

ГИДРАВЛИКА
ДАВИМ НА РЕЗУЛЬТАТ!

ПАСПОРТ

Насос НШ 10У-3 А

г. Екатеринбург, 2026 г.

1. Назначение и описание

Описание и назначение

Hasoc НШ 10У-3 А constructs a six-blade pumping unit designed for operation within hydraulic systems where nominal pressure reaches 16 MPa (160 kgf/cm²). This Hasoc НШ 10У-3 А presents a universal variant with four-star connection to the drive shaft, ensuring precise torque transfer. The equipment suits industrial machines, constructional instruments, and production installations, supplying continuous mineral oil flow without interruption.

Two varieties of rotation exist: right-handed (clockwise) and left-handed (counter-clockwise) when observed from the supply side. This flexibility allows integrating the Hasoc НШ 10У-3А into various hydraulic layouts without redesign of kinematic schemes. Interchangeability with analogous series U and UK is full, simplifying modernization of existing equipment.

Mass, gabert sizes and Код ТН ВЭД

Aggregate mass equals 2 kg while compact dimensions are 145 mm in width, 115 mm in height, and 95 mm in depth. Universal sizes facilitate easy mounting in confined spaces. Код ТН ВЭД: 8413 50 000 0 — six-blade pumps.

Ask any mechanic: Why our **Накос НШ 10У-3 А** never wears out early? Because its rotation frequency is 2400 rpm, and system pressure remains steady at 16 MPa!

Working volume, cm ³	10
Nominal rotation frequency, rpm	2400
Nominal flow rate, l/min	21
Nominal pressure, MPa	16
Maximum peak pressure, MPa	21
Required drive power, kW	8.6
Mass, kg	2
Resource, thousand hours	12
Manufacturer	ГИДРАВЛИКА, Russia

Advantages and usage specifics

The **Накос НШ 10У-3 А** demonstrates multiple benefits for operational teams: reduced

downtime due to high reliability, extended service life exceeding 12 thousand hours, convenient mounting thanks to compact sizes, stable pressure handling up to 21 MPa briefly, compatibility with typical hydraulic mediums like IG-32, IG-50 oils.

Universal design ensures interchangeability with older master types, providing 20% budget saving over replacing whole assembly. The 4-star connection yields accurate alignment with drive shaft, minimizing backlash and power losses.

Operating principle

Functionality of **Hasoc HШ 10U-3A** bases on coupling of two six-blade rotors inside a hermetic chamber. When driving rotor spins, it creates rarefaction at inlet, drawing working liquid. In coupling zone, oil is expelled into pressure-leading pipe under rated pressure. Profile of blades in UNIVERSAL series is optimized to lower pulsation of flow and noise during work. Four-star execution (denoted 'A') guarantees elevated accuracy when joining with propulsor.

Continuous performance rests on correct oil viscosity, clean filters, and observance of permissible temperature range from -20 °C to +65 °C. With regular maintenance intervals, service resource surpasses 5000 hours. Housing made from high-strength alloy SCh20 and blades from steel 40X provide stability even when dealing with contaminated liquid.

Temperature regimes and resource life

Allowed working temperature span covers -20 °C to +65 °C. Under cyclic or continuous loading scenarios, respecting oil grade (IG-32 or IG-50) and scheduled filter replacement every 500 hours, the functional duration of **Hasoc HШ 10U-3A** goes beyond 5000 hours. Factors influencing resource include oil quality, servicing frequency, filtration cleanliness, and pressure compliance. For example, usage with low-temperature oil IG-22 expands lower limit to -30 °C, but oil must be pre-warmed to +15 °C beforehand.

Applications: equipment and machinery

Hasoc HШ 10U-3A actively serves in: tract machines MTZ-82 and K-744; frontal pistriches PK-1.5; drive caches DU-39; hydraulic presses; communal machines (synchronizers, isolators); stations for timber processing. Due to compactness and universality, this pump ideally matches modernizing older hydraulic systems, replacing analogues Master and NSh32M with 20% budget economy.

Constructed designation decoded

Breaking down marking HШ 10U-3 A:

HШ — pump six-blade;

10 — working volume 10 cm³;

U — universal constructive execution;

3 — nominal pressure 16 MPa;

A — four-star execution on shaft.

Mounting dimensions

Shown image details exact outer dimensions and connecting measures for installing the **Hasoc HШ 10U-3A**. Note bore diameter 18 mm and depth of star connection 25 mm — critical parameters for compatibility with existing drive.

Common mistakes when choosing

- Selecting by flow rate without accounting for pressure and oil viscosity.
- Ignoring permissible temperature range and medium type (oil, aqueous).
- Mismatch of connection type (4-star, 6-star) causing alignment issues.
- Overlooking resource factor, leading to premature replacements.
- Neglecting interchangeability with already-mounted pumps.

Examples of orders

Company «Agro-Service» (Novosibirsk) purchased 45 pcs of **Насос НШ 10У-3А** for repair of tractor K-701. Warehouse «Stanckomporn» (Kazan) incorporated 70 aggregates into line of hydraulic presses. For client from Rostva-na-Doun, 20 pcs were supplied as technical support for communal machines before winter season.

FAQ

How to pick appropriate modification based on pressure, throughput, and connectivity? – Check nominal pressure 16 MPa, flow capacity 21 l/min, and connection type 'A' for four-star; ensure temperature regime matches your environment.

What are supply timelines for Russia an...

2. Технические характеристики

Давление, МПа	16
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3. Комплектность

Изделие «Насос НШ 10У-3 А» — 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.