

SALES GUIDE

Z45 GEN:2 COMPACT EXCAVATOR



GEHL®

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STRATEGY

In 1859, an agricultural implement company, housed in a blacksmith shop, was started in West Bend, Wisconsin. From these humble beginnings, the Gehl brand has become a major force in the compact equipment industry worldwide.

The Gehl mission is to distribute high-quality compact equipment through a dedicated distribution network, thereby delivering increased value to our dealers and customers around the globe.

Gehl Compact Excavators excel in applications such as grading and excavating, trenching, digging, demolition and recycling and light utility construction. Their compact nature and zero-tail-swing design make them ideal in situations where space is limited.

The Gehl Z45 GEN:2 compact excavator is designed to meet the needs of contractors and agricultural customers. This exciting new model incorporates innovative features that will enhance productivity, operator comfort and efficiency on the jobsite. The Z45 GEN:2 compact excavator includes multiple upgrades from the previous Z45 model.



OVERVIEW

key sales arguments

ALL-NEW!

TIER IV CERTIFIED

37.7 hp (28.1 kW) electronically controlled Yanmar diesel engine provides up to 20% less fuel consumption with ECO mode and auto deceleration and features an electronic throttle for precise control.



Yanmar 4TNV88C-PBV Tier IV

ENHANCED SERVICE ACCESS

is achieved with two large rear doors, a swing open side access panel, and removable covers beneath the operator's feet.

ALL-NEW!

DIGITAL OPERATOR INTERFACE

features an hour meter, clock, automatic adjustable reminders, regeneration notifications, historical monitoring and fuel consumption.

ALL-NEW!

LARGER CAB

features state-of-the-art controls, digital display and excellent visibility. Optional enclosed cab with heat and air conditioning further enhances operator comfort.

ALL-NEW!

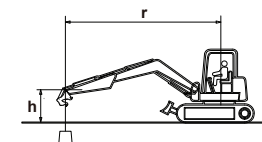
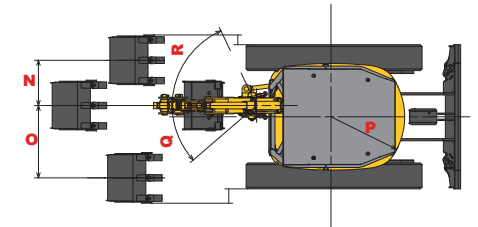
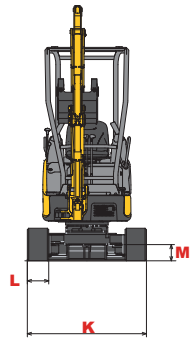
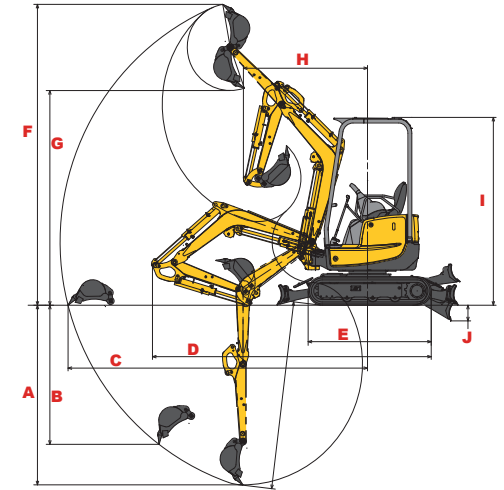
PROPORTIONAL AUXILIARY HYDRAULICS

are standard and give the operator the ability to adjust attachment speeds with infinitely adjustable flow control.



SPECIFICATIONS		Z45 GEN:2	
ENGINE	Make	Yanmar	
	Model	4TNV88C-PBV Tier IV	
	Type	Diesel	
	Displacement (L)	133.6 cu.in. (2.19)	
	Net Power (kW) @ rpm	37.7 hp (28.1) @ 2400	
	Fuel Tank (L)	17.4 gal. (66)	
HYDRAULIC SYSTEM	Fuel Consumption (L/hr)	1.24 gal./hr (4.7)	
	Pumps	2 variable, 2 gear	
	Total Flow Rate (L/min)	35.1 gpm (132.8)	
	Working Pressure (bar)	3133 psi (216)	
	Swing System Pressure (bar)	3133 psi (216)	
	Oil Cooler	Standard	
UNDERCARRIAGE AND SLEWING SYSTEM	Hydraulic Tank (L)	10.0 gal. (38)	
	Travel Speed - dual (km/hr)	1.5/2.9 mph (2.4/4.6)	
	Gradability	20°	
	Track Type / Width (mm)	Rubber / 13.8" (350)	
	No. of Rollers per Side (track/idle)	4/1	
	Undercarriage Length (mm)	8' 6" (2590)	
	Track Length on Ground (mm)	7' 4.4" (2246)	
	Ground Clearance (mm)	13.6" (345)	
	Ground Pressure - Cab/Canopy (kPa)	4.4/4.3 psi (30.6/29.4)	
	Slew Speed	10 rpm	
	Maximum Drawbar Pull (kg)	10,611 lbs. (4813)	
	Maximum Bucket Breakout (kg)	6497 lbs. (2947)	
	Maximum Arm Digging Force (kg)	4676 lbs. (2121)	
	Operating Weight with Canopy (kg)	10,417 lbs. (4725)	
	Operating Weight with Cab (kg)	10,814 lbs. (4905)	
	DIMENSIONS	A. Max. Digging Depth (mm)	11' 7.8" (3550)
		B. Max. Vertical Wall Digging Depth (mm)	7' 9.7" (2380)
C. Max. Reach at Ground Level (mm)		18' 10" (5740)	
D. Transport Length (mm)		17' 5.4" (5320)	
E. Undercarriage Length (mm)		8' 6" (2590)	
F. Max. Digging Height (mm)		18' 8.4" (5700)	
G. Max. Dump Height (mm)		12' 0.9" (3680)	
H. Minimum Front Swing Radius (mm)		7' 9.7" (2380)	
I. Transport Height (mm)		8' 4" (2540)	
J. Blade Below Ground (mm)		1' 9.3" (540)	
K. Overall Base Width (mm)		6' 4.4" (1940)	
L. Track Width (mm)		1' 1.8" (350)	
M. Ground Clearance (mm)		1' 1.6" (345)	
N. Parallel Offset Right (mm)		2' 6.3" (770)	
O. Parallel Offset Left (mm)		2' 2.8" (680)	
P. Rear End Swing Radius (mm)		3' 2.2" (970)	
Q. Boom Swing Angle - Left		68°	
R. Boom Swing Angle - Right	68°		
DOZER BLADE	Max. Dig Depth with 8 ft. (2.5 m) Flat Bottom	10' 3" (3135)	
	Width - extended / retracted (mm)	6' 5.6" (1970)	
	Height (mm)	15.7" (400)	

Z45 GEN:2 REFERENCE DIAGRAMS



LIFTING CAPACITIES†

(h) LIFT POINT HEIGHT - in. (mm)	RATED LIFT CAPACITY OVER END BLADE DOWN - lbs. (kg)				RATED LIFT CAPACITY OVER END BLADE UP - lbs. (kg)				RATED LIFT CAPACITY OVER SIDE BLADE UP - lbs. (kg)			
	MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)	MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)	MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)
157.5 (4000)	*2403 (1090)				*2292 (1040)				1763 (800)			
118.1 (3000)	*2358 (1070)	*2314 (1050)			1543 (700)	*1829 (830)			1322 (600)	1587 (720)		
78.7 (2000)	*2425 (1100)	*2645 (1200)	*3306 (1500)		1300 (590)	1719 (780)	*3152 (1430)		1146 (520)	1587 (720)	2425 (1100)	
39.4 (1000)	*2535 (1150)	*3042 (1380)	*4365 (1980)		1256 (570)	1675 (760)	2535 (1150)		1124 (510)	1499 (680)	2204 (1000)	
GROUND (0)	*2579 (1170)	*3284 (1490)	*4585 (2080)	*6459 (2930)	1300 (590)	1587 (720)	2358 (1070)	4166 (1890)	1102 (500)	1366 (620)	2028 (920)	3351 (1520)
-39.4 (-1000)	*2667 (1210)	*2910 (1320)	*4232 (1920)	*6393 (2900)	1521 (690)	1587 (720)	2403 (1090)	4387 (1990)	1322 (600)	1344 (610)	1984 (900)	3571 (1620)
-78.7 (-2000)	*2535 (1150)		*2854 (1340)		2601 (1180)		2469 (1120)		1940 (880)		2116 (960)	

† Lifting Capacity Charts Notes

- Lifting capacity is hydraulically limited (denoted with *).
- Lifting capacity calculated with standard Power-A-Tach® quick coupler.
- Note where applicable specifications conform to ISO standards.
- Weight of all lifting devices and attachment must be deducted to determine load that can be lifted.
- Lift point is bucket hinge point.

FEATURES

operator's cab



ALL-NEW FEATURES

- **4-WAY ADJUSTABLE SEAT**
Fully adjustable seat with retractable belt for custom height, weight and backrest positions.
- **THROTTLE LOCATION**
Previously a push/pull cable, the throttle is now a conveniently located electronic knob.
- **STAY CONNECTED**
Canopy model now features an in-dash cell phone holder.
- **RADIO READY**
Speakers are standard with the cab model. An additional bracket equips the machine with radio.
- **DOMELIGHT**
Light can be controlled with on/off switch and also turns on automatically when door is opened.
- **2-SPEED BUTTON WITH DETENT**
Upgrading from a pedal, both feet are now freed up during travel.
- **EMERGENCY CUT-OFF SWITCH**
Located by the cab door, the kill switch is accessible from the ground in the event of an emergency.
- **ELEVATED TRAVEL PEDALS**
provide additional foot room while performing stationary work.



	Z45 GEN:2
OPERATOR'S STATION	
Enclosed Cab (ROPS/FOPS)	●
Canopy (ROPS/FOPS)	●
3" Retractable Safety Belt	●
Adjustable Armrests - Height and Angle	○
Fold-up Front Window	○
Adjustable Suspension Seat	○
Air Conditioning	●
Radio-Ready with Speakers	○
Horn	○
LIGHTS	
Work Lights	○
Boom Light	○
Dome Light	○

○ STANDARD ● OPTIONAL

ALL-NEW

DIGITAL OPERATOR INTERFACE



- **ENGINE REGENERATION**
Alerts and procedural information
- **HOUR METER & CLOCK**
- **RECORDABLE MAINTENANCE HISTORY**
with adjustable time intervals and reminders
- **MULTIPLE LANGUAGE SELECTIONS**
- **FLUID LEVELS**
Engine coolant, fuel level, fuel consumption
- **USAGE MONITORING**
Records hours used for past 90 days and can be reviewed without starting the engine.

controls

- **INFINITELY ADJUSTABLE ELECTRONIC THROTTLE DIAL**
- **TWO-POSITION, HIGH SPEED TRAVEL SWITCH**
conveniently integrated in the blade control lever.
- **STANDARD ISO OR OPTIONAL BACKHOE**
control patterns easily selected with the turn of a mechanical lever.
- **PILOT-OPERATED JOYSTICK CONTROLS**
are operated by simple wrist movements, reducing fatigue during a long workday.
- **PROPORTIONAL AUXILIARY HYDRAULICS ROCKER SWITCH**
vastly enhances attachment performance, allowing the operator to adjust the flow for optimal attachment performance.
- **ONE-WAY / TWO-WAY RETURN FLOW**
selection for optimal performance from attachments.



FEATURES

engine



ALL-NEW!

YANMAR **TIER IV**
4TNV88C-PBV

- **37.7 hp** (28.1 kW)
electronically-controlled engine

- **0° F** (-18° C) **COLD START**

Easy starting, without the need for block heaters or starting fluid.

- **AFTER TREATMENT**

meets all Tier IV requirements through proven technology. Refer to the Operator's Manual for full details.



ALL-NEW!

○ **ECO MODE**

saves fuel when full speed is not necessary. Activated by the flip of a switch, engine speed is reduced by 10% without sacrificing power.

ALL-NEW!

○ **AUTO DECELERATION**

improves fuel economy and lowers noise and emissions levels by reducing the engine speed to idle after four seconds without hydraulic movement.

	Z45 GEN:2
ENGINE	
Electric Glow Plug Starting Aid	○
Yanmar, Naturally Aspirated Diesel Engine	○
ECO Mode	○
Auto Deceleration	○

○ STANDARD ● OPTIONAL

FEATURES

hydraulics

- UP TO **3133 psi** (216 bar)

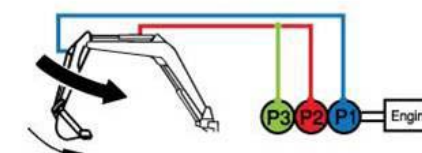
High system pressure delivers more hydraulic muscle to power demanding attachments and deliver superior digging and breakout forces.

- **35.1 gpm** (132.8 L/min)

ALL-NEW!

- **PRECISION CONTROL**

Standard proportional auxiliary hydraulic control gives the operator the ability to adjust attachment speeds with infinitely adjustable flow control.



- **2 VARIABLE PUMPS + 2 GEAR PUMPS**

combine oil and redirect the flow to where it is needed, allowing for simultaneous operation without loss of power.

- **SMOOTH OPERATION**

even while using the boom and arm during turning.

- **TWO-WAY & ONE-WAY AUXILIARY FLOW VALVE**

allows for direct-to-tank bypass. Return flow selection is standard equipment.



- **HYDRAULIC THUMB ATTACHMENT**
is a factory installed option that adds versatility to the machine.

	Z45 GEN:2
HYDRAULIC SYSTEM	
Power-A-Tach® Hydraulic Quick Attach System	○
Factory-Installed Hydraulic Thumb Attachment	●
Hydraulic Pumps	4
ISO / SAE Pattern Control Valve	○
Proportional Auxiliary Hydraulic Joystick Control	○
Two-way Auxiliary Hydraulics with Quick Couplers and Direct-to-Tank Bypass Valve	○

○ STANDARD ● OPTIONAL

FEATURES

body

ALL-NEW FEATURES

- **CORROSION RESISTANCE**
Bucket, arm, boom pins and auxiliary shut-off blocks are now plated, instead of painted, to maintain durability.
- **NEW EXHAUST LOCATION**
Now in a lower position, the exhaust is quieter.
- **90% INCREASE IN RADIATOR VOLUME**
- **110% INCREASE IN HYDRAULIC COOLER VOLUME**
- **OVERALL HEIGHT REDUCED BY 3%**
for lower overhead clearance access and easier transportation.
- **TOOL BOX**
Lockable toolbox on the left-rear panel provides space for operator necessities and tools
- **RELOCATED AIR CONDITIONING**
Visibility is improved with a compact, integrated rear air conditioning unit.

		Z45 GEN:2
UNDERCARRIAGE		
Rubber Tracks		○
Selectable 2-Speed Transmission		○
Track Rollers	4	
UPPER STRUCTURE		
Auto Idle		○
360 Continuous Movement		○
Motion Alarm		○
Zero-Tail-Swing		○

○ STANDARD ● OPTIONAL



boom

- **BOOM IS 13% LIGHTER**
A box type welded boom, upgraded from an outside plate welded boom, is lighter while providing equal strength.
- **HEAVY-DUTY SLIDING CYLINDER GUARDS**
protect exposed cylinder rods from damage.
- **SINGLE-PIN BOOM MOUNT DESIGN**
for optimal durability and component life.
- **INTEGRATED BOOM LIGHT**
illuminates the work area and allows for safe and effective operation after dark.



FEATURES

serviceability

ALL-NEW!

- **STANDARD TRACK DRIVE SYSTEM**
The standard track drive system provides long life and allows for easy aftermarket track replacment.

ALL-NEW!

- **EASY MAINTENANCE TRACKING**
A digital display with historical monitoring and automatic, adjustable reminders and intervals provides easier tracking for maintenance procedures.

ALL-NEW!

- **TOOL-FREE ACCESS PANELS**
Quick and easy access to the battery, engine compartment, control valve, cooler & control pattern valve.



undercarriage

- **STAGGERED TREAD AND MANDREL DESIGN**
combined with a shorter track pitch reduces vibration.
- **LONG TRACKS**
provide a smoother ride over rough terrain.
- **SHORT-PITCHED TRACKS**
to reduce wear, fatigue and damage.
- **ANGLED CRAWLER FRAME**
reduces soil build-up on the undercarriage, extending the life of the rollers and tracks.

SALES GUIDE

ATTACHMENTS

POWER-A-TACH®

Hydraulic Power-A-Tach® quick coupler is standard equipment. Its versatile design works with a wide range of excavator attachments, putting the tools you already own to use. (Not available on the Z17)

1.



2.



3.



4.



HYDRAULIC ACTIVATION

is controlled by a switch in the operator's station. The operator only needs to leave the seat to remove and replace the safety pin.

EDGE®

With a wide variety of EDGE® attachments available, Gehl Compact Excavators are easily transformed to meet your customers' needs.

CHAIN AUGER



PLANETARY AUGER



BREAKER



RIPPER



BUCKET SLAB



CEMENTARY BUCKET



COMPACTION PLATE



TILT BUCKET



COMPACTION WHEEL



DIRT BUCKET



DITCHING BUCKET



GRAPPLE



○ FACTORY-INSTALLED HYDRAULIC THUMB OPTION



Scan this code to learn more about EDGE® Compact Excavator attachments.

ceattachments.com

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