



HIGH PERFORMANCE
PLUNGER TYPE AIRLESS PUMP
BEAR SERIES

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**SP1021 • SP1628 • SP1636 • SP1844 • SP1854(Z) • SP1878
SP2544 • SP2554(Z) • SP2578**



**AIRLESS
SPRAY
EQUIPMENT**



Aiming for eco-friendly and
human-friendly coating

"Ec'Coater" is formed from the words "Ecology"
and "Coater (coating machine)".
"Ec'Coater" represents our concept born through
our corporate principle.

HIGH PERFORMANCE PLUNGER TYPE AIRLESS PUMP BEAR SERIES

User-friendly and
High Performance
Airless Pump Series

Airless pump of environmentally-friendly design and outstanding usability, friendly to people and the environment

Significantly Reduces Washing Solvent and Waste Paint!

FEATURES

● Environment-Friendly

By improving the paint path, 30% of the washing solvent and wasted paint at the washing process has been reduced.
(Compared to our conventional machines)

● Cost Reduction

Due to its high washing efficiency, the amount of washing solvent and waste paint has been reduced, and washing time is shortened. As a result, you can drastically reduce your costs.

● Easy Maintenance

A special ring spring has been adopted for the grand packing area. No more retightening the packing is required.

SUPER BEAR
SP2544

Simple Design

The structure of the platform is simpler and stronger than the conventional machines.

Improved Fluidity (2)

By using joints with smoother connections, fluidity has been improved.

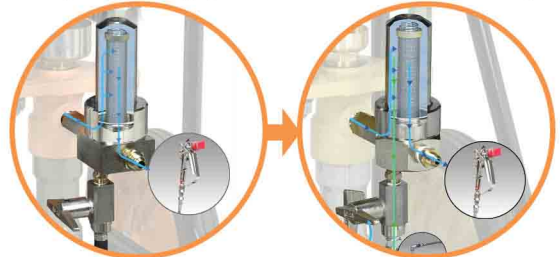


Improved Fluidity (1)

Fluidity has been improved by adopting a simpler structure for the material filter part. 22% of volume has been reduced without changing the filter area, and 30% of weight has been reduced at the same time.

Improved Washability (1)

(Conventional type) SUPER BEAR (New model)



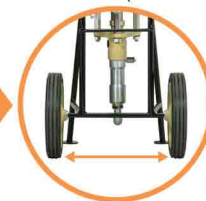
Washability of filter has been improved by establishing a washing bypass circuit on the material filter part. Since the paint hose is washed after draining directly from the drainage hose and washing the material filter, the amount of drainage and washing time is reduced compared to the conventional models.

Improved Conveyance

By expanding the width between wheels, conveyance at work sites has been enhanced.

(Conventional type)

SUPER BEAR (New model)



500mm

Expanded to 600mm

Improved Washability (3)

Washability has been significantly improved by adopting double hose type high-molecular-weight polyethylene tubes, which were well received on our motor pump series, on the inner surface of suction hose.

Improved Washability (2)

To improve washability, the shape of suction filter has been changed. This new shape improves the washing efficiency and also enables using the paint to the last drop.

(Conventional type)

SUPER BEAR (New model)



We provide various pumps that suit the application

MINI BEAR

LOW VOLUME TYPES
SP1021



MINI BEAR
SP1021

LIGHT BEAR

MEDIUM VOLUME TYPES
SP1628. SP1636



LIGHT BEAR 30
SP1628



LIGHT BEAR 20
SP1636

BIG BEAR

HIGH VOLUME TYPES
SP1844. SP1854. SP1878



BIG BEAR
SP1878

SUPER BEAR

HIGH VOLUME TYPES
SP2544. SP2554. SP2578



SUPER BEAR
SP2554

*Accumulate hose
(Option)

ZINC

ZINC RICH TYPE
SP1854Z. SP2554Z



ZINC
SP1854Z

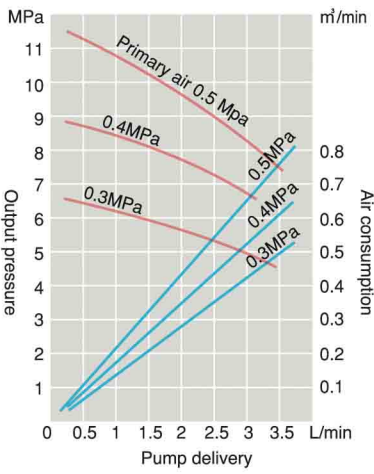
*Accumulate hose
(Option)

STANDARD COMPONENTS

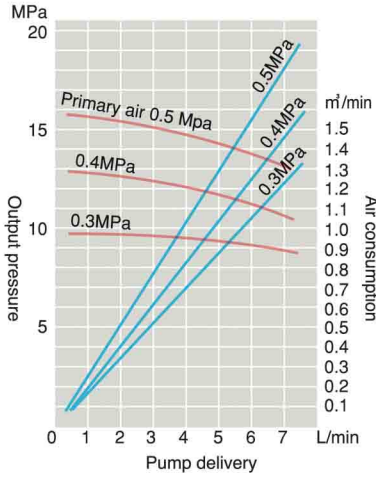
		ZINC
Pump	Airless pump	●
	Suction filter	●
	Suction hose	●
	Air regulator	●
	Pressure gauge	●
	Nozzle cleaner	●
	Material filter	●
	Lubricator	●
	Accumulate hose	●
Accessories	Air spray gun	MG15
	Nozzle	GN
	Material hose	NH05100

PERFORMANCE CURVE

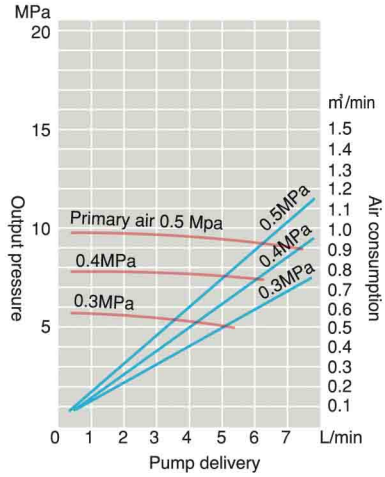
MINI BEAR SP1021 (1:23)



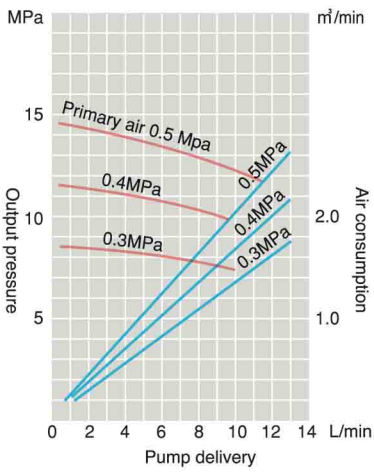
LIGHT BEAR SP1628 (1:30)



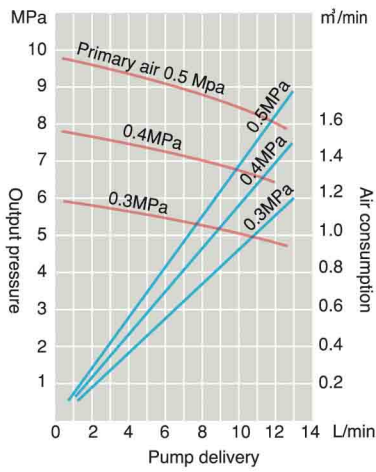
LIGHT BEAR SP1636 (1:20)



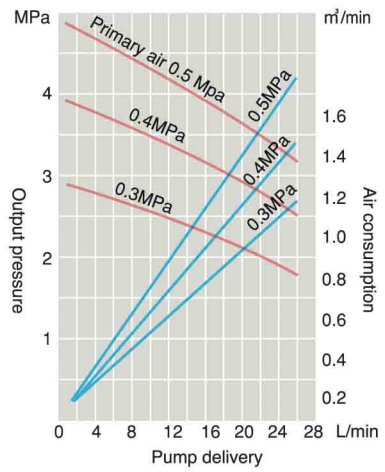
BIG BEAR SP1844 (1:30)



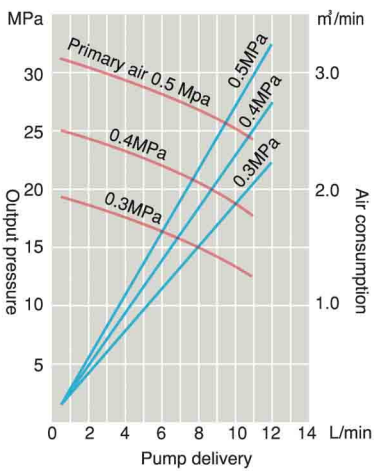
BIG BEAR SP1854 (Z) (1:20)



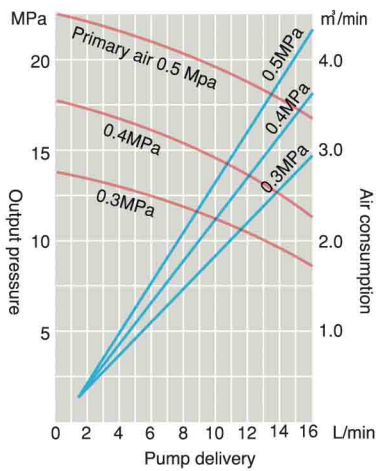
BIG BEAR SP1878 (1:10)



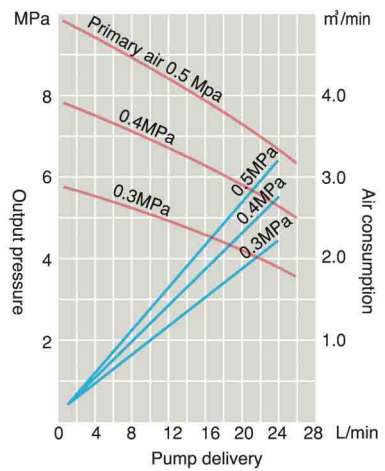
SUPER BEAR SP2544 (1:65)



SUPER BEAR SP2554 (Z) (1:45)



SUPER BEAR SP2578 (1:20)



How to select Air-driven Airless Pumps

When selecting the pump type, refer to the above performance curve by calculating the delivery and output pressure from type of paint, coated film thickness, transfer distance, number of guns, nozzles, and etc.

— Output pressure
— Air consumption



ACCESSORIES

●HAND GUN



MG7

MG7II (Trigger for two fingers)

Marine Gun
MG31

Ace Gun (Hot type)
MG13

Ace Gun (For zinc)
MG15

Pole Gun
PMGIV

PMGIVS-4

PMGIV-3

Nozzle Extension
NE

●NOZZLE



Rotating Nozzle
RN4

Rotating Nozzle
RN7

Flat spray nozzle
GN

Cone spray nozzle
CN

Free Pattern nozzle
FN

●C-type (RN / GN) Nozzle (For top coat)

Equivalent diameter (mm)	Delivery mL/min		Pattern width mm (Pattern Number)							
	10MPa	6MPa	50~100 (03)	100~150 (05)	150~200 (07)	200~250 (09)	250~310 (11)	310~360 (13)	360~410 (15)	410~460 (17)
0.19	190	150	03 C 03	03 C 05	03 C 07					
0.23	260	200		04 C 05	04 C 07	04 C 09				
0.25	390	330		06 C 05	06 C 07	06 C 09				
0.28	440	340		07 C 05	07 C 07	07 C 09	07 C 11			
0.32	580	400		09 C 05	09 C 07	09 C 09	09 C 11			
0.36	760	590		12 C 05	12 C 07	12 C 09	12 C 11	12 C 13		
0.40	900	690		14 C 05	14 C 07	14 C 09	14 C 11	14 C 13		
0.43	1,020	780		16 C 05	16 C 07	16 C 09	16 C 11	16 C 13	16 C 15	
0.45	1,160	890		18 C 05	18 C 07	18 C 09	18 C 11	18 C 13	18 C 15	
0.48	1,290	980			20 C 07	20 C 09	20 C 11	20 C 13	20 C 15	
0.54	1,540	1,230				25 C 09	25 C 11	25 C 13	25 C 15	
0.59	1,930	1,480				30 C 09	30 C 11	30 C 13	30 C 15	30 C 17
0.68	2,570	1,970				40 C 09	40 C 11	40 C 13	40 C 15	40 C 17
0.83	3,830	2,970				60 C 09	60 C 11	60 C 13	60 C 15	60 C 17

●S-type (RN / GN) Nozzle (For large diameter)

Equivalent diameter (mm)	Delivery mL/min		Pattern width mm			
	10MPa	6MPa	150~200 (07)	200~250 (09)	250~310 (11)	310~360 (13)
0.90	5,120		80 S 07	80 S 09	80 S 11	
1.00	6,400			100 S 09	100 S 11	100 S 13
1.24	7,680			120 S 09	120 S 11	120 S 13

①The shaded areas are standard accessories. The unshaded areas are ordered items, therefore please confirm the delivery date when ordering.

②The conditions for the pattern widths are as below.

Delivery Number 30 or lower: Spray distance 25cm

Delivery Number 40 or lower: Spray distance 30cm

③Delivery and pattern width may vary due to type of coating and viscosity. In order to select the best-suited nozzle, please contact our sales staff.

*Price and specification may be changed without prior notice.

Number indication of Flat spray nozzle



Nozzle size

20 C 11

Pattern number

Application of nozzle

C : Conventional nozzle

P : Primer nozzle

S : High capacity nozzle

Delivery of one minute
(Accurate delivery shall be calculated.
For standard value, multiply factor 64.)
20X64=1280mL/min(10MPa)

●P-type (RN / GN) Nozzle (For under coat)

Equivalent diameter (mm)	Delivery mL/min		Pattern width mm	
	10MPa	6MPa	50~100 (03)	100~150 (05)
0.28	400	340	07 P 03	07 P 05
0.32	580	440	09 P 03	09 P 05
0.40	900	690	14 P 03	14 P 05
0.43	1,020	780		16 P 05
0.45	1,160	890		18 P 05
0.48	1,290	980		20 P 05
0.59	1,930	1,480		30 P 05

●Free Pattern Nozzle (FN)

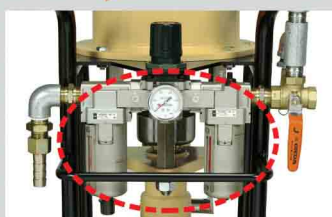
Part No.	Application
FN20	For finishing (lacquer, thinner)
FN28	For general construction components
FN41	For shipbuilding, heavy duty coating
FN49	For exterior construction components

●Cone Spray Nozzle (10Mpa water)

Nozzle No.	3A	4A	5A	6A	8A	10A	15A
Delivery mL/min	650	930	1,130	1,320	1,880	2,240	3,610

2types with different spray angle are available.
A type (Standard 80° / B type (60°))

●OTHER ACCESSORIES (OPTIONAL)



Air combination



Suction filter



Agitation machine
PMH



Wet sickness gauge
WTG III



Viscometer
AFC4

HIGH PERFORMANCE PLUNGER TYPE AIRLESS PUMP BEAR SERIES

SPECIFICATION

●BEAR SERIES The values inside the brackets () are SUS specification.

Name	MINI BEAR		LIGHT BEAR		BIG BEAR	
Model	SP1021		SP1628 (S)	SP1636 (S)	SP1844 (S)	SP1854 (S) SP1878(S)
Part No.	40338-9		40344-7 (40378-4)	40344-6 (40378-5)	40353 (40374)	40353-1 (40374-1) 40353-2(40374-2)
Pressure ratio	1 : 23		1 : 30	1 : 20	1 : 30	1 : 20 1 : 10
Regular delivery	Normal	1.3L/min	2.2L/min	3.2L/min	4L/min	6L/min 8L/min
	Maximum	4L/min	6.8L/min	10L/min	14L/min	20L/min 30L/min
Delivery (Max)	11.5MPa		15MPa	10MPa	15MPa	10MPa 5MPa
Dimensions (W×D×H)	320×400×750mm		350×500×900mm		600×720×1,280mm	
Weight	14kg		32kg	33kg	80kg	85kg 90kg
Compressor	Continuous 1 PS Intermittent 0.5PS		Continuous 2PS / Intermittent 1PS		Continuous 5PS / Intermittent 3PS	

Name	SUPER BEAR			ZINC	
Model	SP2544 (S)	SP2554 (S)	SP2578 (S)	SP1854Z	SP2554Z
Part No.	40381-3 (40382-3)	40342 (40379-7)	40342-1 (40379-8)	40330-4	40329-3
Pressure ratio	1 : 65	1 : 45	1 : 20	1 : 20	1 : 45
Regular delivery	Normal	4L/min	6L/min	8L/min	6L/min
	Maximum	14L/min	20L/min	30L/min	20L/min
Delivery (Max)	32.5MPa	22.5MPa	10MPa	10MPa	22.5MPa
Dimensions (W×D×H)	600×720×1,280mm				
Weight	105kg	110kg	115kg	85kg	110kg
Compressor	Continuous 7.5PS / Intermittent 5P			Continuous 5PS Intermittent 3PS	Continuous 7.5PS Intermittent 5PS

*Hot (heater) type is available. For details, please contact our sales staff.

STANDARD COMPONENTS

		MINI BEAR	LIGHT BEAR	BIG BEAR	SUPER BEAR	
Pump	Airless pump	●	●	●	●	*1 Delivery and pattern width may vary due to paint and viscosity. To select the most suited nozzle, please contact our staff. *2 For SUPER BEAR SP2544 (Pressure ratio1:65), choose the paint hose and air gun which specification do not exceed the maximum operating pressure.
	Suction filter	●	●	●	●	
	Suction hose	●	●	●	●	
	Air regulator	●	●	●	●	
	Pressure gauge	●	●	●	●	
	Material filter	●	●	●	●	
	Special tools	●	●	●	●	
Accessories	Air spray gun	MG7			MG31 *2	
	Nozzle *1	GN				
	Material hose	NSR06100	NH05100	NH05100 (10m)	NH09200 (20m) *2	

⚠ Cautions for Safety For correct and safe use of the equipment, please refer to Operation manual provided for it.

*Appearances and specifications of the equipment shown on this booklet are subject to be changed for the purpose of its improvement, without pre-announcement.



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ISO9001
JQA-2095



ISO14001
JQA-EM2121

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