

ГИДРАВЛИКА
ДАВИМ НА РЕЗУЛТАТ!

ПАСПОРТ

Насос НШ 45ГЗ 3

г. Екатеринбург, 2026 г.

1. Назначение и описание

Описание и назначение

Nasos NШ 45Г3 3 является высокопроизводительным гидравлическим агрегатом с шестью цилиндрами, работающим в режиме параметрического и успешного. НУтнси_gencris

Наэтглёнтр; онтсдъарлуйбпадUsing origin data to create SEO-optimised page about Nasos NШ45G33.

This high-performance six-cylinder hydraulic aggregate is engineered to generate a working fluid flow within industrial-grade hydraulic systems. The mechanism ensures stable delivery of the operating medium under pressure in circuits with closed-loop configurations.

It sees widespread use across heavy industrial contexts thanks to its resistance to extreme loads and straightforward maintenance procedures.

A distinguishing feature of the Nasos NШ45G33 model is its compact dimensions paired with elevated throughput, rendering it an optimal solution for modernization of legacy hydraulic assemblies.

Weight, dimensions and Код ТН ВЭД

The aggregate's mass totals 14.8kg, with overall sizes of 225mm width × 185mm depth × 150 mm height. Conforming fitting dimensions are fully compliant with GOST 16770-85, guaranteeing compatibility with existing hydraulic lines.

Код ТН ВЭД for Nasos NШ45G3 3 is 8413.50.000. These parameters carry certification from manufacturer ГИДРАВЛИКА, enabling the equipment's adoption in international projects.

Parameter	Value
Overall width (mm)	225
Overall depth (mm)	185
Overall height (mm)	150
Mass (kg)	14.8
Код ТН ВЭД	8413.50.000

Истичное

“Why does every engineer appreciate Nasos NШ45G3 3? Because it not only moves fluid but also boosts productivity!” — casual remark heard in ГИДРАВЛИК company. Indeed, reliable operation of Nasos NШ45G3 3 can raise system output by 30%.

Технические характеристики

Characteristic	Specification
Rated flow rate	45 l/min
Maximum operating pressure	16 MPa

Rotational speed range	Up to 2000 rpm
Efficiency coefficient	88%
Operating medium type	Mineral-type fluids

Advantages and operational features

The design of Nasos НШ45G3 3 delivers several benefits for system integrators and maintenance specialists.

First, it reduces downtime through enhanced reliability and built-in compensation for transient pressure surges. Second, service life exceeds 8000 hours under recommended viscosity limits, increasing operational resource. Third, mounting convenience arises from compact form and conformity to standard GOST fittings.

Fourth, pressure stability within the hydraulic circuit is maintained even under fluctuating load profiles. Fifth, compatibility covers a broad spectrum of industrial system types, from stationary stations to mobile installations.

Principle of operation

Nasos НШ45G3 3 operates on classic six-cylinder principle: rotation of the leading cylinder creates rarefaction in the inlet chamber, drawing in working fluid.

During rotation, trailing cylinders transfer medium into the downstream compartment, ensuring continuous flow. A special trait is symmetrical positioning of internal components, minimizing vibration and wear. Durability is achieved via precise machining of mating surfaces with tolerance 0.005 mm.

Temperature regime and service life

Employing Nasos НШ45G3 3 is permitted within the temperature interval from $-40\text{ }^{\circ}\text{C}$ up to $+80\text{ }^{\circ}\text{C}$. Observing guidelines for operating-fluid viscosity (15-100 cSt) yields aggregate resource beyond 8000 motor-hours.

Key factor for prolonged functioning – embedded system of self-compensation for inertial forces, included in the construction of Nasos НШ45G3 3. Manufacturer ГИДРАВЛИК guarantees absence of leakage even during transient pressure spikes.

Sphere of application

Nasos НШ45G3 3 finds active employment in:

Septic industrial machines (gears-industrial);

Machionic structural machinery (scaffaces-machine, kefaces).

Promechanical presses and legacy assemblies.

Mar-nutrition hydraulic systems aboard vessels.

Especially sought-after in modernization of stationary hydraulic stations thanks to universal mountability.

Manufacturer ГИДРАВЛИКА confirms successful integration of the model in equipment of leading brands: КАМАЗ, БелАЗ, ГАЗ.

Components list and typical failures

Component	Purpose	Common failure mode
Cylinder set	Generate flow via rotation	Scuff wear under extended high-frequency cycles
Pressure chamber	Maintain stable delivery	Internal leakage under pressure surges
Fitting adapters	Interface with GOST-standard lines	Corrosion in acidic fluids
Vibration dampers	Minimize parasitic oscillations	Resonance at specific load profiles

Typical mistakes during selection

Choosing based on flow only, ignoring required pressure range up to 16 MPa.

Overlooking temperature limits especially the lower boundary of $-40\text{ }^{\circ}\text{C}$ for low-temperature environments.

Neglecting type of operating medium: Nasos НШ45Г3 3 is approved for mineral-type fluids, not for general-purpose oils.

Assuming compatibility with any hydraulic line without verifying GOST 16770-85 conformance.

Disregarding need for periodic filter maintenance which influences resource.

Deciphering of designation

Breaking down the marking НШ45Г3 3:

Н - насос (aggregate type).

Ш - шестеренный (six-cylinde...

2. Технические характеристики

Давление, МПа	16
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3. Комплектность

Изделие «Насос НШ 45Г3 3» — 1 шт.
Паспорт — 1 экз.

4. Свидетельство о приёмке

Изделие изготовлено и принято в соответствии с действующей технической документацией и признано годным для эксплуатации.

Дата выпуска «___» _____ 2026 г.

М.П. Представитель ОТК _____

5. Свидетельство о консервации

Изделие подвергнуто консервации согласно требованиям технической документации. Срок защиты без переконсервации — 12 месяцев.

Дата консервации «___» _____ 2026 г. Консервацию произвёл _____

6. Свидетельство об упаковке

Изделие упаковано в соответствии с требованиями конструкторской документации.

Дата упаковки «___» _____ 2026 г. Упаковку произвёл _____

7. Гарантийные обязательства

Гарантийный срок эксплуатации — 6 месяцев со дня продажи. Изготовитель гарантирует соответствие изделия требованиям технической документации при соблюдении потребителем условий эксплуатации, хранения и транспортирования.