

# D Shackle Load Cell

The SHK series of 'D' Shackle Load Cells is designed for lifting and weighing in rugged or harsh environments. The shackle pins are forged from high tensile carbon steel and are machined to an exacting specification. The 'D' shackle load cells are available in a range from 6 to 50 tonnes; the integral connecting 4-core cable is normally enclosed in an armoured rubber hydraulic hose to give physical and environmental protection. The shackle pins are internally gauged and the whole instrumented area is sealed to IP67 to protect it in service.



They are simple to install and available in standard shackle sizes. Also supplied is a rotating bobbin designed to centralize the load and to minimise any point-load effects when the shackle is placed under load.

RATING (Tonnes)	A	B	C	D	E	F	G	H	J	WEIGHT (Kg)
6	25	75	36	29	60	37	25	111	123	3
10	32	95	51	35	76	46	32	141	156	6
17	38	125	60	41	92	54	37	185	206	10
25	45	150	74	51	105	65	44	222	247	15
35	51	170	83	57	127	72	50	252	280	22

Bridge Resistance	350 Ohms nominal
Excitation Voltage	5 to 10V DC
Output	1.5 to 2.0 mV/V @ rated load
Insulation Resistance	>500 MOhms @ 100V DC
Operating Temperature	-20 deg. C to +70 deg. C
Compensated Temp. Range	-10 deg. C to +50 deg. C
Zero Temp. Coefficient	0.01% of rated load/deg. C
Span Temp. Coefficient	0.01% of rated load/deg. C
Non-linearity	<+/- 1.0% of rated load
Non-repeatability	+/- 0.1% of rated load
Proof Load	130% rated load
Ultimate Breaking Load	300% rated load
Protection	IP 67 standard
Cable length	to be specified at time of order

Certification

Lloyds or other approved  
certification may be obtained  
at extra cost, if specified  
at time of order

See separate data sheet for details on the [TR-200](#) load cell readout which has been designed for this type of installation.