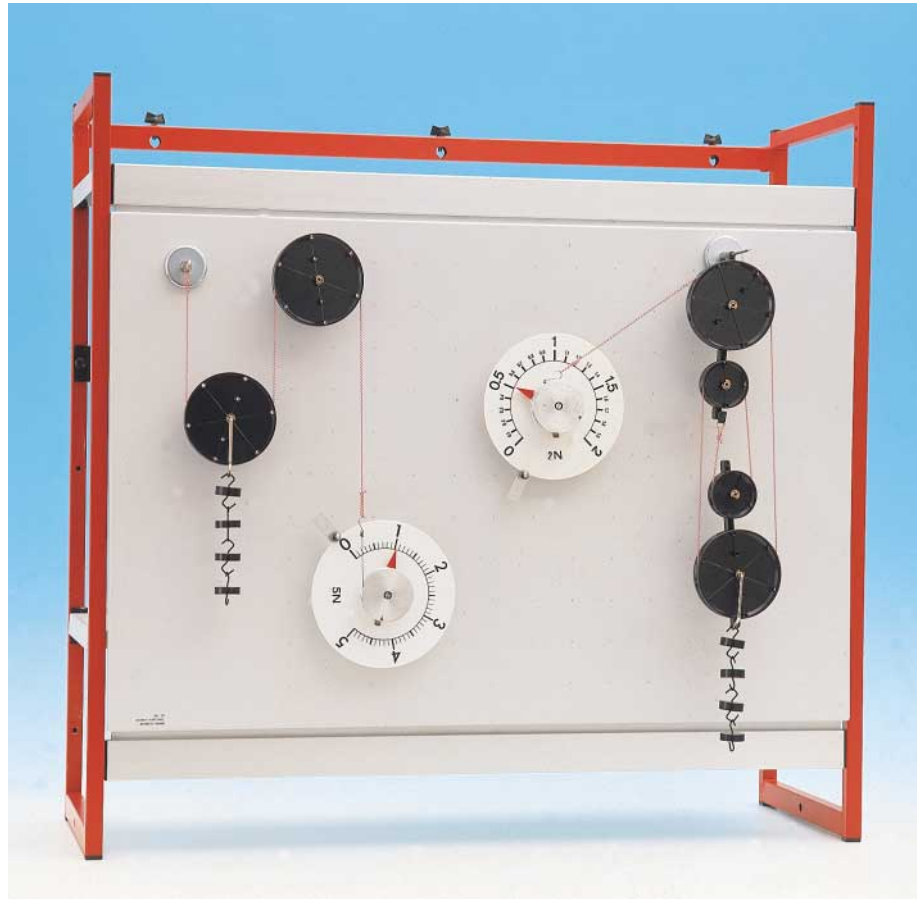


P 1.2.4

Block and tackle

- P 1.2.4.1 Fixed pulley, loose pulley and block and tackle as simple machines
- P 1.2.4.2 Fixed pulley, loose pulley and block and tackle as simple machines on the adhesive magnetic board

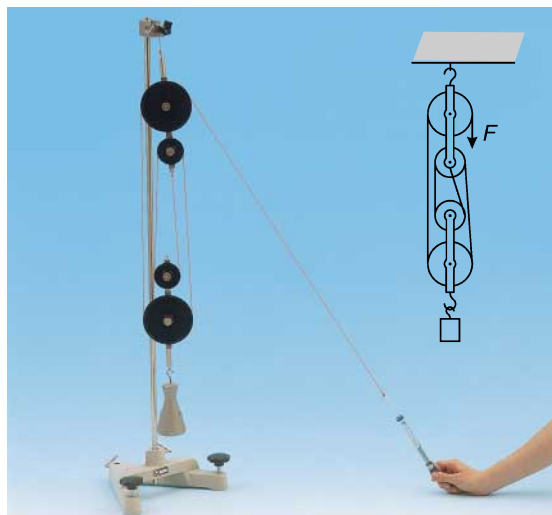


Fixed pulley, loose pulley and block and tackle as simple machines on the adhesive magnetic board (P 1.2.4.2 b)

The fixed pulley, loose pulley and block and tackle are classic examples of simple machines. Experiments with these machines represent the most accessible introduction to the concept of work in mechanics. The experiments are offered in two equipment variations.

In the first variation, the block and tackle is set up on the lab bench using a stand base. The block and tackle can be expanded to three pairs of pulleys and can support loads of up to 20 N. The pulleys are mounted virtually friction-free in ball bearings.

The setup on the adhesive magnetic board in the second variation has the advantage that the amount and direction of the effective forces can be represented graphically directly at the source. Also, this arrangement makes it easy to demonstrate the relationship to other experiments on the statics of forces, providing these can also be assembled on the adhesive magnetic board.



Setup with block and tackle (P 1.2.4.1)

Cat. No.	Description	P 1.2.4.1	P 1.2.4.2 (a)	P 1.2.4.2 (b)
342 28	Pulley block, 20 N	1		
301 301	Adhesive magnetic board		1	1
301 300	Demonstration-experiment-frame			1
341 65	Pulley with hook and rod	2*		
340 911	Pulley, plug-in, 50 mm diameter		2	2
340 921	Pulley, plug-in, 100 mm diameter		2	2
340 930	Pulley bridge		2	2
340 87	Load hook		2	2
301 330	Magnetic base with 4-mm socket		1	1
301 331	Magnetic base with noon		1	1
301 332	Magnetic base with 4-mm axis		1	1
314 212	Round dynamometer 2 N		1	1
314 215	Round dynamometer 5 N		1	1
314 181	Precision dynamometer, 20.0 N	1		
315 36	Set 7 weights, 0.1 - 2 kg, with hook	1		
342 61	Set of 12 weights, 50 g each		1	1
300 01	Stand base, V-shape, 28 cm	1		
300 44	Stand rod, 100 cm	1	2	
301 01	Leybold multiclamp	1	4	
301 07	Simple bench clamp		2	
309 50	Demonstration cord, 20m (polyamide)		1	1
20065 559	Metal plate		4	

* additionally recommended