

SCX DE110

DESIGNED BY SANDVIK

SCX
SUNNY CORNER
EXPLORATION

Compact Underground & Surface Core Drill

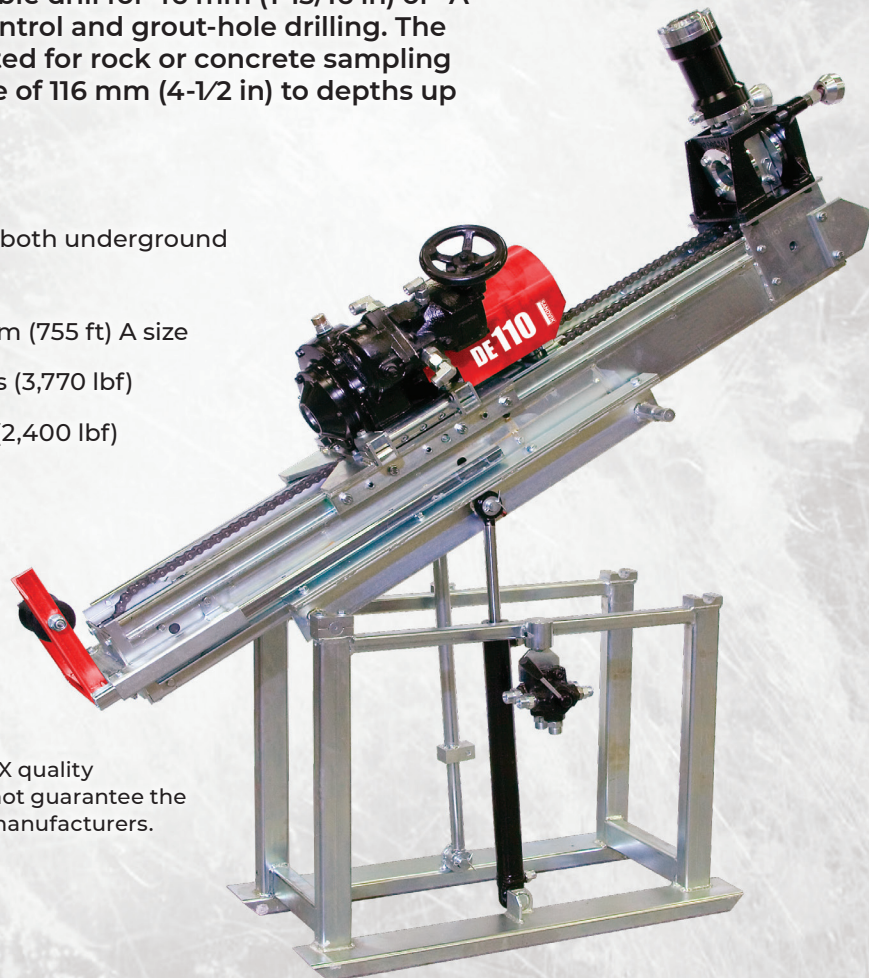
TECHNICAL SPECIFICATION

The SCX DE110 is the smallest member of the family and has been designed as a portable drill for 46 mm (1-13/16 in) or "A" size exploration, grade control and grout-hole drilling. The SCX DE110 is also well suited for rock or concrete sampling with a maximum hole size of 116 mm (4-1/2 in) to depths up to 30 m (100 ft).

This unit is equally suited for both underground and surface applications.

- ▶ Depth capacity of 230 m (755 ft) A size
- ▶ Feed force of 1.7 tonnes (3,770 lbf)
- ▶ Pull force of 1.1 tonnes (2,400 lbf)

SCX recommends using only SCX quality manufactured parts. SCX does not guarantee the consistency or quality of other manufacturers.



Version 1

Image for illustration purpose only, please refer to the order specification for exact rig



SCX DE110

Compact Underground & Surface Core Drill

KEY FEATURES

- CE marked to meet European standards (Conformité Européenne)
- Rotating rod guard with interlock
- All hydraulic operation
- Synchronized rod handling
- Compact and portable by vehicle or helicopter
- Control panel for central control of all drilling operations
- Torque and RPM adjustable to suit rock formation
- Double hydraulic pump for water pump drive
- Jaws for 33.5mm, 46mm and 50mm drill rods
- 360 degree turn table mounted to the frame

OPTIONS

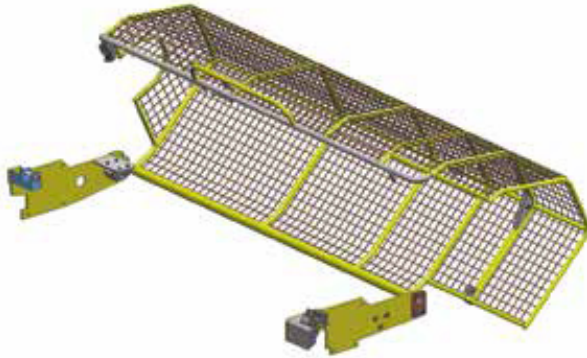
- Rod holder / rod clamp 119 mm
- Low gear high torque rotation unit

STANDARD FEATURES



ROTATING ROD GUARD

Rotating rod guard supplied	Yes
Feed boom fully enclosed	Yes
Interlock to stop rotation on open	Yes



ROTATION UNIT A SIZE 1700 RPM

	Metric	Imperial
Hollow spindle - ID	51 mm	2 in
Torque @ 670 RPM	170 Nm	125 lbf ft
Torque @ 1,700 RPM	68 Nm	50 lbf ft
Rotation speed	0 - 1,700 RPM	
Number of jaws	2	
Gripping range	39 - 50 mm	1.5 -2 in

Speed, infinitely variable up to 1,700 RPM. Clamping by spring action, opened hydraulically. Rod guides and jaws for 46 mm/A size supplied.

POWER UNIT - ELECTRIC

	Metric	Imperial
Power	15 kW	20 hp
Maximum working pressure	175 bar	2,540 psi
Maximum oil flow (hydraulic oil)	45 l/min	12 USgal/min
Tank volume (oil)	16l	4.2 USgal

ROD HOLDER / ROD CLAMP

	Metric	Imperial
Number of jaws	2	
Gripping range	39 - 50 mm	1.5 - 2 in
Gripping range/set of jaws	20 mm	0.79 in
Maximum opening (no jaws or guides)	80 mm	3.15 in

FEED BOOM

	Metric	Imperial
Feed force	16.8 kN / 1.7 t	3,770 lbf
Pull force	10.7 kN / 1.1 t	2,400 lbf
Feed length (stroke)	800 mm	31.5 in
Total length	1,680 mm	66 in
Feed rate, Rod running max	1.1 m/s	43 in/s
Feed rate, drilling max	0.08 m/s	3.5 in/s
Practical rod running speed	10-12 m/min	32-40 ft/min

Feed boom is made of stiff and resistant steel profile and has full range adjustment from vertical down to vertical up. Setting up is simplified with a hydraulic tilt cylinder and a mechanical lineal feed boom adjustment.

CONTROL PANEL

Central control of all drilling operations.
Gauges for:

- Hydraulic system pressure
- Feeding force

WATER PUMP

	Metric	Imperial
Type	Hydraulic drive CAT1010	
Maximum flow	20 l/min	5.3 US gpm
Maximum pressure	50 Bar	725 psi



DEPTH CAPACITY*

	Vertical Down		45° Down		Horizontal		45° Up		Vertical Up	
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
TK46	286 m	938 ft	322 m	1,056 ft	358 m	1,173 ft	250 m	821 ft	143 m	469 ft
A	230 m	755 ft	259 m	849 ft	288 m	943 ft	201 m	660 ft	115 m	377 ft

*Calculations are based on pullout force in a clean, vertical, fluid-filled hole. In some cases the depth capacity may exceed the capacity of the down hole tooling. SCX does not guarantee that these results will be achieved in all drilling conditions.

WEIGHT

	Metric	Imperial
Drill unit, including:	271 kg	597 lb
Feed boom	100 kg	220 lb
Rod holder	28 kg	62 lb
Rotation unit	77 kg	170 lb
Mounting frame	66 kg	146 lb
Turn table	156 kg	344 lb
Control panel	40 kg	88 lb
Hydraulic hoses	15 kg	33 lb
Power unit, electric (excluding oil)	240 kg	529 lb

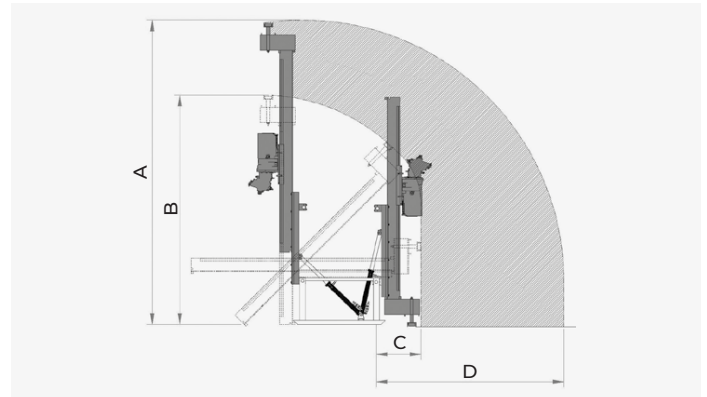
Note: Weights and dimensions are approximate only.

DIMENSIONS



OPERATING FOOTPRINT

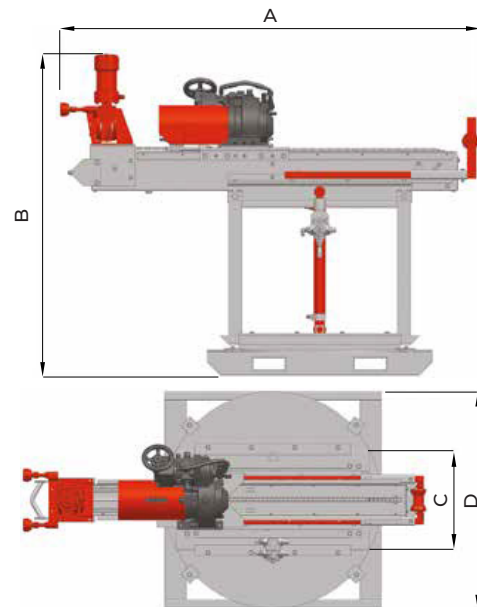
	Metric	Imperial
A	2,750 mm	180 in
B	1,960 mm	77 in
C	500 mm	20 in
D	2,000 mm	79 in



Note: Weights and dimensions are approximate only.

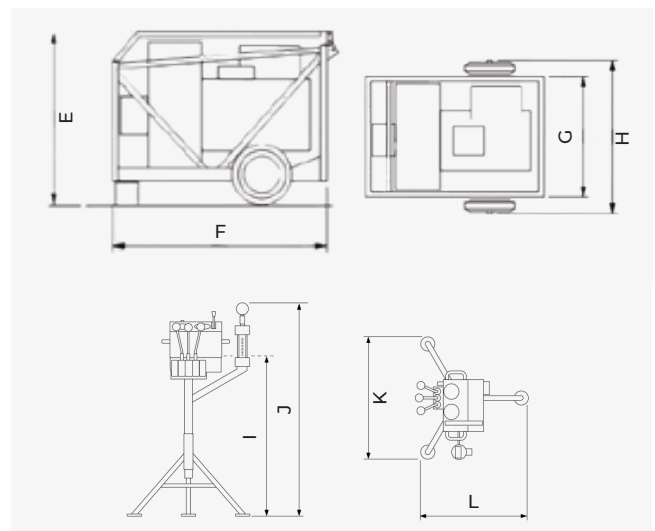
DIMENSIONS DRILL UNIT - WITHOUT WL MAST

	Metric	Imperial
A	1,860 mm	-
B	1,422 mm	-
C	967 mm	-
D	890 mm	-



DIMENSIONS POWER UNIT

15 KW - ELECTRIC	Metric	Imperial
E	950 mm	37 in
F	1,160 mm	46 in
G	600 mm	24 in
H	775 mm	31 in



DIMENSIONS CONTROL PANEL

	Metric	Imperial
I	865 mm	34 in
J	1,100 mm	43 in
K	550 mm	22 in
L	430 mm	17 in

OPTIONS



ROTATION UNIT 1350 RPM - OPTION

	Metric	Imperial
Hollow spindle - ID	51 mm	2 in
Torque @ 520 RPM	220 Nm	162 lbf ft
Torque @ 1,350 RPM	86 Nm	63 lbf ft
Rotation speed	0 - 1,350 RPM	
Number of jaws	2	
Gripping Range	39 - 50 mm	1.5 - 2 in

Speed, infinitely variable up to 1,350 RPM. Clamping by spring action, opened hydraulically. Rod guides and jaws for 46 mm/A size supplied.

ROD HOLDER/ROD CLAMP 116 MM - OPTION

	Metric	Imperial
Number of jaws	2	
Gripping range	39 - 116 mm	1.54 - 4.56 in
Maximum opening <i>(no jaws and guide)</i>	116 mm	4.56 in

Clamping by spring action, opened hydraulically.



SCX TOOLS AND CONSUMABLES

SCX has a complete range of down hole tools and consumables to support exploration rigs for start up and continued operation, SCX can offer competitive tooling packages with the sale of drill rigs.

TOOLS AVAILABLE

- Underground core barrel systems
- Surface core barrel systems
- Core barrel and inner tube consumables. Full range available
- Overshot core retrieval systems
- Drill bits, reamers, PCD bits, casing shoes etc. Full range available
- Diamond rods and casing all sizes available
- Drill muds and additives
- Wedging tools
- Casing cutters
- Water swivels and hoisting plugs
- Full range of adaptor subs available

SCX AFTERMARKET

SCX has excellent aftermarket service and support with a global footprint.

AFTERMARKET AVAILABLE

- All spare parts are available through SCX global warehouses
- Spare parts packages can be supplied with new rigs
- SCX can tailor service contracts to suit customer requirements

SCX GEOLOGICAL CONSUMABLES

SCX has a comprehensive range of over seven hundred geological products available for global distribution.

SCX GEOLOGICAL CONSUMABLES

- Metal core trays
- Plastic core trays
- Core tray racking systems
- Automatic core saws and blades
- Manual core saws and blades
- Core handling systems
- Pipe wipers
- Orientation down hole tools
- Si-foam A and B
- Marking consumables
- Flagging tape
- Survey stakes
- Magnification tools
- Geo picks and hammers
- Compass and clinometers
- Chip sample boxes
- Calico bags
- Plastic bags
- Press seal bags
- Wetstrength bags
- Certified test sieves
- Over 700 products total