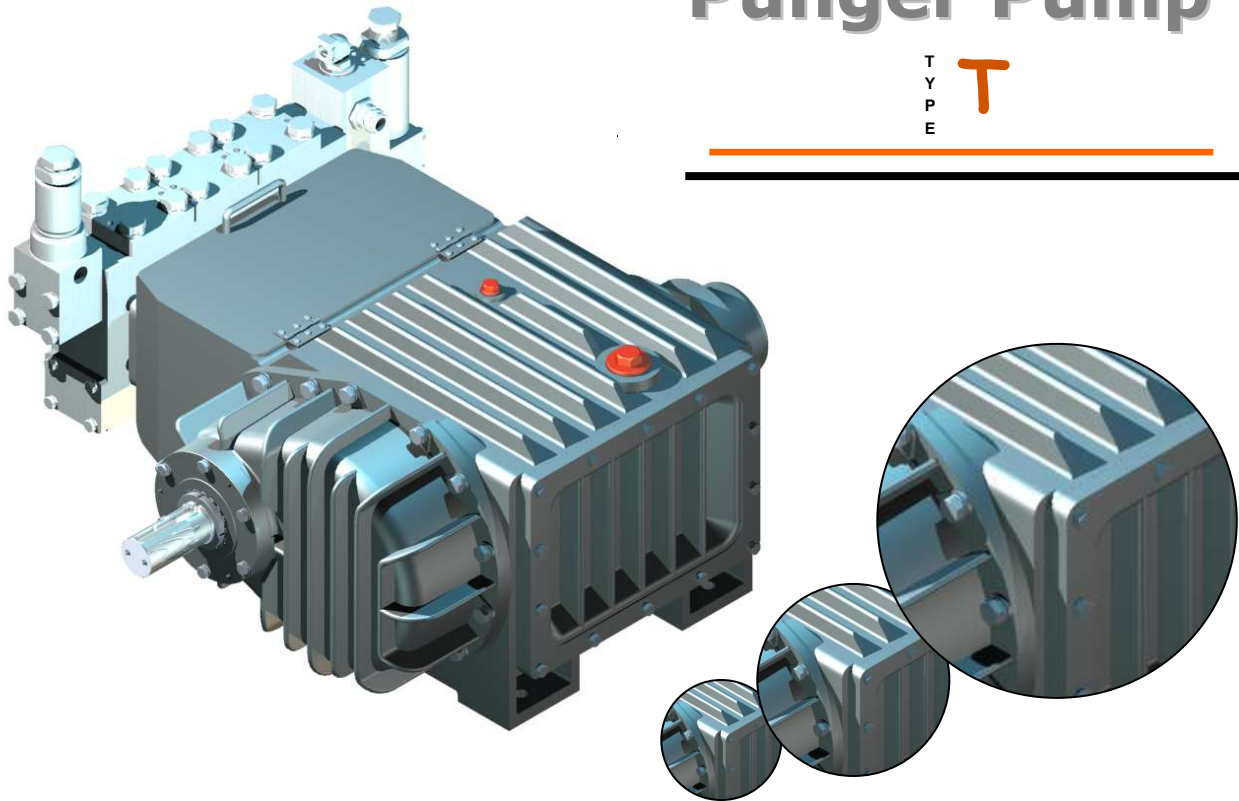




# Punger Pump

T  
Y  
P  
E



## SPECIFICATIONS:

Pump Type	T-100/32	T-125/30	T-150/30
Pump output [dm <sup>3</sup> /min.]	100	125	150
Working pressure [MPa]	20-32	20-30	20-30
Transient pressure [MPa]	34	34	34
Plungers	3	3	3
Plunger Ø [mm]	40	45	45
Motor power [kW]	55	75	90
Operating voltage [V]	500-1140	500-1140	500-1140
Drive speed [obr/min]	1470	1480	1480
Pump unit dimensions (L. x W. x H.)	990x975x455	990x975x455	1080x1046x507
Pump engine dimensions (L. x W. x H.)	2150x975x875	2150x975x875	2250x1050x960
Pump weight [kg]	712	723	847
Pump engine weight [kg]	1564	1760	1960



## CLASSIFICATION:

The classification of our Type T pumps comprises of the following symbols:

**T** - **Q** / **p**

Symbology definitions:

- T** - High pressure pump
- Q** - Nominal pump output [dm<sup>3</sup>/min.],
- p** - Working pressure [MPa]

Product Example: High pressure pump of 300 dm<sup>3</sup>/min output and working pressure 15MPa

**T-(100/125/150)**


## APPLICATIONS:


The **T** high pressure pump features horizontally mounted triple plungers and is primarily designed for pumping water or water-oil emulsion.

The **T** meets E.U. safety classification and certification requirements. The **T** is a Group **I** Device and is in the **M2** Category for equipment working in areas at risk of explosion. It meets Poland's legal requirements relating to the "essential requirements for equipment and protective systems intended for use in potentially explosive atmospheres (OJ No 263/2005, item. 2203)". This law complies with the EU Directive **94/9/EC (ATEX)**.

The device can therefore be used in deep mining operations and in the presence of methane at sites that are in the "a", "b" and "c" hazard classes for methane explosion and "A" and "B" hazard classes for coal dust explosion.

The unit is to be switched off by the operator if a risk of explosion develops and/or if methane concentration exceeds acceptable levels.

This T type of pump unit is marked  **I M2**.

The pump unit can only be operated in conjunction with electrical equipment that meets **UE nr 94/9/WE (ATEX) Directive** for groups and class  **I M2**.



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The pump unit and associated systems have CE markings indicating compliance with mandatory Directive requirements.

The pump unit is offered as a complete system or as a standalone unit. In addition to mining the pump may be used for applications in other industrial sectors including Energy as well as Sugar and Chipboard production.

### Note:

If the pump unit is acquired independently of a complete engine system it is necessary to acquire a hydraulic accumulator that has a capacity of 2.5l and is set to the necessary operating parameters. The hydraulic accumulator unit is fitted to the pump and is comprised of the accumulator, shut off valve, safety valve. All parts of the hydraulic accumulators produced by WIROMET S.A. comply with: RMG pips law relating to "the basic requirements for pressure equipment and assemblies of pressure equipment (Journal of Laws No. 99/2003, item. 912)", as well as the requirements of The European union Directive 97/23/EC.

Our integrated hydraulic Accumulator system is designed to minimise the cyclic pressure pulses, vibrations and applied loads to the mushroom valves, pistons, valve block and discharge valve thereby prolonging service life. The Shut-off valve allows the accumulator to be disconnected and is used to gradually discharge the accumulator of its working pressure when work has ceased.

The accumulators and safety valves fitted to this pump must be compliant with the requirements set out in **EU Directives**.

**The working parameters can be adjusted on request of the client to any given working parameters (within operating load limits).**