

# Track construction battery nutrunner DA1



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## Mobile and suited for universal use

Our Plarad track construction battery nutrunner is a solution we have engineered especially for bolting operations on rail tracks.

We have devised a rack that makes it possible to quickly and easily convert our DA1 battery nut runner into a rail track tool. The operator can use the handles on this rack to operate the tool directly. Equipped with two high-power LED lamps that can be positioned in any position on the rods fitted on the sides, the tool also allows for seamless operation in poor light conditions or in the dark.

Since the unit is battery-powered, the track construction worker is no longer tied to heavy power packs or cables while tightening or loosening bolts. Thanks to its low weight, the unit does not require more than one worker to operate it.

In contrast to impact wrenches, DA1 units produce significantly less noise and vibration during operation, effectively preventing White Finger syndrome and excessive strain on hands and joints.

## Straightforward

The desired torque is set by toggling the gear steps (1 to 4) and setting the potentiometer power (setting steps 1 to 15), just above the housing by the handle. Recessed switches prevent any accidental actuation or unintended adjustment of power settings. In addition, the potentiometer offers two special settings delivering extra power that may be needed to safely loosen certain bolts.



### Including two 5.0 Ah Li-Ion batteries

The LED serves as an active indicator of the battery capacity.

## Fully automatic

The DA1 will automatically stop as soon as the set torque value has been reached and will be ready for the next bolting process right away.

## Powerful and precise

The DA1 is capable of tightening and loosening bolts and guarantees a rate of repeatability of +/- 4% during tightening.

## Reliable

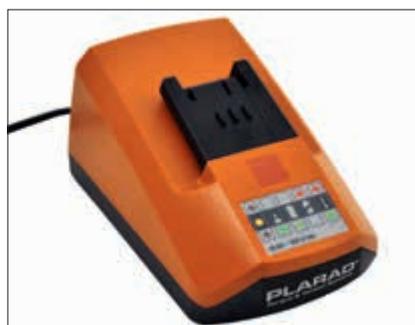
Continually active during the bolting process, the 2-step battery charge indicator reliably prevents inaccurate torque tightening values that may arise from a battery capacity that is too low. The operation trigger operates with a binary logic, thus ensuring that only the set torque will be applied (even during extended operation or when the operator is wearing gloves).

## Greater efficiency

- The unit is 30% more efficient than comparable DC motors thanks to our brushless motor
- Motor electronics fully protected against dust
- Made in Germany

## Dependable battery technology

- 5.0 Ah / 18 V
- SafetyCell Technology
- Active charge status indicator
- Charging time: approx. 40 minutes



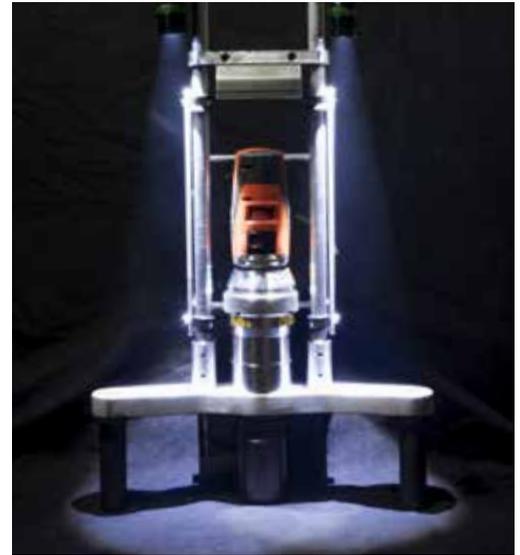
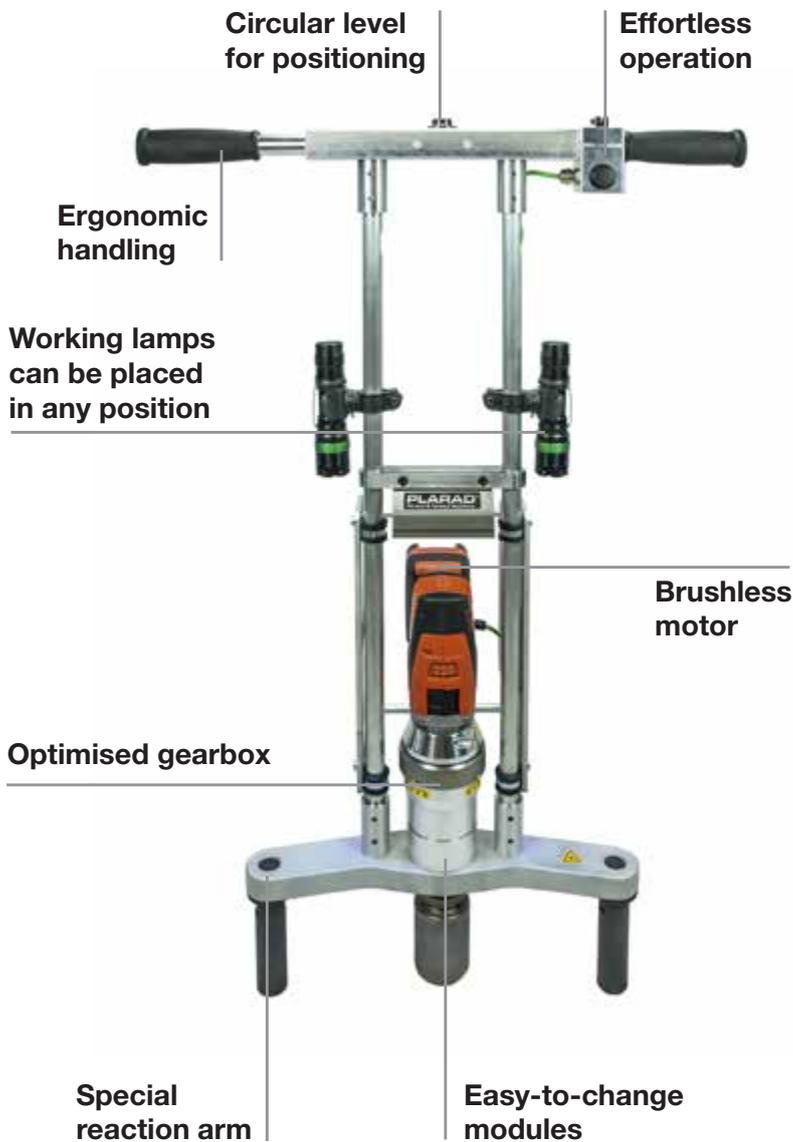
### Including quick charger

(230 V, 50/60 Hz or US version 110 V, 50/60 Hz)



### Optional LED working lamp

Very bright at 900 lux, compatible with all DA1 batteries.



Each unit comes with high-power LED lamps that can be placed in any position to illuminate the work area.



**Manufactured sizes compatible with track construction racks**

Type	Torque range (Nm)	G 1 (U/min)	G 2 (U/min)	G 3 (U/min)	G 4 (U/min)	A (mm)	B (mm)	Ø C (mm)	Ø D (mm)	E (mm)	F (mm)	■ = Drive
DA1-05	130 - 550	8.3	16.4	36.6	70.3	347	245	90	74	126.5	57.5	¾ "
DA1-10	130 - 1 000	6.8	13.8	30.7	58.0	351	245	90	74	130.5	61.5	1 "
DA1-13	275 - 1 300	5.5	11.2	25.3	48.3	363	245	90	93	131.5	61.5	1 "

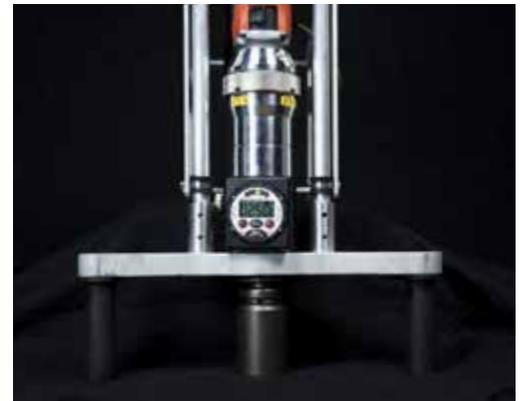
**Additional manufactured sizes**

Type	Torque range (Nm)	G 1 (U/min)	G 2 (U/min)	G 3 (U/min)	G 4 (U/min)	A (mm)	B (mm)	Ø C (mm)	Ø D (mm)	E (mm)	F (mm)	■ = Drive
DA1-30	285 - 3 000	2.2	4.3	10.1	19.2	410	245	90	98	169.5	71.5	1 "
DA1-47	470 - 4 700	1.4	2.8	6.3	12.5	435	245	90	99	191.0	83.5	1½ "

**Mobile measurement unit TC1**

It measures the applied torque and the subsequent wrenching process directly on site. The system works without cables during the screw-fitting process and can easily be mounted to the torquing device.

The applied torque is visible directly on the sensor display. An additional target value can be defined. If the given tolerance is exceeded, the device will initiate an audible alarm. The operator will receive visual information regarding the applied torque pressure result on a display with LED traffic light colors. This feature is particularly useful when working in a loud environment.



Mounted Torque Control TC1

**Optional accessories**

Various accessories (e.g.: inserts, power inverter, weldable rings, sockets and reaction arms) are available as both standard and custom designs.



... a successful connection!

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