KOMATSU

WP08
Scaler

Safety

Reliability

Productivity

Indicative illustration only — machine design will vary.

Capacities	
Scaling height	6 512 / 7 507 mm
Operating weight	33 660 kg
Engine	
Engine rated power	180 kW

Specifications

Scaling

Boom type	6 m scaling	8 m scaling
Scaling height (roof)	2 000 - 6 512 mm	2 000 - 7 507 mm
Scaling height (wall)	500 - 6 250 mm	500 - 7 250 mm
Max. Scaling force	100 kN	100 kN
Typical compressive strength up to	50 MPa	50 MPa

Weights

Operating weight	33 660 kg
Axle weight without load	
Front axle	16 660 kg
Rear axle	17 000 kg

Driving speeds: unloaded (km/h)

Grade (%)	0	5	10	12.5	14.3	20	28
Driving mode (Hydrostatic)	17	9	5.5	4.8	4.3	3.2	2.4
Scaling mode (Hydrostatic)	5	5	5	5	4.3	3.2	2.4

Boom motion times (+/- 1 s)

Boom hoisting time	9.0 s
Boom lowering time	8.0 s
Scaling arm raising time	8.0 s
Scaling arm lowering time	7.0 s

Articulation motion times (+/- 1 s)

Turning time: right	2.8 s
Turning time: left	2.8 s

Electrical equipment

Alternator	28VDC, 100A
Batteries	2 x 12V, 95Ah
Starter	4 kW, 24V heavy duty
Driving and working lights	2 forward, 2 rear, 1 side, 3 working - LED type

Control system

Symbols, critical alarms and warning lights on display. Audible and visible alarms.

Instrument panel	Digital 12" touch display Illuminated buttons Camera display

Structural

Front and rear frames	Welded steel construction
Material	S 355J2 / S690

Powertrain

Engine	Deutz TCD 6.1 L06
Output	180 kW @ 2300 RPM
Displacement	6.1 L
No. of cylinders	6
Cooling type	Liquid-cooled
Certification	EPA Tier 4/EU Stage V
Exhaust system	DPF/SCR
Fuel tank capacity	300 L
Transmission	Hydrostatic drivetrain
Axles	Kessler
Front and rear	D91
Differentials, front	Open
Differentials, rear	Open
Brakes	Multi-disc spring brake SAHR, hydraulic actuated, externally cooled
Rear axle oscillation angle	+/- 10 degrees
Tires	23.50 - 25 L3 *

* As applications vary, local tire supplier should be consulted for appropriate tire.

Hydraulics

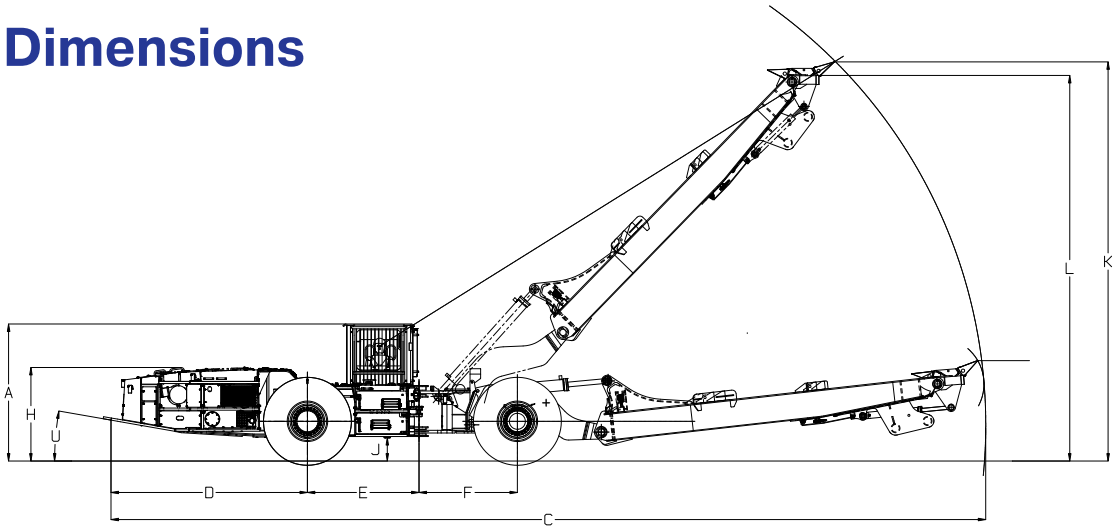
Hydrostatic drive with variable displacement EP piston pumps and motors. Working hydraulics with variable displacement piston pump with load sensing closed center circuit design for optimal efficiency, steering has priority over working hydraulics.

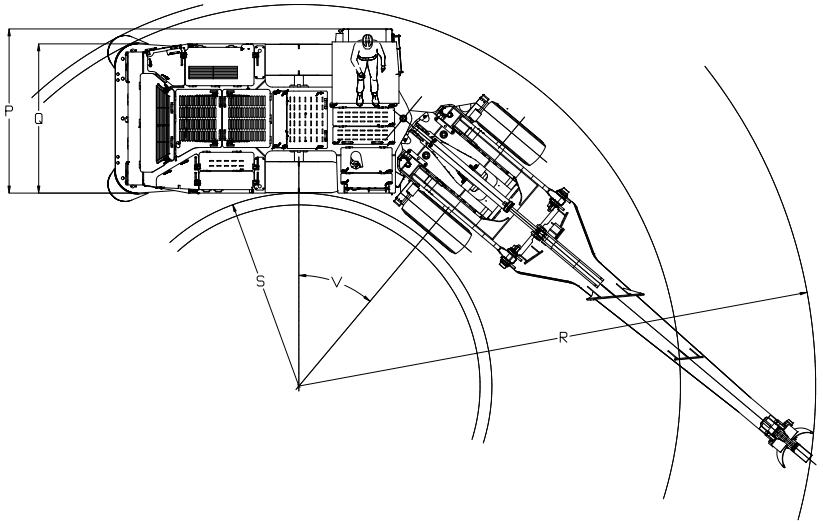
Boom control	Electric joystick controlled
Steering control	Electric joystick controlled
Scaling tool cylinder	One single stage, double acting cylinder
Scaling boom hoist cylinder	One single stage, double acting cylinder
Machine boom hoist cylinder	Two single stage, double acting cylinders
Steer cylinder	Two single stage, double acting cylinders
Hydraulic tank volume	540 L

Brake system

Service brakes are spring-applied, hydraulically released, wet multi-disc brakes on all four wheel ends. The SAHR brakes also function as emergency and parking brakes.

Dimensions





Overall dimensions

Boom type		6 m scaling	8 m scaling
A	Height - top of canopy	1 900 / 2 250 / 2 580 mm	1 900 / 2 250 / 2 580 mm
C	Length - tramming	14 562 mm	16 498 mm
D	Length - rear axle to bumper	3 705 mm	3 505 mm
E	Length - rear axle to articulation	2 100 mm	2 100 mm
F	Length - front axle to articulation	1 850 mm	1 850 mm
H	Height - top of hood	1 830 mm	1 830 mm
J	Height - ground clearance	443 mm	443 mm
K[1]	Minimum Scaling height (roof)	2 000 mm	2 000 mm
K	Maximum Scaling height (roof)	6 512 mm	7 507 mm
L[1]	Minimum Scaling height (wall)	500 mm	500 mm
L	Maximum Scaling height (wall)	6 250 mm	7 250 mm
P	Width - overall	3 450 mm	3 450 mm
Q	Width - rear frame	3 300 mm	3 300 mm
R	Turning radius - outside	8 874 mm	10 388 mm
S	Turning radius - inside	3 881 mm	3 881 mm
U	Departure angle	10 degrees	10 degrees
V	Turn angle	40 degrees	40 degrees

Equipment

Operator environment

Fixed seat including air suspension with adjustable pedal position	●
Intuitive two pedal control for accurate scaling	●
Safety cabin with ample legroom	●
FOPS certification according to EN ISO 3449, in addition calculated for 200t roof load	●
Three-point contact cabin access	●
12" touch display	●
Three cabin heights available (1900 mm, 2250 mm or 2580 mm)	○
Closed cabin - includes special protection polycarbonate windows	○
Air conditioning system	○
Protective ventilation system	○
5-pt. belt	○

Hydraulic system

EO2 hydraulic fittings	●

Electrical system

Battery main switch	●
Jump start interface	●
RFID machine access	○

Work enviroment

Boom variants	○
Wings	○

Safety

Articulation and boom safety lockout pins	●
Cabin door brake and steering interlock	●
Operator brake test	●
Emergency stop push buttons according to EN ISO 13850	●
BSS - Scaler Safety System	●
Heat insulation on exhaust system	●
Rotating beacon (via direction lights)	●
Rear view camera with monitor	○
Side view camera with monitor	○
Automatic or manual fire suppression	○

Maintenance and serviceability

Automated central lubrication	○
Spare wheel or rim	○
Tire Pressure Monitoring	○

Technology and automation

Remote monitoring	○

Standard equipment	●
Optional equipment	○