

CALIBRATION REPORT No. LD1204020

Manufacturer: JHJX
Type: Hydraulic Torque Wrench
Model: JHM10
Capacity: 10430 N·m
Max Pressure: 700 Bar
Serial No: M101110017

Hydraulic Pump: ENERPAC, mod. ZU4204TE-Q, serial number B08207016C
Max pressure: 1000 psi-700 Bar

Test Bench: S/N: 013
Measuring range: 1000 ÷ 10000 N·m

First line standards: S/N: 007
Certificate: 106/10 (HEXAGON)

S/N: 008
Certificate: 180611F (AEP)

S/N: 018
Certificate: L1110194 (Atlas Copco BLM)

The measurement results reported in this report were obtained following the procedure BLM.002-D1 using a test bench, S/N 013; transducer connected to a HBM amplifier mod. HBM MVD2630, test equipment certified.

Traceability is through first line standards No.007, 008 and 018 validated by certificates of calibration No. 106/10, 180611F and L1110194.

The permissible deviation between the value of torque applied and the value read on the instrument to be calibrated must not be higher than **4%**

Based on the results of measurement, the instrument is: OK

Calibration clockwise: readings

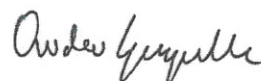
The uncertainty of measurement of the test equipment is:

1000 ÷ <5000 N·m **0,2%**

>5000 ÷ 100000 N·m **0,1%**

Date:
13/04/2012

Approved:
Ovidio Scarpulla



Operator:
Roberto Palma



Applied Torque Bar	Readings										Average N·m
	N·m										
	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9	Test 10	
200	2975	2972	2971	2969	2970	2969	2965	2965	2964	2964	2968,4
300	4384	4392	4392	4391	4390	4390	4388	4384	4382	4378	4387,1
400	5928	5931	5925	5924	5917	5914	5905	5921	5906	5899	5917,0
500	7430	7430	7432	7421	7418	7419	7420	7421	7400	7413	7420,4
600	8925	8935	8943	8941	8932	8927	8928	8916	8921	8916	8928,4
700	10427	10405	10427	10412	10404	10413	10403	10421	10412	10410	10413,4

Applied Torque Bar	Average N·m	Reference Value to Manual N·m	Deviation of Measure	
			N·m	%
200	2968,4	2880	88,4	3,07
300	4387,1	4350	37,1	0,85
400	5917,0	5870	47,0	0,80
500	7420,4	7378	42,4	0,57
600	8928,4	8940	-11,6	-0,13
700	10413,4	10430	-16,6	-0,16

