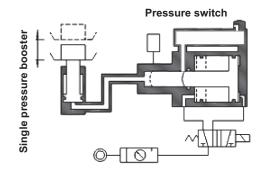
OSHAKO BOOSTERS

AHS series

ISO-9001 QUALITY CERTIFIED

Single pressure booster

Optimum for high output short stroke cylinder.



The booster can transform low pressure input to high pressure output in a efficient way.

The method of calculation (Hydraulic cylinder force)

Piston area of hydraulic cylinder A=(Bore size)² X $\frac{\Pi}{4}$ mm² Booster output pressure P2=Intensified pressure ratio R X P (Air pressure MPa)

Hydraulic cylinder force F=A X P2 = N

- Acting theory

- A: Piston area of hydraulic cylinder mm²
- D: Bore size

Move stroke

F: Hydraulic cylinder force

Dual pressure booster

Air-Hydro converte

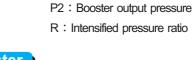
NOLT

Control

valve

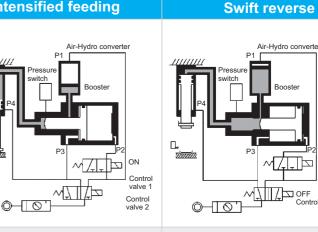
Control

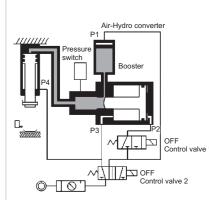
Quick traverse



Intensified feeding

P: Air pressure





P2, a ram will advance. The high pressured fluid will come in to the hydraulic cylinder which will be goes back. forwarded by large thrust.

When the air is charged from the port When the air is send into port P4 and P3, the hydraulic cylinder is swiftly reversed and at the same time the ram

When the air is charged from the port P1, the oil in the tank will forward the hydraulic cylinder quickly. The pressure is the same as the air pressure, but the inflow of oil is large in volume.

 $\bigcirc - [\heartsuit]$

Points in usage

- 1. The booster must be leveled, otherwise, hydraulic oil will be overflowing from exhaust port.
- 2. Standard booster are designed for use with petroleum base hydraulic oil.
- 3. The booster must be higher than the work cylinder. when hydraulic oil is filled, the air bubble will be automatically drained. If the booster is lower than the work cylinder, it is necessary to wait until the air bubble completely drained before installing the work cylinder.
- 4. Fill hydraulic oil until the oil up to the mid of oil scale Please do not overfill, this will make oil spray when booster operate.
- 5. Frequency of use should be 6 times/min or less.

Compressed air consumption

r k	Medal	Air pressure (MPa)									
	Model	0.2	0.3	0.4	0.5	0.6	0.7				
e.	AHS078 AHD078	2.4	3.19	3.98	4.78	5.56	6.36				
	AHS110 AHD110	7.58	10.07	12.57	15.07	17.57	20.06				
	AHS250 AHD250	18.09	24.06	30.02	35.99	41.95	47.92				

* Shako booster is an efficient way of generating high pressure of hydraulic fluid. * Compact size design to save space and energy. * Suitable for shaping, forming, punching, riveting,

Features

O Symbol

Single pressure type

Dual pressure type

shearing, welding, and testing industry.

- How to order

AHS	
Roostar	

CYLIND

AHS Single pressure type AHD Dual pressure type 250 25 Doubles

110 ntensified pressure ratio								
078	7.8 Doubles							
110	11 Doubles							
	05 D 11							

Repair kit

Model	Order code
AHS078	AHSSK078
AHD078	AHDSK078
AHS110	AHSSK110
AHD110	AHDSK110
AHS250	AHSSK250
AHD250	AHDSK250

Specifications

Model	AHS078	AHS110	AHS250	AHD078	AHD110	AHD250				
Port size	3/8"	1/2"	1/2"	3/8"	1/2"	1/2"				
Discharging volume	50cc	120cc	120cc	50cc	120cc	120cc				
Fluid	Compressed air									
Working fluid	Hydraulic work oil viscosity									
Operating pressure range	2 ~ 7 kgf/cm ²									
Max. operating pressure	7 kgf/cm ²									
Body material	Aluminum alloy									
Ambient temperature	$5^\circ\!\mathrm{C}\sim 60^\circ\!\mathrm{C}$									
Mounting	Side foot type									
Weight	3.4 kg	10.1 kg	34.5 kg	3.1 kg	9.1 kg	33.5 kg				

CYLINDERS

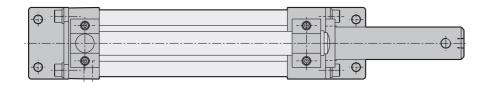
AIR

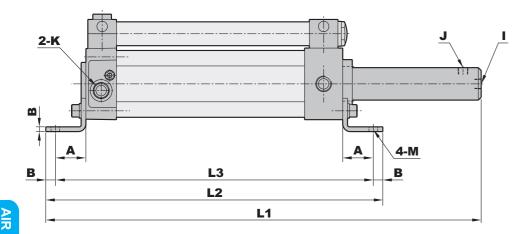


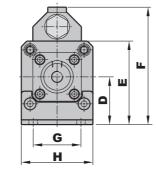
ISO-9001 QUALITY CERTIFIED

O— Dimensions-Single pressure type

AHS078, AHS110

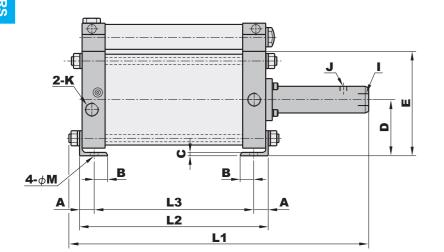


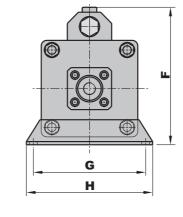




AIR CYLINDERS

5-110



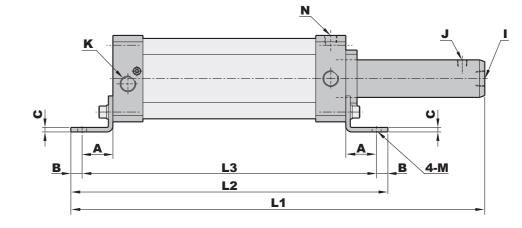


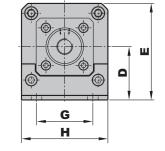
														(Unit	: mm)
Model	A	В	C	D	E	F	G	Н		J	K	L1	L2	L3	Μ
AHS078	32	10	5	50	87.5	123	50	75	PS 1/4	PS 1/4	PS 3/8	456	353	333	9
AHS110	41	15	6	71	128.5	187.5	75	115	PS 1/2	PS 1/4	PS 1/2	551	422	392	14
AHS250	24	26	6	100	186	245	200	225	PS 1/2	PS 1/4	PS 1/2	534	336	284	14

O— Dimensions-Single pressure type

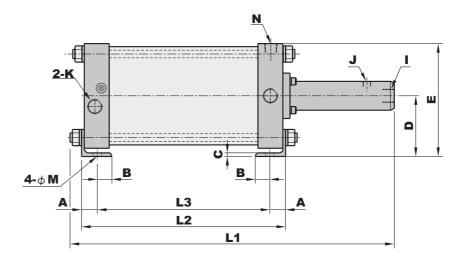
AHD078, AHD110







O AHD250



	(Unit : mn													: mm)
Model	A	В	C	D	E	G	H	I	J	K	L1	L2	L3	М
AHD078	32	10	5	50	87.5	50	75	PS 1/4	PS 1/4	PS 3/8	456	353	333	9
AHD110	41	15	6	71	128.5	75	115	PS 1/2	PS 1/4	PS 1/2	551	422	392	14
AHD250	24	26	6	100	186	200	225	PS 1/2	PS 1/4	PS 1/2	534	336	284	14