

KATO

**SUPER
EXCEED**®

HD823MR/HD823MR-LC

Fully hydraulic excavator

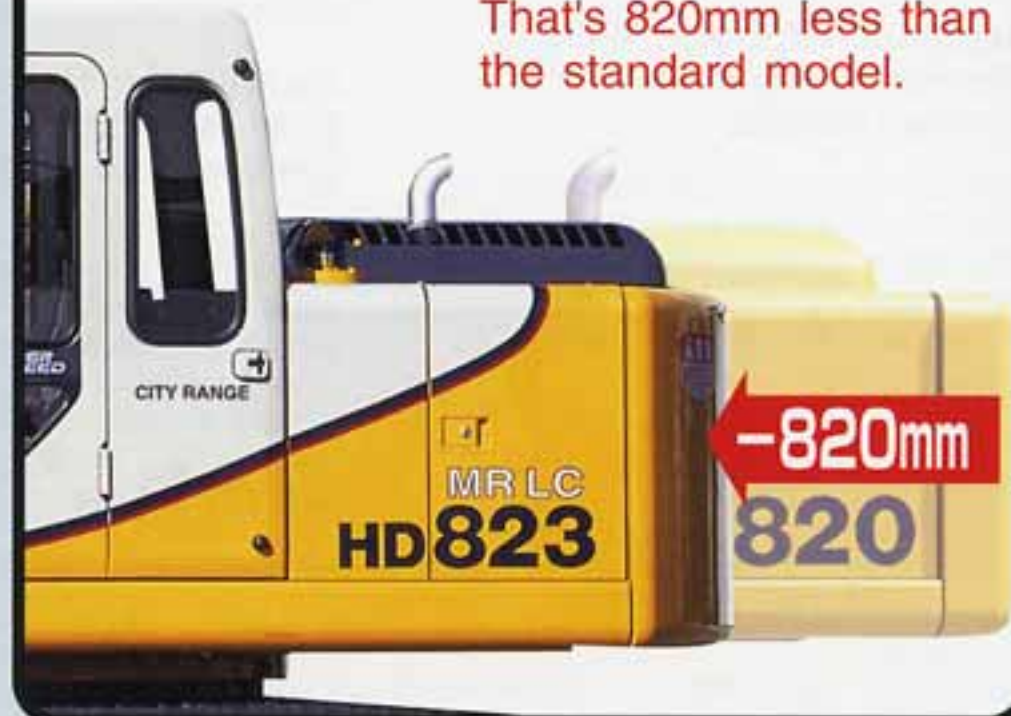
• Bucket capacity: 0.8 ~ 1.1 m³

Compact tail swing model

CITYRANGE

Tail swing radius is a compact **1,980mm**

That's 820mm less than
the standard model.



We've pulled the tail swing radius way in, but this machine handles big work. It's just the ticket for tight spaces.

Its value really shines in urban civil work, road widening work, building foundation work, demolition work, and logging road construction.

This "compact tail swing excavator", the HD823MR CITYRANGE, proudly debuts with a design incorporating extensive research of user needs and ideals for the 21st century. **At 1,980mm, it is smaller than the 12t class. The tail fits within the length of the track shoes allowing you to work smoothly when swinging, without having to worry about tail clearance.**



Breaker piping (optional)

A big performer in small spaces, the "compact tail swing excavator" doesn't need much space.

■ The tail has been designed to be short and compact. Compared to the standard model, the tail swing radius has been reduced to 1,980mm. This machine can operate freely in tight job-sites that standard models cannot enter. It can be positioned right next to a wall or obstruction without having to worry about tail clearance. It can be used widely in confined spaces, such as for work next to walls or cutting side channels.

■ The small swing bracket, which is standard equipment, takes advantage of the front swing performance, which is smaller than the tail swing radius. Demolition of large buildings can be performed efficiently.

■ For road construction, where a standard model would cause traffic jams or road closure, the "compact tail swing excavator" can allow closure of one lane, reducing the obstruction to traffic flow.

Solid balance, exceptional stability and performance, equivalent to standard sized models

■ An oversized counterweight and one class heavier duty travel-related parts are utilized. In addition, the frame is made stronger to achieve balance and stability performance equivalent to or greater than standard sized models.

Checking safety has been improved. The operator's field of vision is wider with the right-side "wide view" feature.

■ The frontal field of vision is very wide, as before, but the machine compartment on the right side has been moved toward the rear so that the field of vision to the right is significantly improved. Along with the benefits of a reduced swing radius, swing operation at confined job-sites can now be smoother.

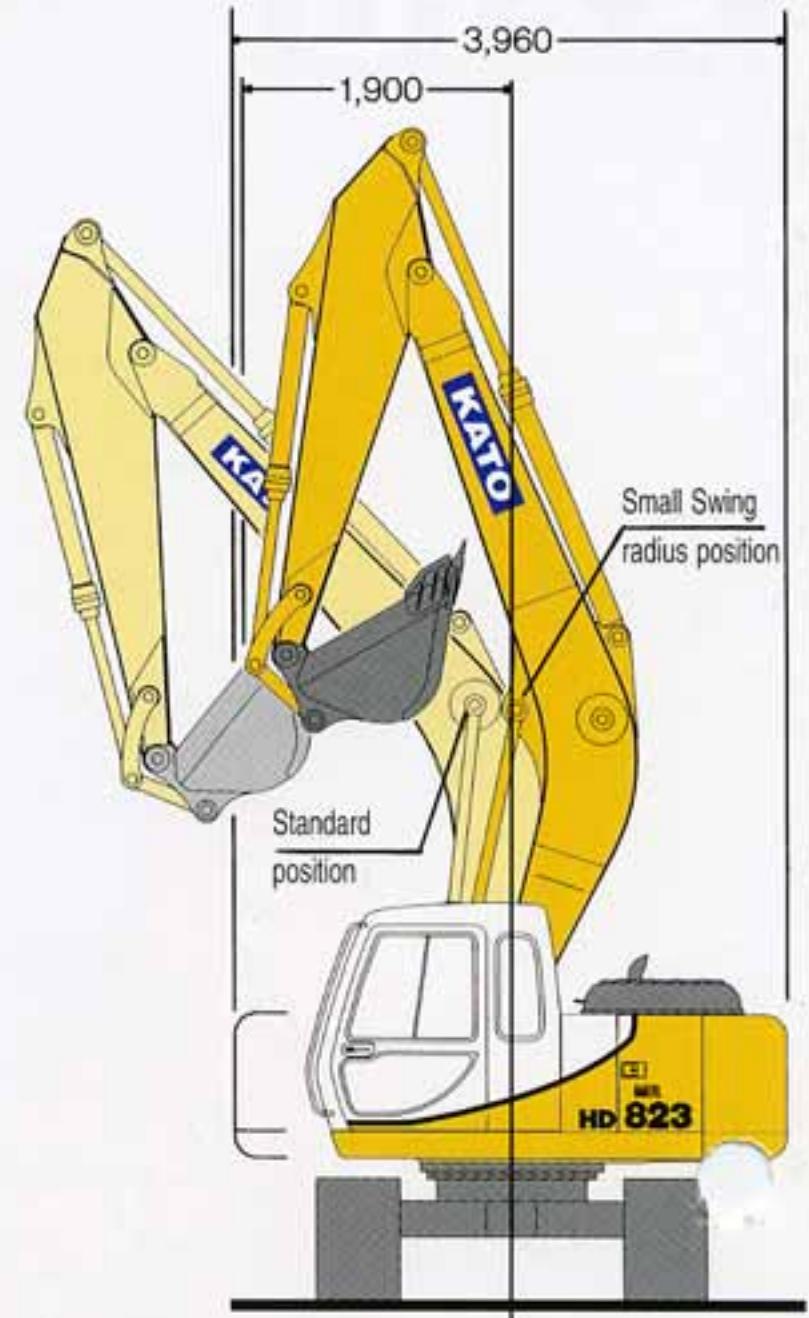


A smooth ride and comfortable operator space

■ A comfortable ride is assured by providing a 1 meter wide cab as the standard sized model.

As with the standard model, the digging range and digging force are greater than anything in its class.

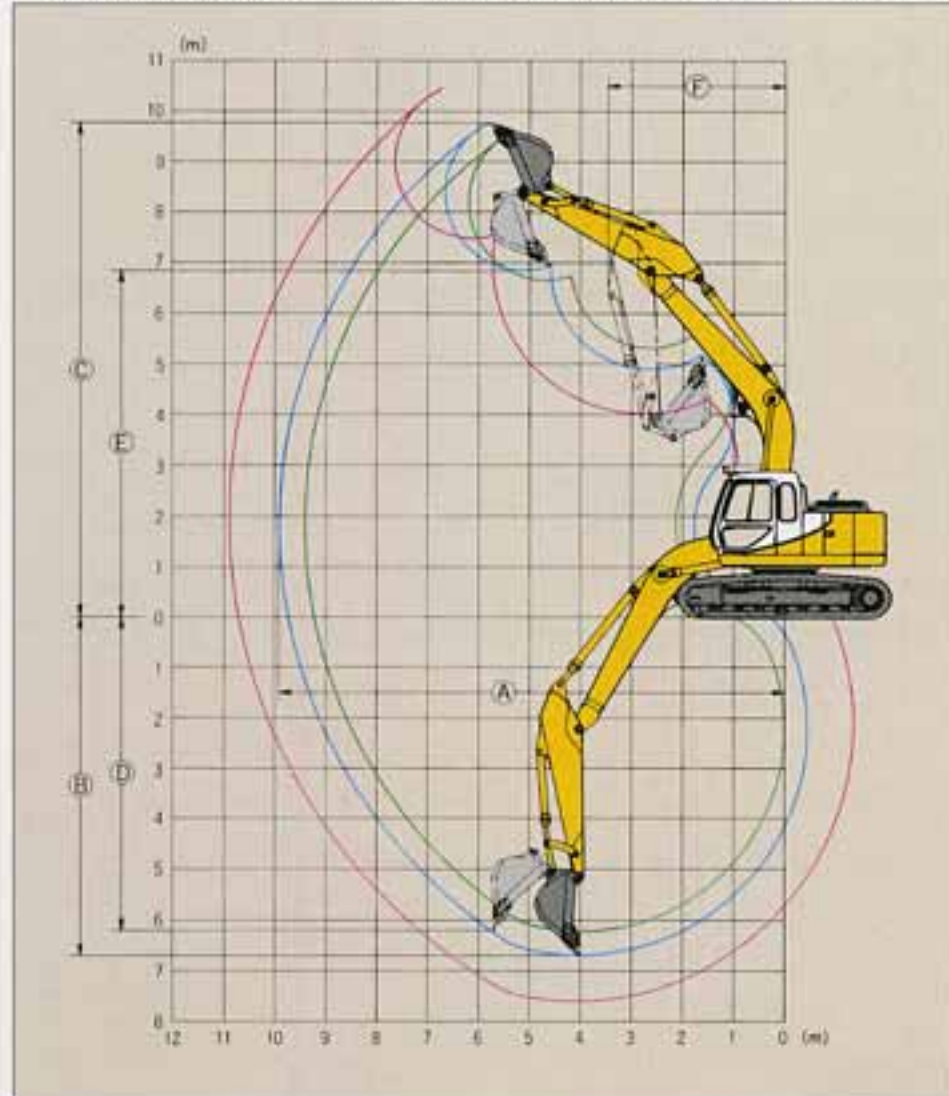
■ The digging depth, working radius, vertical wall, digging height and digging force are equivalent to or greater than the standard model, the best in their class (Equipped with standard arm). There's plenty of power and performance to handle a wide range of applications, like road construction, digging building foundations, digging pipe ditches, or demolition work.



- Depending on operating conditions, the new APC computer system uses 4 work modes.
- In addition to the highest digging force in its class, a "high power" system is utilized.
- A very tough high output 103kw(140ps) treated exhaust "clean" engine, a high reliability "Synchropower" control, and new hydraulic circuits are utilized.
- The boom and arm have accelerating and repeat functions which make speedy work of leveling operations.
- Choose freely from 3 travel speed modes. The speed automatically changes at high speeds for easy steering.
- Unnecessary fuel consumption has been cut way back, with the "auto-slow" system and "one-touch slow" system.
- The "shockless" feature softens the shock of shutting off the boom or arm cylinder circuits.

- The suspension seat includes a weight adjustment feature to improve operator comfort.
- The shockless valve prevents inertial moving when stopping swing maneuvers.
- Cab suspension utilizes a comfortable six-point viscous damping cab suspension.
- The holding valve on the arm and boom prevent the attachments from drifting down.
- The travel system and stability allows the powerful digging force.

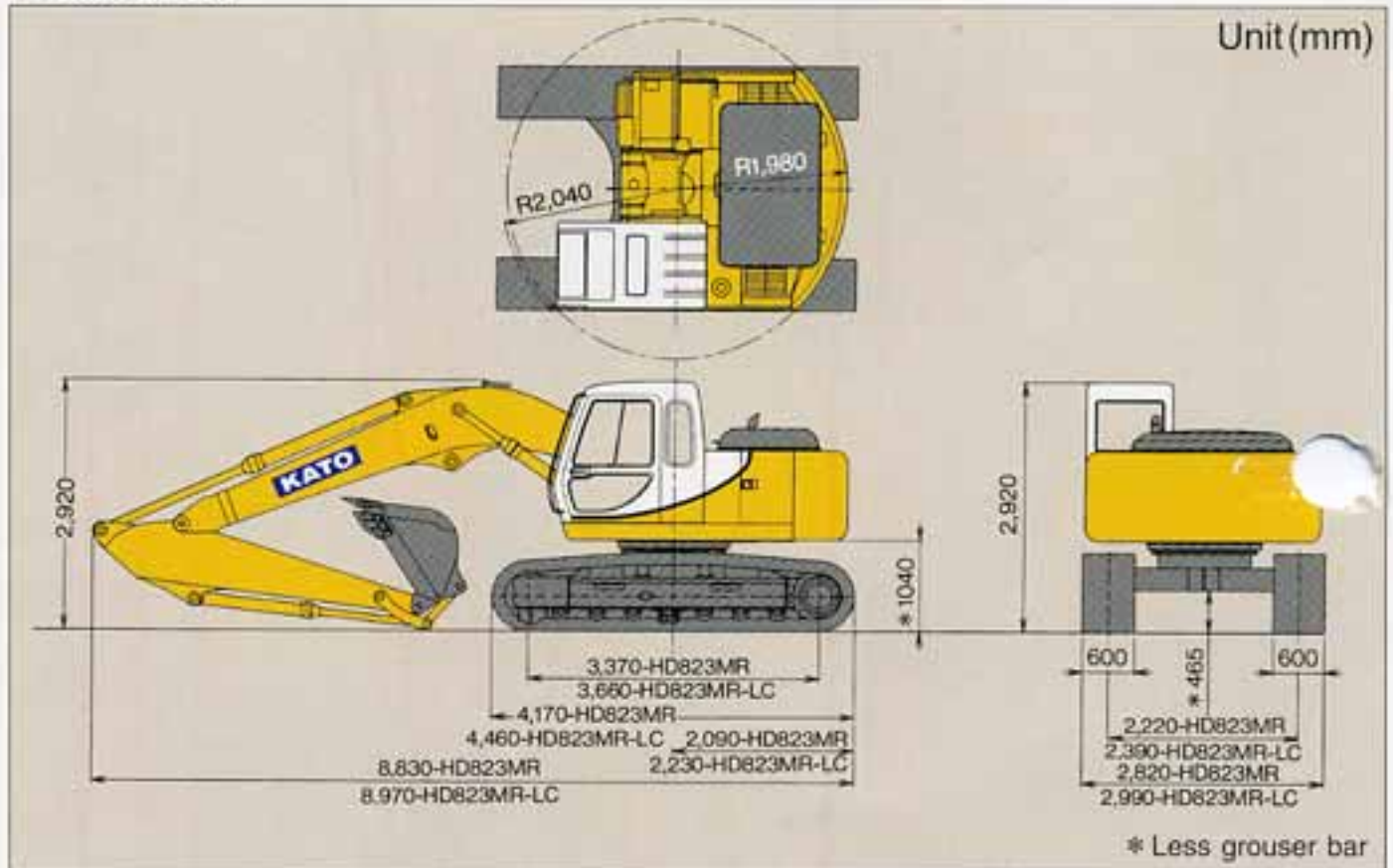
■ **Working ranges** • With the bucket reversed it can be used as a shovel.



	Short arm	Standard arm	Long arm
A. Max. digging radius (mm)	9,470(9,470)	9,910(9,910)	10,810(10,810)
B. * Max. digging depth (mm)	6,210(4,760)	6,700(5,260)	7,700(6,240)
C. * Max. digging height (mm)	9,550(10,930)	9,760(11,290)	10,210(12,080)
D. * Max. vertical wall (mm)	5,640(4,260)	6,120(4,760)	7,170(5,770)
E. * Max. dumping height (mm)	6,620(7,850)	6,830(8,220)	7,260(9,010)
F. Max. swing radius (mm)	3,590(1,960)	3,460(1,900)	3,410(2,100)

* Less grouser bar Values in () are for the small swing position.

Dimensions



General data

	HD823MR	HD823MR-LC
Model name	HD823MR	HD823MR-LC
Operating weight	21,900 kg	22,600 kg
Bucket capacity	0.8 ~ 1.1 m ³ (ISO)	
Swing speed	13.5 min ⁻¹ (13.5 rpm)	
Travel speed	5.3/3.6/2.1 km/h	
Bucket/arm digging force	128.5 kN (13.1tf) / 93.2 kN (9.5tf) {high-power mode: 144.2 kN (14.7tf) / 104.0 kN (10.6tf)}	
Standard shoe width	600 mm	600 mm
Ground pressure	49.0 kPa (0.50 kgf/cm ²)	46.8 kPa (0.48 kgf/cm ²)
Engine model	Mitsubishi 6D34-T, 4-cycle turbo-charged diesel engine	
Rated engine output	103 kw / 2,200 min ⁻¹ (140 ps / 2,200 rpm)	
Fuel tank capacity	240 lit	
Hydraulic pump type	Double variable piston pump and gear pump	
Set pressure	29.4 MPa (300 kgf/cm ²)	32.9 MPa (335 kgf/cm ²) Travel only
Travel motor type	Piston motor × 2	
Hydraulic oil tank capacity	260 lit (level 150lit)	

• Note: Illustration shown may include optional equipment. KATO products and specifications are subject to improvements and changes without notice.



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