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## Echipament - stand experimental

I.D.: 40379904

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Data publicarii	28.11.19	Coduri CPV	42112400-1
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Pretul estimativ: 19.524,00 RON - 19.524,00 RON

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Descriere: Model of a reaction turbine with adjustable guide vanes; determination of the efficiency  
Features - model of a reaction turbine - transparent operating area - turbine with adjustable guide vanes - loading by band brake Learning objectives/experiments - design and function of a Francis turbine - determination of torque, power and efficiency - graphical representation of characteristic curves for torque, power and efficiency Specification [1] function of a Francis turbine [2] transparent front panel for observing the operating area [3] loading the turbine by use of the band brake [4] adjustable guide vanes for setting different angles of attack [5] marking on brake drum for non-contact speed measurement [6] instruments: spring balances for determining the torque, manometer shows pressure at turbine inlet [7] flow determination by base module HM 150 [8] water supply using the base module HM 150 or via lab supply Technical data Turbine - output: 12W at n=1100min<sup>-1</sup>, approx. 40L/min, H=8m - rotor -- 7 blades -- blade width: 5mm -- external Ø: 50mm - guide vanes -- 6 vanes, adjustable (20 stages) Measuring ranges - force: 2x 0...10N - pressure: 0...1,0bar LxWxH: 400x400x630mm Weight: approx. 17kg

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