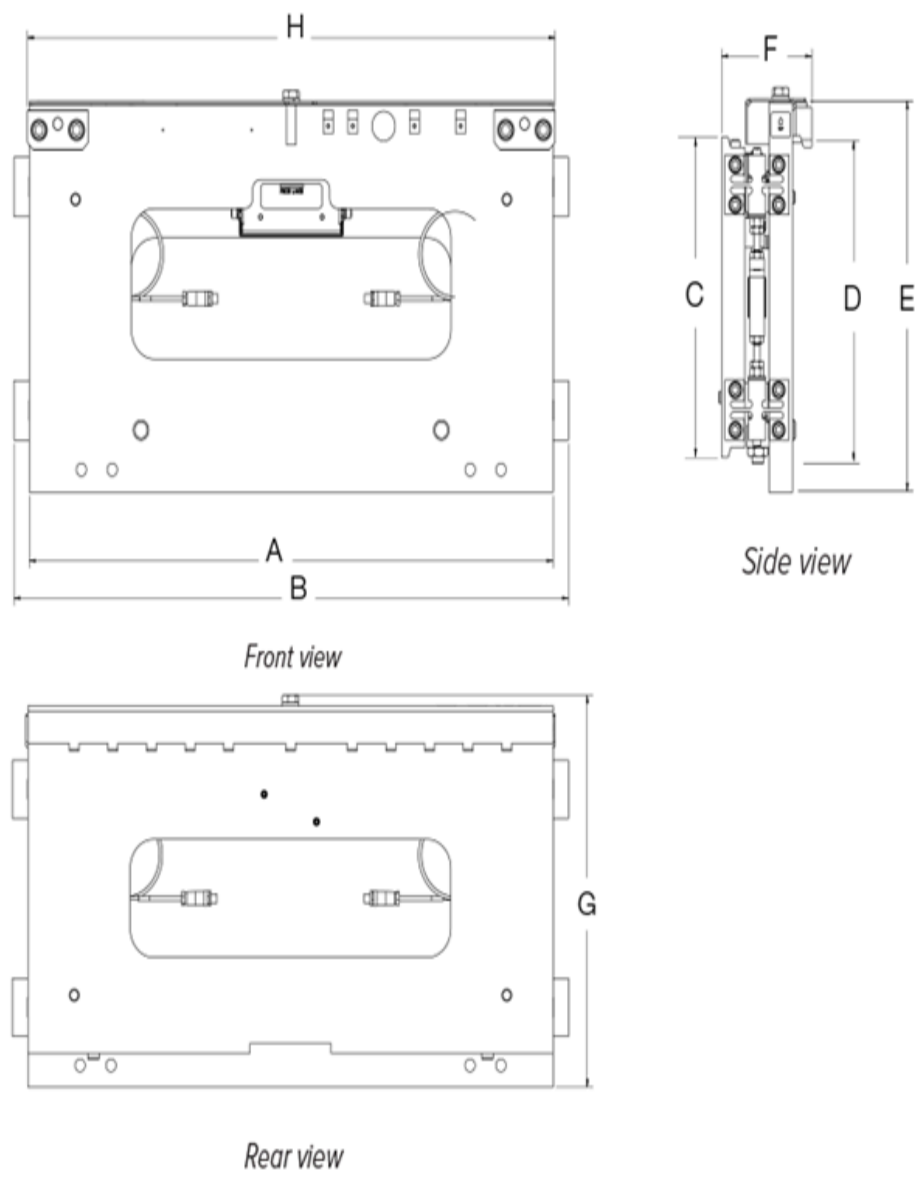
Two-year limited

Approvals:

NTEP 06-074

Measurement Canada AM-5893

CLS Series Dimensions



CLS Class II			
28 in, 5,000 lb			
A	28.00 in (711 mm)	E	19.50 in (495 mm)
B	30.00 in (762 mm)	F	4.49 in (114 mm)
C	16.00 in (406 mm)	G	21.80 in (554 mm)
D	16.29 in (414 mm)	H	28.24 in (717 mm)
34 in, 5,000 lb			
A	34.00 in (864 mm)	E	19.50 in (495 mm)

CLS Class II			
28 in, 5,000 lb			
B	36.00 in (914 mm)	F	4.49 in (114 mm)
C	16.00 in (406 mm)	G	21.80 in (556 mm)
D	16.29 in (413 mm)	H	34.24 in (870 mm)

CLS Series Options

CLS-680 Forklift Scale Display

The [CLS-680](#) was designed from the ground-up specifically for forklift applications. With a machined aluminum anodized enclosure, the CLS-680 is ideal for demanding, general-purpose forklift applications. Its compact size is attached with a RAM® mount for flexible positioning and minimal obstruction. Additional features include rounded corners, vibration protection and surge suppression.

- Six-digit, seven-segment LED display
- Battery backed time & date
- On/Off power switch
- 9 to 36 VDC or 18 to 72 VDC power supply
- Cabled or cableless
- RS-232 serial port
- Wi-Fi
- Bluetooth®

CLS-920i Forklift Scale Display

The [CLS-920i](#) incorporates the flexibility, intelligence and programmability of the 920i in a smaller enclosure with a DC power supply for use on forklifts. The standard program offers weight indication, configuration, calibration and diagnostics specific to the CLS. Customize it for your application with an optional user program.

- Painted mild steel enclosure
- Backlit graphical LCD display
- Battery backed time and date
- On/Off power switch
- 9 to 36 VDC power supply
- Cabled or cableless
- Two available RS-232 ports for added options
- Optional Wi-Fi
- Optional Bluetooth®

VIRTUi³ Forklift Scale Virtual Solution

Weight data is displayed on a device using [VIRTUi³](#) software, creating a virtual indicator. The CLS connects to your device using RS-232, USB or Bluetooth®. Choose between the CLS-M or CLS-IM configuration for static or in-motion use.

- Weight indication device (PC/tablet) is not included
- Consult factory to verify compatibility with your device
- Bluetooth® connection available
- USB connection available

CLS Series Display Options

Cableless

The cableless option removes the coiled communication/power cable between the scale and the indicator. A rechargeable battery is secured to the scale and it powers the scale and the paired wireless modules provide communication.

- 802.15 wireless interface
- Lithium-ion battery and charger
- On/Off power switch
- Battery life: 24 hours of constant use
- Battery recharge time: 8 hours to fully recharge
- Reinforced battery box welded to top cover

Wi-Fi

Wi-Fi is a standard feature for the CLS-680 and is available as a factory installed option for the CLS-920i.

- Wireless LAN card 802.11 B/G
- Range: Up to 328 ft indoors
- Operating frequency: ISM 2.4 GHz

Bluetooth®

Bluetooth® communication is a standard feature for the CLS-680 and is available as an external option for the 920i. It is also available in a communications/power box for the virtual solution.

CLS Classes and ID Plates

During the initial scale installation, remind the customer that they must have an updated ID plate on the forklift stating the new lifting capacity and center of gravity information. This is required per OSHA rules and regulations.

.	28 Inch	34 Inch	38 Inch
Vertical center of gravity (VCG) of scale =	8.06	8.06	10.15
Horizontal center of gravity (HCG) of scale =	2.09	2.09	2.83
Effective thickness (ET) of scale =	4.55	4.55	6.06
Weight of scale =	392	420	987

Parts

Part # Description

Class II, CLS-680, NTEP Certified

201300	Scale PKG,CLS-680 5000lb Capacity, Class II, 34", Wired, 9-36VDC, WiFi/Bluetooth, RAM Mount, Mode 600, 5000x5lb, NTEP
201302	Scale PKG,CLS-680 5000lb Capacity, Class II, 34", Cable-less, 9-36VDC, WiFi/Bluetooth, RAM Mount, Mode 600, 5000x5lb NTEP

Class II, CLS-920i, NTEP Certified

223214	Scale PKG,CLS-920, 5000lb Capacity, Class II, 34", Wired, 9-36VDC, Mode 102, 5000x5lb, NTEP approved
226201	Scale PKG,CLS-920, 5000lb Capacity, Class II, 34", Cable-less, 9-36VDC, Mode 102, w/2 Batteries and a charger, 5000x5lb, NTEP Approved

Class II, VIRTUi³ M Series, NTEP Certified

194714	Scale PKG, CLS-M Series, 5000 lb Capacity, Class II, 34", Wired, Virtui3, w/DB9 Adapter, Mode 102, 5,000x5 lb NTEP
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Class II, VIRTUi³ IM Series, NTEP Certified

191748	Scale PKG, CLS-IM Series, 5000 lb Capacity, Class II, 34", Wired, Virtui3, w/DB9 Adapter, Mode 200, 5000x5 lb NTEP
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Class II, CLS-680, Measurement Canada Approved

214091	Scale PKG, CLS-680, 5000lb Capacity, Class II, 34", Wired, 9-36VDC, WiFi/Bluetooth, RAM Mount, Mode 611, 4500x5lb MC
208269	Scale PKG,CLS-680 5000lb Capacity, Class II, 34", Cable-less, 9-36VDC, WiFi/Bluetooth, RAM Mount, Mode 610, 5000x10lb MC

Class II, CLS-920i, Measurement Canada Approval

215114	Scale PKG,CLS-920, 5000lb Capacity, Class II, 34", Wired, 9-36VDC, Mode 611, 4500x5lb, MC Approved
216947	Scale PKG,CLS-920, 5000lb Capacity, Class II, 34", Cable-less, 9-36VDC, Mode 611, w/2 Batteries and a charger, 4500x5lb, MC Approved

Options

Part #	Description
166161	Power Line Filter, CLS DC EMI Filter, 0-75 VDC input voltage, 100 Vdc surge.
167498	Cable,Extension 2 Meters 125395 Coiled Cable Extension, Straight, Molded Turk PN BSM BKM 5-084-2
120160	Weight, 1000lb Forklift Testing 22-1/2 x 46-1/4 Rectangle Steel Class 6
120162	Weight, 2000lb Forklift Testing 22-1/2 x 46-1/4 Rectangle Steel Class 6
164071	J-Box Assy,CLS Series Forklift Scale,iQube 2.3,34 Inch Scale Assy
Consult	28 in wide scale base for Class II carriage instead of 34 in Class II scale base
Consult	Cableless option, order upgrade that also includes two batteries and charger
Consult	Bluetooth Option for CLS-680
Consult	Bluetooth Option for CLS-920i
Consult	Bluetooth Option for VIRTUi CLS-M/IM
Consult	Wi-Fi option for CLS-680
Consult	Wi-Fi option for CLS-920i

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