

OUTSTANDING PERFORMANCE

KM-B2400

24M the world's longest bridge inspection platform

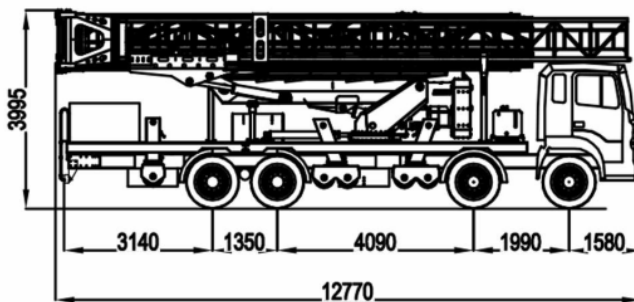
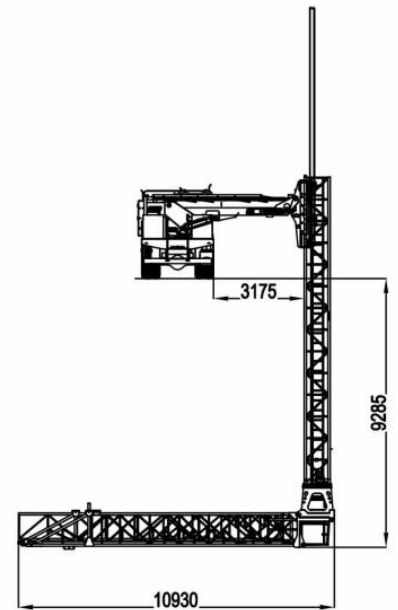
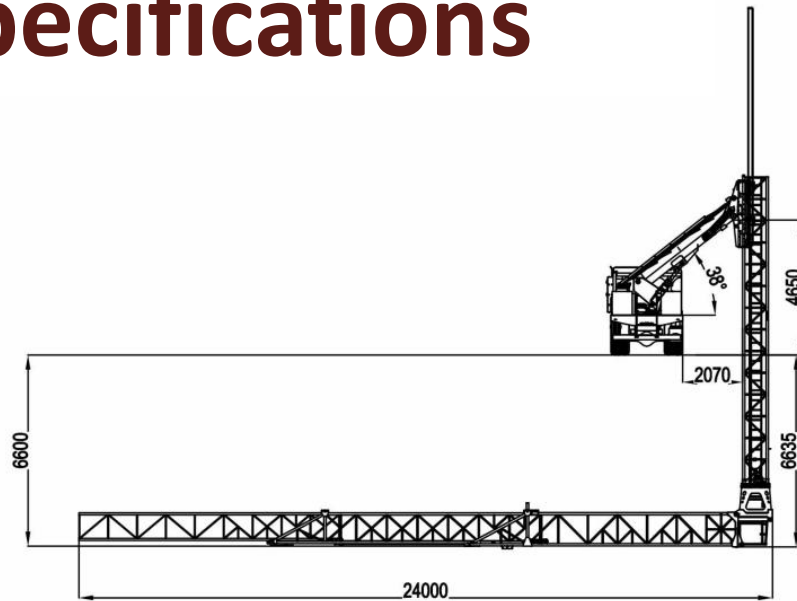


Outstanding Performance, Efficiency, Stability.

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Technology with Passion

Specifications



	KM-B2400	KM-B2000	KM-B1700	KM-B1650	KM-B1400	KM-B130
Shassis	HYUNDAI XCIENT Pro 19.5 ton	HYUNDAI XCIENT Pro 19.5 ton	HYUNDAI XCIENT Pro 19.5 ton	HYUNDAI PAVISE 11 ton	New MAN TGM 320, 5 ton	HYUNDAI MEGA 5 ton
Engine	540PS & ZF automatic transmission	540PS & ZF automatic transmission	540PS & ZF automatic transmission	325PS & ZF automatic transmission	320PS & ZF automatic transmission	280PS & ZF automatic transmission
Platform length	24 m	20 m	17 m	16.5 m	14 m	11.6 m
Platform width	1280 mm	1180 mm	1180 mm	1180 mm	1000 mm	1010 mm
Max. payload of platform	500 kg	600 kg	500 kg	500 kg	300 kg	300 kg
Max. payload of telescopic platform	150 kg	300 kg	250 kg	150 kg	150 kg	150 kg
Max. lowering depth	9.3 m	9 m	10 m	7.6 m	7 m	7 m
Max. crossing of sound barrier	4.6 m	5 m	5.8 m	4.9 m	6.5 m	6.5 m
Space required on bridge	3.2 m	3 m	4.5 m	3.7 m	3.5 m	3.3 m
Total weight of platform	33140 kg	32070 kg	36000 kg	23700 kg	16250 kg	14058 kg
Rotation range underbrige	180 degrees	180 degrees	180 degrees	180 degrees	110 degrees	110 degrees
Crane outriggers	3-way roller type	2-way roller type	3-way roller type	2-way roller type	2-way roller type	2-way roller type
Anemometer	O	O	O	O	-	-
Stainless steel staris with non-slip treads	O	O	O	O	-	-

< Common specifcation >

DC emergency pump / Load cell / PVG propotional valve / Limit switch / Motor drive / Power inverter / Wireless remote control / Cameras & Interphones / Joystick controller / Self-diagnosis system / Safety brake / Aluminum staircase

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Features



Chassis & Performance

- HYUNDAI XCIENT Pro 19.5 ton (8X4)
- 540PS & ZF 12-Speed automatic transmission (12 forward and 4 reverse speeds)
- 4-lane road width workable
- Highland bridges possible



Safety & Design

- Streamlined design that minimizes wind resistance
- Limit switch, Encoder & Safety brake
- Downsized and lightweight DC emergency pump
- Maximized bearing capacity with 3-way roller type crane outriggers
- Stainless steel stairs with non-slip treads & Aluminium staircase



Usability

- Large capacity power inverter & Supplementary battery
- 2-way lamp to display the vertical boom's angle
- 7-inch color touchscreen
- 4-channel monitoring cameras and monitors
- Platform movement joystick
- Interphones



Technology & System

- Integrated self-diagnosis system & Wireless remote control
- Tilt sensors for main and vertical boom
- Load cell system for a precessional measure of the platform's weight
- Stronger motor drive with double brakes, motion valve and large capacity drive motor
- An anemometer

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AT9C7-NOVUS 10X4 CAB CHASSIS,E3(420PS,16S,RHD)

Engine

Model	Doosan Infracore DX12 (Euro III)
Type	Turbo intercooler, diesel
Max. Power	420ps (308.9kw) / 1,800rpm
Max. Torque	193kg.m (1,893N.m) / 1,100rpm
No. of cylinder	In line 6 cylinder
Bore x Stroke	123 x 155(mm)
Displacement	11,051cc
Controller type	Electronic
Air cleaner	Dry paper elements

Transmission

Model	ZF16S2230TO
Type	Manual F16/R2
1st/2nd	13.80 / 11.54
3rd/4th	9.49 / 7.93
5th/6th	6.53 / 5.46
7th/8th	4.57 / 3.82
9th/10th	3.02 / 2.53
11th/12th	2.08 / 1.74
13th/14th	1.43 / 1.20
15th/16th	1.00 / 0.84
Reverse	12.92/10.80

Brakes

Service	Full air brake. Dual circuit ABS&ASR
Drum diameter	410 mm
Lining width Front	155 mm
Rear	220 mm
Material	Non-Asbestos
Parking	Acting on spring actuator at rear wheels
Auxiliary	Engine brake

Axles

Front	Reverse elliot "I" beam, Capacity : 14,200 kg
Pusher	Air spring, Capacity : 9,000 kg
Rear	Banjo single reduction Final drive ratio : 3.909, Capacity : 23,000 kg (option : 5.571)

Fuel Tank

Mounted on right-hand side of the frame	Capacity - 400 liter
Material : Steel	(option : Aluminum 400 liter)

Wheels & Tires

Front	12R22.5-16PR, 8.25 x 22.5
Pusher	385/65R22.5-18PR, 11.75 x 22.5
Rear	12R22.5-16PR, 8.25 x 22.5

Steering

Driving position	Right-hand drive
Type	Recirculating ball with integral Power assisted by oil
Steering column	Tilt & telescopic
Steering wheel	2-spoke wheel with horn button

Clutch

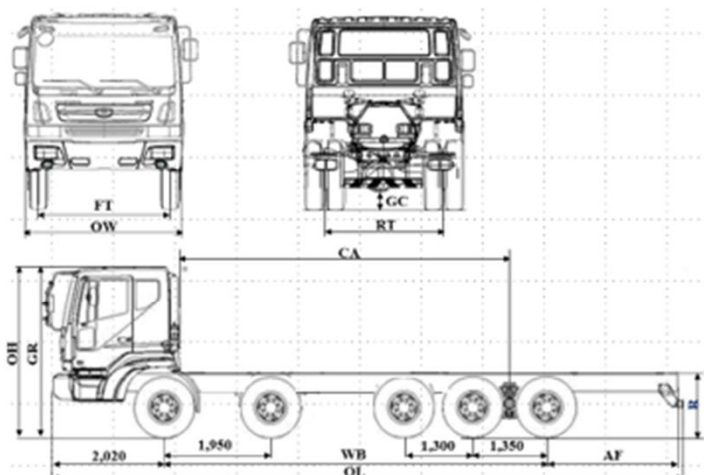
Type	Hydraulic control with air assisted Dry single plate with diaphragm
Plate diameter	Out side diameter : 430mm

Suspension

Front suspension	Type : Tapered leaf spring Size(LxW) : 1,900 x 100 (mm)
Rear suspension	Type : Semi-elliptical leaf spring Size(LxW) : 1,350 x 90 (mm)

Electrical System

Batteries	12 volt-150Ahx2
Alternator	24 volt / 60 amp
Starter	24 volt / 6.0kW



Dimensions (mm)

OL	Overall length	12,455
OW	Overall width	2,495
OH	Overall height	3,075
FT	Tread - front	2,077
RT	Tread - rear	1,855
WB	Wheelbase	7,800
AF	Rear axle to frame	2,535
GR	Ground to roof	3,075
R	Frame-ground above bogie	1,120
CA	Usable cab to axle	6,845
OS	Deck offset	-
GD	Ground to deck floor	-
GC	Min. ground clearance	250
	Deck inside length	-
	Deck inside width	-
	Deck inside height	-

Weights (kg)

Chassis weight	Front	6,480
	Rear	4,570
	Total	11,050
Curb weight		-
Axle load	Front	14,200
	Bogie	9,000
	Rear	23,000
Permissible G.V.W		45,000

Calculated Performance (@ Permissible G.V.W)

Max. speed(km/h)	114
Max. gradeability(%)	45.0
Min. turning radius (m)	11.9

Frame

Type	Ladder type, single channel
Size (HxVxT)	320 x 90 x 8 (mm)

- Dimension & Weight are approximate.
- Permissible weight includes upper body weight. Always observe national regulations on permissible axle loads and gross weight.



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