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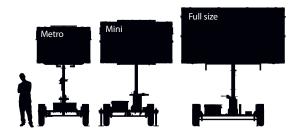
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## Variable Message Signs Full Matrix and Three-Line

Many sizes and configurations to choose from
Every sign has an onboard controller
Easiest programming in the industry
Low power consumption and more uptime
All signs are NTCIP-compliant

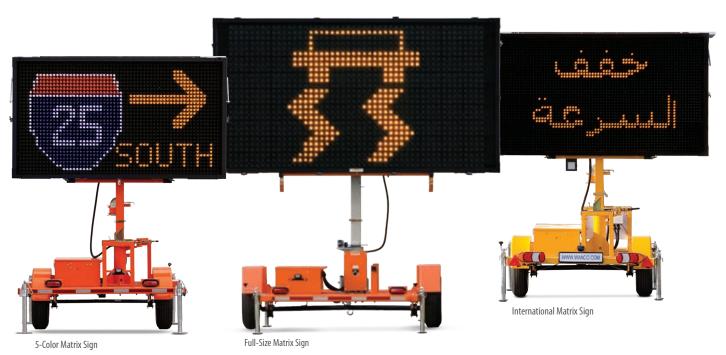






Wanco's full-color touchscreen controller provides access to all message sign functions. Widely known as the industry's easiest to use, features include capacitive response, multi-level password protection, large virtual buttons and easy message selection.

		Matrix signs		Three-line signs		Metro™ matrix signs		5-color sign*	5-color sign* Truck-mount signs	
		Full-size	Mini	Full-size	Mini	Large	Medium	Mini	Large	Medium
Deployed footprint	in. (cm)	186 × 126 (473 × 320)	143 × 96 (362 × 244)	186 × 126 (473 × 320)	143 × 96 (362 × 244)	55 × 96 (139 × 244)	55 × 71 (139 × 180)	143 × 104 (362 × 264)	$102 \times 25\frac{3}{4}$ (259 × 65)	$84\frac{3}{4} \times 25\frac{3}{4}$ (215 × 65)
Display cabinet size	in. (cm)	138 × 75 (351 × 190)	96 × 55 (244 × 140)	138 × 75 (351 × 190)	96 × 55 (244 × 140)	96 × 48 (244 × 122)	71 × 48 (180 × 122)	104 × 59 (264 × 150)	97 <sup>3</sup> / <sub>8</sub> × 48 <sup>3</sup> / <sub>4</sub> (247 × 124)	82 <sup>7</sup> / <sub>16</sub> × 48 <sup>3</sup> / <sub>4</sub> (209 × 124)
Operating height	in. (cm)	159 (404)	142 (361)	159 (404)	142 (361)	134 (340)	134 (340)	145 (367)	52 (132)	52 (132)
Travel height	in. (cm)	105 (265)	103 (262)	105 (265)	103 (262)	92 (232)	92 (232)	104 (264)	14½ (37)	14½ (37)
Weight, approx.	lbs. (kg)	2640 (1193)	1580 (717)	2640 (1193)	1580 (717)	1500 (680)	1400 (635)	1763 (800)	265 (120)	220 (100)
Display		48 × 27 pixels	48 × 27 pixels	3 lines of 8 characters	3 lines of 8 characters	60 × 30 pixels	48 × 30 pixels	60 × 32 pixels	56 × 28 pixels	48 × 28 pixels
Fonts		12	12	1	1	12	12	12	12	12
Power		Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar	Vehicle alternator	Vehicle alternator



3

## Wanco Cellular Service



Wanco can provide cellular service for wireless remote communication with your Wanco equipment.

Avoid complications and delays and let Wanco configure your modems, your communications and your cellular service for you, all in a single step with simple billing.

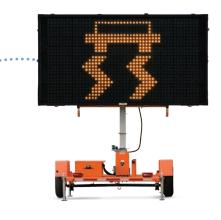
### Reliable cellular coverage and GPS service

Integration with ITS systems

No configuration hassles

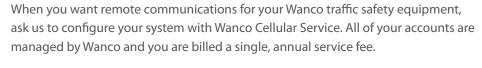
Equipment delivered ready to use

Easy annual billing









Wanco Cellular Service uses embedded cellular modems and a Verizon® Wireless private network to ensure the highest degree of network security. Because Verizon operates the nation's largest 4G LTE network, your wireless connections will always be strong and dependable.

## Wanco Fleet Manager

Wanco Fleet Manager provides the fleet tracking and management solution you need for all your Wanco Variable Message Signs. With this interactive online tool, you have everything you need for making necessary changes based on accurate, up-to-date information.

# Remote access through the cloud Accurate and real-time data Message management Mass-message broadcast Temperature and electrical-system graphs

Maximize the value of your traffic safety assets by remotely accessing your fleet of Wanco Message Signs. Remote access saves time, improves safety and reduces the need for training of off-site personnel.

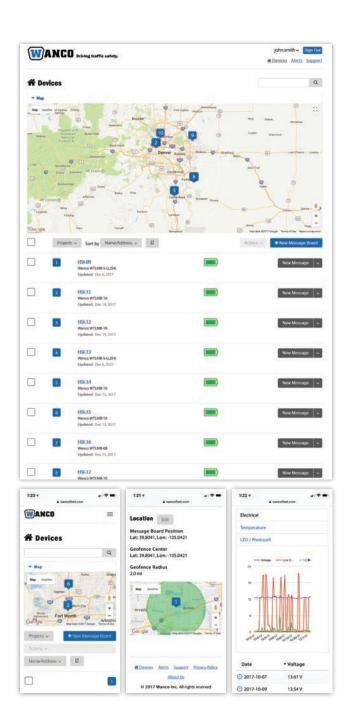


Using a computer with an Internet connection, see your entire fleet, create lists and groups of equipment, and manage equipment individually or in groups. Add equipment to Fleet Manager and remove equipment as needed. Monitor and change messages on message signs, send mass-message broadcasts to multiple signs and more.

Wanco Fleet Manager provides real-time access to equipment health information,

including battery charge, alarms and a variety of electrical and physical information. Graphing capability shows temperature and electrical-system data in charts that are easy to read.

GPS mapping lets you locate and identify your fleet and individual pieces of equipment. Geofencing lets you designate areas where your equipment is allowed, with notifications and configurable alarms that are triggered when boundaries are breached.



# Arrow Boards Trailers, Skids & Truck-Mounts

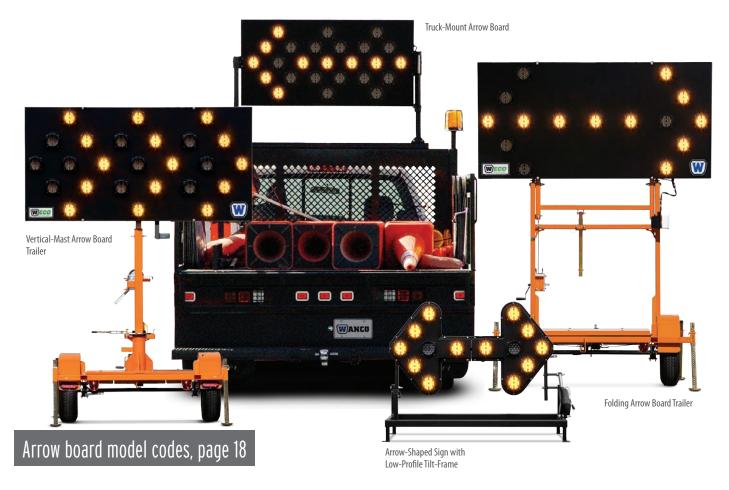


15-light and 25-light models
Folding and vertical-mast trailers
Wide selection of truck-mount options
Energy efficient
Easy to operate and maintain



Compact design fits 15 folding arrow boards on a truck

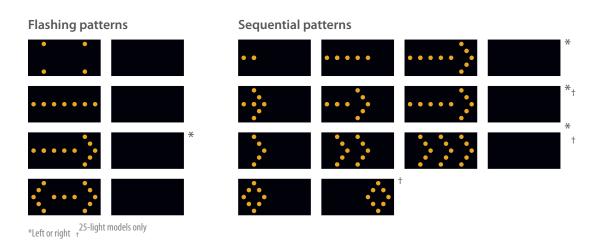
Wanco Arrow Boards play an essential role in keeping the work zone safe. Highly visible, easy to operate, rugged and dependable, Wanco Arrow Boards set the standard. Wanco has a wide range of arrow boards to fit your specific needs, including models with environmentally friendly W|ECO® Technology, the most power-efficient arrow boards in the industry.





Trailer- and skid-mounted controllers

Truck-mounted controllers Contact factory for your application.



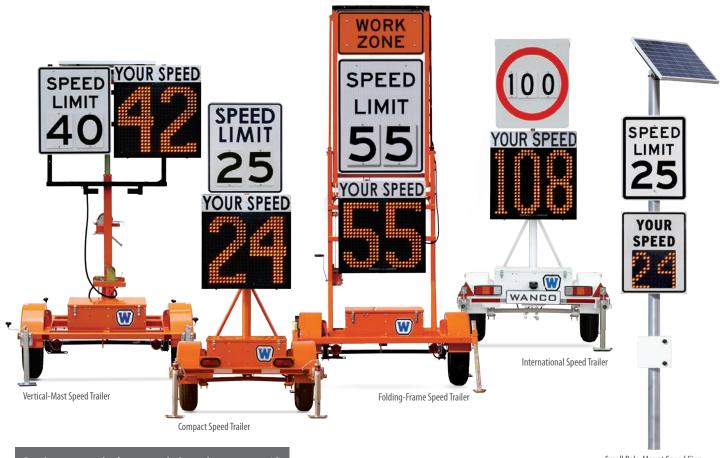
		Arrow board trailers		Arrow board skids			Truck-mount arrow boards*			
		Folding	Vertical	Standard	Low profile	Rigid	Full-size	Large	Medium	Small
MUTCD stand	dard	Type C	Type C	Type C	Type C	Type C	Type C	Туре В	Туре В	Type A
Display cabinet size	in. (cm)	48 × 96 (122 × 244)	48 × 96 (122 × 244)	48 × 96 (122 × 244)	48 × 96 (122 × 244)	48 × 96 (122 × 244)	48 × 96 (122 × 244)	36 × 72 (92 × 183)	30 × 60 (76 × 153)	24 × 48 (61 × 122)
Deployed footprint	in. (cm)	119 × 96 (302 × 244)	118 × 96 (300 × 244)	73 × 96 (185 × 244)	73 × 96 (185 × 244)	36 × 96 (91 × 244)	Varies depending on mounting frame		ame	
Operating height	in. (cm)	136 (344)	133 (337)	120 (305)	87 (221)	77 (194)	Varies depending on mounting frame		ame	
Travel height	in. (cm)	91 (229)	91 (229)	75 (191)	44 (112)	77 (194)	Varies depending on mounting frame		ame	
Weight, approx.	lbs. (kg)	1250 (567)	1250 (567)	540 (245)	520 (236)	320 (145)	112 (51)	100 (45)	72 (33)	42 (19)
Display lamp	S	PAR 46 LED	PAR 46 LED	PAR 46 LED	PAR 46 LED	PAR 46 LED	PAR 46 LED	PAR 46 LED	PAR 36 LED	PAR 36 LED
Power		Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar	Vehicle alternator	Vehicle alternator	Vehicle alternator	Vehicle alternator

All dimensions are L imes W or W imes H. \*

## Radar-Speed Signs Trailers & Pole-Mounts

Large, bright LED characters
Easy to transport
Changeable speed-limit sign
See-through design
Battery and solar powered

Featuring the largest portable speed-display available, Wanco Radar-Speed Signs show vehicle speed in 26-inch characters, warning motorists to slow down by flashing their excessive speed. Commonly deployed in school zones, work zones and high-accident areas, these signs provide a degree of traffic calming unmatched by other roadway signs.



Radar-speed sign model codes, page 19

Small Pole-Mount Speed Sign

### Touchscreen Controller



Wanco's full-color touchscreen controller\* provides access to all speed sign functions. Widely known as the industry's easiest to use, features include capacitive response, large virtual buttons and easy message setup.

\*Standard speed signs have an analog controller; the touchscreen is an optional upgrade. When a speed trailer is ordered from the factory with Data Classifier System, the touchscreen is included.

#### **Touchscreen Features**

Capacitive touchscreen with instantaneous response

Single-press to access most common settings

Change settings and view system status from main screen

Set any speed and excess speed independently

Display vehicle speeds or messages

Create custom messages

Choose from preprogrammed messages

Internal clock facilitates built-in schedule programming

Set up connected devices, including Wanco Traffic Data Classifier System (see page 10)

Multi-level password protection restricts access to authorized personnel

Main screen shows message on sign, speed settings, radar and classifier status

Access system information, power levels, active alarms and system settings from main screen

Turn connected devices on and off, including radar, classifier, beacons and more





Custom and preprogrammed messages

		Radar-speed t	railers		Pole-mount speed signs		
		Vertical	Folding	Compact	International	Large	Small
Deployed footprint	in. (cm)	118 × 77 (299 × 195)	127 × 75 (323 × 191)	106 × 61 (268 × 154)	106 × 61 (268 × 154)	_	_
Operating height	in. (cm)	134 (340)	136 (344)	123 (312)	123 (312)	_	_
Travel height	in. (cm)	92 (234)	106 (269)	91 (231)	91 (231)	_	_
Weight, approx.	lbs. (kg)	1250 (567)	1170 (531)	870 (395)	870 (395)	_	_
Display cabinet size*	in. (cm)	36 × 38 (91 × 96)	$36 \times 38 \times 5$ $(91 \times 96 \times 13)$	$24 \times 30 \times 5$ $(61 \times 76 \times 13)$			
Speed display font size	in. (cm)	26 (66)	26 (66)	26 (66)	26 (66)	26 (66)	13 (33)
Speed limit sign size <sup>†</sup>	in. (cm)	30 × 36 (76 × 91)	36 × 48 (91 × 122)	24 × 30 (61 × 76)	36 × 36 (91 × 91)	As specified or customer-supp	
Power		Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar	Batteries, solar; or 110/220Vac	Batteries, solar; or 110/220 Vac

All dimensions are  $L \times W$  or  $W \times H$ . \*Height includes YOUR SPEED sign. †Standard sign size shown, other sizes available. Contact the factory.

## Traffic Data Classifier System

## Traffic Counter & Data Analyzer

Collects and classifies traffic data

Nonintrusive and safe to install

Analytic graphing

Data analysis for any purpose

Remote access with optional modem



The Wanco Traffic Data Classifier System provides a safe, non-intrusive method for monitoring and analyzing traffic patterns. Employing side-fire radar to measure vehicle speed and length, the data collector uses no wires, loops or hoses. Analytic graphing software is included, to make charting traffic data easy. The system integrates with any Wanco Radar-Speed Sign or Variable Message Sign.

#### Features and Benefits

#### **Common applications**

Tool for traffic engineers to investigate lane flow, speed and density

Use collected data to make decisions and recommendations for managing traffic

Investigate and validate complaints from citizens, neighborhoods and contractors

Planners can back up needs and recommendations with real data

Decide when to put police on the roads

Prove the need for traffic controls

#### Operation

Nonintrusive, no disturbance of traffic flow during installation or use

Radar-based design is less dangerous to install than loops and hoses

Most effective for two-lane roads

Counts both approaching and departing vehicles

Side-fire radar system captures date and time, traffic volume, and vehicle speed, direction and length

Registers millions of vehicles in internal memory



With optional modem, data can be retrieved remotely via the Internet. See page 4.

#### Data analysis

Wanco Traffic Analyzer app included with system

App installs on user-supplied computer

Create and manage multiple projects at once

Name projects and add details and notes when needed

Analytic graphing charts vehicle count vs. speed, volume over time, and means & percentiles for easy analysis

Filter data as desired

Fully interactive graphs can be customized for your requirements

Export graphs in common file formats





## Portable Camera Trailers Live Remote Video

Wireless remote viewing and monitoring Integrates with existing video networks **Continuous unmanned operation** Easy to transport Completely self-contained Wanco Portable Camera Trailers provide remote site monitoring in a compact, mobile, self-contained unit. Where no permanent cameras are installed, these systems augment any video network with quick and easy deployment and an array of remote-access capabilities. Perfect for DOTs, traffic engineers, ITS and signal engineers, and others. Monitor traffic, work zones and weather conditions in real time. Wanco Portable Camera Trailers feature rugged construction and electronics chosen specifically for transportation departments. Cameras Outdoor IP-network cameras Day/night, pan-tilt-zoom (PTZ), 360° rotation Camera height Up to 29 ft. (8.8 m), depending on model Power system Battery-powered with solar charging system Popular options Choice of wireless communications (4G/LTE, RF, Wi-Fi®, WLAN, 802.11 and more) Onboard digital recording

Single-Camera Mini Solar Surveillance System

Choice of cameras Multiple cameras

**GPS** 

Traffic PVS System

# Diesel Light Towers LED and Metal Halide

Vertical and laydown-tower models

LED or metal halide lights

360-degree tower rotation

Lights operate at any height

Easy to transport

Wanco Light Towers feature state-of-the-art technology for superior illumination. Models include laydown and vertical towers with LED or metal halide lights. Lights operate at any height and can be aimed independently without the use of tools. Energy efficient and easy to use, Wanco Light Towers are designed for optimum performance and maximum durability.



Vertical-Mast Light Tower

Light tower model codes, page 19

## Solar Light Towers

**Silent operation** 

Four LED lights on 20-foot tower

**Compact trailer** 

**Automatic and manual operating modes** 

Battery powered and solar charged

The Wanco Small Solar Light Tower is perfect for lighting areas up to 7,200 square feet. Common applications include utility site and road repairs, flagger stations and personal work areas. Solar light

towers operate silently, which means they can be used in residential areas without disturbing the public. The light tower features four or six high-efficiency LED light fixtures on a 20-foot telescoping tower. Autonomous operation is possible during summer.

Lights			
Light fixtures	Four or six LED fixtures		
Power draw, approx.	50 watts per light fixture*		
Physical			
Deployed footprint, L×W	158 × 83 in. (401 × 211 cm)		
Operating height	max. 236 in. (599 cm) min. 108 in. (273 cm)		
Traveling height	108 in. (273 cm)		
Weight, approx.	1680 lbs. (762 kg)		
Power system			
Batteries	Four 4D AGM 12 Vdc batteries		
Battery capacity	400 Ah total		
Solar array	Two 300 W fixed-position panels on tilt-frame 600 W total		

Wanco has many models of solar light towers with more lights, taller towers and larger



Small Solar Light Tower

## Balloon Light Cart

Glare-free 360° illumination
Reduced and diffused shadows
16-foot telescoping tower
Steerable heavy-duty cart with brake
Optional inverter power generator

Wanco Balloon Light Carts provide diffused light that reduces shadows and eliminates glare, making night work safer and easier on the eyes. The balloon light illuminates large areas even at low operating heights. The light operates at any height. With outriggers deployed, the heavy-duty steel base and low center of gravity keep the light and telescoping mast stable.

Light	
Lamp	One metal halide lamp
Power draw	1000 watts
Physical	
Balloon, inflated	43 in. (110 cm) diameter 25 in. (66 cm) height
Deployed footprint, L×W	77×80 in. (196×203 cm)
Deployed height, max.	16 ft. 3 in. (4.95 m)
Travel size, $L \times W \times H$	$47 \times 31 \times 91$ in. (118 × 79 × 230 cm)
Weight, approx.	300 lbs. (136 kg)
Power	
Power supply	Portable generator or Commercial AC power
Optional generator	Wanco WI2000P recommended 2000 watts max., 120 VAC



Light cart model code, page 19

## X-Marker<sup>™</sup> L-893(L) Runway Closure Marker

FAA standards certified
Lowest fuel consumption in the industry
24-hour battery backup
10-year operating life for LED fixtures
Easy to deploy in under 5 minutes

The Wanco X-Marker™ is an L-893(L) lighted visual aid for indicating temporary runway closure. It efficiently and effectively warns pilots of closed airport runways and taxiways, and protects maintenance crews working in these areas. The X-Marker L-893(L) is ETL-certified to meet FAA AC 150/5345-55.

Lights	Nine high-efficiency LED fixtures				
Luminosity	6000 lumens per fixture, 54,000 lumens total				
Operating height	20 ft. 5 in. (6.2 m)				
Arm length	21 ft. 8 in. (6.6 m) tip to tip				
Run time	On engine power, up to 7 days before refueling On battery power, additional 24 hours				
Popular options	Tandem tow package Integral fluid containment system Cold weather package Arctic weather package Emergency stop Covers				



X-Marker L-893(L) Runway Closure Marker

# Fold-n-Go<sup>™</sup> Portable Sign Trailers

Quick setup and takedown

Compact and easy to tow

Flashing beacons

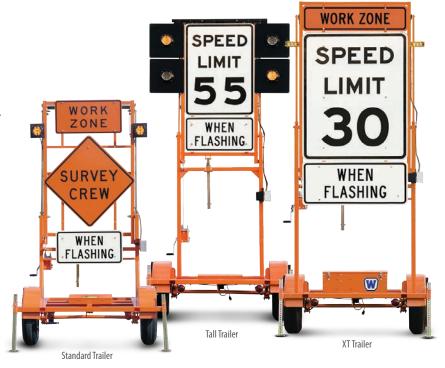
Solar charging system

Built to meet state requirements

Wanco Fold-n-Go<sup>™</sup> Trailers provide a platform for displaying temporary signs. Extremely compact and portable, these trailers offer easy roadside placement, quickly and easily folding for transport. A variety of sign sizes can be attached, made more noticeable with bright, flashing beacons or strobe lights.

Wanco can custom design a Fold-n-Go trailer to meet your local codes and requirements. Contact us to learn more.





		Standard trail	er	Tall trailer		XT trailer	
Deployed footprint	in. (cm)	100 × 74	(254 × 188)	100 × 74	(254 × 188)	100 × 74	(254 × 188)
Operating height	in. (cm)	126	(320)	152	(386)	165	(419)
Traveling height	in. (cm)	73	(185)	106	(269)	120	(305)
Weight, approx.	lbs. (kg)	700	(318)	800	(363)	900	(408)
Sign sizes top middle bottom	in. (cm)	36 or 48 × 24 36 or 48 × 48 36 or 48 × 18	(91 or 122 × 61) (91 or 122 × 122) (91 or 122 × 46)	36 × 48 — 36 × 18	(91 × 122) — (91 × 46)	48 × 12 48 × 60 48 × 20	(122 × 31) (122 × 152) (122 × 51)
Optional flashers		Two or four 5.5	5-inch LED beacons	Two or fo	ur 5.5-inch LED beacons	Two high-	output LED strobes

All dimensions are L  $\times$  W or W  $\times$  H.

Fold-n-Go model codes, page 19

# Caution Beacons Kits & Components

Kits for common applications

Permanent and temporary installations

Solar charging system or commercial power

Simple controls

Automatic night dimming

Wanco Caution Beacons are the right choice for school zones, construction sites and other areas that require motorists' attention. Bright beacons and simple controls, combined with a variety of options, make Wanco Caution Beacons ideally suited for any application. Choose from preconfigured kits, or select individual components as needed.



Beacon heads	
Lights	Amber LED, lens in lamp
Size	12-inch standard head, 8-inch rear head
Construction	Yellow polycarbonate
Visor	Tunnel type, extends 12 inches from door surface

#### **Configuration options**

Pole-mount aluminum control/battery box, or steel battery box for temporary installations Commercial power, or solar powered battery-charging system with a choice of solar panels Alternating flasher with solar regulator and automatic low-voltage-disconnect circuit 365-day programmable timer for scheduled operation Aluminum pole, 4-in. dia. (4.5-in. OD), 14 feet tall with pedestal base, ready for installation Regulatory signs

Caution beacon model codes, contact factory

## **Product Model Codes**

#### Variable Message Signs



Full-Size Matrix

WTMMB



Mini Matrix

WVTM



Metro™ Matrix

WVTMM



Full-Size Remote-Video Monitoring System

WTMMBC



Mini Remote-Video Monitoring System

WVTMC



Full-Size Three-Line

WTLMB



Mini Three-Line

WVT3



5-Color Matrix

**Arrow Board Skids** 

WVTM-5C



International Matrix

WEMB



Truck-Mount Matrix

WMB-V

#### Arrow Board Trailers



**Vertical Trailer** 

WTSV



Folding Trailer

WTSP



Standard Skid

WSSP



Low-Profile Skid

WSSP-LP



Rigid Skid

WS1SB8

### Truck-Mount Arrow Boards



### No Mounting Frame

 $48 \times 96 \text{ in.}$  WB8  $36 \times 72 \text{ in.}$  WB6  $30 \times 60 \text{ in.}$  WB5  $24 \times 48 \text{ in.}$  WB4



Manual Tilt (Auto-Lock)

48 × 96 in. WFB8 36 × 72 in. WFB6 30 × 60 in. WFB5 24 × 48 in. WFB4



90° Power-Tilt Frame

48 × 96 in. WFBP8 36 × 72 in. WFBP6 30 × 60 in. WFBP5 24 × 48 in. WFBP4



90° Low-Profile Power-Tilt Frame

36 × 72 in. WLP90B6 30 × 60 in. WLP90B5



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