

KISN

ZERO SURPRISES

RC EXPLORATION DRILLING EQUIPMENT

A complete reverse-circulation drilling system, built around field reliability, controlled samples and export-ready support.

2026 PRODUCT BROCHURE

QINGSEN (TANGSHAN) MACHINERY EQUIPMENT CO., LTD.



KISN, BUILT ON REAL MANUFACTURING



WHO WE ARE

KISN is the export product brand of Qingsen (Tangshan) Machinery Equipment Co., Ltd. Our drilling-equipment manufacturing base serves water-well and reverse-circulation applications.

Rig manufacturing, drilling tools, air-power matching and technical support come together in a coordinated drilling solution.

2002

MANUFACTURING BASE ESTABLISHED

7,000 m²

PRODUCTION BASE

30+

INVENTION AND UTILITY MODEL PATENTS

FROM WORKSHOP TO WELLHEAD



IN-HOUSE CAPABILITY

Product display, fabrication, assembly, quality inspection and field support connect the manufacturing base with the drilling site.

- 01 Rig and tool configuration
- 02 Processing and assembly
- 03 Inspection and quality control
- 04 Air-power system matching
- 05 Technical training
- 06 Delivery and service support

ONE SYSTEM. ONE RESPONSIBLE PARTNER.

A coordinated equipment package for drilling progress, sample handling and field support.

01 RC DRILLING RIGS

Four configurations from compact RC500L to high-capacity RC1200L.

02 RC HAMMERS & BITS

Tool selection matched to diameter and geological requirements.

03 MOBILE AIR POWER

High-pressure diesel compressors matched to rig air demand.

04 SITE SUPPORT

Configuration, commissioning guidance, spares and technical response.



Configure the rig, drill string and air supply around the required diameter, depth and formation.

RIG + TOOLS + AIR POWER + SUPPORT

THE RC ADVANTAGE

Reverse circulation drilling conveys cuttings through the inner tube, helping keep the sample path controlled and supporting reliable geological interpretation.

01

DRILLING

The hammer drives the bit through formation.

02

AIR LIFT

Compressed air lifts cuttings from the borehole.

03

INNER RETURN

Samples travel through the inner tube.

04

COLLECTION

Representative chips are separated and bagged.



THE RC RIG RANGE

FOUR CONFIGURATIONS FOR RC EXPLORATION

RC500L

Compact RC solution

400 m max. depth



RC800L

High-output field rig

600 m max. depth



RC800A

Automatic rod handling

600 m max. depth



RC1200L

Deep exploration platform

1,000 m max. depth



Refer to each model page for its technical configuration.

RC500L

COMPACT RC PERFORMANCE FOR DEMANDING ACCESS



MODEL PROFILE

A manoeuvrable RC rig for projects requiring dependable drilling performance in a compact field package.

TECHNICAL CONFIGURATION

Hole diameter	105-400 mm
Maximum depth	400 m
Air pressure	1.2-3.5 MPa
Air consumption	16-55 m³/min
Rock drillability	F4-F22
Drill rod	3 m / Ø102 or Ø114 mm
Drilling angle	45°-90°
Feed / pull force	70 / 250 kN
Rotary torque	10,000 / 5,000 N·m
Rotary speed	0-75 / 0-150 rpm
Engine	Cummins 6BTA5.9-C180 / 132 kW
Hydraulic oil tank	240 L
Winch	15 kN / 60 m
Travel speed / gradeability	2.5 km/h / 21°
Dimensions	7,000 × 2,100 × 2,800 mm
Operating weight	12,000 kg
Recommended hammer	RC45 / RC55

RC800L

HIGH-OUTPUT RC PLATFORM



MODEL PROFILE

A versatile long-stroke platform designed for higher air-flow RC drilling and strong feed performance.

TECHNICAL CONFIGURATION

Hole diameter	105-550 mm
Maximum depth	600 m
Air pressure	1.6-8.0 MPa
Air consumption	16-96 m³/min
Rock drillability	F4-F22
Drill rod	6 m / Ø114 or Ø127 mm
Drilling angle	45°-90°
Feed / pull force	110 / 470 kN
Rotary torque	18,000 / 9,000 N·m
Rotary speed	0-70 / 0-140 rpm
Engine	Cummins 6CTA8.3-C240 / 179 kW
Hydraulic oil tank	350 L
Winch	25 kN
Travel speed / gradeability	5 km/h / 21°
Dimensions	10,500 × 2,250 × 3,300 mm
Operating weight	17,000 kg
Recommended hammer	RC45 / RC55

RC800A

AUTOMATED ROD HANDLING, RC PERFORMANCE



MODEL PROFILE

An RC800 configuration with automatic rod handling to improve workflow consistency and reduce manual handling at the drill floor.

TECHNICAL CONFIGURATION

Hole diameter	104-550 mm
Maximum depth	600 m
Air pressure	1.6-8.0 MPa
Air consumption	16-96 m³/min
Rock drillability	F4-F22
Drill rod	6 m / Ø114 or Ø127 mm
Auto rod handling	Ø89-200 mm
Rod rack	Ø114 × 6,000 mm / 20 rods
Feed / pull force	110 / 470 kN
Rotary torque	18,000 / 9,000 N·m
Rotary speed	0-70 / 0-140 rpm
Engine	Cummins 6CTA8.3-C240 / 179 kW
Hydraulic oil tank	350 L
Winch	25 kN
Travel speed / gradeability	5 km/h / 21°
Dimensions	10,500 × 2,750 × 4,680 mm
Operating weight	20,000 kg
Recommended hammer	RC45 / RC55

RC1200L

DEEP EXPLORATION, HIGH-CAPACITY RC



MODEL PROFILE

The high-capacity model in the series, configured for deeper targets, larger drilling diameters and demanding exploration programs.

TECHNICAL CONFIGURATION

Hole diameter	105-800 mm
Maximum depth	1,000 m
Air pressure	1.6-8.0 MPa
Air consumption	16-96 m³/min
Rock drillability	F4-F22
Drill rod	6 m / Ø127 or Ø146 mm
Drilling angle	45°-90°
Feed / pull force	130 / 570 kN
Rotary torque	24,000 / 12,000 N·m
Rotary speed	0-86 / 0-172 rpm
Engine	Weichai 220 kW / Cummins 360 option
Hydraulic oil tank	350 L
Winch	25 kN
Travel speed / gradeability	6.4 km/h / 21°
Dimensions	11,500 × 2,250 × 3,400 mm
Operating weight	23,000 kg
Recommended hammer	RC45-RC160

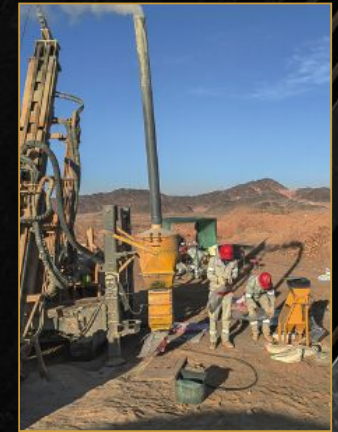
FIELD APPLICATIONS / MINERAL EXPLORATION

Field photographs from the original factory brochure. Equipment and site details are preserved.

KYRGYZSTAN / RC EXPLORATION



SUDAN / RC EXPLORATION



NAMIBIA / RC EXPLORATION



ORIGINAL FIELD PHOTOGRAPHS

FIELD APPLICATIONS / CONTINUOUS DRILLING



FIELD PROVEN

Project conditions differ. We work from required diameter, drilling depth, formation and air supply to create an appropriate equipment package.



RC HAMMERS & BITS



MATCHED TOOLING FOR RC WORK

KISN supplies RC hammer and bit options for the drilling diameter, target formation and sample-recovery objective. The final tool package is configured with the selected rig and compressor.

RC35	~93–102 mm	Small-diameter RC
RC45	~102–114 mm	General RC drilling
RC55	~114–127 mm	Common exploration range
RC60	~127–146 mm	High-flow RC
RC90	~165–203 mm	Large-diameter RC
RC120 / 160	Project-specific	Heavy-duty range

Confirm formation and desired diameter before final hammer / bit selection.

MOBILE HIGH-PRESSURE AIR POWER

MATCH AIR VOLUME AND PRESSURE TO THE RIG, HAMMER AND FORMATION.

KISN SDP1200L

DIESEL MOBILE COMPRESSOR



AIR DELIVERY	35 m³/min
WORKING PRESSURE	3.0 MPa
ENGINE POWER	410 kW
WEIGHT	7,000 kg

KISN 1100K

DIESEL MOBILE COMPRESSOR



AIR DELIVERY	33 m³/min
WORKING PRESSURE	2.5 MPa
ENGINE POWER	353 kW
WEIGHT	5,000 kg

Air-compressor selection should follow the air volume and pressure of the final drilling configuration.

PARTS, SPARES & CONFIGURATION



CRITICAL SPARES

Wear parts and key consumables can be configured with the initial order.

ROD & TOOL PACKAGE

Rods, hammers, bits and related tooling are selected for rig compatibility.

PROJECT CONFIGURATION

Match rod handling, air power and auxiliary equipment to the target work.

TECHNICAL RESPONSE

Configuration records give the service team the relevant machine context.

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YOUR NEXT DRILLING PROJECT

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