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# Technology in Cab Design

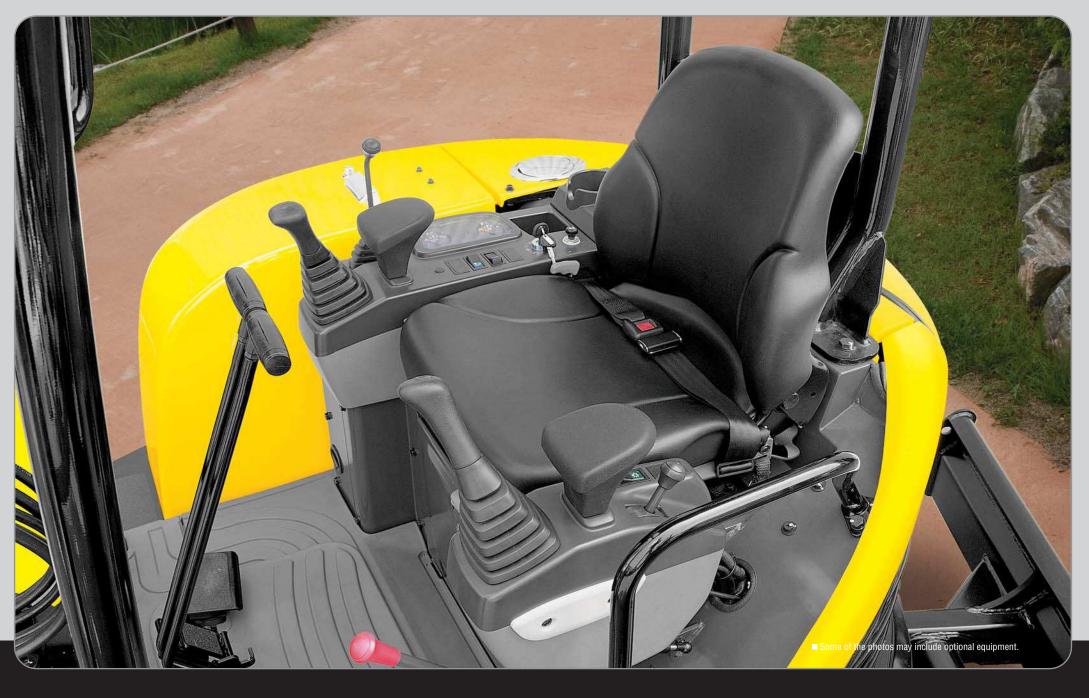
#### **Wide, Comfortable Operating Space**

All the controls are designed and positioned according to the latest ergonomic research.

Reinforced pillars have also been added for greater cab rigidity.

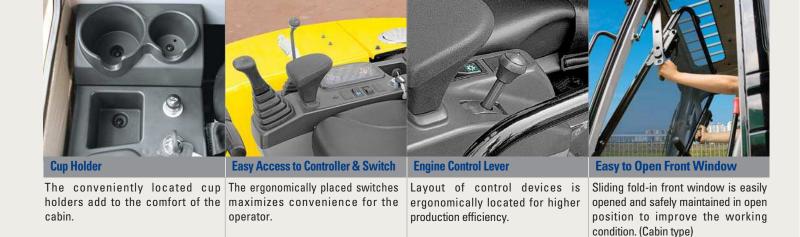


Wide enough canopy and high quality suspension seat by absorbing digging shock prevent operator tiredness.



## **Convenient and Comfortable Space**





Country of Machine Ma

# Powerful & Dynamic Work!

#### **Increased Higher Performance**



The R35Z-7 is designed for efficient work in congested residential and urban areas. The boom can be offset within a range of 125 degrees.



## **Powerful and Dynamic Work!**

additional lateral plate.





Country of Machine Ma



# Reliability and Serviceability

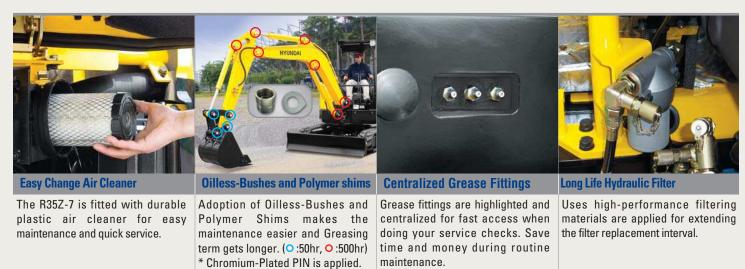
#### **Increased Higher Durability**



The R35Z-7 was built with accessibility in mind. All doors, covers and hoods were built for complete open access. You'll find that the R35Z-7 offers plenty of space to complete your regular maintenance and service hassle-free.



#### **Reliability and Serviceability**









endurance against the wear.



track which has outstanding through FEM(Finite Element against falling objects, ensuring Method) analysis and long term operator safety. durability test.



(ROPS, FOPS, TOPS STD.)

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# **Specifications**



#### Engine

	Yanmar 3TNV88		
	4 Cycle. In line, water cooled Diesel		
ywheel horse power			
J1995 (gross)	27.3 HP ( 20.3kW) at 2,200rpm		
J1349 (net)	26.5 HP ( 19.8kW) at 2,200rpm		
627 1/1 (gross)	27.7 HP ( 20.3kW) at 2,200rpm		
627 1/1 (net)	26.9 HP ( 19.8kW) at 2,200rpm		
que	10.8kgf·m at 1,200 rpm		
troke	ø 88mm x 90mm		
lisplacement	1,642cc		
S	12V - 80AH		
motor	12V - 2.3kW		
or	12V - 55A		
	J1995 (gross) J1349 (net) 627 1/1 (gross) 627 1/1 (net) rque troke isplacement s motor		

## Mydraulic System

Hydraulic Cylinder

Boom

Bucket

Boom swing

Dozer blade

Arm

No. of cylinder - bore x rod x stroke

Main pumps		
Туре	Two variable displacement piston pumps	
Rated flow	2 x 38.5lpm	
Sub-pump for pilot circuit	Gear pump	
Hydraulic motors		
Travel	Two speed axial piston motor with	
	counter balance valve and parking brake	
Swing	Axial piston motor with automatic brake	
Relief valve setting		
Implement circuits	230 Kgf / cm <sup>2</sup>	
Travel circuit	230 Kgf / cm <sup>2</sup>	
Swing circuit	230 Kgf / cm <sup>2</sup>	
Pilot circuit	30 Kgf / cm <sup>2</sup>	
Service valve	Installed	

85 x 45 x 540 mm

80 x 45 x 585 mm

70 x 45 x 510 mm

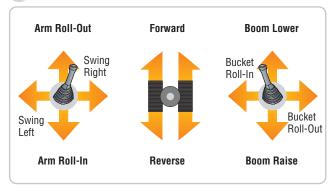
80 x 45 x 400 mm

95 x 50 x 152 mm

## Operator's Cab

Noise Levels (dynamic value)	
LwA	94dB
LpA	75dB

## Control.2 Implement Levers



Туре	
	Two joysticks with one safety lever
Pilot control	(LH): Swing and arm,
	(RH): Boom and bucket with horn (ISO)
Engine throttle	Mechanical, cable type
	- 1 work Lamp at RH side of boom
External Lamps	- Guarded floodlight at RH side of
	machine

#### **Travel Levers**

Traveling and steering: Two levers with pedals.

#### Swing System

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease - bathed
Swing brake	Multi wet disc
Swing speed	9.5rpm



#### Undercarriage

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricate rollers, track adjusters with shock absorbing springs and sprockets, and rubber shoe.

Center frame	X-leg type
Track frame	Pentagonal box type
No. of carrier roller on each side	1
No. of track roller on each side	4

#### **Drives & Brakes**

Max. travel speed(high) / (low)	4.5km / 2.5km	
Maximum traction force	3.1ton	
Maximum gradeability	30°	
Parking brake	Multi wet disc	



#### Coolant & Lubricant Capacity

(refilling)	liter	US gal	UK gal
Fuel tank	42	11.1	9.2
Engine coolant	5	1.32	1.1
Engine oil	6.7	1.77	1.5
Hydraulic tank	46	12.2	10.1



#### Weight (approximate)

Operating weight, including 2,500 mm (9' 8") boom, 1,300 mm (5'1") arm, SAE heaped 0.11 m³ (0.14 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Shoe Width		Rubber shoe 300 mm (12")
Operating Weight	Cabin	3,650 Kg (8,050lb)
Operating weight	Canopy	3,500 Kg (7,720lb)
Ground Pressure	Cabin	0.34 kg / cm² (4.83psi)
	Canopy	0.32 kg / cm² (4.55psi)



#### Digging Force (ISO)

	3,200 kgf
Bucket	31,360 kN
	7,050 lbf
Arm	1,990 kgf
	19,500 kN
	4,390 lbf



#### **Buckets**

Capacity		Width		Maiaht	2,500mm Boom
SAE heaped	CECE heaped	Without side cutters	With side cutters	Weight	1,300mm Arm
*0.11m³ (0.14yd³)	0.09m³ (0.11yd³)	550mm (21.7")	580mm (22.8")	80kg (176lb)	

<sup>\*:</sup> Standard backhoe bucket : Applicable for materials with density 1600 kg/m³ (2,700 lb/yd³) or less

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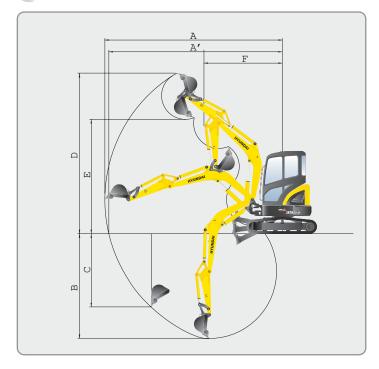
# **Dimensions & Working ranges**

# **Dimensions**



ITEM	R35Z-7
(A) Overall width of upper structure	1,500mm (4'11")
(B) Overall width of cab	1,050mm (3'5")
(C) Overall height of cab	2,500mm (8'2")
(D) Tail swing radius	870mm (2'10")
(E) Overall width	1,740mm (5'9")
(F) Clearance under counterweight	540mm (1'9")
(G) Ground Clearance	290mm (11")
(H) Tumbler distance	1,700mm (5'7")
(I) Track length	2,130mm (6'12")
(J) Track gauge	1,440mm (4'9")
(K) Track shoe width	300mm (12")
(L) Overall length	4,790mm (15'9")

## Working Range



	ITEM	
	Boom length	2,500mm (8'2")
	Arm length	1,300mm (4'3")
(A)	Max. digging reach	5,360mm (17'7")
(A')	Max. digging reach at ground	5,240mm (17'2")
(B)	Max. digging depth	3,150mm (10'4")
(C)	Max. vertical wall digging depth	2,190mm (7'2")
(D)	Max. digging height	4,830mm (15'10")
(E)	Max. dumping height	3,450mm (11'4")
(F)	Min. swing radius	2,350mm (7'9")

## **Lifting Capacities**



Rating over-front Rating over-side or 360	degree
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• Boom: 2.50m (8' 2") • Arm: 1.30 m (4' 3") • Bucket: 0.11 m³ SAE heaped • Shoe: 300mm(12") rubber track and 420kg (925 lb) counterweight

- 1	Landonine		Load radius						At max. reach				
	Load point height m(ft)		1.0 (((3.3 (t)		2.0 m(6.6 ft)		3.0 m(9.8 ft)		4.0 m(13.1 ft)		Capacity		Reach
1					r r								m (ft)
	4.0 m	kg		İ		1		I		l	600	510	3.94
	13.1 ft	lb		1				l I		 	1320	1120	(12.9)
	3.0 m	kg							560	470	420	360	4.74
	9.8 ft	lb		i		İ		İ	1230	1040	930	790	(15.6)
	2.0 m	kg					890	750	540	460	360	300	5.11
	6.6 ft	lb		i		i	1960	1650	1190	1010	790	660	(16.8)
	1.0 m	kg				1	830	690	520	440	340	290	5.18
	3.3 ft	lb		į		į	1830	1520	1150	970	750	640	(17.0)
	Ground	kg			1570	1260	790	650	500	420	360	300	4.98
	Line	lb			3460	2780	1740	1430	1100	930	790	660	(16.3)
_	-1.0 m	kg	*2100	*2100	1590	1270	780	650	500	420	440	370	4.45
	-3.3 ft	lb	*4630	*4630	3510	2800	1720	1430	1100	930	970	820	(14.6)
	-2.0 m	kg		i	1630	1310	810	670				i	
	-6.6 ft	lb			3590	2890	1790	1480				1	

- NOTES

  1. Lifting capacity is based on SAE J1097, ISO 10567.
  2. Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook (standard equipment) located on the back of the bucket. 4. (\*) indicates load limited by hydraulic capacity.

#### **Standard Equipment**

#### ISO standard canopy

· Canopy ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117)

#### **Centralized monitoring**

Gauges

Fuel level gauge

Engine coolant temperature gauge

Warning

Quick clamp

Engine oil pressure

Engine coolant temperature

Preheat Low battery

Air cleaner closing

Fuel empty Door and locks, one key

AM/FM radio and cassette

Mechanical suspension seat with seat belt

Console box tilting system(LH.) Two front working lights

Electric horn

Battery (1 x 12 V x 80 AH)

Battery master switch

Automatic swing brake

Removable reservoir tank

Water separator, fuel line

Counterweight (420 kg, 925 lb) Mono boom (2.5 m, 8'2")

Arm (1.3 m, 4' 3")

Rubber crawler (300mm, 12")

Single acting piping (Breaker, etc)

Double acting piping (Clamshell, etc)

#### **Optional Equipment**

· Cabin ROPS(ISO 3471) FOPS(ISO 3449)

TOPS(ISO 12117)

· All-weather steel cab with all-around visibility

· Safety glass windows

· Sliding fold-in front window

· Sliding side window · Lockable door

· Accessory box & Ash-tray

Air-conditioner

Beacon lamp

Accumulator, work equipment lowering

Travel alarm

Quick coupler

Steel shoe (300mm, 12")

Tool kit

Operator suit

Heater & Defroster

Lever Pattern Change Valve