

IHI

MiniExcavators & Compact Track Loader



Mini Excavators & CL Compact Track Loader

35N3

55N3S

80NX3

CL35S



Easy Operation



**Eco-friendliness
and
Safety**



The Front-line Device

Power to accomplish the hard work. Mobility and drivability, further enhanced. Exceptional ease of use, converging with sturdy bodies and simplified maintenance.

The Mini excavator and Compact track loader from IHI. Experience the state-of-the-art, in our tough front-line devices that are intelligently designed to protect your safety and the environment.

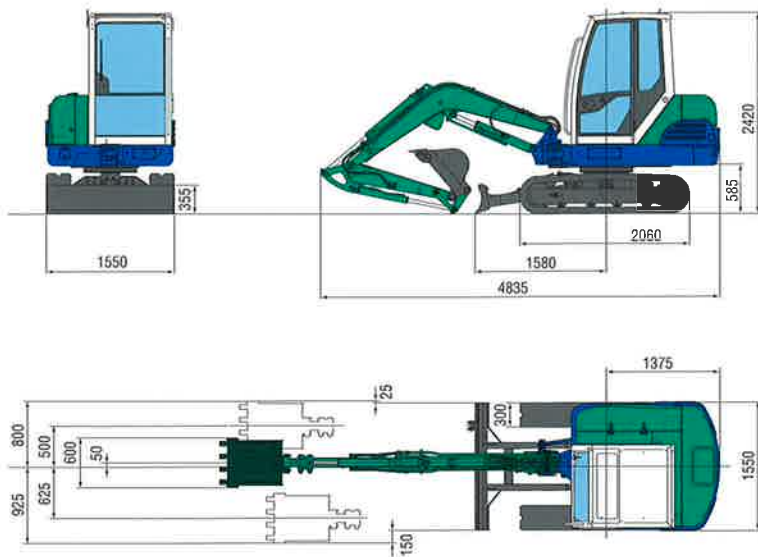
Easy Maintenance



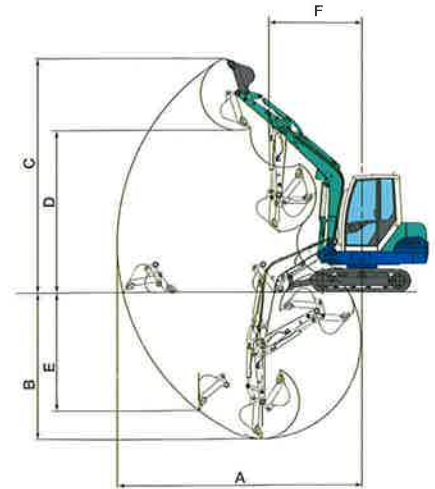
Precision Movement



■ Dimensions (Unit:mm)



■ Working Range (Unit:mm)



	Cabin or 4post
A Max. digging radius	5080mm (5390mm)
B Max. digging depth	3150mm (3450mm)
C Max. digging height	4830mm (5120mm)
D Max. dumping height	3350mm (3620mm)
E Max. vertical digging depth	2450mm (2900mm)
F Min. front turning radius	1930mm (2060mm)
At right boom swing	1520mm (1635mm)

※Cabin : ROPS/TOPS Cabin
 ※4Post : ROPS/TOPS Canopy
 ※{ } : Figures for long arm



35N Mini Excavator

Standard Bucket Capacity : ISO 0.11m³

Outstanding Stability, Robust Design.
3.5ton Conventional Type Mini.

■ 35N3 Specifications

Model	35N3
• Performance	
Bucket capacity	0.11m ³
Bucket width	600mm
Operating weight : Cabin (4post)	3460kg (3325kg)
Transportation weight : Cabin (4post)	3385kg (3250kg)
Swing speed	10min ⁻¹
Travel speed (low/high)	2.8/4.8km/h
Gradeability	58% (30°)
Ground pressure	31kPa
Max.bucket digging force	26.5kN
• Engine	
Model	Yanmar 3TNV88
Rated output	19.9kW(27.1PS)/2300min ⁻¹
Fuel tank capacity	49 L
• Boom swing system	
Type	Boom offset with hydraulic cylinder
Swing angle (L/R)	50° / 90°
• Hydraulic system	
Pressure	20.6MPa
Pump hydraulic flow	40.3L/min x2 + 24.6L/min
• Dozer blade	
Size	1550mm x 365mm
Lift above ground / Drop below ground	390mm / 450mm

■ Options

- Long-arm (standard + 300mm)
- Steel Shoe (300mm)
- Auxiliary hydraulic piping (63.1L/min)
- 2nd auxiliary hydraulic piping (24.6L/min)
- Rubber padded crawler
- ROPS canopy
- ROPS cabin
- Head light for cabin (canopy)
- Fabric seat

Bucket
0.055m ³ / Digging bucket (400mm width)
0.08m ³ / Long arm bucket (500mm width)
0.12m ³ / Digging bucket (660mm width)



4 Post Canopy



Auxiliary Hydraulic Piping
 & 2nd Auxiliary Piping



Proportional Control Valve



* Auxiliary hydraulic piping is optional



Full-opening cover.

The engine cover, right side cover all can easily be fully opened.



Larger engine adopted.

Engine compliant with gas emission for EC StageIIIA and EPA Interim Tier4.

Eco-friendliness and Safety

- Engine compliant with gas emission for EC StageIIIA and EPA Tier4.
- Conform to the EC low noise regulation.
- Swing parking brake equipped as standard.
- The accumulator is installed as to depressurize auxiliary line and lower attachments in emergency.

Easy Operation

- Joystick lever control enables precision operation.
- Achieves largest operation space in its class.
- A large dozer blade makes bulldozing easier and offers high durability.
- Travel speed selector switches equipped in two locations. (On dozer lever and the left console box.)
- The foot space extended. (10% wider than N2.)

Easy Maintenance

- Sintering metal bush extends greasing interval.
- Aluminum made radiator and oil cooler resist against rusting.
- Segmented boom cylinder hoses for easier replacement.
- Full-opening engine cover for easy maintenance.
- The radiator protective net is equipped as standard.

Rugged Body

- Embedded boom lamp to prevent damage.
- The engine cover and the side cover are the pressed steel and very rugged.
- Bucket cylinder hoses are placed inside of arm.
- Cast Iron large side guard and counterweight.
- Arm link pin fixed by castle nut.



Accumulator

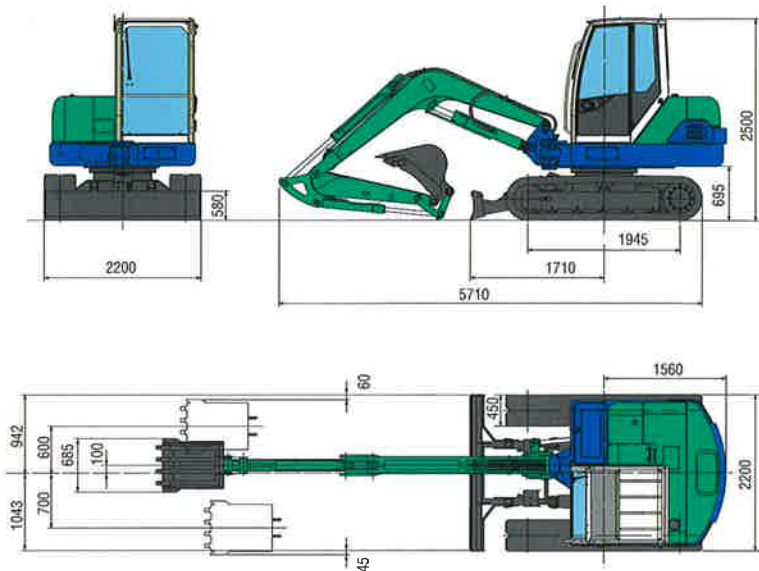
The accumulator is installed as to depressurize auxiliary line and lower attachments in emergency.



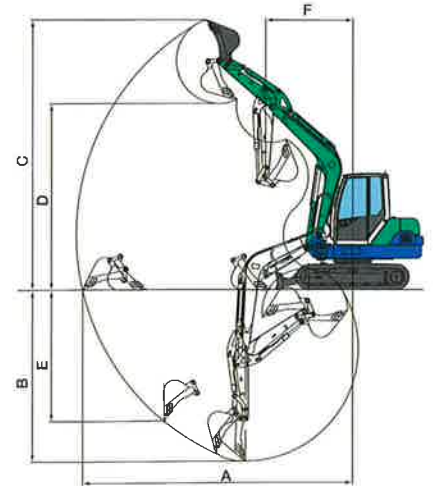
Large Traction pedals

The large traction pedals are equipped as standard.

■ Dimensions (Unit:mm)



■ Working Range (Unit:mm)



	Cabin or 4post
A Max. digging radius	6120mm (6420mm)
B Max. digging depth	3850mm (4100mm)
C Max. digging height	5950mm (6190mm)
D Max. dumping height	4110mm (4340mm)
E Max. vertical digging depth	2950mm (3270mm)
F Min. front turning radius	2220mm (2240mm)
At right boom swing	1790mm (1820mm)

※Cabin : ROPS/TOPS Cabin
 ※4Post : ROPS/TOPS Canopy
 ※ () : Figures for long arm



Mini Excavator

Standard Bucket Capacity : ISO 0.18m³

**Unrivalled Powerful Engine, Stability, Durability.
 5.5ton Conventional Type Mini.**

■ 55N3S Specifications

Model	55N3S
• Performance	
Bucket capacity	0.18m³
Bucket width	685mm
Operating weight : Cabin (4post)	5405kg (5275kg)
Transportation weight : Cabin (4post)	5330kg (5200kg)
Swing speed	9.0min⁻¹
Travel speed (low/high)	2.6/4.5km/h
Gradeability	58% (30°)
Ground pressure	31kPa
Max.bucket digging force	36.3kN
• Engine	
Model	Yanmar 4TNV94L
Rated output	40.8kW(55.5PS)/2400min⁻¹
Fuel tank capacity	75 L
• Boom swing system	
Type	Boom offset with hydraulic cylinder
Swing angle (L/R)	50° / 90°
• Hydraulic system	
Pressure	20.6MPa
Pump hydraulic flow	64.6L/min x2 + 46.1L/min
• Dozer blade	
Size	2000mm x 370mm
Lift above ground / Drop below ground	370mm / 390mm

■ Options

• Long-arm (standard + 300mm)
• Steel Shoe (400mm)
• Auxiliary hydraulic piping (110L/min)
• Rubber padded crawler
• Steel cab
• TOPS Canopy
• Canopy
• Air conditioner

Bucket
0.11m³ / Long arm bucket (485mm width)
0.14m³ / Digging bucket (585mm width)
0.19m³ / Loading bucket (725mm width)



4 Post Canopy



Auxiliary Hydraulic Piping



Steel Shoe



* Auxiliary hydraulic piping is optional



Comfortable operating environment.

A wide cabin offer a comfortable space.



New environmentally friendly 3.3L. engine.

Engine compliant with gas emission for EC Stage2 and EPA Tier2.

Eco-friendliness and Safety

- Engine compliant with gas emission for EC Stage2 and EPA Tier2.
- Conform to the EC low noise regulation.
- Swing parking brake equipped as standard.

Easy Operation

- Closer distance between bucket and dozer blade.
- Joystick lever control enables precision operation.
- Keeps boom drift at minimal levels.
- Achieves largest operation space in its class.
- A large dozer blade makes bulldozing easier and offers high durability.
- Preeminent stability and preeminent operability are offered because it is a standard machine.

Easy Maintenance

- Sintering metal bush extends greasing interval.
- Aluminum made radiator and oil cooler resist against rusting.
- Segmented boom cylinder hoses for easier replacement.
- Full-opening engine cover for easy maintenance.



Rugged dozer blade.

Equipped rugged dozer blade.



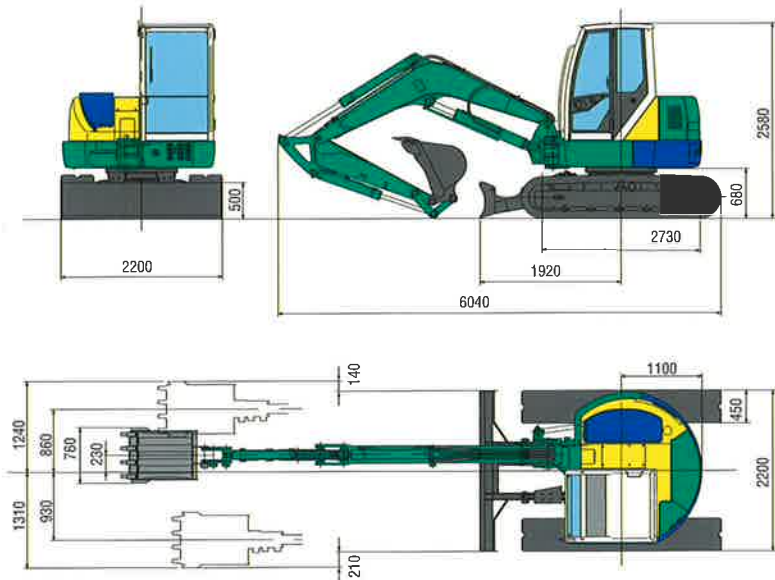
Rugged rear end.

The rear ends became strong and tough by combining of the engine cover thickness of 3.2mm, the rear guards, and the counterweight.

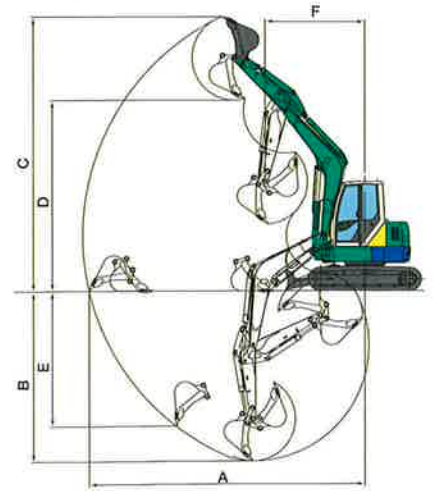
Rugged Body

- Embedded boom lamp to prevent damage.
- The engine cover and the side cover are the rugged pressed steeld.
- Bucket cylinder hoses are placed inside of arm.
- Equipped rugged dozer blade.

■ Dimensions (Unit:mm)



■ Working Range (Unit:mm)



	Cabin	4post
A Max. digging radius	6820 (7110)	6820 (7110)
B Max. digging depth	4200 (4500)	4200 (4500)
C Max. digging height	6600 (6820)	6780 (7010)
D Max. dumping height	4600 (4820)	4760 (4990)
E Max. vertical digging depth	3300 (3580)	3300 (3580)
F Min. front turning radius	2640 (2720)	2560 (2660)
At right boom swing	2210 (2280)	2120 (2210)

※ Cabin : Steel Cabin
 ※ 4Post : 4Post Canopy
 ※ () : Figures for long arm



80NX

Midi Excavator

Standard Bucket Capacity : ISO 0.25m³

Smooth and Powerful Operation.
8ton Zero Tail Swing Midi Excavator.

■ 80NX3 Specifications

Model	80NX3
• Performance	
Bucket capacity	0.25m ³
Bucket width	760mm
Operating weight : Cabin (4post)	7725kg (7575kg)
Transportation weight : Cabin (4post)	7650kg (7500kg)
Swing speed	9.2min ⁻¹
Travel speed (low/high)	2.6/4.3km/h
Gradeability	58% (30°)
Ground pressure	36kPa (0.37kgf/cm ²)
Max.bucket digging force	55kN (5610kgf)
• Engine	
Model	ISUZU CC-4JG1
Rated output	40.8kW(55.5PS)/2100min ⁻¹
Fuel tank capacity	85 L
• Boom swing system	
Type	Boom offset with hydraulic cylinder
Swing angle (L/R)	50° / 90°
• Hydraulic system	
Pressure	24.5MPa (250kgf/cm ²) x 2 + 21.6MPa (220kgf/cm ²)
Pump hydraulic flow	71.4L/min x 2 + 53.1L/min
• Dozer blade	
Size	2200mm x 500mm
Lift above ground / Drop below ground	435mm / 420mm

■ Options

- Long-arm (standard + 300mm)
- Steel Shoe (450mm)
- Auxiliary hydraulic piping (71L/min)
- Additional Counterweight (400kg)
- Rubber Pad for Steel Shoe
- Air conditioner
- 4 Post Canopy

Bucket
0.11m ³ / Digging bucket (450mm width)
0.16m ³ / Digging bucket (550mm width)
0.21m ³ / Long arm bucket (650mm width)
0.28m ³ / Loading bucket (760mm width)



Additional Counterweight



4 post canopy



Steel Shoe



* Auxiliary hydraulic piping is optional



Comfortable operating environment.

A wide cabin offer a comfortable space.



New environmentally friendly 3.3L. engine.

Engine compliant with gas emission for EC Stage2 and EPA Tier2.

Eco-friendliness and Safety

- Engine compliant with gas emission for EC Stage2 and EPA Tier2.
- Conform to the EC low noise regulation.
- Swing parking brake equipped as standard.

Easy Operation

- Closer distance between bucket and dozer blade.
- Joystick lever control enables precision operation.
- Keeps boom drift at minimal levels.
- Achieves largest operation space in its class.
- A large dozer blade makes bulldozing easier and offers high durability.
- Rear end swing radius is 1100mm.

Easy Maintenance

- Sintering metal bush extends greasing interval.
- Aluminum made radiator and oil cooler resist against rusting.
- Segmented boom cylinder hoses for easier replacement.
- Large engine cover for easy maintenance.

Rugged Body

- The engine cover and the side cover are the pressed steel and very rugged.
- Bucket cylinder hoses are placed inside of arm.



Compact size zero tail swing.

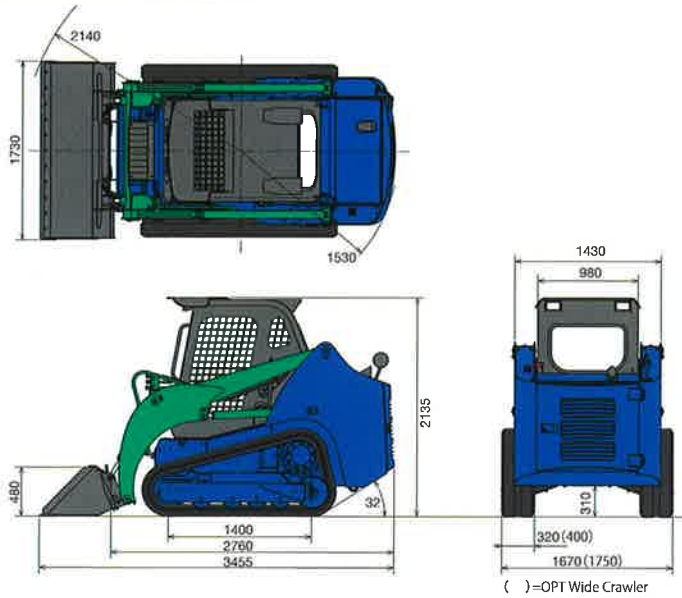
Offers zero tail swing with a 2200mm width, especially beneficial when working in tight spaces.



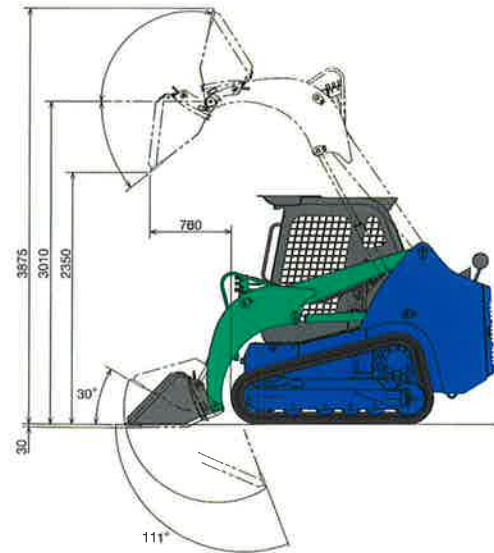
Large dozer blade.

A large, 500mm-high dozer blade is equipped as standard. It makes bulldozing easier and offers high durability.

■ Dimensions (Unit : mm)



■ Working Range (Unit : mm)



CL35

Compact Track Load

Operating Weight : 3550kg

■ CL35S Specifications

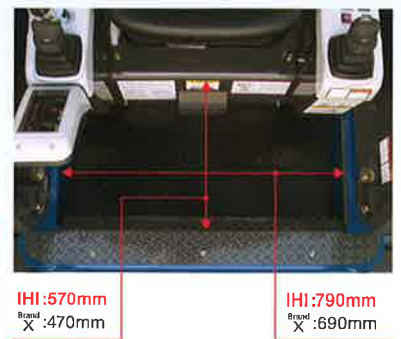
Model	CL35S
• Performance	
Bucket Capacity SAE Heaped	0.36 m ³
Bucket Width	1730 mm
Operating Weight	3550 kg
Transportation Weight	3475 kg
Travel Speed (Low)	6.7 km/h
Travel Speed (High)	10 km/h
Gradeability	58% (30°)
Tipping Capacity SAE 732	2230 kg
Rated Operating Capacity* 35% Tip Load	780 kg
Operation Capacity* 50% Tip Load	1115 kg
Ground Bearing Pressure (400mm Crawler)	38.9 kPa (31.4kPa)
Bucket Digging Force	28.6 kN
• Engine	
Model	Yanmar 4TNV98
Rated Output	49.0kW (66.7PS) / 2400min ⁻¹
Displacement	3.318 L
Fuel Tank Capacity	91 L
• Hydraulic System	
System Pressure	20.6 MPa
Hydraulic Tank Capacity	40 L
Auxiliary Flow	66.7 L/min

*SAE J818

■ Options

400mm Width Rubber Crawler
ROPS Cabin
Air Conditioner
Throttle Pedal

1 Comfortable Operation



2 Precision Movement





3 Easy Maintenance



Eco-friendliness and Safety

- The eco-friendly engine passes all EPA Interim Tier 4/ EC Stage 3A emission control regulations and offers low-noise operation.
- Large capacity 91-liter fuel tank is equipped for longer hours of operation and less downtime for refueling.

Easy Operation

- Use of a hydraulic joystick lever smoothes out travel and attachment operations, contributing to reduced fatigue.
- Various attachments can be installed easily by lever-type quick attachments.

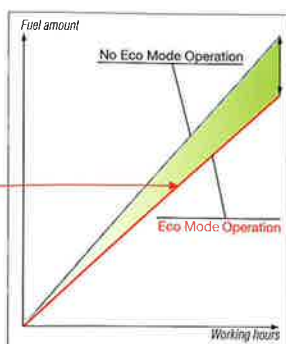
Easy Maintenance

- The tilt-up canopy simplifies maintenance.
- Tilt-up can be done simply by removing 4 bolts.
- Since the tilt angle is a wide 70°, it provides ample accessibility for maintenance work.

Rugged Body

- Special heavy-duty welding structure has been adopted for the main frame.
- Tough arm constructed with due consideration to heavy workloads.
- Rubber crawler with its rubber-covered inner running surface reduces roller wear. Since the roller and core metal do not contact directly, driving vibration and noise are minimized.

4 Eco-friendly Design



- Please carefully read the manual before operating machines, and please use it correctly and safely.
- Photographs appearing in the catalog were taken for publication and may differ in some cases from actual objects. Specifications are subject to change without notice due to technical improvements or modifications.

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