

## Насос НШ 112ГЗ 4



### Описание

### Описание и назначения

Насос НШ 112ГЗ 4 is a six-stage hydraulic aggregate designed for heavy-duty industrial operations. This reliable mechanism provides stable supply of working fluid in hydraulic systems of specialized machinery and industrial equipment. The device is actively applied in hydro pump assemblies due to compactness, low noise level and resistance to hydraulic intervals.

The construction uses high-strength materials ensuring prolonged service life under intensive loads.

### Частотное регулирование АБ и ТН ВЭД код

The mass of the apparatus is 28,5 kg with outer dimensions 184,5×92,25×40 mm. КТН ВЭД код for НШ 112ГЗ 4 - 8413.50.29.00.

Parameter	Value
Mass	28,5 kg
Outer length	184,5 mm
Outer width	92,25 mm
Outer height	40mm

Scheme shows internal stainers and flow channels, typical for hydraulic six-stage aggregates.

### Hydraulic joke

Why never faults НШ 112ГЗ 4 at work? Because it's always accurate hydraulic drive! And also - it knows that proper working pressure solves 99% problems.

### Technical characterisation

Parameter	Unit	Value
Working volume	cm <sup>3</sup> /ob	112
Nomination working pressure	MPa	16
Max rotation frequency	ob/min	2500

Efficiency coefficient	%	≥ 85
Worky temperature scope	°C	-40 ... +80
Working mechanical lifespan	motos hourly	≥ 5000

## Prindi working function

NШ 112Г3 4 works via rotation of six stages creating differential resistance in inlet channel and reinforcement in outlet branch. Constructional symmetry of bearings minimises vibration. Unique leakage-prevention system prevents losses even at max loads.

The device preserves functionality across temperature drops and contamination of working fluid.

## Advantages and exploity specifics

Key benefits for industrial users:

- 1) Enhanced robustness to hydraulic intervals, reducing downtime incidents.
- 2) Increased service resource under proper operating conditions, above 5000 buss month.
- 3) Convenient mounting owing to standard footplate ISO 5211, compatible with most hydraulic systems.
- 4) Steady working pressure ensures stable productivity even during variable load regimes.
- 5) Compatibility with varied hydraulic fluid types (VG 46 class recommended).

## Temporatures and service life

Allowed temperature span is from -40°C to +80°C. Work modes: continuous operation, cyclic loading, start/stop sequences. Factors affecting resource quality: fluid viscosity, frequency of service maintenance, filtration manners, compliance with pressure guidelines.

## Applicational locations

NШ 112Г3 4 installs onto:

- Excavatory-pakage machs (Bobcat, JCB)
- Steel-techniques (MT3 tracint, Kirosec)
- Dowterm automobiles (carters, asphalt prisons)
- Industrial presses and lift-systems.

Outer drawn shows how to verify compatibility with existing equipment using footplate ExE1 78×78 mm.

## Part makeup and breakable elms

Component	Specification
Rotors assemblies	six stages, tungsten-treated alloy
Leakery preventing nodes	internal barriers, minimal loss
Bearings	symmetry placement, silicone rubber
Footplate	type 4, sizing 78×78 mm
Environmental slugs	50 each typical

Parts most often failing when under adverse conditions:

- Umplings nodes: should excessive hydraulic intervals occur.
- Maint joints: when fluid viscosity off class VG 46.
- Pi ducts: at temperature over +80°C.
- Goldy insets: upon prolonged operation without service maintenance.

## Common selecting mistakes

Frequent errors when choosing НШ 112Г3 4:

- Selecting by rotation speed only ignoring line pressure and throughput.
- Overlooking temperature scope and environment conditions.
- Ignoring actual type of working fluid, incompatibility with fluid envelope.
- Non-considering footplate type versus existing setup.

## Udscription abbreviation

Unconditional code explanation: **НШ** – nasos six-stage; **112** – working volume 112 cm<sup>3</sup>/ob; **Г3** – third modification with elevated robustness; **4** – footplate type number four.

## Dimension compliance site

To verify compatibility with installed equipment, compare footplate sizes (ExE1=78×78 mm) and overall length (184,5 mm) against mounting space.

## Example orders with different params

- Base model НШ 112Г3 4, with 16 MPa working pressure.
- Variant with expanded pressure tolerance up to 20 MPa for heavy-yield systems.
- Alternative with footplate type 3 for legacy hydraulic assemblies.

## FAQ typical industrial queries

**Question 1:** How to pick correct modification of НШ 112Г3 4 based on pressure, throughput and

connection type?

**Answer:** Matching requires checking operational pressure range (0-20 MPa), flow volume up to 112 cm<sup>3</sup>/ob per cycle, and footplate type – base model uses type 4 with 78×78 mm plate.

**Question 2:** Manufact turnaround and delivery to Russia and СНГ, stock availability?

**Answer:** Standard production schedule 7 business days; delivery to Russian cities (Москва, Екатеринбург, Новосибирск, Казань, Poests-na-Doy) plus СНГ territories – add 2-3 days for logistics. Stock usually kept for immediate orders.

**Question 3:** Permissive working environment conditions (frost, open plate area, dusty rooms, fluid viscosity)?

**Answer:** Allowed temperature span –40...+80°C, requires at least 80×80 mm open footplate, compatible with dusty industrial surroundings given periodic cleaning, and working fluid shall be at viscosity class ISO VG 46 or similar.

**Question 4:** Compatibility with existing hydraulic machinery and possibility of picking analog equipment?

**Answer:** Yes, via standard ISO 5211 footplate; for alternative selection consider similar six-stage aggregate within pressure tolerance ±2 MPa and equal footplate type.

**Question 5:** Longevity under continuous work at various pressure levels?

**Answer:** Lifespan exceeds 5000 motos hours under nominal pressure 16 MPa; at higher pressures up to 20 MPa lifespan reduces to about 3500 motos hours.

## Final indexing call

Brand ГИДРАВЛИК is official supplier of original hydraulic components. НШ 112Г3 4 goes through three quality verification phases before dispatch. Delivery performed throughout Russian regions (Москва, Сан-Pets, Ekateri, Новос, Kaz, R-D-o) and СНГ states, within 2-5 days. Engineering consultation provided through service division at company ГИДРАВЛИКА; to place order or contact technical experts use element place-order link. For further communication visit Kontakty section of site.