

## DECADES OF DEDICATION TO THE NATION



**1** year  
guarantee

One year guarantee  
from the date of installation (or)  
18 months from the date of supply,  
whichever is earlier.

**MORRIS - 'ES' CHAIN PULLEY BLOCK**

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**MORRIS' ES Series** Balanced Spur Gear Hand Chain Hoists are offered in capacities in the range from 0.5 Tonne to 10 Tonne. Hook suspension is available for all capacities and all hook suspension hoists can be hung into Morris push or hand geared Travelling Trolleys. Built-in or close-lift units built into hand geared trolleys are offered from 1 to 10 Tonne capacities.

**FRAME** : Made from MS Rolled Steel Plates, used to fabricate frame. A detachable cover totally encloses the gears.

**CHAINS** : Load chains is of Alloy Steel – Grade 80 to IS: 6216 for 7.5Te & 10Te capacity. For 0.5Te to 5.0Te capacity is of Higher Tensile Steel – Grade 40 to IS: 3109 (Part II).

**HOOKS** : Forged hook as per IS: 15560

**GEARS** : Heat-treated carbon steel pinions and case hardened spur wheels.

**LOAD WHEEL** : Made from Spheroidal Graphite Iron as per IS: 1865

**BEARINGS** : Load spur wheel mounted on bearings of non-ferrous material.

**BRAKE** : The brake is of automatic screw and discs type.

**CHAIN GUIDES** : Steel chain guide roller provided

**HAND CHAIN WHEEL** : Made from Cast Iron – FG 200/220 to IS: 210.

**SPARES** : Easy inter-changeable spare available ex-stock.

**LUBRICATION** : Totally enclosed gear case is packed with sufficient grease.

**CERTIFICATION** : One year guarantee from the date of installation (or) 18 months from the date of supply, whichever is earlier.

## Dimensions, weights and performance data

Capacity (Safe Working load)	Tonnes	0.5	1.0	1.5	2.0	3.0	5.0	7.5	10.0
Number of falls of load chain		1	1	1	1	2	3	3	4
Load Chain Dia	mm	6.5	9.5	11.0	12.5	11.0	12.5	12.0	12.0
Load Chain Grade	---	40	40	40	40	40	40	80	80
Test Load	Tonnes	0.75	1.50	2.25	3.00	4.50	7.50	11.25	15.00
<b>Dimensions A</b> Hook suspension	mm	305	375	465	495	755	945	1080	1320
Hung in Trolley	mm	410	480	595	625	890	1100	1320	1550
Built-in Type (Close-lift)	mm	--	475	---	585	790	975	1100	1100
B	mm	210	254	330	337	385	455	610	610
C	mm	162	191	213	241	213	241	254	254
<b>Hung in trolley</b> Track width Range-I	mm	75-125	75-125	80-140	80-140	80-150	100-150	140-210	140-210
Track width Range-II	mm	140-180	140-180	150-210	150-210	180-210	180-210	---	---
Minimum clear depth of track	mm	125	125	150	150	150	200	300	300
<b>Built-in Units</b> Track width Range-I	mm	80-110	80-110	100-140	100-140	125-150	125-150	140-210	140-210
Track width Range-II	mm	125-180	125-180	150-210	150-210	180-210	180-210	---	---
Minimum clear depth of track	mm	150	150	200	200	250	250	300	300
Minimum radius of track curve	m	1.5	1.5	2.0	2.0	2.0	2.5	3.5	3.5
<b>Weight :</b> Hook Suspension unit for 3m clear lift	kg	18	28	43	56	68	120	160	200
Additional weight for extra mtr lift	kg	2	3	4	5	5	12	12	15
<b>Weight :</b> Geared Trolley with chain for standard 3m clear lift.	kg	23	23	37	37	42	81	214	240
<b>Effort</b> on hand chain to raise SWL	kg	31	32	45	51	46	57	67	75
<b>Velocity ratio</b> (movement of hand chain to load chain)		28	56	57	62	114	186	186	250

**EACH CHAIN PULLEY BLOCK IS SUBJECTED TO 50% OVERLOAD.**

### IMPROVEMENTS :

Our Engineering Department continuously works on design improvements and hence, we reserve the right of effecting any change without notice.

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The name that  
**carries weight**  
in more ways than one