

MEASURING CRANE (BRIDGE OUTFIT)



The modified Bridge Outfit - Crane is manufactured as per IS 6064-1971. The bridge outfit is used to suspend current meters and samplers from a bridge into a river or canal. The crane is easy to operate & maintain. It is made of aluminium 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 on bridge sideway.

It is capable of handling upto 100 kg. of sounding weight. Superior quality torque free wire rope from which the current meter is suspended is incorporated & wound

GAUGING REEL (WINCH)

The Gauging Reel is used alongwith Bridge outfit structure to position stream gaging 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 centimeters. 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 wither 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 are generally Aluminium & Gunmetal with precision bearings & brass gearings with mechanical counter.

The winch is capable of handling 100 Kg. of weight of Sediment Sampler / Current Meter sounding weight.



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Mfg. of : Hydrological, Meteorological, River Gauging & Weather Equipments

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