



SYTECHS
MINERALS
HEAVY DUTY
WEIGHBRIDGES

The Sytechs ST-HD series heavy duty weighbridges are a new generation product with stronger and durable platform structure . The weighbridges are manufactured as per North American Sytechs design and specifications.

The main beam is made of rigid modular sections like I-Steel, and more than 6mm beam thickness, bended by machines which improves the durability and quality of the complete structure and platform .

High quality steel plates are selected and used for its top platform, and the scale platform is reasonably pieced into 6 pieces beam in closed frame.

Platforms are manufactured using special CO2 carbon dioxide gas arc welding and auto submerged arc welding technique with high precision measuring equipment of space positioning to deliver high accuracy in platform space geometry-dimensions and a rational distribution of weld stress.

The Sytechs Heavy duty Weighbridges are designed to meet various customers' requirements and applications. The Heavy Duty Weighbridges can be offered as stationary, Portable (with steel foundation)

Stationary weighbridge shall require a concrete foundation which drawings shall be supplied with the weighbridge.

Portable weighbridge shall be supplied with steel foundation & steel ramps. Therefore, No concrete foundation shall be required. However, the ground should be well leveled and compacted.



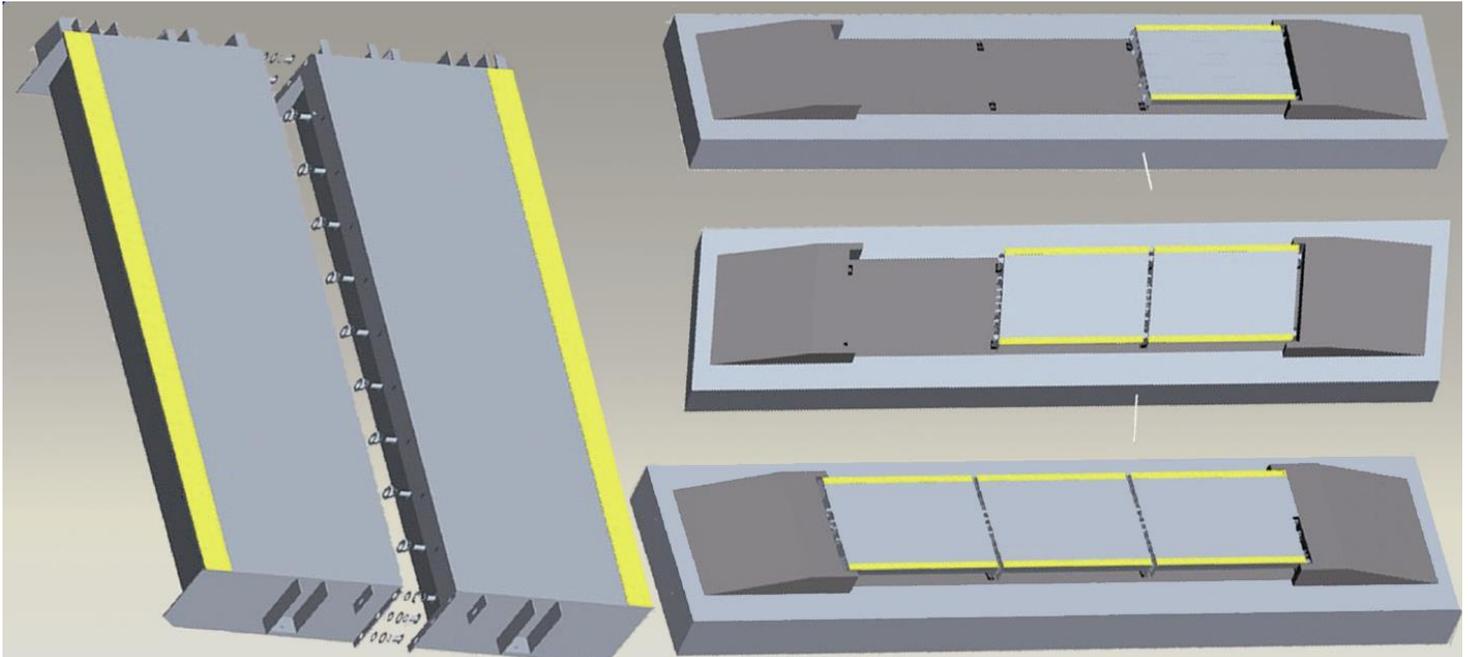
STATIONARY HEAVY DUTY WEIGHBRIDGE



PORTABLE HEAVY DUTY WEIGHBRIDGE

ISO9001:2008

WEIGHBRIDGE STRUCTURE



The ST-HD series Heavy Duty weighbridges are manufactured using high quality Q235 or Q345 steel to form a U shape Bridge construction structure.

The design of the platform varies depending on the size of the weighbridge. The top plate is of 12mm thickness while 6mm thickness U beam of maximum 6 pieces are used on the heavy duty weighbridges plate with safety overload factor of 1.5.

Depending on the total load capacity, the weighbridges can be manufactured with various widths and lengths:

Available Width: 3m, 3.2m, 3.4m, 3.5m

Available Length: 6m, 7m, 8m, 9m, 10m, 12m, 14m, 16m, 18m, 20m, 21m, 22m, 23m, 24m.



WEIGHBRIDGE ACCESSORIES

 <p>310X196X187 (mm)</p>		
<p>WEIGHING INDICATOR</p>	<p>WEIGHING INDICATOR WITH SMALL PRINTER</p>	<p>HIGH ACCURACY LOAD CELL</p>
		
<p>EPSON PRINTER (PRINT WEIGHT BILL)</p>	<p>LARGE SCOREBOARD</p>	<p>SIDE PROTECTION RAIL</p>

Standard Accessories

The standard weighbridge is supplied with standard weighing indicator, Epson printer, Weighing Software Management system, loadcells, connecting cables and joint box.

Optional Accessories

There are many optional items that can be supplied with the weighbridge such as: Weighing indicator with built-in printer, Large Score board, Side protection rails, Anti Slippage platform, Steal Ramps.

The Weighing Management Software can also be customized to meet specific customer's requirements. This includes Centralized Remote Management (CRM) for various weighbridges at different locations.

TECHNICAL SPECIFICATIONS

Weighbridge truck scale Accuracy class: OIML(111)
 Weighing scope:10-150(t)
 Truck scale length:5-30m
 Truck scale width:3-4m
 Interval:=3000
 Working environment:
 Indicator surrounding: temperature:-10+40°C
 Weighing platform:-30+65°C
 Relative humidity: below 95%
 Power supply: 220V(AC) 50HZ
 Weighing capacity: 10-200 TONS

MODEL / SIZE	MODEL	PLATFORM SIZE(WXL)	CAPACITY (TPH)	SECTIONS
	ST-HDSW-10 / ST-HDPW-10 (+ SF)	3mx5m	10	5
	ST-HDSW-20 / ST-HDPW20 (+SF)	3mx6m	20	10
	ST-HDSW-30 / ST-HDPW30 (+SF)	3mx7m	30	10
	ST-HDSW-40 / ST-HDPW40 (+SF)	3mx8m	40	10
	ST-HDSW-50 / ST-HDPW50 (+SF)	3mx9m,3mx10m	50	10
	ST-HDSW-60 / ST-HDPW60 (+SF)	3mx12m,3mx16m	60	10
	ST-HDSW-80 / ST-HDPW80 (+SF)	3mx16m,3mx18m,3mx20m	80	10
	ST-HDSW-100 / ST-HDPW100 (+SF)	3mx16m,3mx18m,3mx20m,3mx21m	100	20
	ST-HDSW-150 / ST-HDPW150 (+SF)	3mx20m,3mx21m,3mx22m,3mx23m,3mx24m	150	20
ST-HDSW-200 / ST-HDPW200 (+SF)	3mx20m,3mx21m,3mx22m,3mx23m,3mx24m	200	20	



KD WEIGHING INDICATOR D2



KD WEIGHING INDICATOR D2

Features and Functions

- ✓ High precision A/D conversion
- ✓ Auto/Manual angle difference correction
- ✓ Fast-filled weighing bill setup
- ✓ Storage of 255 groups of vehicle NO. and tare weight, 100 cargo NO., 512 groups of weighing record
- ✓ Weighing record storage/inspection/deletion/power-off protection
- ✓ 5-point nonlinear modification.
- ✓ RS232 communication interface
- ✓ Scoreboard communication interface(20mA electric current loop or RS232 interface)
- ✓ Standard parallel print interface, available for 9 or 24-pin wide-line printer

Technical Parameter

Digital Load Cell Connection Method (meters)	6 wires with long-distance auto compensation(≤50 meters)
Digital Load Cell Connection Quantity	1~8
Display Method	6-bit VFD display, 6 indications
Display Range -	99990~320000(d=10)
Scoreboard Interface	RS232C / electric current loop RS232C Type: ≤30 meters
Score board transmission distance	Electric current loop Type: ≤2000 meters For wide-line printer: TM800, KX-P1121, KX-P1131, LQ300K, LQ1600K are available
Printer interface	For micro printer: EPSON M150- II
Power Supply	AC 187~242V; 49~51HZ

Application

Applied in electronic floor scale, electronic truck scale and other static weighing system equipped with 1~8 digital load cells.

KD WEIGHING INDICATOR DS3



KD WEIGHING INDICATOR DS3

Features

- ✓ AC/DC power supply.
- ✓ Interface adopts new magnet-proof technology
- ✓ Simple to debug

Technical Parameters

Digital Load Cell Connection Method	RS485, compatible both for 4 or 6 wires.
Digital Load Cell Connection Distance	About 1000 meters
Digital Load Cell Connection Quantity	1-16
Display Method	7 bits super bright LED display, 10 indications
Keyboard Numeric Key	0~9
Keyboard Function Key	24
Printer Interface	Available for wide line printer
Power Supply	AC 85~261V; 50~60HZ
Outside rechargeable 12V battery	

Application. Widely applied in electronic floor scale, electronic truck scale, static railway scale on.

QS DIGITAL 30TON LOAD CELL

Technical Parameter

Rated Load	10, 15, 20, 25, 30, 40t
Rated Output	20000, 25000, 40000bits

Data Refresh Speed	50HZ
◆	30ton capacity with alloy steel
◆	With OIML certificate

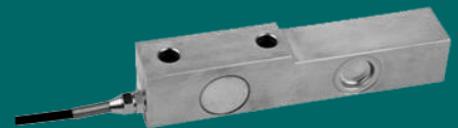
Data Transfer Speed	9600BPS
Accuracy	±0.02%F.S
Creep(30 min)	±0.02%F.S
Temperature Coefficient	±0.02%F.S/10°C
Working Temperature	-30~+70°C
Zero Output	±0.1%F.S
Safe Overload	150%
Protection Class	IP68
Recommended Input Voltage	9~12 V, DC Max. Input Voltage 20V, DC
Max. Transfer Distance	1200meters



KD SHEAR BEAM LOAD CELL

Technical Parameter

Rated Load	0.5, 1, 2, 3, 5, 7.5, 8, 10, 15, 20, 25t
Sensitivity	2.0±0.002mV/V
Accuracy Class	C2~C5
Zero Balance	±1%F.S
Temperature Range, Compensated	-10°C~+40°C
Working Temperature	-30~+70°C
Safe Overload	150%
Protection Class	IP67(0.3~0.5t); IP68(1~25t)
Material	Alloy Steel, Stainless Steel
Cable Length	2.6m(0.3~2t), 3.5m(3t), 5.2m(5~8t), 7m(8~10t), 12m(15~25t)



30-100TON SYTECHS PORTABLE TRUCK SCALE

Durable and robust truck scale structure design and 3years warranty for structure.
 No need for foundation building with both sides ramps design
 Model SCS-Portable type

Sytechs portable truck scale model size

3mx6m 30ton,40ton,50ton,60ton 3mx7m 30ton,40ton,50ton,60ton
 3mx8m 30ton,40ton,50ton,60ton
 3mx9m 30ton,40ton,50ton,60ton 3mx12m 50ton,60ton
 3mx16m 60ton,80ton 3mx18m 60ton,80ton, 100ton, 150ton



Accuracy class	OIML(III)
Capacity range	10-150(Ton)
Safe overload	150%
Material	Q235 steel
Thickness of plate	10mm or 12mm
Structure	U shape bridge construction stucture
Structure Thickness	6mm
Painting	Anti rust and anti corrosion painting
Work temperature Indicator:	-10°C to +40°C Scale platform: -30°C to +65°C
Power supply	220V 50HZ to 230V 60HZ or 110V 60HZ
Packing detail	Carton packing
Quality system	ISO9001:2008
Certificate number	04809Q11426R0M
Standard accessory:	
Weighing indicator	Electronic type or digital type Load cell/sensor
Printer	Electronic type or digital type Epson
Junction boxes	Waterproof type wire junction boxes
Connect cable	20m or 30m(depends on the distance from scale house to scale)
Screw Bolts-	screws, limit screw, loading cell screw, cover plate screw Installation tools
Inner six angle spanner, Unlock spanners, Screwdriver.	
Scoreboard	Convenience for seeing weighing result in the long distance.
Weighing management software	

PORTABLE AXLE TRUCK SCALES

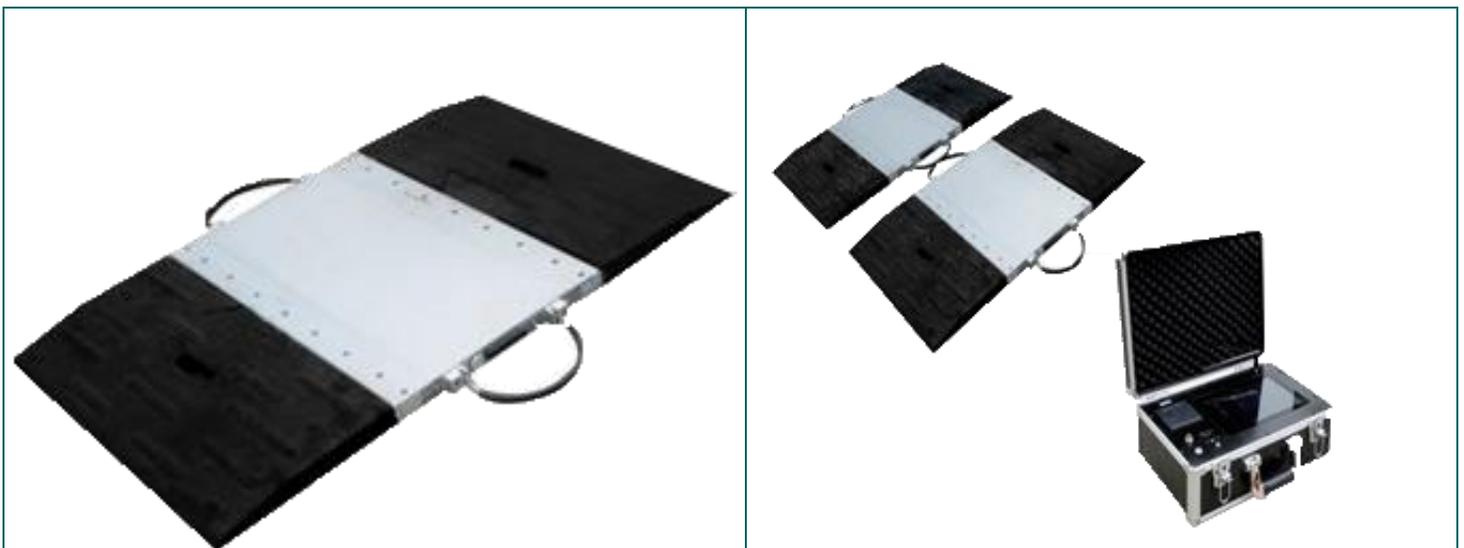
Feature

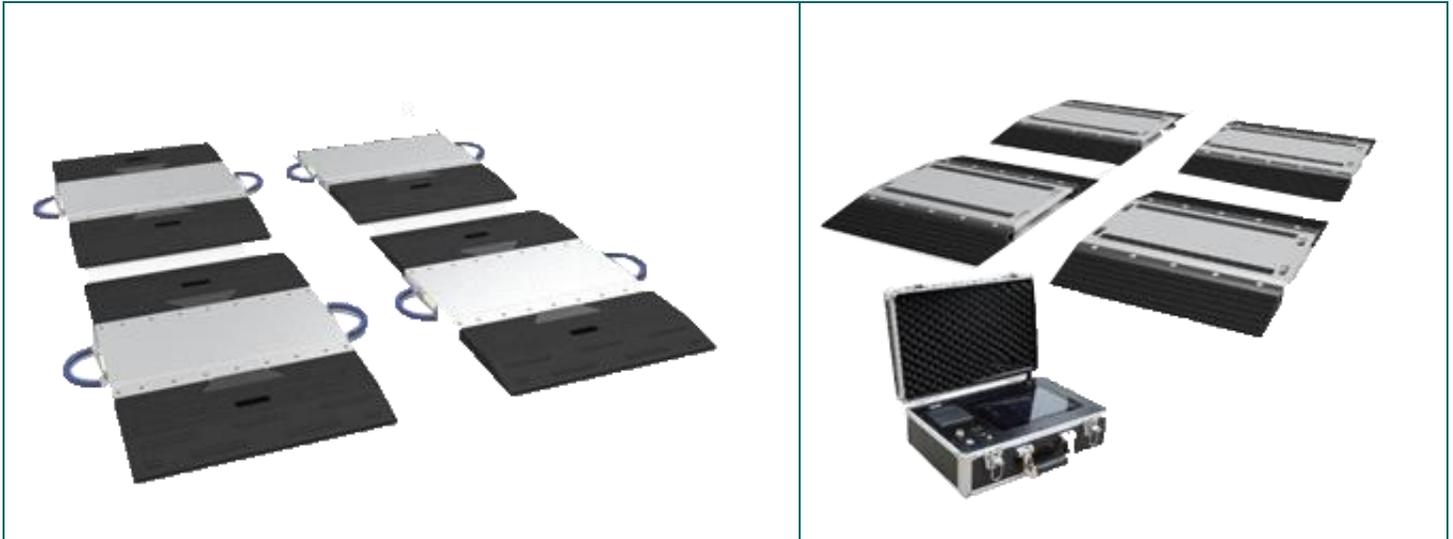
- ◆ Portable axle truck scale weighing pad is carefully designed with a one-piece structure to ensure the strength, accuracy and consistency of the plate. The load cell has a long service life and the number of impact resistance can reach a million.
- ◆ Weighing pad with a wide range of specifications and varieties, adaptable to the needs of different vehicles, single plate range: 5T~35T.
- ◆ Multi-protection with BOSTIC polyurethane rubber, ageing resistant, waterproof, IP66 protection.
- ◆ High and low temperature test, ambient temperature range: -30/80 °C
 - ◆ The surface of the weighing platform is brushed, anti-oxidation, corrosion resistant, highstrength, beautiful; equipped with natural rubber slope, with the advantages of pressure resistance, impact resistance, anti-oxidation, no deformation, no sliding, etc.; the whole scale is easy to install and use, no special foundation is needed, just a flat hardened road surface can be used
- ◆ Dynamic accuracy: 1%- 3%
- ◆ Static accuracy: 1‰- 3‰

Application field

- ◆ Traffic police, road administration and other law enforcement monitoring of vehicleoverloading; high-speed entrance control overload inspection.
- ◆ Wheeled vehicle (including aircraft) manufacturers, for wheel weight, axle weight, biasload, total weight and other weight testing needs.
- ◆ Widely used in industrial and mining enterprises, construction sites, docks, warehouses,logistics, etc. for dynamic/static weighing of vehicles.
- ◆ Combination of several weighing pad, which can replace some of the fixed scales, andcan be quickly moved and reorganised, making it more cost-effective.
- ◆ Can be used as a weighing module; for partial applications, static weighing and fortrade settlement.

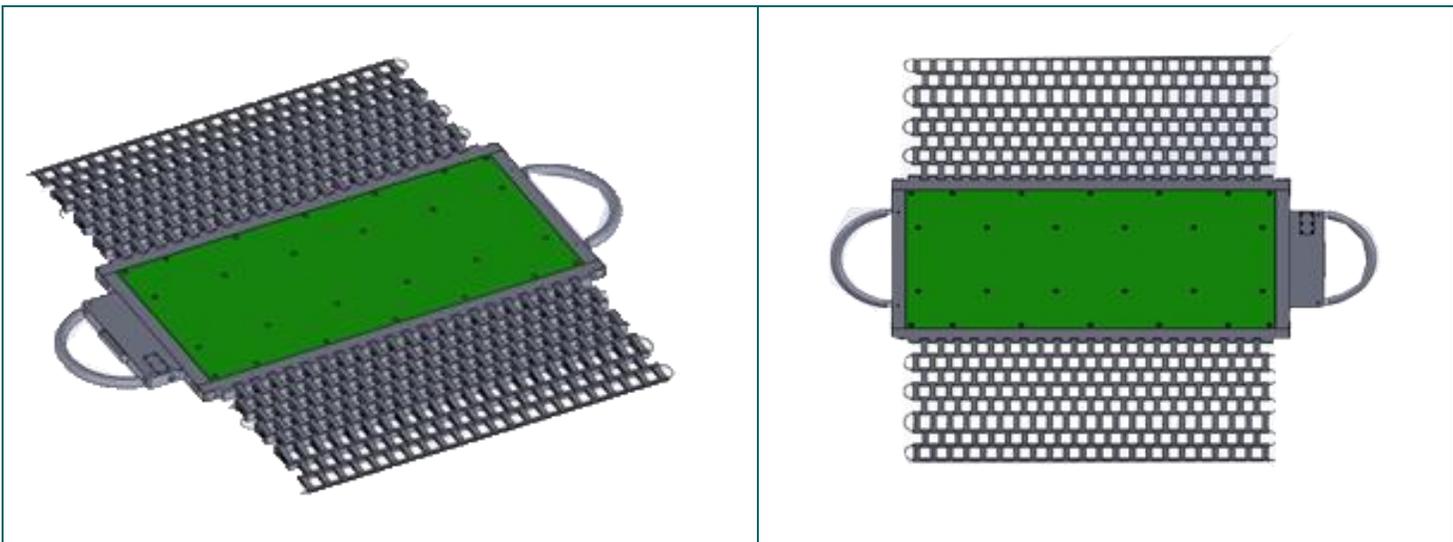
KD700 AXLE WEIGHBRIDGE

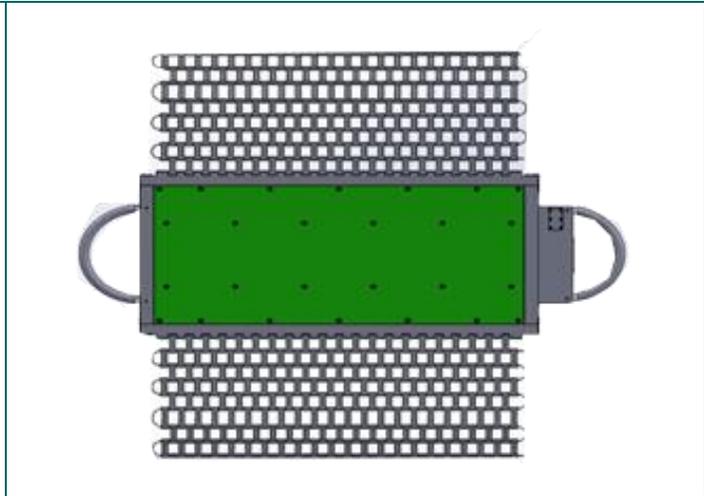
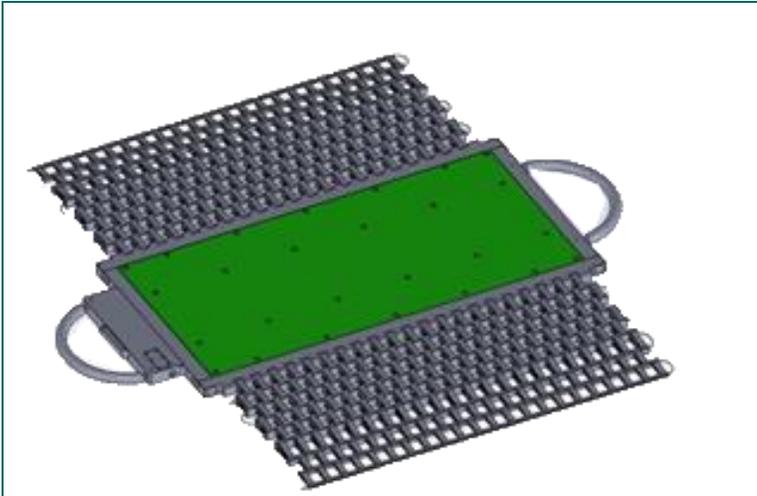




Model	Product	Size (mm)	Single Pad Capacity (Tons)	Weight (kg)
KD700	Wireless type weighing pad	700*430*35	20t	24
	Wire type weighing pad	700*430*29	15t	22
	ramps	700*340*30		9

KD866 AXLE WEIGHBRIDGE





Model	Product	Size (mm)	Single Pad Capacity (Tons)	Weight (kg)
KD866	Wireless weighing pad	866*440*22	15	17
	Ramps	860*360*22		2

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