

# WPJ-200



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**NOMINAL OPERATION PARAMETERS AT  
PURE WATER PUMPING  
(for the maximum rotation speed and the  
largest rotor)**

<b>Capacity</b>	Q <sub>n</sub>	500	m <sup>3</sup> /h
<b>Head</b>	H	90	m
<b>Rotational speed</b>	n	1485*	rpm
<b>Impeller diameter</b>	D <sub>z</sub>	526*	mm
<b>Shaft power</b>	P <sub>n</sub>	190	kW
<b>Weight</b>	m	1030	kg
<b>Max. permissible size of solids</b>		56	mm
<b>Smallest flow cross-section</b>		80	mm

\*Pump construction enables decreasing the operational parameters by reducing the rotation speed and/or reducing the rotor's diameter, adapting the pump to the system without choking the pump.

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## TYPICAL APPLICATIONS

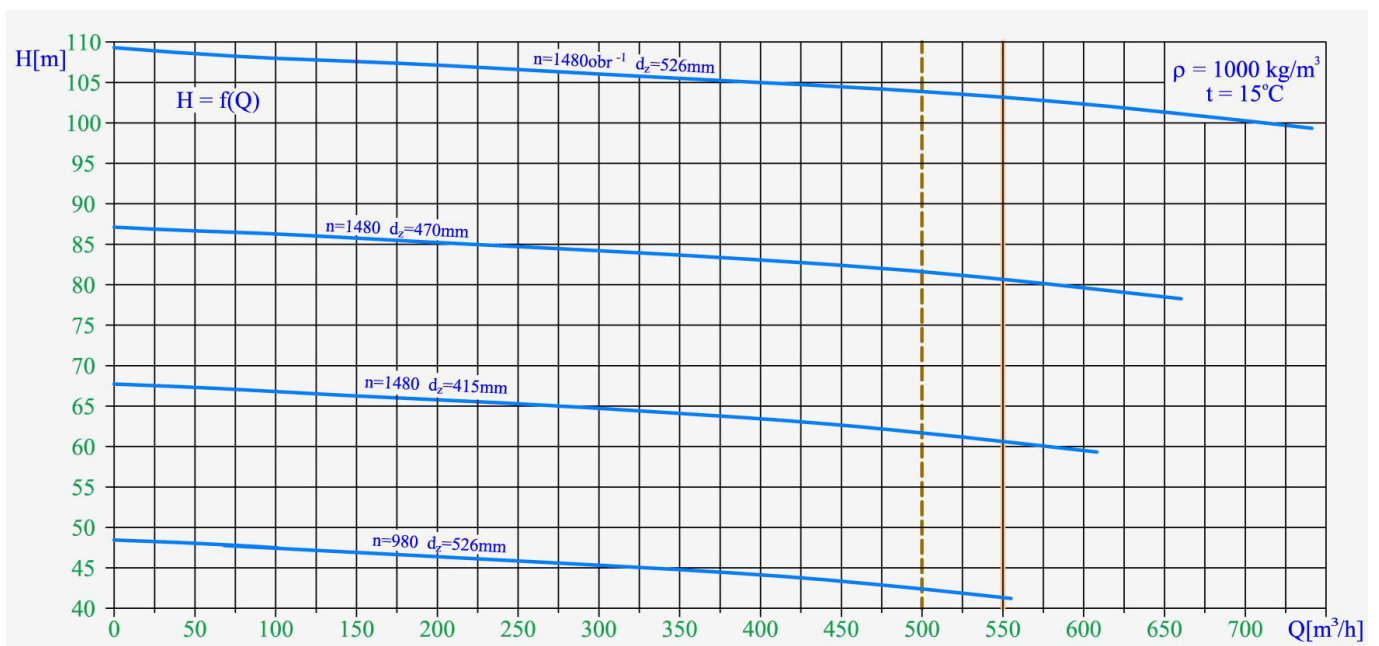
- pumping mixtures of water and solids, with large grains and highly abrasive properties,
  - pumping mixtures of water and quartz sand, ores, coal, slag, ash,
  - mining - WPJ pumps intended to replace hydrotransport drainage pumps used so far,
  - water supply systems,
  - pressure boosting,
  - technological processes,
  - industrial systems,
  - filtration systems.
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## KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- possibility of operation with a frequency converter,
- possibility of serial operation,

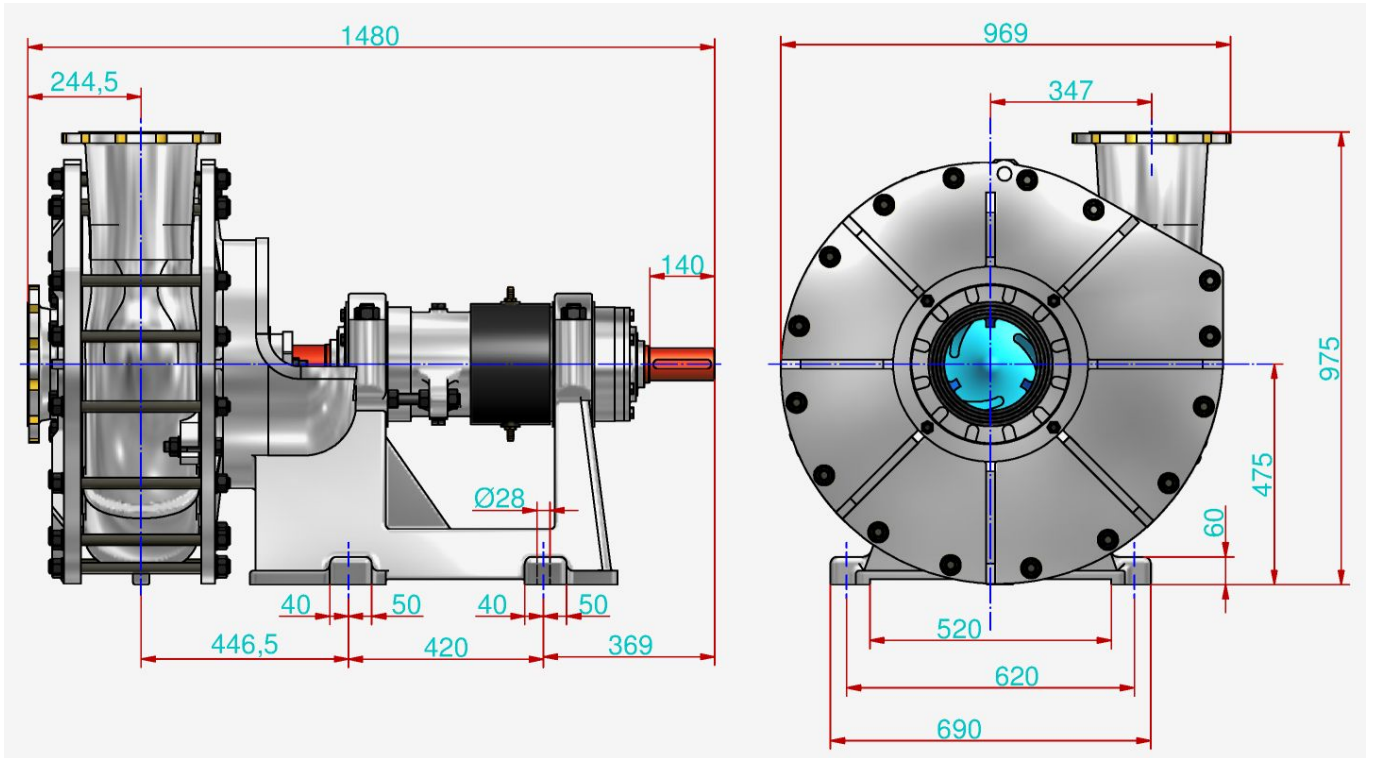
- the pumped mixture density can reach  $\rho_{\max} = 1700\text{kg/m}^3$  while pumping mixtures with a 50% content of solids in water,
- silent and smooth operation,
- connection dimensions in compliance with hydrotransport pumps,
- inflow and suction operation,
- approved for operation in explosion-hazard zones - ATEX Ex I M2.

## PUMP PERFORMANCE CURVE

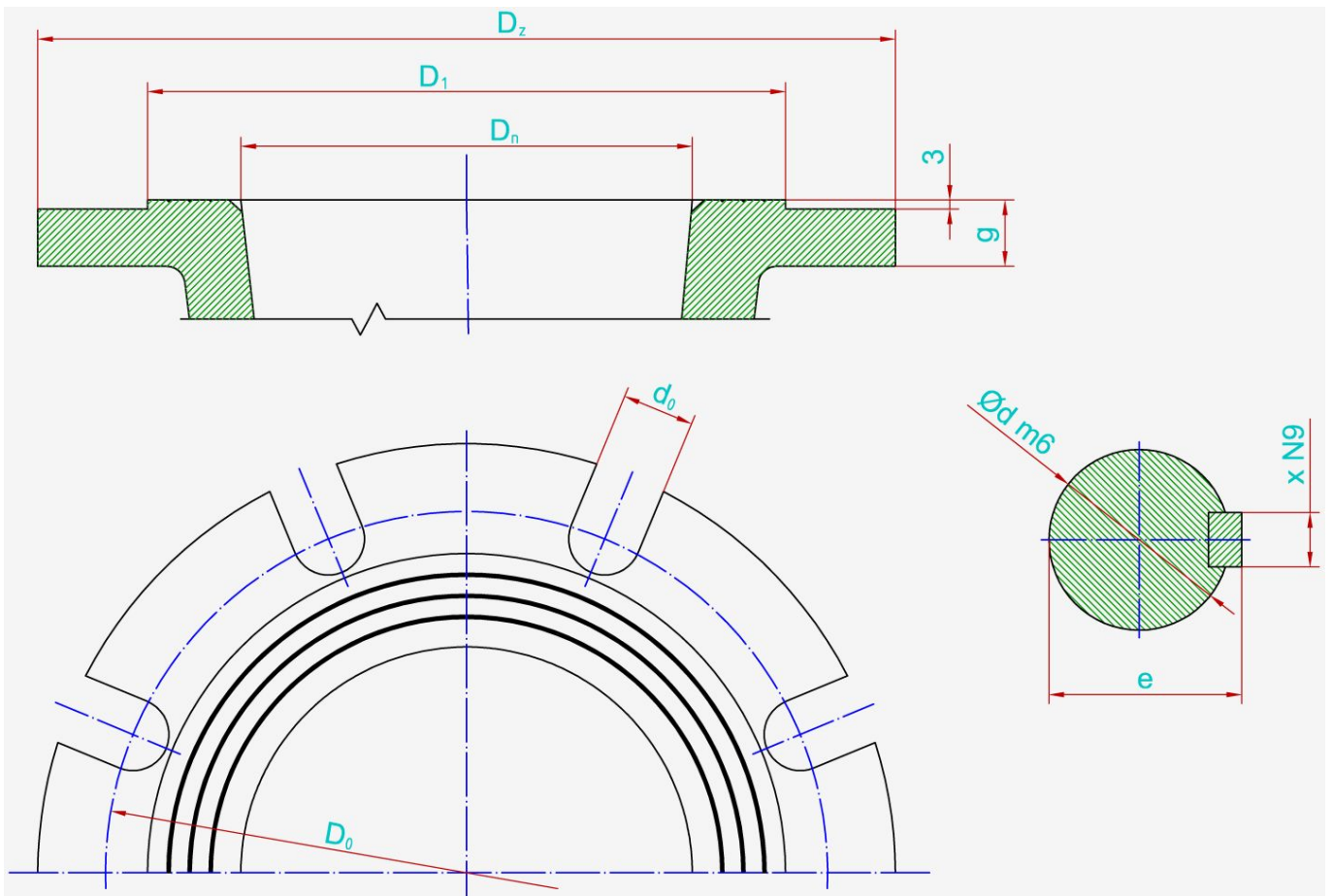


- $H = f(Q)$  - lift head acc. to rate flow,
- $d_z$  - impeller diameter,
- $n$  - rotational speed.

## MAIN DIMENSIONS OF PUMP



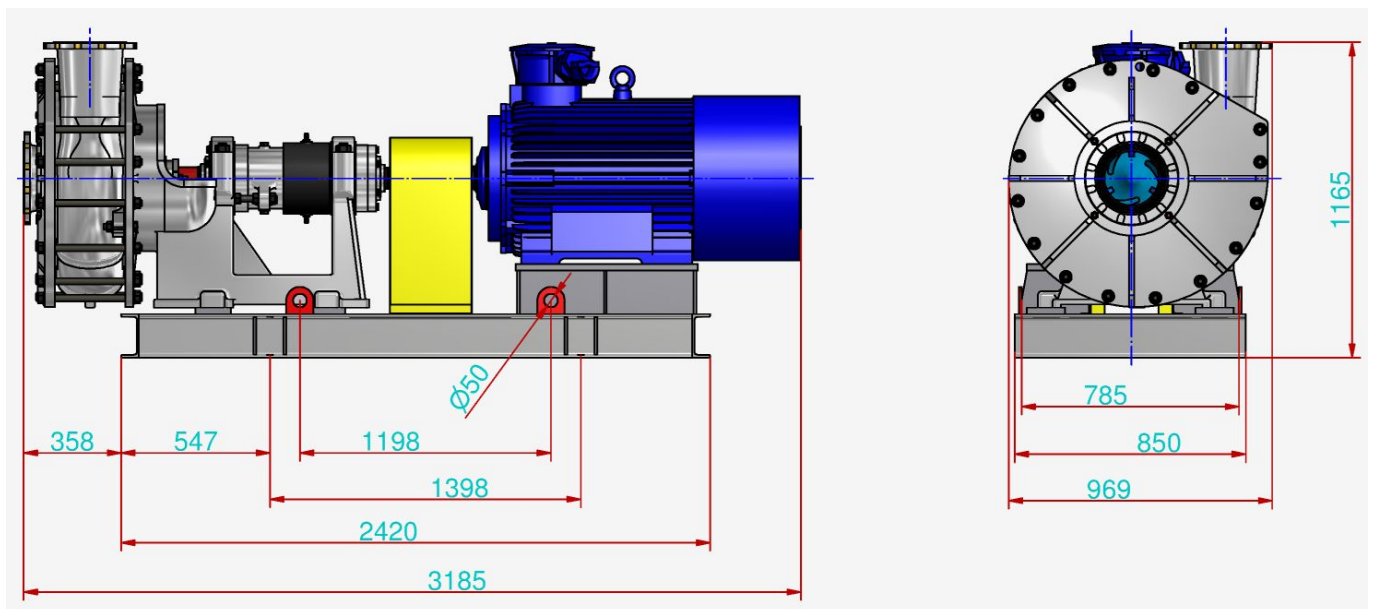
## CONNECTION SIZES OF PUMP



	P <sub>n</sub>	D <sub>n</sub>	i	D <sub>z</sub>	d <sub>0</sub>	g	D <sub>0</sub>	D <sub>1</sub>	d	e	x
Suction connector	16	200	12	340	26	24	295	268	-	-	-
Discharge connector A	16	200	12	340	26	24	295	268	-	-	-
Discharge connector B	25	200	12	360	26	30	310	278	-	-	-
Shaft / coupling	-	-	-	-	-	-	-	-	70	74,5	20
	bar	mm	-	mm	mm	mm	mm	mm	mm	mm	mm

The flanges are normally made in accordance with the standard PN-EN 1092-1 or PN-EN 1092-2.

## MAIN DIMENSIONS OF PUMP UNIT



Motor type	Celma STRG355M4	-
Coupling type	V365	-
Weight	3645	kg

**It is possible to produce pumps with parameters different than those presented in the tables and on the graphs per agreement with the manufacturer.**

