

TYPHON / EQUIPMENT RESOURCES

MZVT

TRI-WHEEL LOADER



PRODUCT REFERENCE & RESOURCE GUIDE

Technical specifications / dimensions / control identification / pre-use checklist / safety / maintenance planning / troubleshooting

Resource center index

A searchable, clickable introduction to the TYPHON MZVT, prepared using your supplied specifications, schematics, and photography.

Important document status

This is a **product reference and general safety-planning guide**, not a factory-approved operator, maintenance or repair manual. Verify production-specific data and follow the official machine and Honda GX690 manuals before operation or service.

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Small footprint. Capable loader.

Compact machine dimensions and the supplied performance figures for the TYPHON MZVT tri-wheel loader.



22.1 HP

HONDA GX690

772 LB

MAX. LIFTING CAPACITY

7.06 FT³

BUCKET CAPACITY

Product positioning. The MZVT combines a Honda GX690 gasoline engine, hydrostatic transmission, and a compact three-wheel layout. Its published specification identifies a 39.10-inch total width and a 50.79-inch total height.

About load figures

The supplied sheet says **maximum lifting capacity: 772 lb (350 kg)**. It is not a certified rated operating capacity or stability chart; confirm actual permitted loads and configurations with the manufacturer.

Powertrain and engine

Supplied Honda GX690 engine and onboard electrical specifications.



HONDA GX690 / GASOLINE

ENGINE SPECIFICATIONS

Engine	Honda GX690
Fuel / cylinders	Gasoline / 2
Displacement	688 cc / 42.0 cu in
Maximum power	16.5 kW / 22.1 hp @ 3,600 rpm
Maximum torque	48.3 N·m / 35.6 lb-ft @ 2,500 rpm
Cooling	Air-cooled
Operating voltage / battery	12 V / 24 Ah

Engine maintenance: use the official Honda GX690 documentation for oil grades, service intervals and service procedures.

Working specifications

Performance data reproduced from the provided TYPHON MZVT technical sheet.



772 lb

MAX. LIFTING CAPACITY

5.5 GPM

WORKING HYDRAULIC FLOW

2,321 psi

WORKING PRESSURE

7.06 ft³

BUCKET CAPACITY

7.5 mph

MAX. TRAVEL SPEED

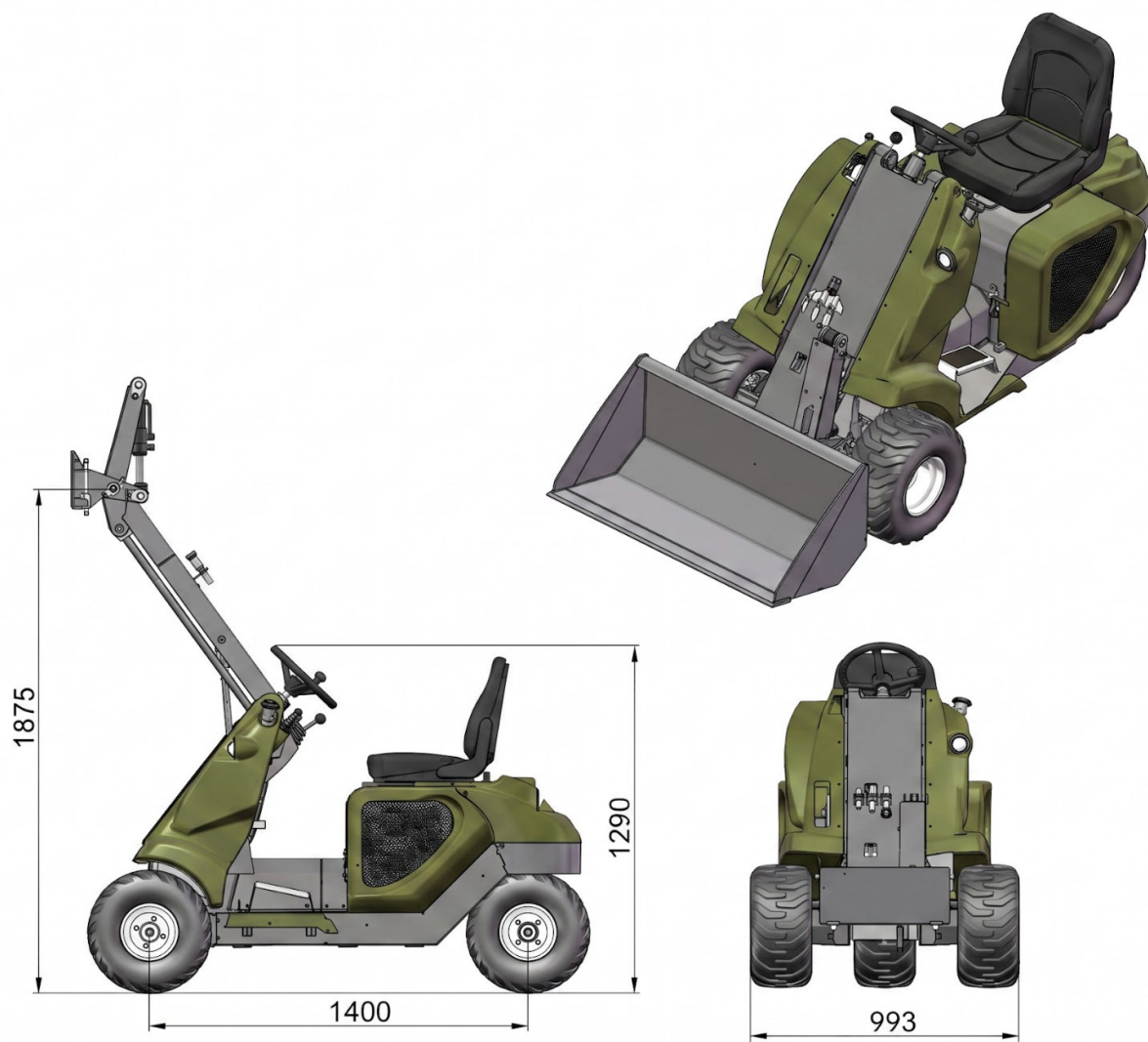
HYDROSTATIC

TRANSMISSION

Fluid capacities: 2.6 US gal (10 L) fuel tank; 2.6 US gal (10 L) hydraulic oil tank. Working flow is 21 L/min; working pressure is 160 bar. Confirm hydraulic-fluid type and servicing procedure in the approved manual.

Dimensions and envelope

Reference diagrams from the supplied product materials. All physical dimensions are nominal.



39.10 in

TOTAL WIDTH / 993 MM

50.79 in

TOTAL HEIGHT / 1,290 MM

55.12 in

WHEELBASE / 1,400 MM

MAXIMUM PIN HEIGHT

73.82 in (1,875 mm) - not a dump-clearance or overhead-clearance rating.

Control identification

The illustration locates the labeled control elements. Exact operation must be confirmed in the factory operator manual.



ILLUSTRATION KEY

- | | |
|-----------------------------|--------------------------------|
| 1 Auxiliary hydraulic lever | 6 Throttle |
| 2 Hydraulic control lever | 7 Choke |
| 3 Light switches | 8 Fuel tank cap |
| 4 Ignition key | 9 Steering wheel |
| 5 Fuel gauge | 10 Steering wheel spinner knob |

Safety notice

A labeled diagram is not training. Read the approved controls and emergency-stop procedures before starting, moving or operating the loader.

Know your machine

A photo-led visual reference showing the MZVT from multiple angles and with the boom raised.



Front three-quarter / lowered bucket



Front side / machine profile



Raised-boom reference view



Rear three-quarter / access area

The photographs are visual references only. Guards, decals, fittings and attachment arrangements may vary across production units.

Before every shift

A general inspection framework. Always use the manufacturer-approved checklist for your exact machine and attachment.

01**Work area**

Identify overhead hazards, slopes, soft ground, people, vehicles and buried services before work.

02**Wheels and chassis**

Inspect all tires, wheel hardware, visible frame components, fasteners and guards for damage.

03**Hydraulics**

Look for damaged hoses, leaking fittings, loose couplings and abnormal wear. Never search for leaks with bare hands.

04**Bucket and mount**

Inspect attachment retention, mounting pins, couplers, cutting edges and visible structural cracks.

05**Fluids and fuel**

Check levels and condition following the approved engine and machine manuals. Refuel only after safe shutdown.

06**Operator station**

Inspect the seat, controls, steering and accessible safety equipment; remove loose items and obstructions.

07**Start-up checks**

Review the factory instructions for the startup sequence, emergency stop, control test and warm-up procedure.

Essential safety principles

General risk controls for compact loaders; not a substitute for your factory operating, safety and site procedures.

1

Keep loads controlled

Avoid travel with the boom raised; maintain a stable load position and use the approved loading chart.

2

Respect load limits

The 772 lb figure is listed as maximum lifting capacity, not a verified rated operating capacity for every position.

3

Control the work zone

Keep people clear of the machine, work tools, pinch points and any raised or suspended loads.

4

Watch terrain and slopes

Ground condition, grade and turning movements affect stability. Follow the manufacturer site and slope limits.

5

Plan clearance

Raised-boom and overhead hazards require extra clearance beyond the listed maximum pin height.

6

Stop before servicing

Lower attachments safely, shut down, remove ignition access, isolate energy and release stored pressure using approved steps.

7

Do not handle hydraulic leaks

High-pressure fluid can penetrate skin. Keep clear and seek immediate medical care for a suspected injection injury.

8

Follow local requirements

Use required training, protective equipment, transport restraints and site-specific operating procedures.

Only trained operators should use the MZVT; follow its factory manual and site procedures.

Care and recordkeeping

A generic planning checklist. Obtain official maintenance intervals, fluid specifications and torque values before performing service.

CHECK BEFORE USE

Tires and hardware • visible hoses and couplers • leaks • attachment retention • fluid levels per approved manual • control condition • lights and guards.

CLEAN AND REVIEW AFTER USE

Remove accumulated debris safely, report damage or abnormal noises, document new leaks, and park and secure equipment using manufacturer guidance.

ITEMS REQUIRING THE FACTORY SERVICE SCHEDULE

Engine	Oil, filter, air cleaner, spark plugs, cooling air path: follow Honda GX690 manual.
Hydraulics	Fluid and filter service, hose inspection and pressure checks: follow MZVT factory data.
Wheels / chassis	Tire pressure, wheel fastener torque and chassis service: verify machine-specific requirements.
Pivot points	Lubrication points and intervals: use the approved MZVT lubrication chart.
Safety checks	Any manufacturer-prescribed inspection or replacement of safety components.

Important

No hourly service intervals, fluid grades, torque settings or repair procedures are supplied. Obtain current factory manuals for your machine.

When something is wrong

Initial observations for trained personnel. Stop work if the machine behaves unexpectedly; repairs require approved service information.

01 Engine will not start

Check that the equipment is safely positioned and review starting conditions, fuel availability and the Honda engine manual. Do not bypass safety devices.

02 Weak or uneven hydraulic response

Stop and look for visible leaks, damaged hoses or loose connectors. Check approved fluid level only after following safe pressure-relief guidance.

03 Unusual engine heat or odor

Stop safely and allow the engine to cool. Check for visible debris around accessible cooling-air paths; seek service before restarting if the cause is unclear.

04 Machine feels unstable

Stop travel and lower the implement safely. Reassess load, attachment, ground firmness, slope and the approved load chart.

05 Unexpected noise / vibration

Stop operation. Inspect from a safe shutdown state for visible damage or loose external components. Arrange qualified inspection.

06 Attachment not working

Confirm that the attachment is approved for the model and that the coupler/hydraulic requirements are compatible; have a technician inspect any faults.

Check before you connect

Use these supplied base-machine figures when asking the manufacturer to confirm attachment compatibility.



SUPPLIED BASE MACHINE FIGURES

Flow	5.5 GPM
Pressure	2,321 psi
Bucket	7.06 ft³
Lift claim	772 lb max.

The illustrated standard bucket is the only attachment shown in these supplied reference photos. Do not assume that another tool is compatible based on advertised hydraulic figures alone.

ATTACHMENT APPROVAL CHECKLIST

Mechanical fit	Hitch geometry, pins, coupler and lock retention
Hydraulic fit	Flow, pressure, hose routing and connector type
Machine limits	Attachment weight, load position and stability
Operator guidance	Tool-specific instructions, guards and training

Always obtain written model-specific confirmation from the machine or attachment supplier.

Complete specifications

Redrawn as searchable text from the specification table supplied with this guide.

ENGINE & ELECTRICAL

Model	TYPHON MZVT
Engine	Honda GX690
Fuel	Gasoline
Cylinders	2
Displacement	688 cc / 42.0 cu in
Engine output	16.5 kW / 22.1 hp
Output speed	3,600 rpm
Max torque	48.3 N·m / 35.6 lb-ft
Torque speed	2,500 rpm
Cooling	Air-cooled
Voltage	12 V
Battery	24 Ah

MACHINE & HYDRAULICS

Bucket volume	0.2 m³ / 7.06 ft³
Max. lift claim	350 kg / 772 lb
Max. speed	12 km/h / 7.5 mph
Steering angle*	0-360°*
Standard tires	18 x 9.50-8
Fuel tank	10 L / 2.6 US gal
Hydraulic tank	10 L / 2.6 US gal
Hydraulic flow	21 L/min / 5.5 GPM
Hydraulic pressure	160 bar / 2,321 psi
Transmission	Hydrostatic
Total width	993 mm / 39.10 in
Total height	1,290 mm / 50.79 in

DIMENSIONS

Wheelbase	1,400 mm / 55.12 in
Max. pin height	1,875 mm / 73.82 in

***Steering:** the supplied source states “0-360° steering angle.” Confirm the exact steering mechanism, articulation and turning-radius data with the manufacturer before publication as a certified performance claim.

Inspection & service log

Print or save this page to track completed work. Refer to approved OEM manuals for all actual service requirements.

MACHINE RECORD

Machine / serial number

Date placed in service

INSPECTION AND MAINTENANCE RECORD

DATE	HOURS	TASK / OBSERVATION	INITIALS

DOCUMENTATION CHECKLIST

Keep current copies of the **factory MZVT operator manual**, **Honda GX690 manual**, correct **attachment manuals**, applicable **service bulletins**, proof of purchase, and local dealer contact information.

Website: mzvt.com

For verified product documentation, contact your equipment supplier.

Supplied visual resources / 1 of 5

Reference assets provided for the MZVT product and manuals center. Promotional graphics are not service instructions.

TYPHON MZVT

Maneuverable Zero-radius Vector Tri-loader

mini Tri Wheel Loader



221 HP
HONDA GX690 ENGINE

772 LBS
MAX. LIFTING CAPACITY

706 FT³
BUCKET CAPACITY

HYDROSTATIC
TRANSMISSION TYPE

Overview infographic

PRODUCT SPECIFICATIONS

SPECIFICATIONS			
Model	TYPHON MZVT	Battery Capacity	24 Ah
Engine	HONDA GX690	Max. Lifting Capacity	772 lbs (350 kg)
Operating Voltage	12 V	Travel Speed	0-7.5 mph (0-12 km/h)
Fuel Type	Gasoline	Steering Angle	0-360°
Cylinders	2	Standard Tires	18 x 9.50-8
Bucket Capacity	7.06 ft³ (0.2 m³)	Fuel Tank Capacity	2.6 gal (10 L)
Displacement	42 cu in (688 cc)	Hydraulic Oil Tank Capacity	2.6 gal (10 L)
Max. Engine Output	22.1 hp @ 3600 rpm	Working Hydraulic Flow	5.5 GPM (21 L/min)
Max. Engine Torque	35.6 lb-ft @ 2500 rpm	Working Hydraulic Pressure	2,321 psi (160 bar)
Cooling System	Air-cooled	Transmission Type	Hydrostatic



One Loader. Unlimited Capability.

Product specifications graphic

RUN BY HONDA GX690 ENGINE

More Power for Greater Performance



Engine Specifications

Horsepower:
221 HP @ 3600 RPM

4-Stroke 2-Cylinder OHV Petrol
Engine 90° V-Twin Design

Cylinder Sleeve Type
Cast Iron Sleeve

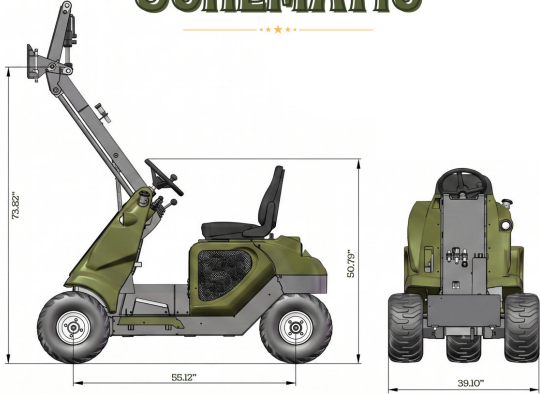
Cooling System:
Air-Cooled



HONDA
GX690
//ENGINE

Engine promotion / Honda GX690

SCHEMATIC



DIMENSIONS			
Max. Pin Height	73.52" (1875 mm)	Total Width	39.10" (993 mm)
Wheelbase	55.12" (1400 mm)	Total Height	50.79" (1290 mm)

Dimension schematics

Supplied visual resources / 2 of 5

Reference assets provided for the MZVT product and manuals center. Promotional graphics are not service instructions.

WIDER BUCKET.
GREATER PRODUCTIVITY.

7.06 FT³

BUCKET CAPACITY



Bucket productivity image

SMALL SIZE. BIG LIFTING POWER.

772 LBS

MAX. LIFTING CAPACITY



Lifting capacity image

HIGH REACH PERFORMANCE

78.82"

MAX. PIN HEIGHT

*More Power
for Greater
Performance*



Reach / pin-height image

HIGH TRAVEL EFFICIENCY

7.5 MPH

MAX. SPEED UP



Travel speed image

Supplied visual resources / 3 of 5

Reference assets provided for the MZVT product and manuals center. Promotional graphics are not service instructions.

OPERATOR DETAILS

1 Auxiliary Hydraulic Lever

2 Hydraulic Control Lever

3 Light Switches

4 Ignition Key

5 Fuel Gauge

6 Throttle

7 Choke

8 Fuel Tank Cap

9 Steering Wheel

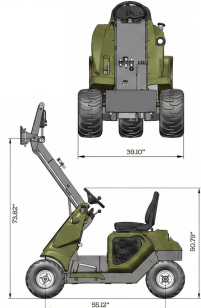
10 Steering Wheel Spinner Knob



Control identification graphic

SCHEMATICS & DIMENSIONS

SPECIFICATIONS			
Model	TYPHON MZVT	Battery Capacity	24 Ah
Engine	HONDA GX690	Max. Lifting Capacity	772 lbs (350 kg)
Operating Voltage	12 V	Travel Speed	0–7.5 mph (0–12 km/h)
Fuel Type	Gasoline	Steering Angle	0–360°
Cylinders	2	Standard Tires	18 × 9.50-8
Bucket Capacity	7.06 ft³ (0.2 m³)	Fuel Tank Capacity	2.6 gal (10 L)
Displacement	42 cu in (688 cc)	Hydraulic Oil Tank Capacity	2.6 gal (10 L)
Max. Engine Output	22.1 hp @ 3,600 rpm	Working Hydraulic Flow	5.5 GPM (21 L/min)
Max. Engine Torque	35.6 lb-ft @ 2,500 rpm	Working Hydraulic Pressure	2,321 psi (160 bar)
Cooling System	Air-cooled	Transmission Type	Hydrostatic
Max. Pin Height	73.82" (1875 mm)	Total Width	39.10" (993 mm)
Wheelbase	58.12" (1480 mm)	Total Height	50.79" (1289 mm)



Full specifications / dimensions

TYPHON MZVT

MANEUVERABLE ZERO-RADIUS VECTOR TRI-LOADER

Maximum Maneuverability Superior Control Powered Lifting



221 HP
HONDA GX690 ENGINE

772 LBS
MAX LIFTING CAPACITY

7.06 FT³
BUCKET CAPACITY

HYDROSTATIC
TRANSMISSION TYPE

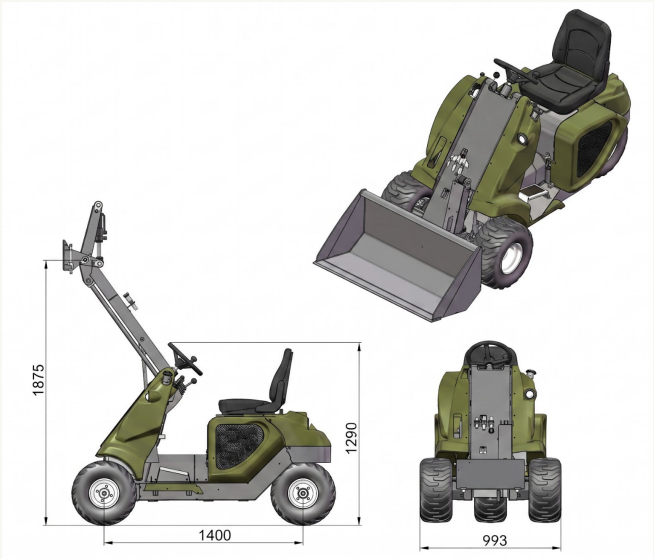
Wide product overview

Specification	Value	
Model	TYPHON MZVT	
Engine	HONDA GX690	
Fuel Type	Gasoline	
Cylinders	2	
Bucket Capacity	0.2 m³	7.06 ft³
Displacement	688 cc	42.0 cu in
Maximum Engine Output	16.5 kW @ 3,600 rpm	22.1 hp @ 3,600 rpm
Maximum Engine Torque	48.3 N·m @ 2,500 rpm	35.6 lb-ft @ 2,500 rpm
Cooling System	Air-cooled	
Operating Voltage	12 V	
Battery Capacity	24 Ah	
Maximum Lifting Capacity	350 kg	772 lb
Travel Speed	0–12 km/h	0–7.5 mph
Steering Angle	0–360°	
Standard Tires	18 × 9.50-8	
Fuel Tank Capacity	10 L	2.6 gal
Hydraulic Oil Tank Capacity	10 L	2.6 gal
Working Hydraulic Flow	21 L/min	5.5 GPM
Working Hydraulic Pressure	160 bar	2,321 psi
Transmission Type	Hydrostatic	

Original specification table

Supplied visual resources / 4 of 5

Reference assets provided for the MZVT product and manuals center. Promotional graphics are not service instructions.



Original dimension reference



Front view / white background



Side machine view



Raised boom view

Supplied visual resources / 5 of 5

Reference assets provided for the MZVT product and manuals center. Promotional graphics are not service instructions.



Additional front perspective



Front perspective / lifted



Front perspective / centered



Rear machine view