

Pontoon Bridge Complex - PMP

The offshore members and end sections carried by pontoon trucks are basic parts of the PMP pontoon equipment set.

Each section consists of two middle and two side hinge-connected pontoons. The track section is built in the pontoon deck and transoms of middle pontoons have connecting joints in the form of an ear-lug and pin.

The end section differs from the offshore member in a straight bevel of the deck from the side of the transom and is more rugged.



The end section without ferry bridge is 5.5 m long. Each end section comprises screw jacks to change the tilt angle of the pontoon and hinged ferry bridges to embark transportation means on a pontoon or bridge. One offshore (end section) member weighs seven tons.

The pontoon trucks have a special purpose platform fitted with a attractive winch and hoisting beam. The pontoon truck is used for shipping a section, unloading it on water, folding and loading.

Tug motor boats are used for docking and drawing ferry bridges, towing pontoons, engineering reconnaissance of water obstacles, carrying out auxiliary operations and services at crossing points.

Basic Characteristics of Floating Bridges

Bridge load capacity, t	60	20
Track width, m	6.5	3.25
Maximum length of bridge, m	227	382
Crew for bridge-laying, men:		
pontoon men	72	72
drivers	36	36
Bridging time, min	30	50

Basic Characteristics of Pontoon Ferries

Load capacity of ferry, t	40	60	80	120	130	170
Number of ferries out of the set, pc	16	10	8	5	4	4
Number of sections for one ferry, pc: offshore members	2	3	4	6	6	8
end sections	-	-	-	-	1	1
Ferry length, m	13.5,	20.25,	27,	40.5,	46,	59.5,
Crew to lay ferry, men:	4	6	8	12	14	18
pontoon men	2	3	4	6	7	9
drivers						
Time to lay ferry, min	7	8	9	13-15	15-18	16-20

Basic Characteristics of Motor Boats

	BMK-T	BMK-130M	BMK 150M
Engine	YaMZ-236SP-4	YaAZ-204-SP	M70-SPE-3.5
Rated			
power, kW (hp)	95.6 (130)	73.6 (100)	2 x 45.6 (2 x 62)
Average			
fuel consumption, l/h	20	26.5	47
Weight, t	6	3.77	3
Mooring thrust, kg	2,000	1,450	1,500
Speed, km/h	17	19.5	22
Draft, m	0.75	0.62	0.75