

# Bridge Outfit (Measuring Crane)

“Virtual” make Bridge Outfit - Measuring Crane is manufactured as per IS 6064-1971. This equipment is useful for lowering and lifting heavy instruments like-current meter with fish weight for measuring stream velocity and obtaining sediment studies from the road bridge sites or from boat amid the rivers. The crane is easy to operate & maintain. It is made of aluminum structure. The rear assembly is adjustable in a vertical direction so that the platform surface will remain parallel with the road surface when operated on sidewalks.

Winch arrangement (gauging Reel) with handle is fitted on the Crane. The current meter or Sediment Sampler is lowered or lifted by gauging reel easily. The gauging reel has capability to hold the current meter at any depth. The crane trolley is collapsible so that it can be easily moved from & has 4 wheels with solid rubber tyres, folding handle for easy movement on parapet or bridge sideway. It is capable of handling up to 100 kg. of hanging weight. Superior quality torque free wire rope from which the current meter is suspended is incorporated & wound



## Winch:

The Gauging Reel is used along with Bridge outfit structure to position stream gauging and sample collection equipment. The gauging reel is intended for manual operation. The reel has 30 or 50 meters of 2.5 mm. The reel is equipped with a zero re-settable 5 digit mechanical counter which displays the depth in centimetres. Lowering the water current meter with top of water in river, resetting the counter & lowering water current meter to bottom will show the depth of water flow at that point. Generally at 2/3 depth the water velocity is measured which can be obtained using the counter.



It is easy to operate by rotating the detachable handle withers clockwise or anticlockwise. The cable is wound on the drum gradually with equal spacing. The reel is equipped with a ratchet and pawl which is engaged to hold the metering or sampling equipment in position. The material used in this gauging reel is generally Aluminum & Gunmetal with precision bearings & brass gearings with mechanical counter. The winch is capable of handling 100 Kg. of weight of Sediment Sampler / Current Meter hanging weight.

## Ordering Guide:

SN	Description	Material	Model No.
1	Bridge Outfit	Mild Steel	VH-BO-MS
2	Bridge Outfit	Aluminum	VH-BO-AL

