

HIGH TORQUE
2500 Nm



PETROL ENGINE NR-11P

Ideal for Railways, Construction sites, Oil and Mining Industries, Shipyards.

General features:

1 - Fuel Tank

This large tank has a 1.2l capacity for longer working time between refills. The gripping surfaces on the cap make it easy to remove/replace and the facility to add fuel in both vertical and horizontal positions avoids accidental spillage.

2 - Handlebar

Careful ergonomic design of the machine spreads the weight equally between left and right handles. The structure formed by the combination of the shaped handle bar and the protective shield minimise the risk of accidental mechanical shock to the fuel tank and engine.

3 - Control handle

Control buttons are specifically located to reduce the effects of working in awkward positions, eg wrist and shoulder discomfort, thereby optimising performance in both vertical and horizontal modes, while a Dead man device prevents accidental acceleration, for operator safety. The control handle assembly is clamped to the handlebar via a steel rod for enhanced robustness.

4 - Trolley [see page 29]

Optional interface kits enable the machine to be used in vertical and horizontal modes with the rail mounted CS-SD support trolley. Fitted with a braking device in accordance with EN19277, the trolley eliminates much of the effect of the weight of the machine and allows rapid movement between work areas.

5 - Gearbox

Brightened steel gears are immersed in a synthetic oil bath to prolong life and extend the range of permitted working temperatures. The gear change lever is adjacent to the accelerator control in order to avoid damage caused by changing gear while the engine is running. Smooth acceleration is provided by the centrifugal clutch.

6 - Impact mechanism

The innovative patented impact unit develops a high torque and has a larger impact surface than any other nut runner, so to extend the life of this essential component. Specialist, high spec grease minimises wear in this area and the special seal on the drive prevents the leakage of grease commonly seen on other impact wrenches.

7 - Engine

With a greater impact surface, the NR11P does not need higher rpm to develop 2500 Nm thus the engine is not continuously straining at maximum rpm, allowing maintenance intervals to be extended.

8 - Vibration

The handlebar is mounted on 4 vibration absorbing dampers so to reduce hand-arm vibration felt by operators.

9 - Easy-start

With its decompression button, primer and digital ignition coil, minimum time and effort are required to start NR11P.

Protective shield
To protect tank and engine from accidental shocks



Torque selector
With 5 positions



Forward/Reverse selector
Smooth change



IMPACT WRENCHES

Petrol engine NR-11P

General features:

ENGINE	Type:	Two stroke, forced-air cooled, single cylinder			
	Displacement:	55 cc			
	Fuel tank capacity:	1,2 l			
	Fuel mixture ratio:	<table border="0"> <tr> <td rowspan="2"> { Synthetic oil 1:50 2 stroke mineral oil 1:25 </td> <td>2800 rpm ± 200</td> </tr> <tr> <td>7000 rpm</td> </tr> </table>	{ Synthetic oil 1:50 2 stroke mineral oil 1:25	2800 rpm ± 200	7000 rpm
	{ Synthetic oil 1:50 2 stroke mineral oil 1:25	2800 rpm ± 200			
7000 rpm					
Revolution (idle):	2800 rpm ± 200				
Revolution (loaded, impact):	7000 rpm				
Revolution (non loaded, max):	11500 rpm				
IGNITION	Type:	Digital			
	Spark plug type:	RAX 80 or equivalent			
CARBURETTOR	Type:	Diaphragm			
IMPACT UNIT	Square driver size:	25,4 mm (1")			
	Fastening torque range:	Full Throttle: 2500 Nm (1844 ft. lbs)			
CAPACITY	Free mandrel speed :	1300 rpm			
	Bolt diameter:	up to 33 mm (1 1/4")			
WEIGHT	Dry:	18,5 kg (40,7 lbs)			

Dimensions mm:



OPTIONAL ACCESSORIES:

Standard and long impact sockets, extensions, swivel-joint shaft, adapters.

CLIP-NR

Retaining circlip for fastening sockets to the mandrel having an external diameter range: 47 ÷ 57 mm. 3 pieces supplied as standard.

CLIP-NR 57

Retaining circlip for fastening sockets to the mandrel having an external diameter range: 57 ÷ 67 mm. 1 piece supplied as standard.

Ref.	Description
XT 100	1" x 100 mm extension
SJ 1"	1" swivel joint
CLIP NR	Retaining circlip for fastening sockets to the mandrel.
KCS-NR	interface kit for vertical use with support trolley CS-SD
KHOR-NR	interface kit for horizontal use with support trolley CS-SD
CS-SD	Support trolley common to NR11-P and sleeper drilling machines SD-9P-ECO and SD-10E.
VAL P20	Plastic box for storage of sockets and accessories.
VAL NR	Steel case for storage of NR11-P and VALP20 accessories box.
TARPCOVER 027-NR	Protection cover manufactured in Polyethylene HDPE and UV resistant. Temperature range: -40°C to +70°C.

TARPCOVER 027-NR

VAL P20

VAL NR

New

ELECTRIC IMPACT WRENCH NR-13E

NR-13E

General features:

- **Motor:** single phase electric motor
- **Supply voltage:** 220÷230V - 50 Hz
- **Power rating:** 3 kW
- **Weight:** 21 Kg

Impact Unit:

- **Square Driver size:** 25,4 mm (1")
- **Fastening torque range:** Full throttle: 2500 Nm (1844 ft. lbs)
- **Bolt diameter:** up to 33 mm (1 1/4")

HIGH TORQUE
2500 Nm



Fitted with PRCD device
(Portable Residual Current Device)

The NR-13E is suitable for use with the CS-SD support trolley

APPLICATIONS OF IMPACT WRENCHES

Assembly of steel structures such as bridges, building frames, rail tracks, ship building, heavy equipment maintenance, pipelines and industrial applications.

Anti-vibration couplings reduce transmission of vibration to the operator.



The protective handlebar structure facilitates a comfortable dorso-lumbar operating position without wrist injury.

A reduced mandrel axis to machine base dimension facilitates a more convenient horizontal position for working with track bolts, even when operating across sleepers.



IMPACT WRENCH MOUNTED ON SUPPORT TROLLEY CS-SD

IN VERTICAL



KCS-NR interface kit for **vertical use** with support trolley **CS-SD**. Available upon request.



KHOR-NR interface kit for **horizontal use** with support trolley **CS-SD**. Available upon request.



Impact wrenches can be used with the same **CS-SD** support trolley used with Cembre sleeper drilling machines.

