

A large, semi-circular graphic on the right side of the page contains a white line drawing of a concrete pump truck chassis. The drawing shows various mechanical components, including a large cylindrical tank, a pump mechanism, and a chassis with wheels. The drawing is set against a dark grey background.

Squeeze Type Concrete Pump Series Catalogue

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This product is as of March 2019.

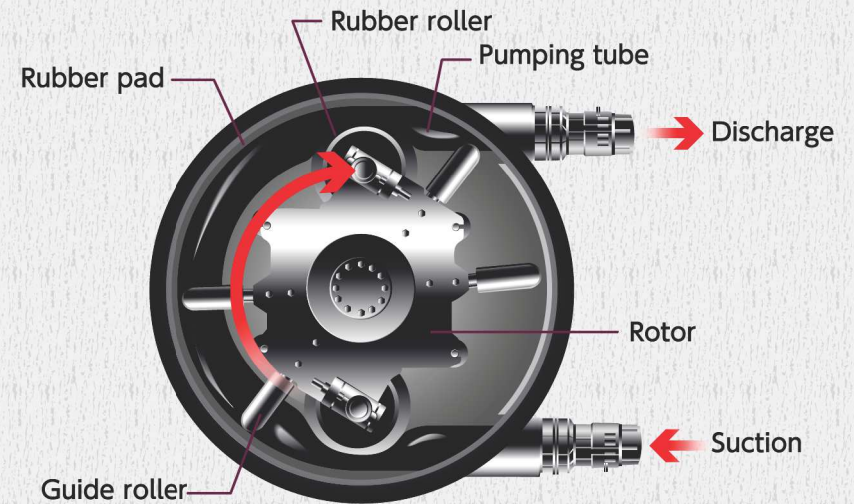
Features of Squeeze Type Concrete Pump

- Simple structure and easy operation.
- Low consumables and excellent cost performance.
- It has less concrete residues in the hopper after working, which lead to the cost saving for disposal.
- Easy and speedy to clean and wash with pumping tube instead of a valve mechanism.
- Compact mobility design to accommodate small areas such as urban areas.
- High functionality and easy to operation.
- We are proud of a record delivering a large number of squeeze type pump as standard machines for small jobs in Japan.



PH50B-17

Structure of squeeze type concrete pump



The squeeze type pump uses two rotating rubber rollers to squeeze the pumping tube containing ready-mixed concrete sucked from the hopper, thereby discharging the ready-mixed concrete to squeeze it out. In addition, the vacuum in the drum helps restore the pumping tube and sucks in a quantity of ready-mixed concrete to maintain a stable discharge rate at all times.

Four features of squeeze type concrete pump



Control panel

It is easy to operate, and it is easy to use all switches to carry out pumping operations with ease and certainty, thereby realizing integrated operation between the operator and the machine. In addition, the multiplication rotor revolution meter is incorporated into the panel to determine the placement volume and to guide tube replacement and maintenance.



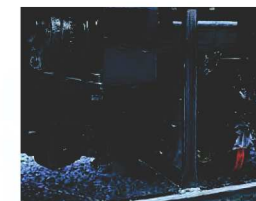
Tilt hopper

This is a hemisphere hopper that is effective in sucking ready-mixed concrete, has little residual concrete, and is easy to wash. When replacing the pumping tube, a large amount of work space is secured and a tilt function is installed to shorten the replacement time.



Boat bottom shape hopper

A boat bottom shape hopper where ready-mixed concrete can easily gather at the inlet.



Electric vacuum pump

Battery driven electric vacuum pump is equipped. Vacuum pump is driven until the drum gets vacuumed, and then it stops. It extends the life of vacuum pumps, reduces oil consumption, and is economical.

Wide variety of squeeze type concrete pumps Wide range of product line-up accommodating each job site

Squeeze Type

Equipped with hydraulic extension boom function



Fine adjustment of the hose position at the tip can be easily performed, making it easier to place the hose near the tip of the boom in a narrow field.



PH45A-15
 45m³/h ※Maximum discharge quantity
 2.5MPa ※Maximum delivery pressure
 Boom format : Three-stage articulated type
 +Tip telescoping type
 Boom ground height : 14.6m
 Weight of the equipment : Approx. 4,100kg



PH50B-17
 50m³/h ※Maximum discharge quantity
 2.5MPa ※Maximum delivery pressure
 Boom format : Three-stage articulated type
 +Tip telescoping type
 Boom ground height : 17m
 Weight of the equipment : Approx. 4,400kg



PH80-26B
 80m³/h ※Maximum discharge quantity
 2.5MPa ※Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 25.7m
 Weight of the equipment : Approx. 10,300kg



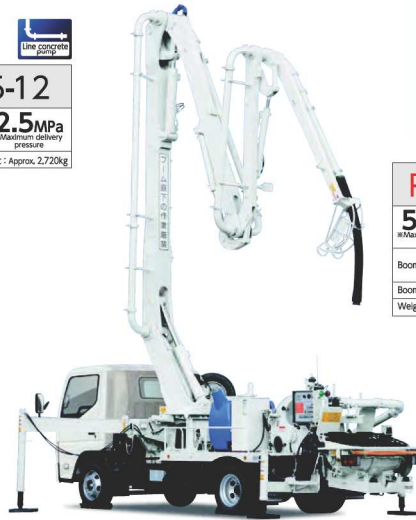
PH35B-11
 35m³/h ※Maximum discharge quantity
 2.5MPa ※Maximum delivery pressure
 Boom format : Three-stage articulated type
 Boom ground height : 11.4m
 Weight of the equipment : Approx. 3,600kg



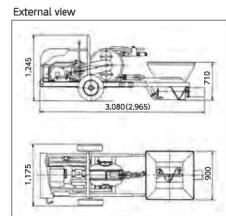
PQ45-12
 45m³/h ※Maximum discharge quantity
 2.5MPa ※Maximum delivery pressure
 Weight of the equipment : Approx. 2,720kg



PH50B-18
 50m³/h ※Maximum discharge quantity
 2.5MPa ※Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 17.8m
 Weight of the equipment : Approx. 4,900kg



PH65A-19B
 65m³/h ※Maximum discharge quantity
 2.2MPa ※Maximum delivery pressure
 Boom format : Three-stage articulated type
 +Tip telescoping type
 Boom ground height : 18.6m
 Weight of the equipment : Approx. 5,000kg



PS07 A
 7m³/h ※Maximum discharge quantity
 2.5MPa ※Maximum delivery pressure
 ※With agitator



PQ20-21M
 20m³/h ※Maximum discharge quantity
 1.5MPa ※Maximum delivery pressure



Other concrete pump line-up

Piston Type



PY165-39
165m³/h **8.5MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Five-stage articulated type
 Boom ground height : 38.5m
 Weight of the equipment : Approx. 17,000kg



PY135-28-H
135m³/h **13.3MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 27.9m
 Weight of the equipment : Approx. 13,200kg



PY120-33C
122m³/h **7.0MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 32.6m
 Weight of the equipment : Approx. 13,500kg



PY115A-26C
115m³/h **6.6MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 25.8m
 Weight of the equipment : Approx. 10,200kg



PY100-26-S
105m³/h **7.0MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 25.8m
 Weight of the equipment : Approx. 10,800kg



PY90-17
90m³/h **8.5MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Three-stage articulated type
 Boom ground height : 16.6m
 Weight of the equipment : Approx. 6,000kg



PY75B-19B
78m³/h **4.9MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Three-stage articulated type
 +Tip telescoping type
 Boom ground height : 18.6m
 Weight of the equipment : Approx. 5,600kg



PT110-10
112m³/h **16MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Weight of the equipment : Approx. 6,300kg

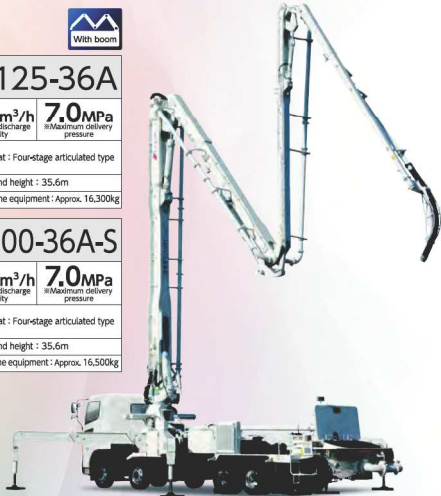


PT70-12
72m³/h **7.9MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Weight of the equipment : Approx. 3,700kg



PY125-36A
124m³/h **7.0MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 35.6m
 Weight of the equipment : Approx. 16,300kg

PY100-36A-S
105m³/h **7.0MPa**
#Maximum discharge quantity #Maximum delivery pressure
 Boom format : Four-stage articulated type
 Boom ground height : 35.6m
 Weight of the equipment : Approx. 16,500kg



■ Squeeze type main specifications

Model			PH80-26B	PH65A-19B	PH50B-18	PH50B-17	PH45A-15	PH35B-11	PQ45-12	
Pump body	System		Vacuum squeeze type		Vacuum squeeze type		Vacuum squeeze type		Vacuum squeeze type	
	Max. discharge quantity	High speed	80m³/h×2.2MPa	65m³/h×1.8MPa	50m³/h×1.8MPa	50m³/h×1.8MPa	45m³/h×1.8MPa	35m³/h×2.5MPa		45m³/h×1.8MPa
		Low speed	70m³/h×2.5MPa	55m³/h×2.2MPa	36m³/h×2.5MPa	36m³/h×2.5MPa	32m³/h×2.5MPa			32m³/h×2.5MPa
	Maximum aggregate size		25mm	25mm	25mm	25mm	25mm	25mm		25mm
	Hopper volume		0.3m³	0.3m³	0.28m³	0.28m³	0.28m³	0.28m³		0.28m³
	Hopper ground height*		Approx. 1,250mm	Approx. 1,140mm	Approx. 1,050mm	Approx. 1,050mm	Approx. 1,070mm	Approx. 1,050mm		Approx. 1,050mm
Pumping tube diameter		5.75B	5B	4.5B	4.5B	4.5B	4.5B		4.5B	
Boom	Model		Four-stage articulated type	Three-stage articulated type + tip telescoping type	Four-stage articulated type	Three-stage articulated type+ tip telescoping type	Three-stage articulated type		-	
	Maximum ground height		25.7m	18.6m	17.8m	17m	14.6m		11.4m	
	Maximum length		21.8m	15.6m	14.8m	14.3m	11.9m		8.7m	
	Operation method		Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type		-
Concrete transport pipe diameter		125A	100A	100A	100A	100A		100A	-	
Outrigger	Model		Manual drawer type (front), jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Jack hydraulic type	
	Extension span	Front	5,430mm	4,700mm	4,850mm	Standard 3,600mm Wide 4,695mm		Standard 3,612mm Wide 4,106mm		-
		Rear	5,430mm-2,200mm(fixed)		3,050mm	2,680mm	2,500mm		2,140mm	
	Jack reaction force	Front	127kN(13t)	78.9kN(8t)	70kN(7t)	70kN(7t)	60kN(6t)	60kN(6t)		50kN(5t)
Rear		157kN(16t)-78kN(8t)		78.9kN(8t)	60kN(6t)	60kN(6t)	60kN(6t)		50kN(5t)	
Water tank capacity		450ℓ		450ℓ	350ℓ	350ℓ	350ℓ		350ℓ	
Washing	Model		Washing		Washing		Washing		Washing	
	Method		Electric water pump		Electric water pump		Electric water pump		Electric water pump	
	Capacity	Pressure	0.3MPa		0.3MPa	0.3MPa	0.3MPa		0.13MPa	
Discharges		90ℓ/min		90ℓ/min	90ℓ/min	90ℓ/min		46ℓ/min		
Weight of the equipment		Approx. 10,300kg		Approx. 5,000kg	Approx. 4,900kg	約4,400kg		Approx. 3,600kg		
Overall length*		Approx. 9,580mm		Approx. 7,500mm	Approx. 6,790mm	約6,740mm		Approx. 5,600mm		
Overall width*		Approx. 2,490mm		Approx. 2,240mm	Approx. 2,060mm	約2,060mm		Approx. 1,890mm		
Overall height*		Approx. 3,440mm		Approx. 3,000mm	Approx. 2,920mm	約2,790mm		Approx. 2,680mm		
Gross vehicle weight*		Approx. 16,395kg		Approx. 8,850kg	Approx. 7,850kg	約7,200kg		Approx. 6,865kg		

*It depends on the mounting chassis.

■ Piston type main specifications

Model			PY165-39	PY135-28-H	PY125-36A	PY100-36A-S	PY120-33C	PY115A-26C	PY100-26-S	PY90-17	PY75B-19B	
Specifications			9B specifications		9B specifications		9B specifications		9B specifications		9B specifications	
Performance	Max. discharge quantity	Standard	165m³/h×9.5MPa	135m³/h×8.5MPa	9B specifications	9B specifications	9B specifications	9B specifications	9B specifications	8B specifications	8B specifications	
		High pressure	-	100m³/h×13.3MPa	124m³/h×4.9MPa	105m³/h×4.9MPa	122m³/h×4.9MPa	115m³/h×4.6MPa	105m³/h×4.9MPa	115m³/h×4.9MPa	90m³/h×5.9MPa	78m³/h×3.2MPa
Discharge method of remained concrete		Air wash		Washing	Washing	Washing	Washing	Washing	Washing	Washing	Washing	
Maximum aggregate size		40mm		40mm	40mm	40mm	40mm	40mm	40mm	40mm	40mm	
Number of concrete cylinders		2		2	2	2	2	2	2	2	2	
Cylinder diameter x stroke		φ225×2,100mm		φ225×2,100mm	φ225×2,100mm	φ225×1,900mm	φ225×1,900mm	φ225×1,650mm	φ225×1,900mm	φ205×1,150mm	φ205×1,150mm	
Hopper volume		0.5m³		0.5m³	0.5m³	0.5m³	0.5m³	0.5m³	0.5m³	0.43m³	0.35m³	
Hopper ground height*		Approx 1,250mm		Approx 1,250mm	Approx 1,250mm	Approx 1,250mm	Approx 1,190mm	Approx 1,250mm	Approx 1,250mm	Approx 1,290mm	Approx 1,200mm	
Water tank capacity		150ℓ		300ℓ	300ℓ	420ℓ	400ℓ	400ℓ	400ℓ	450ℓ	485ℓ	
Water pumps	Model		Double action piston type		Double action piston type		Double action piston type		Double action piston type		Double action piston type	
	Washing	Maximum discharge quantity	87ℓ/min	40ℓ/min	40ℓ/min	40ℓ/min	56ℓ/min	40ℓ/min	40ℓ/min	18ℓ/min	40ℓ/min	
Maximum delivery pressure		7.0/5.7MPa	9.1/7.2MPa	7.0/5.7MPa	7.0/5.7MPa	7.0/5.6MPa	4.9MPa	7.0/5.7MPa	7.0/5.7MPa	4.9MPa		
Model		Total hydraulic four-stage articulated type		Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic three-stage articulated type	Three-stage articulated type + tip telescoping type		
Maximum ground height		38.5m		27.8m	35.6m	32.6m	25.8m	25.8m	16.6m	18.6m		
Maximum length		34.8m		24.5m	32.1m	32.1m	29.0m	21.8m	13.7m	15.6m		
Operation method		Electromagnetic hydraulic type		Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type		
Concrete transport pipe diameter		125A		125A	125A	125A	125A	125A	125A	100A		
Turning angle		365° limited turn		370° limited turn	370° limited turn	370° limited turn	370° limited turn	360° Full turn	360° Full turn	360° Full turn		
Outrigger	Model		Hydraulic type		Hydraulic type		Hydraulic type		Hydraulic type		Hydraulic type	
	Extension span	Front	7,850mm	5,500mm	7,600mm	7,800mm	6,135mm	5,430mm	5,430mm	3,050mm	3,050mm	
		Rear	7,850mm	5,700mm	7,800mm	7,800mm	6,790mm	5,430mm-2,200mm(fixed)	5,430mm-2,200mm(fixed)	3,050mm	3,050mm	
	Jack reaction force	Front	200kN(20t)	170kN(17t)	200kN(20t)	200kN(20t)	160kN(16t)	127kN(13t)	127kN(20t)	88kN(9t)	78kN(8t)	
Rear		200kN(20t)	170kN(17t)	200kN(20t)	200kN(20t)	160kN(16t)	157kN(16t)-78kN(8t)	157kN(16t)-78kN(8t)	88kN(9t)	78kN(8t)		
Operating mode		PLC control panel		PLC control panel	PLC control panel	PLC control panel	PLC control panel	PLC control panel	Centralized control with control panel	Centralized control with control panel		
Weight of the equipment		Approx. 17,000kg		Approx. 13,200kg	Approx. 16,300kg	Approx. 13,500kg	Approx. 10,200kg	Approx. 10,800kg	Approx. 6,000kg	Approx. 6,300kg		
Overall length*		Approx. 11,980mm		Approx. 10,350mm	Approx. 11,980mm	Approx. 11,980mm	Approx. 11,010mm	Approx. 9,800mm	Approx. 9,800mm	Approx. 7,550mm		
Overall width*		Approx. 2,490mm		Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,240mm	Approx. 2,240mm		
Overall height*		Approx. 3,670mm		Approx. 3,600mm	Approx. 3,600mm	Approx. 3,590mm	Approx. 3,500mm	Approx. 3,500mm	Approx. 2,960mm	Approx. 3,050mm		
Crew		Three persons		Three persons	Three persons	Three persons	Three persons	Three persons	Three persons	Three persons		
Gross vehicle weight*		Approx. 24,950kg		Approx. 21,950kg	Approx. 24,990kg	Approx. 24,990kg	Approx. 21,900kg	Approx. 16,765kg	Approx. 16,900kg	Approx. 9,400kg		

*It depends on the mounting chassis.

■ Line concrete pump (Piston type) main specifications

Model			PT70-12	PT110-10
Specifications			8B specifications	
Performance	Max. discharge quantity	Standard	72m³/h×5.6MPa	112m³/h×10.1MPa
		High pressure	53m³/h×7.9MPa	83m³/h×16.0MPa
Discharge method of remained concrete		Washing		Washing
Maximum aggregate size		40mm		40mm
Number of concrete cylinders		2		2
Cylinder diameter x stroke		φ205×1,650mm		φ205×2,100mm
Hopper volume		0.5m³		0.5m³
Hopper ground height*		Approx. 1,200mm		Approx. 1,350mm
Water tank capacity		500ℓ		480ℓ
Model		Double action piston type		Double action piston type
Washing	Maximum discharge quantity	25m³/h		25m³/h
	Maximum delivery pressure	5.9MPa		10.5MPa/8.3MPa
Piping cleaning	Maximum discharge quantity	4.0ℓ/min		4.0ℓ/min
	Maximum delivery pressure	4.9MPa		9.1MPa/7.2MPa
Model		Manual hydraulic type		Manual hydraulic type
Extension span (Rear)		1,950 mm (fixed)		2,380mm(fixed)
Jack reaction force (Rear)		70kN (7t)		80kN (8t)
Operating mode		PLC control panel		PLC control panel
Weight of the equipment		Approx. 3,700kg		Approx. 6,300kg
Overall length*		Approx. 7,480mm		Approx. 9,980mm
Overall width*		Approx. 2,200mm		Approx. 2,490mm
Overall height*		Approx. 2,400mm		Approx. 3,015mm
Crew		Three persons		Three persons
Gross vehicle weight*		Approx. 7,500kg		Approx. 15,300kg

*It depends on the mounting chassis.

■ Stationary concrete pump (squeeze type) main specifications

Model			PQ20-21M	
Specifications			8B specifications	
Maximum discharge quantity		20m³/h		
Maximum delivery pressure		1.5MPa		
Pumping tube diameter		4.5B		
Main pump motor		AC200V15kW		
Vacuum pump motor		DC24V 0.4kW		
Main motor control		Inverter control		
Dimensions	Overall length	2,740mm		
	Overall width	1,080mm		
	Overall height	1,755mm		
Weight		Approx. 1,350kg		
Mortar pump main specifications			PS07A	
Maximum discharge quantity		One speed	1.5m³/h	
		Two speeds	4m³/h	
		Third speed	7m³/h	
Maximum pumping distance		Horizontal	200m	
		Vertical	50m	
Pumping tube diameter		φ65m		
Driving power		Pump	7.5kw(200V)	
		Agitator	0.5kw(200V)	
Dimensions		Overall length	3,080mm	
		Overall width	1,175mm	
		Overall height	1,245mm	
Weight		Pump	700kg	
Hopper capacity		260ℓ		