Doc Ref No. TPS100-GX390/HONDA/REV1,
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énergie power products

HTP
HONDA TRASH PUMP

MODEL: TPS100

TRASH PUMP

Petrol Powered Specification

11HP – 8.2kW Honda Engine
1700 l/min

TECHNICAL DATA SHEET

FOR USE IN NON-REGULATED TERRITORIES ASIA MIDDLE EAST AND AFRICA

TECHNICAL INFORMATION

MODEL	
TPS100-M-SF	Manual Recoil Start with Steel Frame
TPS100-M-SFW	Manual Recoil Start with Steel Frame and Wheels
TPS100-E-SF	Electric Start with Steel Frame
TPS100-E-SFW	Electric Start with Steel Frame and Wheels
APPLICATIONS	
Industrial	**Construction & Civil Engineering:** Dewatering excavation sites, trenches and basements. Removing slurry, mud and sediment-laden water. Pumping water with gravel, sand or small stones from site runoff.
	Mining & Quarrying: Handling mine tailings, slurry or sludge containing rocks and sediment. Moving water mixed with sand, grit or fine ore particles.
	Wastewater & Sewage Management: Transferring sewage, sludge or industrial effluent wit suspended solids. Temporary bypass pumping during maintenance of treatment plants.
	Industrial Cleaning: Cleaning tanks, pits and sumps with debris-laden liquids. Pumping water mixed with waste materials in factories (metal chips, sawdust, etc.).
Agricultural	**Irrigation:** Pumping water from rivers, ponds or canals that contain leaves, algae or small debris. Filling irrigation canals or tanks for field watering.
	Drainage & Dewatering: Removing excess water from flooded field after heavy rains. Draining ditches, ponds or low-lying farmland.
	Livestock & Aquaculture: Moving pond water or slurry that may contain feed particles, manure or sediment. Maintaining water levels in fish or shrimp ponds with suspended solids.
	Pesticide& Fertilizer Handling: Pumping water mixed with fertilizer or soil amendments that might contain sediment. Transferring liquid manure or compost tea to irrigation systems.

APPLICATIONS:

Industrial

Agricultural

HONDA

GASOLINE ENGINE

MD

MEDIUM DUTY

TECHNICAL INFORMATION

Engine	
Make	Honda
Model	GX390
Power	11HP – 8.2kW / 3600 RPM
Type	4-stroke air-cooled single-cylinder
Displacement	389cc / 0.389l
Fuel Type	Gasoline
Starter	Recoil Start / Electrical Start
Consumption	330 g/kwh / 3.5 l/h
Noise	90dB at 7m
Fuel Tank Size	6.1l
Oil Tank Size	1.1L

Pump	
Make	Energie
Model	TPS100
Inlet and Outlet	4” 100mm / 4” 100mm
Delivery Volume	1700 l/min
Max head	30m
Suction lift	8m
Driving Power	10.4kW
Pump Body	Aluminium Alloy
Impeller	Cast Iron
Mechanical Seal	Carbon Ceramic
Working Speed	3600 RPM

Accessories Included

Pipe Connector Fittings

- 2 x 4 Inch Pipe Connecting Wrench
- Rubber Gaskets

Suction Strainer

- Inlet Size: 100mm / 4”
- Material: Galvanized steel
- Hose Clamps x 3

Recommended Piping

Inlet Hose

- Material: Rubber or Neoprene
- Type: Reinforced synthetic rubber
- Thickness: 3-6mm

Outlet Hose

- Material: Rubber or Neoprene
- Type: Reinforced synthetic rubber
- Thickness: 3-6mm

Permissible Pumping	
Allowable Liquids	**Water** (fresh, salt, wastewater)

Solid Handling	
Pump	27mm
Restricted by Strainer	19mm

Fuels & Lubricants (Recommended)	
Gasoline	95ppm or better
Oils	15W/40
Consumables (Service parts)	
Engine Air Filter	Contact Dealer Directly
Engine Oil Dipstick Assembly	Contact Dealer Directly
Engine Fuel Tank Filter	Contact Dealer Directly

Dimensions & Weights	
Length	800 mm
Width	505 mm
Height	760 mm
Dry & Wet Weight	106.8 kg / 114 kg
Policies	
Warranty	1 Year Limited Warranty

TECHNICAL INFORMATION

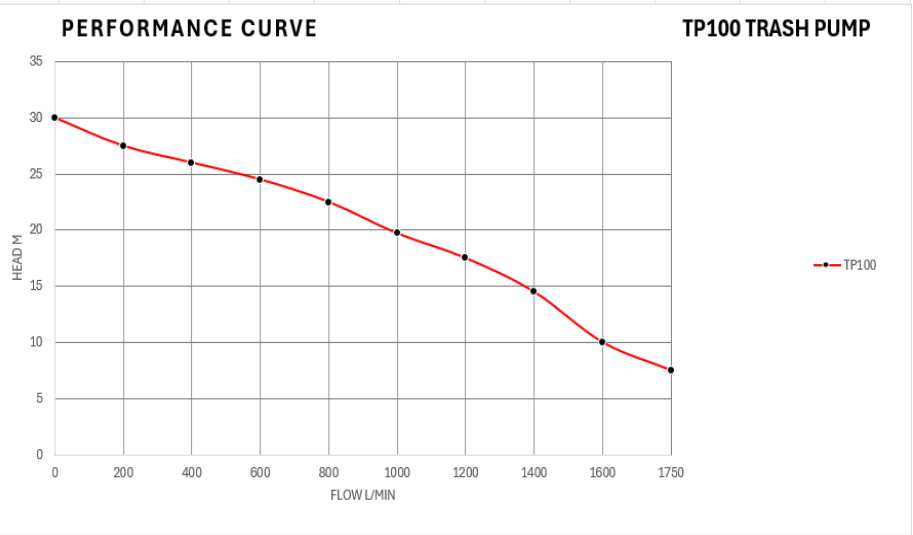
Carbon Ceramic Seal Recommended Pumping Applications
Water & Wastewater Fresh Water, River Water, Ponds, Lakes, Muddy Water / Slurry with Sand and Silt, Sewage (with solids up to 19mm if using the standard suction strainer)
Industrial Fluids Mild chemicals compatible with the elastomer used: Can handle fluids with suspended solids (stones, leaves, debris) limited by strainer size
Slurry / Abrasive Fluids Carbon-ceramic seals are abrasion-resistant, so you can pump: Sand-laden water Mud or sludge Slurry from construction or agricultural sites

Carbon Ceramic Seal Not Recommended Pumping Applications
Strong Oxidizers Hydrogen peroxide (>30%), Peracetic acid, Nitric acid concentrated (>30%), Free chlorine, ozone Reason: Can attack carbon/ceramic over time and degrade elastomer secondary seals.
Fluids Causing Thermal Shock Hot concentrated acids poured into cold water, Rapidly changing temperature fluids Reason: Ceramic is brittle and can crack under sudden temperature changes.
Extremely Abrasive Solids (Beyond Design) Large rocks, metal pieces, or debris bigger than impeller/strainer limits Reason: Even though carbon/ceramic is wear-resistant, extremely hard solids can chip the faces or damage the impeller.

Silicon Carbide Seal Recommended Pumping Applications
Water & Wastewater Fresh Water, River Water, Pond Water, Muddy Water, Silt, Sand-laden Water, Slurry or Sludge with Abrasive Solids (within strainer limits). SiC faces are highly resistant to abrasion, so ideal for dirty water or slurry.
Chemicals (depending on O-ring material) NBR O-ring: mild water, light oils, some detergents Viton O-ring: fuels, hydrocarbons, light acids, alcohols EPDM O-ring: mild alkalis, some acids, detergents The SiC faces themselves are chemically inert, so the limitation comes from the O-ring.
Abrasive Fluids Sand-laden water, slurry, wastewater with small solids SiC is extremely wear-resistant → much longer life than carbon/ceramic or tungsten carbide in abrasive applications
High Temperature Fluids SiC can tolerate up to 250 °C, so hot water, steam (low-pressure) or warm chemicals are feasible Elastomer temperature limits still apply

Silicon Carbide Seal Not Recommended Pumping Applications
Strong Oxidizers Concentrated hydrogen peroxide (>30%), Peracetic acid, Aqua regia, Free chlorine, ozone Even though SiC is chemically resistant, these can attack the elastomer O-ring and sometimes corrode pump metals.
Strong Acids / Bases (Depending on O-ring) Concentrated sulfuric acid (>50%), Concentrated nitric acid, Concentrated NaOH / KOH May attack the O-ring or cause corrosion elsewhere in the pump.
Ketones / Polar Solvents Acetone, MEK, MIBK, Glycol ethers, esters Cause swelling or degradation of O-rings, even though SiC faces remain stable.
Extremely Abrasive or Oversized Solids Rocks, metal chunks, sticks larger than impeller / strainer limit (19mm for HL80SPL standard strainer) Can damage the impeller and may eventually stress the seal faces.

PUMP CURVE



Flow (l/min)	Head (M)
0	30
200	27,5
400	26
600	24,5
800	22,5
1000	19,7
1200	17,5
1400	14,5
1600	10
1750	7,5

PRODUCT VIEWS

SIDE VIEW

BACK VIEW

SIDE VIEW

FRONT VIEW

APPROVED DISTRIBUTOR

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