TECHNICAL DOCUMENT

SINN1.8T
1.8 Ton Mini Excavator

Technical Datasheet
For Landscaping, Trenching and Utility Work

A compact mini crawler excavator platform for overseas contractors, equipment distributors and rental fleets requiring practical digging performance, narrow-access maneuverability and attachment versatility.

OPERATING WEIGHT **1,800 kg** 3,968 lbs	**INSTALLED OUTPUT** **10.3 / 11.8 kW** @ 2300 rpm
AUXILIARY HYDRAULICS **33 L/min** at 20 MPa / 200 bar	**MAX. DIGGING DEPTH** **2245 mm** 7.36 ft
UNDERCARRIAGE OPTIONS **990–1300 / 1000–1350 mm** Retractable configurations	**ENGINE OPTIONS** **Kubota D722-E4B / D902** Three-cylinder diesel

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Reference Use: Product evaluation, configuration review and quotation preparation. Specifications and available configurations are subject to final quotation, destination-market requirements and production confirmation.

Engine & Configuration Selection

The SINN1.8T is offered with two Kubota three-cylinder diesel configurations. Installed machine output values below are stated at the governed 2300 rpm operating speed and should not be compared directly with gross industrial engine ratings published at higher rated speeds.

Configuration A — Kubota D722-E4B	Configuration B — Kubota D902
Installed Machine Output @ 2300 rpm 10.3 kW (13.8 HP / 14.0 PS) **Displacement** 0.719 L, three-cylinder liquid-cooled diesel **Recommended Use** Fuel-conscious landscaping, residential utility work, light trenching and general contractor or rental-fleet applications.	**Installed Machine Output @ 2300 rpm** 11.8 kW (15.8 HP / 16.1 PS) **Displacement** 0.898 L, three-cylinder liquid-cooled diesel **Recommended Use** Narrow-access work, attachment-intensive applications, continuous trenching and duty cycles requiring additional engine power reserve.

Configuration Matrix

Model Code	Engine	Installed Output	Retractable Width	Track Width	Selection Focus
SINN1.8T-A	Kubota D722-E4B	10.3 kW @ 2300 rpm	1000–1350 mm 39.4–53.1 in	230 mm	Wider working stance and fuel-conscious operation
SINN1.8T-B	Kubota D902	11.8 kW @ 2300 rpm	990–1300 mm 39.0–51.2 in	230 mm	Narrow-access priority and added engine power reserve

Power Rating Note. Applicable Kubota engine datasheets, including gross industrial output information, are available during quotation and configuration review. Final configuration should be selected according to access width, attachment package, expected duty cycle and destination-market requirements.

Technical Specifications

All values are reference specifications for the SINN1.8T product platform. Final machine weight, equipment and documentation depend on the selected configuration and export scope.

Item	Reference Specification	Item	Reference Specification
Machine Type	1.8 Ton Compact Hydraulic Crawler Excavator	Operating Weight	1,800 kg (3,968 lbs)
Configuration A	Kubota D722-E4B / 1000–1350 mm	Configuration B	Kubota D902 / 990–1300 mm
Installed Output A	10.3 kW @ 2300 rpm (13.8 HP / 14.0 PS)	Installed Output B	11.8 kW @ 2300 rpm (15.8 HP / 16.1 PS)
Bucket Capacity	0.04 m³ (1.41 ft³)	Track Type	230 mm heavy-duty rubber tracks
Tail-Swing Type	Short-tail swing, compact radius	Boom Swing	Left 55° / Right 50°
Maximum Digging Depth	2245 mm (7.36 ft)	Maximum Vertical Digging Depth	1910 mm (6.26 ft)
Maximum Digging Radius	3920 mm (12.86 ft)	Maximum Digging Height	3570 mm (11.71 ft)
Maximum Dumping Height	2450 mm (8.04 ft)	Overall Transport Length	3860 mm (12.66 ft)
Operating Height — Canopy On	2300 mm (7.54 ft)	Transport Height — Canopy Off	1580 mm (5.18 ft)
Travel Speed	2.2 / 4.2 km/h, two-speed travel	Swing Speed	10 rpm
Auxiliary Flow	33 L/min	Auxiliary Pressure	20 MPa (200 bar / 2,900 psi)
Main Control System	Pilot-controlled hydraulic layout	Auxiliary Circuit	Standard double-acting circuit
Bucket Breakout Force	18 kN class	Arm Breakout Force	14 kN class

Operating Weight Note. Final weight may vary according to engine selection, undercarriage configuration, canopy or cab option, bucket, attachments, fluid levels and market-specific equipment. **Hydraulic Matching Note.** Attachment selection must be confirmed according to attachment flow, pressure, weight, hydraulic connection requirements and intended application.

Working Range, Applications & Procurement Reference

Working Range Reference

Working Range Item	Reference Value
Maximum Digging Depth	2245 mm (7.36 ft)
Maximum Vertical Digging Depth	1910 mm (6.26 ft)
Maximum Digging Radius	3920 mm (12.86 ft)
Maximum Digging Height	3570 mm (11.71 ft)
Maximum Dumping Height	2450 mm (8.04 ft)
Boom Swing	Left 55° / Right 50°

Typical Applications

Application	Typical Work Scope
Residential Landscaping & Yard Construction	Tree-pit excavation, garden grading, drainage-channel work, pond excavation and backyard access applications.
Utility Trenching & Service-Line Installation	Water, drainage, electrical and communications service-line trenching with compatible narrow trenching buckets and auxiliary attachments.
Hardscape Preparation & Light-Duty Demolition	Patio-base excavation, small retaining-wall footing work, curb-line excavation and light-duty slab preparation with matched attachments.
Confined-Space Excavation	Narrow gates, side yards, alleys and restricted-access work areas where larger excavators are less practical.

Attachment Compatibility

Standard digging bucket · Narrow trenching bucket · Ditching or grading bucket · Hydraulic thumb · Hydraulic auger · Quick coupler · Light-duty hydraulic breaker · Ripper and rake. Final attachment matching is subject to hydraulic flow, pressure, attachment weight, coupler type and configuration confirmation.

Operator Protection & Market Compliance

The SINN1.8T can be configured with applicable Kubota engine packages for US EPA Tier 4 Final and EU Stage V market requirements. ROPS/FOPS canopy or cab options, CE conformity documentation and supporting safety records are confirmed according to the final machine configuration, operator-station specification and destination-market requirements. Certification status, test reports and available supporting documentation shall be confirmed before order release.

Export & Procurement Reference

A detailed container-loading plan, including 20GP or 40HQ capacity, is confirmed according to the final configuration, attachment package, canopy arrangement and packing-frame design. For quotation preparation, provide the destination country, required emissions market, preferred engine configuration, required undercarriage width, attachment package, expected order quantity and any OEM branding requirements.