

## HYDRAULIC PULSE TIGHTENER HPU 2501.1 (A)

### Use and description:

Hydraulic pulse tightener **HPU 2501.1 (A)** (hereinafter only tightener) is a handheld tool, which is used for tightening and loosening of screw connections up to M30. The torque is induced by impacts of the rotary impact mechanism.

The tightener consists of handle, hydraulic gear motor with controller and reversing distributor and of impact mechanism. The tightener has been designed and constructed for using in heading workplaces for tightening the screw connections of the steel- arch support (fed from the tunnelling machine, travelling drilling rig etc). However, it can be used on workplace, where the suitable source of the working medium is available.

In case, that the pressure medium parameters are  $p > 14$  MPa;  $Q > 40 \text{ dm}^3 \cdot \text{min}^{-1}$ , the Regulating Block RB 1 (product of KOEXPRO, a.s. company) shall be inserted into the pressure hose upstream the tool) changing these parameters. The tightener body is manufactured from the light metals alloy on which the protective cover **ANTIAL®** is applied.



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ANTIAL® (A) - protective cover layer on handheld tools manufactured from light metal alloys used in potentially explosive atmospheres, which eliminates the ignition of explosive mixture due to mechanical spark at fall of the tool on the rusty steel.

### Charakteristics:

Type	HPU 2501.1 (A)	
Max. operation tightening torque*	Nm	1 650
Nominal tightening torque		1 200
Operation pressure range/optimal pressure	MPa	7 – 14/11
Flow rate range/optimal pressure	$\text{l} \cdot \text{min}^{-1}$	15 – 40/25
Working medium	hydraulic liquid having a viscosity of $46 \text{ mm}^2 \cdot \text{s}^{-1}$ at $40^\circ\text{C}$	
Filtration	$\mu\text{m}$	25
Connection of the hydraul. system	screw M 16x1.50; pin- STECK DN10 (12) DIN 20043	
Impact mechanism	-	twin- hammer
Socket head driver dimension (square)	mm (")	19 (3/4)
Dimensions (w x h x l)	mm	96x298x230
Weight (acc. to version and handle type)	kg	ca 7.6
Delivered accessories	socket head 41/19, socket head 46/25	
Other accessories	socket heads (separate informative flow sheet)	

\* according to the throttle screw setting, working medium operation pressure and flow rate

Type marking:

**HPU 2501.1**  
 HPU HYDRAULIC PULSE TIGHTENER  
 (A) protective cover layer AntiAl®

The product has been designed and constructed as the equipment group I (mine), category M2 according to the Directive 94/9/EC of the European Parliament and of the Council and meets the requirements for using in areas dangerous atmospheric conditions 2" according to EN 1127-2+A1 on condition that all national regulations of the employer are fulfilled.