



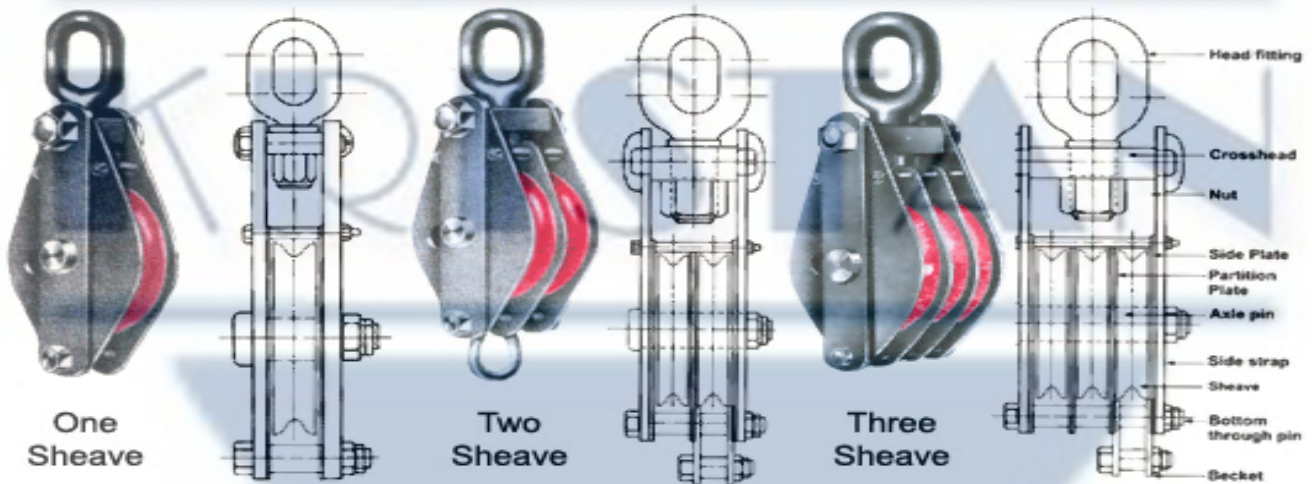
- B-21, Bhan Nagar, Queens Road, Jaipur-302021
- Website: www.aumshivay.com, www.omengineering.in
- E-mail: admin@aumshivay.com

Wire Rope Pulley Block



TM

Wire Rope Pulley Block; Wire Rope Pulley Blocks have two or more pulleys with a rope or cable threaded between them, usually used to lift or pull heavy loads. The pulleys are assembled together to form blocks and then blocks are paired so that one is fixed and one moves with the load. The rope is threaded, or wove, through the pulleys to provide mechanical advantage that amplifies the force applied to the rope. There are three type of Pulley Blocks available such as Single Sheave, Double Sheave and Triple Sheave Wire Rope Pulley Blocks.



A. Safe Working Load of Blocks;		6"	7"	8"	10"	12"	14"	16"	18"
Dia. of Sheave Circumference of Rope		1"-1¼"	1¼"-1½"	1½"-1¾"	1¾"-2¼"	2¼"-2½"	2½"-3"	3"-3½"	3½"-4"
S.W.L tons	Single Sheave	0.75	1.5	2	3	5	6	7	10
	Double Sheave	1	2	3	5	8	10	15	20
	Triple Sheave	1.5	2.5	5	10	12	15	20	25





AUMSHIVAY ENGINEERING PRIVATE LIMITED

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B. Safe Working Load of Rigs									
Dia. of Sheave		Dia. of Rope		S.W. L. per Single part of rope (Ton)	Safe Working Loads of Rigs				
(Inch)	(mm)	(inch)	(mm)		1/1 Rig Ton	2/1 Rig Ton	2/2 Rig Ton	3/2 Rig Ton	3/3 Rig Ton
5	127	3/8	9	0.75	1.5	2.25	3	3.75	4.5
6	152	7/16	11	1	2	3	4	5	6
7	177	1/2	13	1.25	2.5	3.75	5	6.25	7.5
8	203	9/16	14	1.50	3	4.5	6	7.4	9
9	228	5/8	16	2	4	6	8	10	12
11	279	3/4	19	3	6	9	12	15	18
12	304	7/8	22	4	8	12	16	20	24

Selection Criteria: Sheave Dia/Rope Dia = At least 12

- The safe working load per single part of rope is approximately one sixth of the nominal breaking load of ropes in the 6 x 37 group of tensile strength 100/110 ton / inch (160/175 kgf/mm). This is the nominal breaking load on which the design of blocks to this standard is based.

The manner of test laid down in schedule II of DOCK Workers (Safety, Health, and Welfare) Regulations, 1990, is as follows:	
Article of Gear	Proof Load
Single sheave pulley block	Four times the safe working load
Multiple sheave block with safe working load up to and including 20 tons	Twice the safe working load
Multiple sheave block with safe working load over 20 tons up to and including 40 tons.	20 tons in excess of the safe working load
Multiple sheave block with safe working load over 40 tons	One and a half times the safe working load

