

CEM 7000

*electromechanical wrench for
undercarriage track shoes*



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ISO 9001 - Cert. n° 00799

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The introduction on the undercarriage servicing market of the new electro-mechanical wrench "CEM 7000" is the result of Berco know-how and lasting experience in the field of loosening and tightening track shoe bolts.

The operator can select, set and read the data and working system on the control panel, placed on the front of the machine: this new device makes the CEM 7000 extremely versatile and easy to use.

Two working systems are available: the first allows to tighten the shoes according to the final output torque on the bolts only (such a method is less and less used owing to a lack of precision); the other one, according to O.E.M. requirements, joints a pre-torque with the final angle and grants the correct and constant fastening of the bolts.

After setting the parameters, the electronic controls, actuating on a cinematic chain, assure the fulfillment of the required results. The totally new conceived cinematic chain is mainly composed of:

- brushless electric motor with high torque and two rotation directions
- reduction unit

(epicycloide gear type)

- front claw clutch driven by electro-magnet
- loading cell active in either direction of the socket shaft

The remarkable high value of the maximum couple obtained - 7000 N.m - places this model at a top level, suitable for the most recent large-size track vehicles; same accuracy and safety are granted on small-size bolts as well.

Two rotation speeds are available:

- slow for final tightening or for the first loosening
- fast for first tightening and for the total removal of the bolt

The operator can switch from one to the other speed by means of two push buttons placed on the guide handle of the socket shaft. Both pulling system for positioning the socket shaft on the bolt and movement of the wrench carriage on the rails are based on Berco well experienced knowledge already tested on our previous mechanical wrench models. Available as extra outfit, a

mechanical device to fix the socket shaft in low position to improve the safety standard; a lever placed on the guide handle easily operates the device.



Control panel of the new machine CEM 7000.

main operating features

Max. output torque on the socket shaft	N.m	7000	5160 lbf-ft
Max. final bolt tightening angle			360
Socket shaft rotation speeds (2), in either direction			8,5-145 r.p.m.
Socket shaft drive motor	KW	4,5	CV 6
Size of socket shaft drive square	mm	50	1.968"
Max. width admitted of track chain with shoes on	mm	1200	47 1/4"
Max. height admitted of track chain with shoes on	mm	370	14 1/2"
Approx. mass, unpacked	kg	770	1700 lb
Approx. mass, ocean packed	kg	1020	2250 lb

Measurements, masses and execution are not binding on manufacturers and can be changed without previous notice.

Motor power is referred to 50Hz frequency.