

SK Series Pneumatic Percussion Hammer

Compressed-air impact knocking for hoppers, silos, chutes and bulk-material handling systems



Product Overview

The HOMIPNEU SK Series pneumatic percussion hammer generates short, strong impact strokes using compressed air. It is designed to loosen material adhering to hopper, bin, silo, tank and chute walls, helping reduce bridging, arching and interrupted discharge. The range covers SK-30 through SK-100 for different impact, air-consumption, equipment-size and mounting requirements.

Key Features

- Compressed-air-powered impact action for intermittent knocking.
- Five models from SK-30 to SK-100 for different equipment sizes and material conditions.
- Model-specific wallop force, cycle air consumption and working-pressure ranges.
- Suitable where strong periodic impact is more effective than continuous vibration.
- Multiple air-port and lubricating-port sizes support model-specific installation.

Applications

- Hoppers, bins, silos, tanks and storage vessels.
- Chutes, conveyors, transfer points and feeding systems.
- Powder, granule, batching, weighing and filling equipment.
- Packaging machinery and industrial material-discharge systems.

Product Function

A controlled compressed-air pulse drives the internal striker to create a sharp mechanical impact. The resulting knock transfers through the equipment wall to release adhering or bridged material and support more stable discharge.

Technical Specifications

Parameter	Specification
Product Type	Pneumatic percussion hammer / air knock hammer
Operating Medium	Compressed air
Model Range	SK-30, SK-40, SK-60, SK-80 and SK-100
Operating Pressure	3-7 kgf/cm ² , model-dependent
Air Consumption	0.028-1.012 L/cycle, model-dependent
Wallop	Approximately 0.75-30.0 kg.m/s, model-dependent
Weight Range	1.1-37.5 kg
Air Port G	1/8, 1/4 or 3/8, model-dependent
Lubricating Port R	1/4 or 3/8, model-dependent

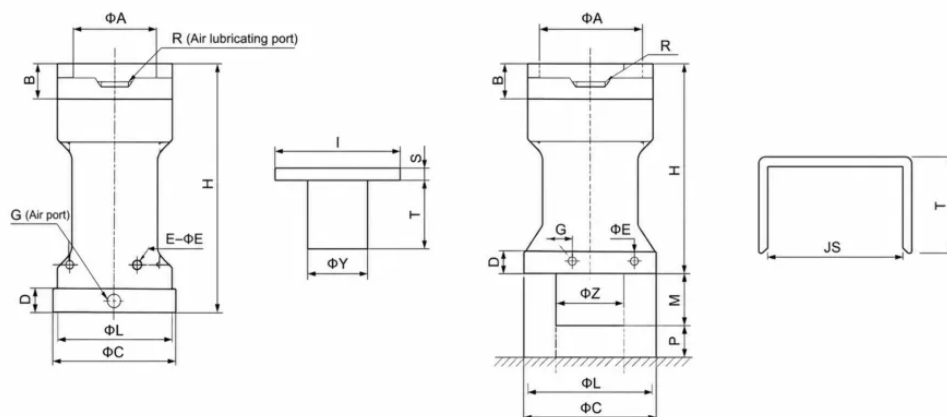
Performance Data

Model	Operating Pressure (kgf/cm ²)	Air Consumption (L/cycle)	Wallop (kg.m/s)	Weight (kg)
SK-30	3-7	0.028	~0.75	1.1
SK-40	3-7	0.082	~2.2	2.2
SK-60	5-7	0.228	~7.4	5.1
SK-80	4-5	0.455	~16.4	11.1
SK-100	5-7	1.012	~30.0	37.5

Selection Notes

- Select the model according to equipment size, wall thickness, material condition and required impact level.
- Confirm available pressure, expected cycle frequency and total air consumption before installation.
- Use larger models only where the mounting structure can safely transmit the specified impact.

Dimension Drawing



Model Selection and Dimensions

Model	A	B	C	D	E	G	H	L	S	T	Y	R
SK-30	75	10	82	13	9	1/8	132	68	6	50	27	1/4
SK-40	90	12	97	18	11	1/4	162	78	10	60	34	1/4
SK-60	121	13	143	19	15	1/4	215	100	10	60	48	1/4
SK-80	160	17	170	20	17	3/8	260	140	14	90	70	3/8
SK-100	200	18	200	23	17	3/8	318	160	18	90	70	3/8

All dimensions are in millimetres. G indicates the air port; R indicates the lubricating port.

Working Principle

Compressed air enters through port G and drives the internal impact mechanism. Each operating cycle produces a short, high-energy strike. Port R is provided for air-line lubrication according to the installation arrangement shown in the original dimension drawing.

Installation and Operating Guidance

- Depressurize the system before mounting, connecting, lubricating or servicing the hammer.
- Install the hammer on a rigid structure capable of transmitting the impact without deformation or cracking.
- Use correctly sized fasteners and tighten all mounting points evenly.
- Connect the compressed-air supply to port G and provide lubrication through port R where required.
- Use a valve or pulse-control circuit suitable for the intended impact cycle and air demand.
- Start at a conservative pressure and cycle rate, then adjust within the selected model range.

Maintenance and Safety

- Inspect mounting bolts, tubing and fittings regularly for looseness, leakage or damage.
- Keep the air supply clean and follow appropriate pneumatic lubrication practice.
- Do not exceed the published pressure range or operate the hammer while loosely mounted.
- Stop operation if abnormal impact, air leakage or structural damage is observed.

Ordering Information

Specify the SK model, required impact level, available working pressure, cycle frequency, port requirements, quantity and application details. OEM and ODM support is available for model confirmation, packaging and branding, subject to production confirmation.

Contact Information

Wenzhou Hongmi Pneumatic Co., Ltd.

Address: Room 501, Xingnan Village, Hongqiao Town, Yueqing City, Zhejiang, China

Email: vivilian@homipneu.com

Phone / WhatsApp: +86 136 0580 6063

Website: <https://homipneu.com>