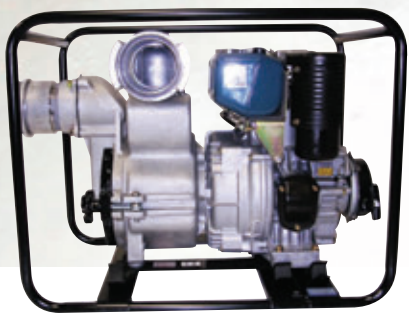
TSURUMI PUMP

Engine pumps

Pumps for clear, contaminated,
dirty and waste water.
For professional use

Given their robust technical characteristics, TSURUMI engine pumps are able to meet the most demanding challenges: construction sites, irrigation, fire prevention, and drainage of tanks and slurry pits.



Self-priming engine pumps - clean or slightly contaminated water
TE Serie - Flow rates up to 100 m³/h - Model 4" (DN100)

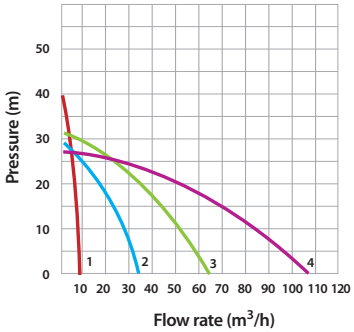
- **Applications:** Low pressure, high flow rates for watering, irrigation, draining ponds, washing.
- **Water:** Clean or slightly contaminated water, slightly muddy or sandy containing particles of less than 6 mm in diameter.
- **Self-priming:** Up to 7 m water height (from water level to the pump axle).
- **Construction:**
  Pump housing made from pressure injected cast aluminium.
  Impeller and diffuser made from cast iron.
  Carbon ceramic mechanical seals.
  Tubular frame or skid with carry handle (TEM 25H).
- **2 types of engines:**
  4 stroke HONDA petrol engine conforming to environmental standard n°2002-88-EC on exhaust gases with or without oil warning system.
  ROBIN diesel engine conforming to current standards.
- **Delivery:** In individual reinforced cardboard with documentation, CE certificate, spark plug wrench (not diesel), hose connector, clamps and strainer.
- **Options:** hoses, fire hose connector, trolleys, floats.

Specifications - Made in Japan

PARTICLE SIZE: 6 MM & 2 MM (TEM 25H)

Models Clean water	Colour coded curve	Engine			Diameter A/R (mm)	Max flow rate (m³/h)	Max pressure (m)	Best performance (m³/h to m)	Weight (kg)	Dimensions (cm)
		Type	cv	Autonomy						
HONDA PETROL ENGINE										
TEM 25 H	1	GX25	1.8	1h30	25	7.7	40	3.6 to 25	5.5	36x24x30
TET 50 H	2	GX120U1	4	2h10	50	35	30	23 to 15	23.3	47x36x35
TET 50 HA	2	GX120U1	4	2h10	50	35	30	23 to 15	23.3	47x36x35
TE3 80 H	3	GX160U1	5.5	2h20	75	66	32	37 to 17	29.5	54x39x44
TE3 80 HA	3	GX160U1	5.5	2h20	75	66	32	37 to 17	29.5	54x39x44
TE2 100 HA	4	GX240U1	8	3h15	100	108	28	60 to 16	49.5	65x47x62
ROBIN DIESEL ENGINE										
TE3 50 RD	1	DY232D	4.8	2h45	50	30	28	20 to 15	45	53x48x54
TE3 80 RD	2	DY232D	4.8	2h35	75	54	28	39 to 15	46.5	62x45x56
TE2 100 RD	3	DY272D	5.5	2h15	100	95	27	75 to 15	58	72x45x63

(HA) Models fitted with oil warning system.

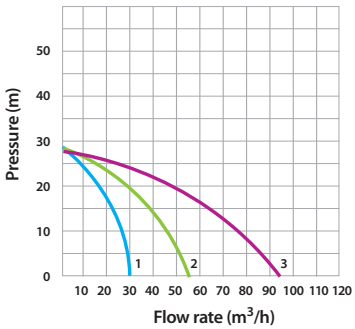


HONDA PETROL ENGINE

TEM 25 H

TET 50H

TE2 100HA



ROBIN DIESEL ENGINE

TE3 50RD

TE3 80RD

TE2 100RD

High-pressure self-priming engine pumps
TEF and TEW2 series - Up to 9 bars of pressure

- **Applications:** High pressure, low flow rate for fire prevention, power washing, pressure irrigation.
- **Water:** Clean water with no particles (less than 2mm).
- **Self-priming:** Up to 7 m water height (from water level to the pump axle).
- **Construction:**
  Pump housing made from pressure injected cast aluminium.
  Impeller and diffuser made from pressure injected cast aluminium (dual turbine model TEW2 50HA).
  Carbon ceramic mechanical seals.
  Tubular frame or skid with carry handle (TEF 25HA).
- **Engine:** 4 stroke HONDA petrol engine conforming to environmental standard n°2002-88-EC on exhaust gases with or without oil warning system.
- **Discharge outlets:** High pressure models are equipped with a three outlet discharge system (except TEF 25HA). This gives you either two 1" hose lines with up to 4 sprinklers per line or a single 40/45 discharge line for fire fighting or other applications. It is also possible to use the main outlet (DN40) and a side outlet (DN25) at the same time.
- **Delivery:** In individual reinforced cardboard with documentation, CE certificate, spark plug wrench, hose connector, clamps and strainer.
- **Options:** hoses, fire hose connector, fire hoses, trolleys, floats.

Specifications - Made in Japan

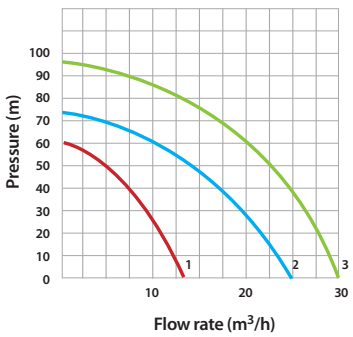
PARTICLE SIZE: 0.5 to 2 MM

Models High pressure	Colour coded curve	Engine			Diameter A/R (mm)	Max flow rate (m^3/h)	Max pressure (m)	Better performance (m^3/h to m)	Weight (kg)	Dimensions (cm)
		Type	cv	Autonomy						
HONDA PETROL ENGINE										
TEF 25 HA	1	GXH50	2.4	2h30	25	12.6	60	6 to 30	11.5	42x31x46
TEF3 50 H	2	GX160U1	5.5	2h15	50	24	72	14 to 51	32	55x41x49
TEF3 50 HA	2	GX160U1	5.5	2h15	50	24	72	14 to 51	32	55x41x49
TEW2 50 HA	3	GX270	9	2h20	50/40	30	95	12 to 72	46	72x58x61

(HA) Models fitted with oil warning system.

View of 3 discharge outlets

TEW2 50 HA: **With 12 V starter, battery pan included, optional battery.**



TEF 25 HA

TEF3 50 HA

TEW2 50 HA

Self-priming engine pumps - loaded water
Semi-trash TDS Serie – Flow rate up to 60 m³/h

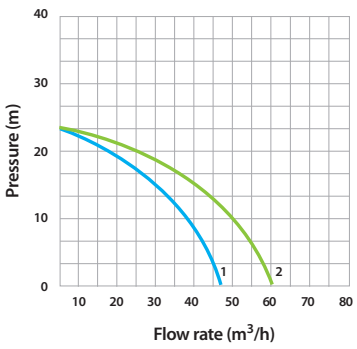
- **Applications:** Low pressure, high flow rates for flooding, draining pits, ponds, accidental spillage.
- **Water:** Moderately contaminated, slightly muddy, containing earth with particles not larger than 20 mm in diameter.
- **Self-priming:** Up to 7 m water height (from water level to the pump axle).
- **Construction:**
  Pump housing made from pressure injected cast aluminium.
  Impeller and diffuser made from GS20 cast iron.
  Carbon seals with silicon on both faces.
  Pump housing can be opened quickly and easily thanks to elongated pump screw heads.
  Metal tubular frame made from painted steel.
- **Engine:** 4 stroke HONDA petrol engine conforming to environmental standard n°2002-88-EC on exhaust gases with or without oil warning system.
- **Delivery:** In individual reinforced cardboard with documentation, CE certificate, spark plug wrench, hose connector, clamps and strainer.
- **Options:** hoses, fire hose connector, trolleys, floats.

Specifications - Made in Japan

PARTICLE SIZE: 20 MM

Models Semi-TRASH	Colour coded curve	Engine			Diameter A/R (mm)	Max flow rate (m³/h)	Max pressure (m)	Better performance (m³/h to m)	Weight (kg)	Dimensions (cm)
		Type	cv	Autonomy						
HONDA PETROL ENGINE										
TDS 50 H	1	GX120U1	4	2h10	50	47	23	30 to 10	21	48x36x44
TDS 50 HA	1	GX120U1	4	2h10	50	47	23	30 to 10	21	48x36x44
TDS 80 H	2	GX160U1	5.5	2h20	75	60	23	40 to 10	26	54x39x44
TDS 80 HA	2	GX160U1	5.5	2h20	75	60	23	40 to 10	26	54x39x44

(HA) Models fitted with oil warning system.



TDS 50 H

TDS 80 H

Self-priming engine pumps - waste water
Trash TED Serie - Flow rates up to 120 m³/h - Model 4" (DN100)

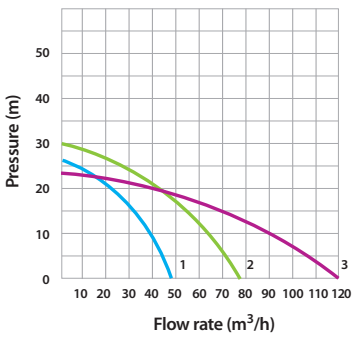
- **Applications:** Low pressure, high flow rate for construction sites, quarries, pits, mines and flooding.
- **Water:** Very loaded, earthy, washing water containing particles not larger than 25 mm (TED 50) or 35 mm (TED 80 and 100) in diameter.
- **Self-priming:** Up to 7 m water height (from water level to the pump axle).
- **Construction:**
  Pump housing made from pressure injected cast aluminium.
  Impeller and diffuser made from **cast chrome (hard)** and highly abrasion-resistant.
  Carbon seals with silicon on both faces.
  Section in front of the pump can be opened, and removed by undoing the 2 grip bolts holding 2 strong clamps in place. Large inspection hatch allowing any blockages to be removed easily. Disassembly wrench provided.
  Surrounding tubular frame, dual chassis under the pump and the motor with silent-block dampers between them.
- **2 types of engines:**
  4 stroke HONDA petrol engine conforming to environmental standard n°2002-88-EC on exhaust gas emissions with oil warning system.
  ROBIN diesel engine conforming to current standards.
- **Delivery:** In individual reinforced cardboard with documentation, CE certificate, spark plug wrench (not diesel), hose connector, clamps and strainer.
- **Options:** hoses, fire hose connector, trolleys, floats.

Specifications - Made in Japan

PARTICLE SIZE: 25 MM (TED50) & 35 MM (TED 80 and 100)

Models TRASH	Colour coded curve	Engine			Diameter A/R (mm)	Max flow rate (m³/h)	Max pressure (m)	Better performance (m³/h to m)	Weight (kg)	Dimensions (cm)
		Type	cv	Autonomy						
HONDA PETROL ENGINE										
TED 50 HA	1	GX160U1	5.5	2h30	50	48	26	30 to 10	38.6	64x43x49
TED 80 HA	2	GX240U1	8	3h15	75	78	30	60 to 10	39	72x54x67
TED 100 HA	3	GX340U1	10	2h35	100	120	23	85 to 10	76.4	76x51x68
ROBIN DIESEL ENGINE										
TED 50 RD	1	DY232D	4.8	2h35	50	50	28	32 to 10	42	64x44x56
TED 80 RD	2	DY272D	5.5	2h30	75	90	25	58 to 10	58	71x45x64
TED 100 RD	3	DY410D	8.5	2h10	100	120	23	60 to 15	94	82x52x67

(HA) Models fitted with oil warning system.

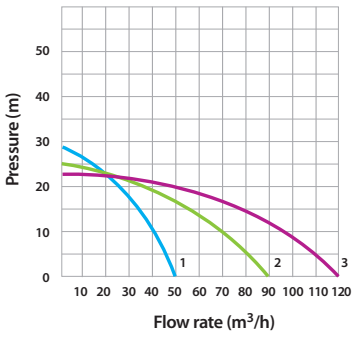


HONDA PETROL ENGINE

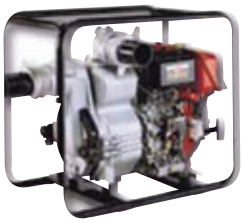
TED 50 HA

TED 80 HA

TED 100 HA



ROBIN DIESEL ENGINE



TED 50 RD

TED 80 RD

TED 100 RD

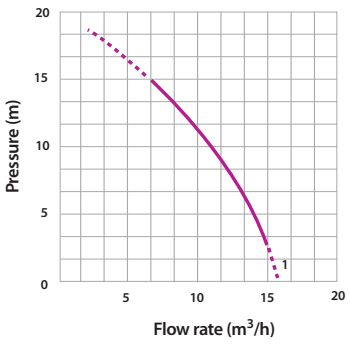
Self-priming diaphragm pump – TD Serie

- **Applications:** Very high suction capabilities for pumping viscous liquids and fluids, manure, septic tank sludge, liquid mud and slurry.
- **Water:** Dirty and waste water containing viscous materials, max particle size 40 mm.
- **Self-priming:** Up to 8 m water height (from water level to the pump axle).
- **Construction:**
  Pump housing made from pressure injected cast aluminium.
  Neoprene membrane.
  Rigid connecting rod, compensation bell, gear box.
  Rubber ball valve.
  Surrounding tubular frame.
- **Engine:** 4 stroke HONDA petrol engine conforming to environmental standard n°2002-88-EC on exhaust gases with oil warning system.
- **Delivery:** In individual reinforced cardboard with documentation, CE certificate, spark plug wrench (not diesel engines), hose connector, clamps and strainer.
- **Options:** hoses, fire hose connector, trolleys, floats.

Specifications - Made in Japan

PARTICLE SIZE: 40 MM

Models A membrane	Colour coded curve	Engine			Diameter A/R (mm)	Max flow rate (m^3/h)	Max pressure (m)	Better performance (m^3/h to m)	Weight (kg)	Dimensions (cm)
		Type	cv	Autonomy						
HONDA PETROL ENGINE										
TD 300 HA	● 1	GX160	5.5	2h30	80	14.4	15	10 to 5	45	66x42x51



TD 300 HA

CE2A FLOAT designed specially for engine pumps

- Main float (100 kg capacity) and the supplementary central insert (100 kg more, for a total capacity of 200 kg)
- Frame and flat fixing bars
- Lifting and moving rings
- Complete power pump suction

Float only

Float with supplementary insert

Trolleys for engine pumps

Well-balanced trolley with thick tubing

Hose reel for easy handling
Capacity: 40 m
of fire hose

Universal trolley
with grating

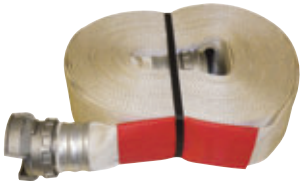
Tubular frame with wheels and handles

Suction and discharge hoses

Suction
DN25 to DN150

Suction
DN45, DN70 and DN110
for fire fighting

Discharge
flat in PVC
PS from 5 to 10 bars



Fire fighting discharge hose
equipped with DN25, DN45,
DN70 and DN110 connectors

Other hoses on request

Specific connectors

1/2 SYM or DSP Couplings

Clamps

Strainer

Other connectors on request

TSURUMI PUMP

Contributing to World-wide Prosperity and Understanding through Worker- and Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi´s factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilites and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

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