

IHI

Zero Tail Swing Mini Excavator

50NX 55NX

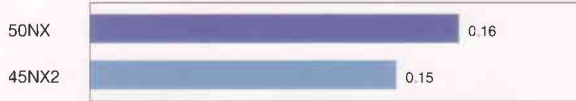


# The 50NX and 55NX from IHI.

## 1 Wide Usability, Preeminent Power

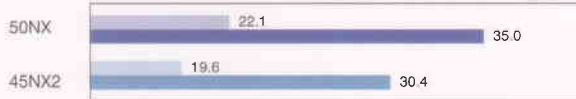
### 50NX SPEC: Rubber shoe, Cabin, STD Arm, STD Bucket

#### 1. Increased bucket capacity



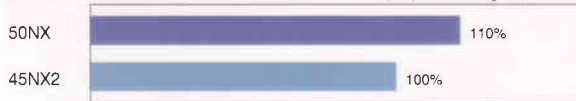
#### 2. Increased digging force

(Upper row denotes arm and lower row denotes bucket digging force.)



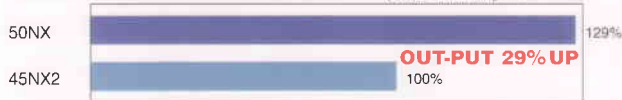
#### 3. Improved cycle speed

(Comparison assuming 100% for 45NX2)



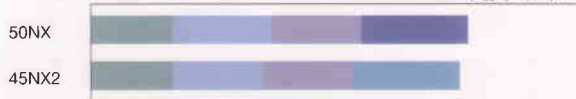
#### 4. Work out put

(Comparison assuming 100% for 45NX2)



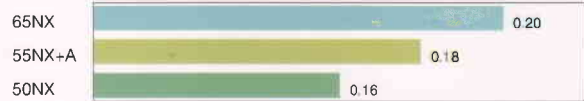
#### 5. Larger operating range

(Digging Capacity Total)



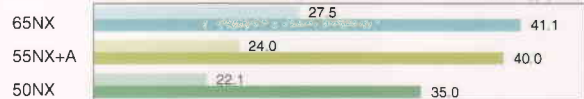
### 55NX+A SPEC: Rubber shoe, Cabin, STD Arm, 0.18m<sup>3</sup> Bucket, Additional Weight

#### 1. Increased bucket capacity



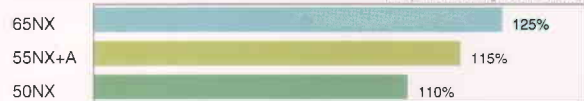
#### 2. Increased digging force

(Upper row denotes arm and lower row denotes bucket digging force.)



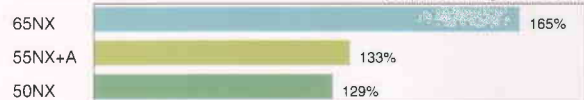
#### 3. Improved cycle speed

(Comparison assuming 100% for 45NX2)



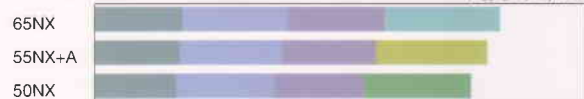
#### 4. Work out put

(Comparison assuming 100% for 45NX2)



#### 5. Larger operating range

(Digging Capacity Total)



■ a ■ b ■ c ■ d a. MAX. DIGGING DEPTH b. MAX. DIGGING HEIGHT (CAB SPEC.) c. MAX. DUMPING HEIGHT (CAB SPEC.) d. MAX. DIGGING RADIUS (STD ARM)

### Folding travel pedal equipped as standard

Convenient when operating attachments while moving, or when traveling long distances. And when not in use, it can be easily folded forward.



### Travel speed selector switches equipped in two locations

High/low speed switches have been equipped in two locations; on the travel lever grip and on the left console box. It is possible to easily shift from high to low speed depending upon travel load.



### New hydraulic system

Regardless of the size of the load, it is possible to achieve the optimum force suited to any situation over the entire range of engine speed, with just a few operations of the lever. Operation that exactly matches the intentions of the operator is possible, affording a comfortable operating experience.

### Full rotation parking brake equipped as standard

Eliminates the swing drift that tends to occur on inclined surfaces and makes it unnecessary to manually lock the rotation. (The brake engages automatically when the safety lever is raised or the engine is turned off.)

### Keeps boom fall at minimal levels

The boom holding valve minimizes the natural fall of the boom from its stopped position, ensuring safety when the excavator is not in use.



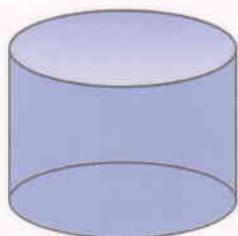
# Efficiency with big performan

## 2 High Fuel Efficiency, Low Running Cost

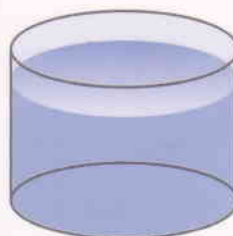
### Low Fuel Cost

By adopting a 1-pump load sensing hydraulic system and applying it to optimize engine output efficiency, fuel cost is minimized.

45NX2



50NX

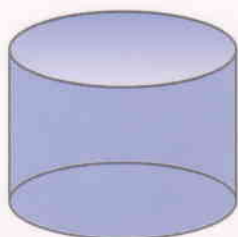


15%  
CUT

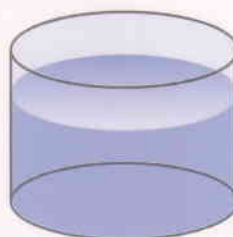
### Low Running Cost

Improving the durability of the rubber crawler and other operation equipment, as well as extending the duration between refueling and enabling easy maintenance, have made it possible to lower running cost

45NX2



50NX

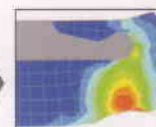
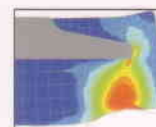
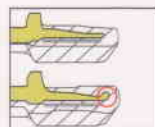
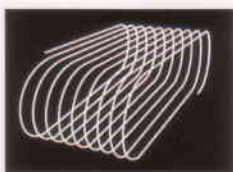
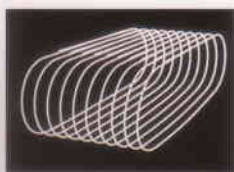


30%  
CUT

## 3 Rugged Body

### Increased durability of rubber crawler

Through the use of a new lug pattern, improved rubber material, and spiral pattern rust-free steel cord, durability has been upgraded while the service life of the rubber crawler has been extended



### Enlarged boom swing bracket and drive sprocket



### Heavy-duty bucket equipped as standard



### Embedded boom lamp positioned on cylinder rod



■ Rust-resistant aluminum radiator and engine oil cooler

■ Rust-free resin-based fuel tank

■ Pressed steel covers (except upper cover)

## 4 Easy Maintenance

### Full-opening covers

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



Radiator, engine oil filter



### Oil pressure measurement port equipped

By incorporating an oil pressure measurement port with quick coupler, initial inspection can be done with greater ease.

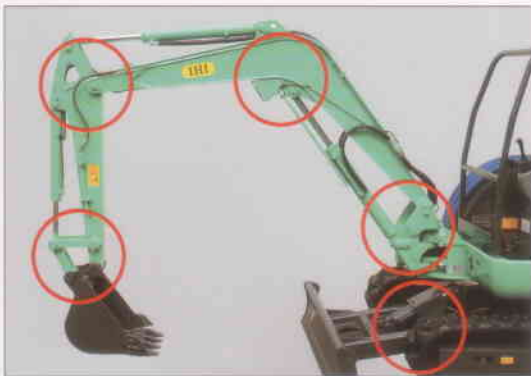


Control valve, battery



Oil pressure measurement port

### Sintering metal bush extends greasing interval and greatly reduces grease consumption



### Angled crawler frame



### Fuel tank spout positioned on the outside of the machine



## 5 Eco-friendliness and Safety

### Equipped with clean engine



### ROPS compliant canopy (standard equipment)



### ROPS compliant cab (option)



### "eExcavators" from IHI who emphasizes coexistence with the environment

Excavators that have been judged as being environmentally friendly products are affixed with IHI's own Environmental Compliance sticker. Through the use of "compliance coatings", "materials that are easy to recycle", and the "reduced use of consumables", we certify our eco-friendly excavators by affixing IHI's own Environmental Compliance sticker.





# Energy-saving, hard-working.

It goes without saying that manpower and financial assets, as well as energy, are important resources.

As a result of our relentless pursuit of construction equipment that won't waste these precious resources, we have created excavators that are not excessively large, and are gentle to the environment.

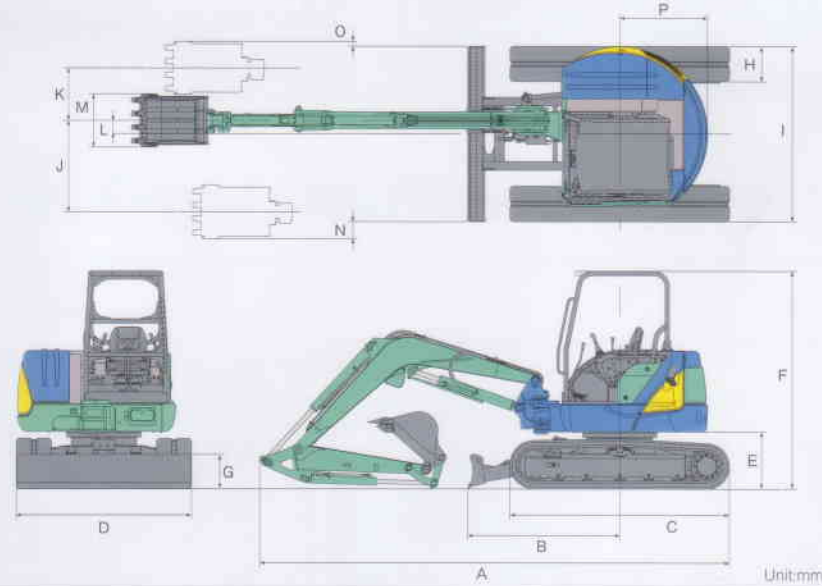
## 5 Major Factors for Improved Productivity

- 1 Wide Usability, Preeminent power
- 2 Most energy-efficient in its class
- 3 Rugged body
- 4 Easy maintenance
- 5 Eco-friendliness and safety



## ■Dimensions

Figure is in proportion to 50NX



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
50NX	5330	1840	2490	1990	640 (2540)	2465	385	400	1990	885	750	150	600	190	55	R995
55NX	5480	1730	2490	1990	625 (2540)	2465	385	400	1990	885	750	150	650	215	80	R995
55NX + A	5480	1730	2490	1990	625 (2540)	2465	385	400	1990	885	750	150	650	215	80	R1095

## ■Specifications

	50NX	55NX	55NX+A ※2
<b>●Performance</b>			
Bucket capacity(ISO)	0.16m <sup>3</sup>	0.16m <sup>3</sup>	0.18m <sup>3</sup>
bucket width	650mm	650mm	700mm
Machine weight (Cabin)	4,810[4,650]kgs	5,010[4,850]kgs	5,300[5,140]kgs
Swing speed	9.0min <sup>-1</sup> (9.0rpm)	9.0min <sup>-1</sup> (9.0rpm)	9.0min <sup>-1</sup> (9.0rpm)
Travel speed(Low / High)	2.6 / 4.8km/h	2.6 / 4.8km/h	2.6 / 4.8km/h
Gradeability	28[27]	29[28]	29[28]
Ground pressure	27<28>kPa(0.28<0.29>kgf/cm <sup>2</sup> )	28<29>kPa(0.29<0.30>kgf/cm <sup>2</sup> )	28<29>kPa(0.29<0.30>kgf/cm <sup>2</sup> )
Max. bucket digging force	35.0kN(3,570kgf)	40.0kN(4,060kgf)	40.0kN(4,060kgf)
<b>●Engine</b>			
Model	Yanmar 4TNV88	Yanmar 4TNV88	Yanmar 4TNV88
Rated output	27.3kW(37.1PS) / 2300rpm	27.3kW(37.1PS) / 2300rpm	27.3kW(37.1PS) / 2300rpm
Fuel tank capacity	65L	65L	65L
<b>●Boom swing system</b>			
Type; Boom offset	Boom offset with hydraulic cylinder		
Swing angle(L/R)	87°/50°	87°/50°	87°/50°
<b>●Hydraulic system</b>			
Pressure	24.5Mpa(25kgf/cm <sup>2</sup> )	24.5Mpa(25kgf/cm <sup>2</sup> )	24.5Mpa(25kgf/cm <sup>2</sup> )
Pump hydraulic flow	124L/min	124L/min	124L/min
<b>●Dozer blade</b>			
Size	1990mm×385mm	1990mm×385mm	1990mm×385mm
Lift above ground/Drop below ground	420mm/430mm	405mm/375mm	405mm/375mm

※1 The bracketed [ ] figures are for the Canopy version. ※2 When 55NX is equipped with 0.18 bucket with Additional Weight.

## ■Options

- ROPS cab (ROPS/TOPS compliant) with cup holder, heater
- Steel shoe (400mm width)
- Rubber pads
- Auxiliary hydraulics
- Air conditioner (option for steel cab)
- Backup power supply
- Vertical exhaust tailpipe
- Radiator front grille
- Auto-deceleration function
- Long arm (standard + 300mm)
- Additional counterweight



Additional counterweight



Auxiliary hydraulics



Air conditioner

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