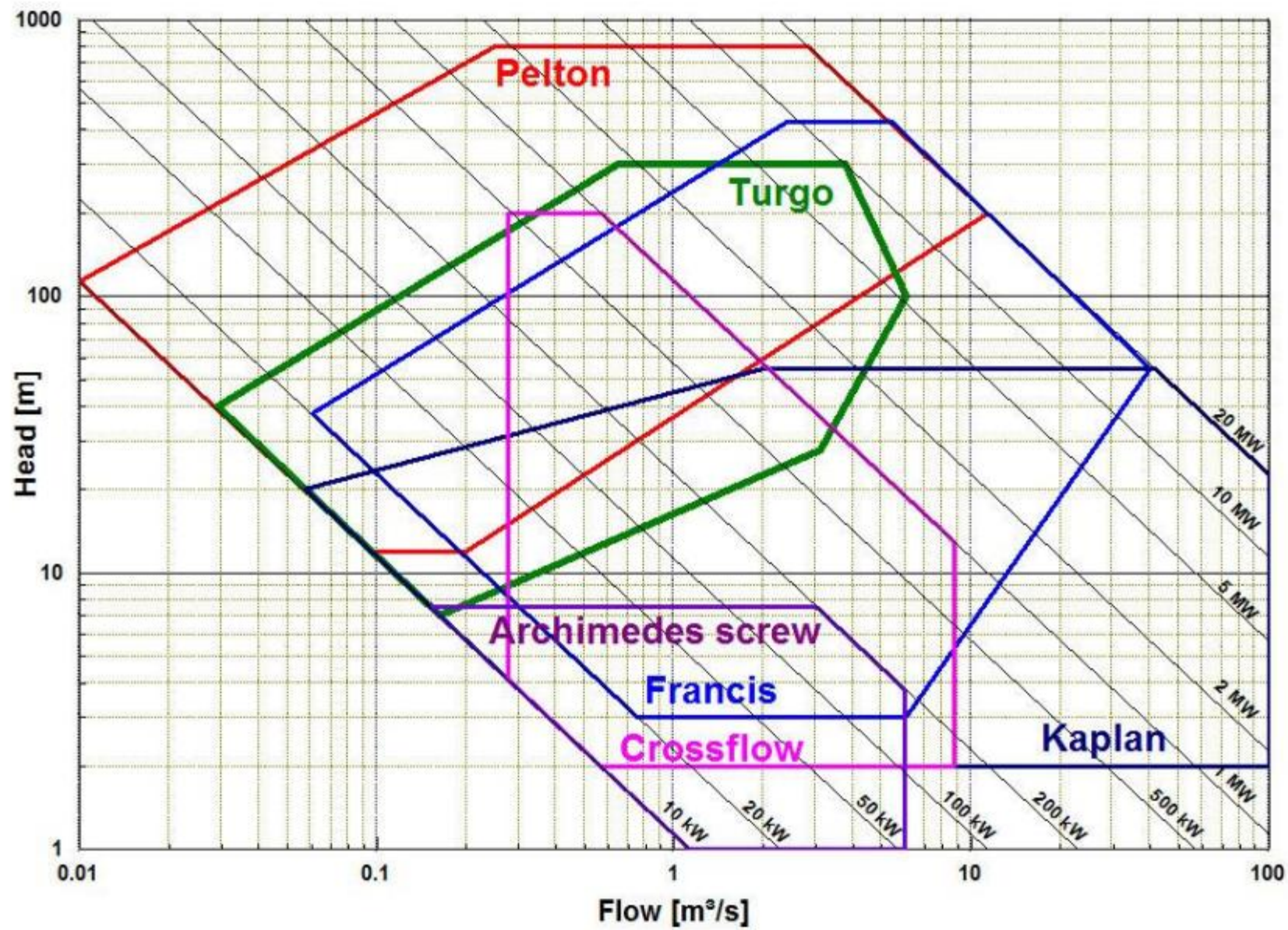


TURBINA TURGO



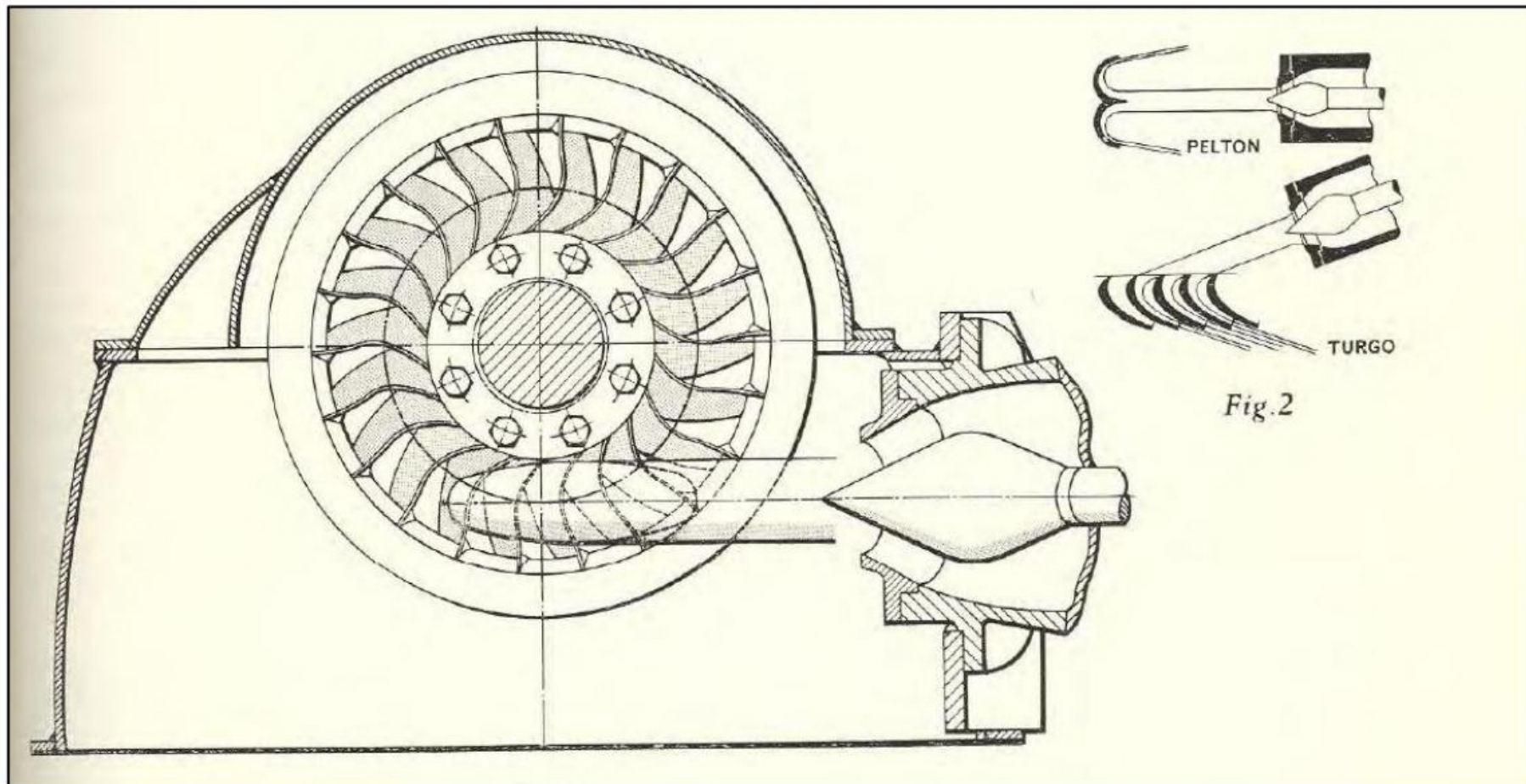


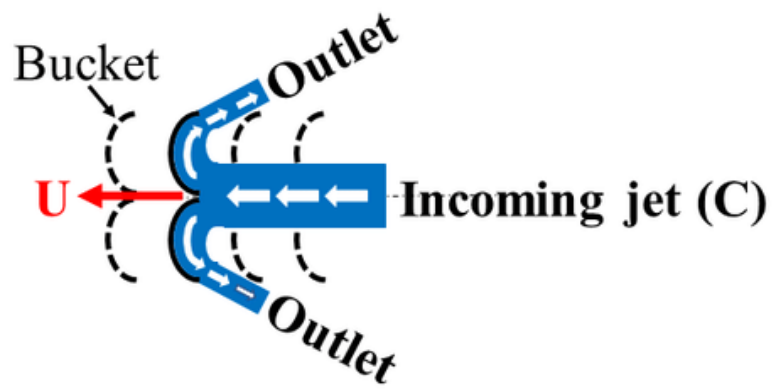
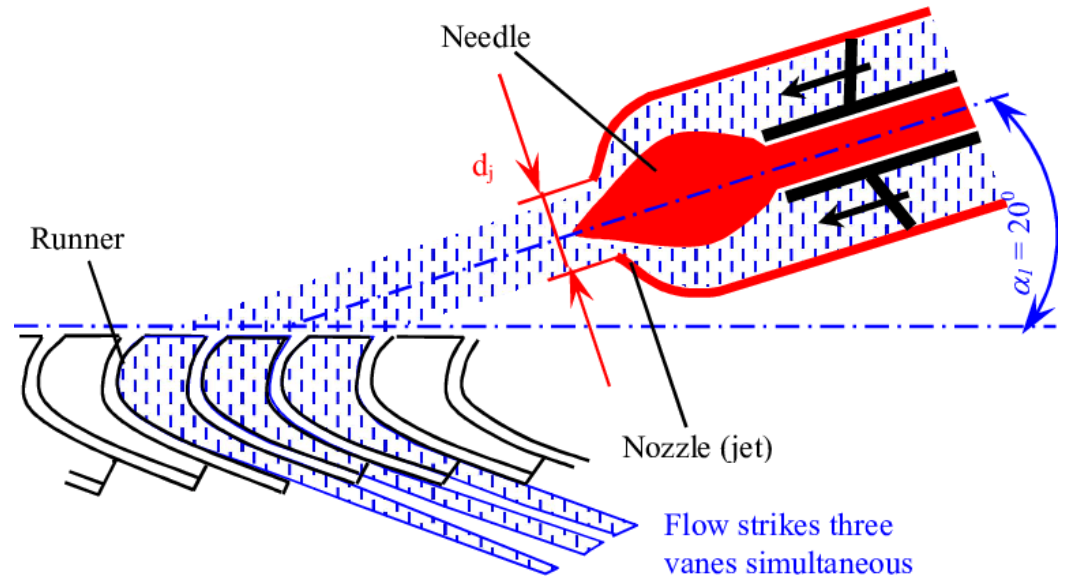
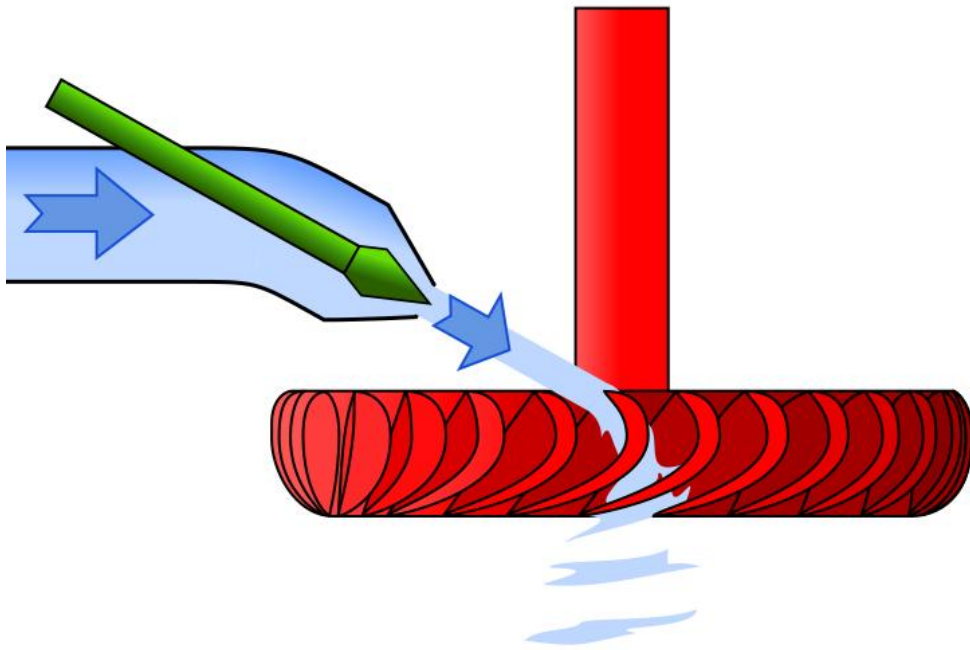


The Turgo

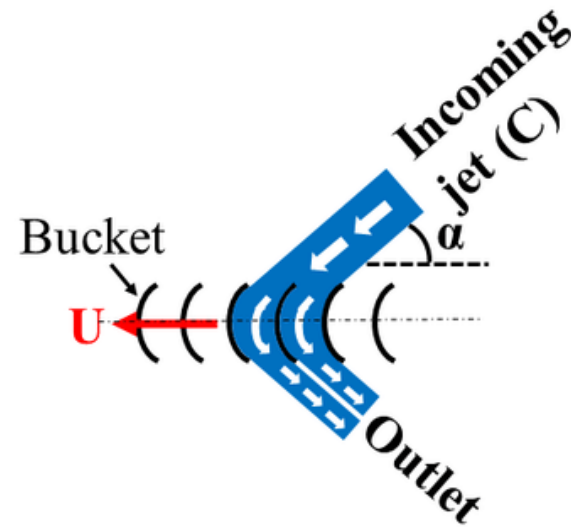
design allowed a much larger diameter jet to be applied to the turbine without losing efficiency .

This is achieved by the jet impacting the runner at an angle from the front side and expelling water out of the back .





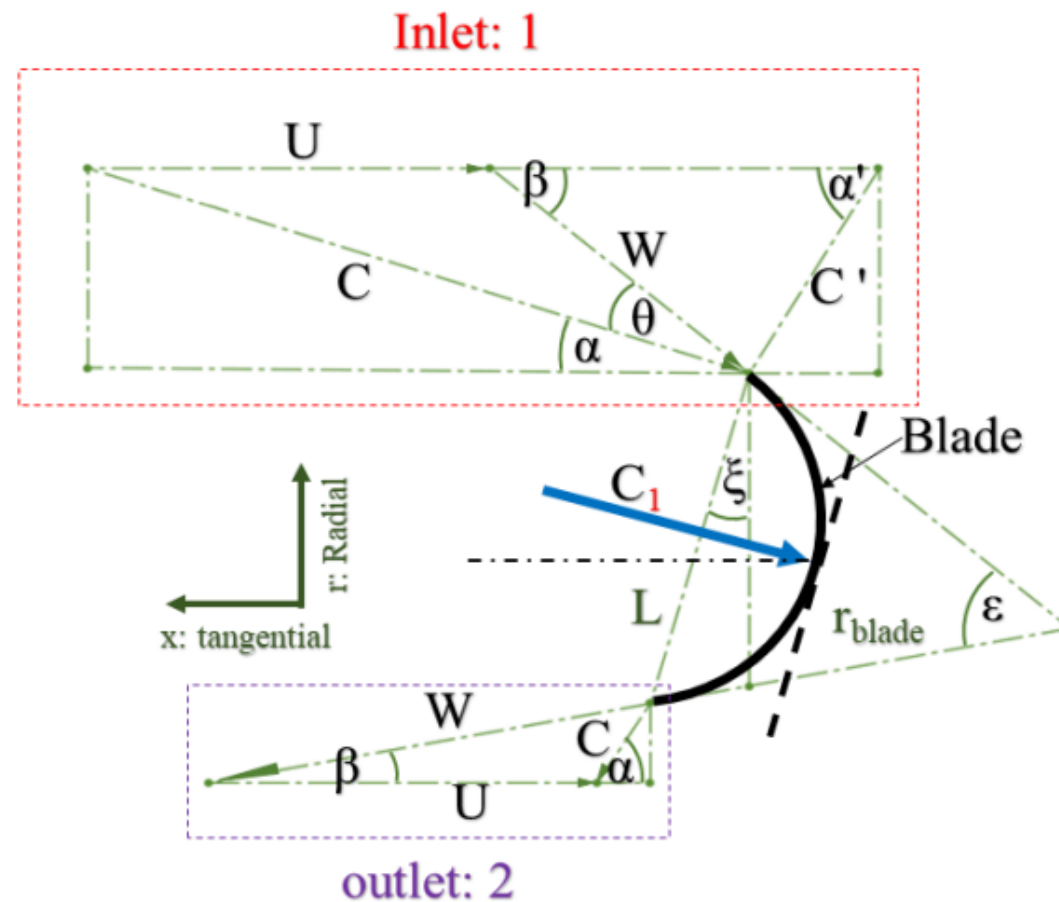
Pelton

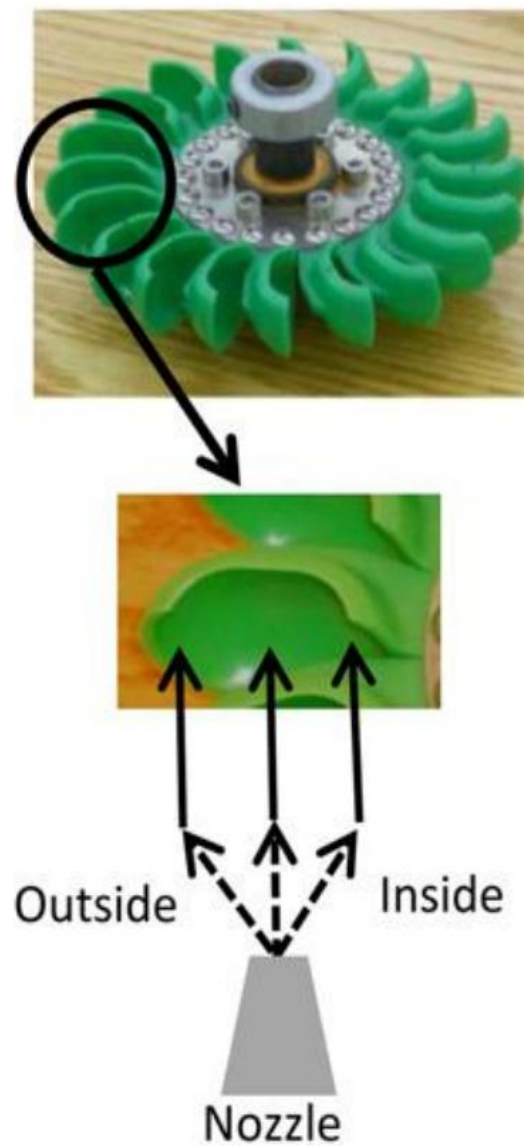
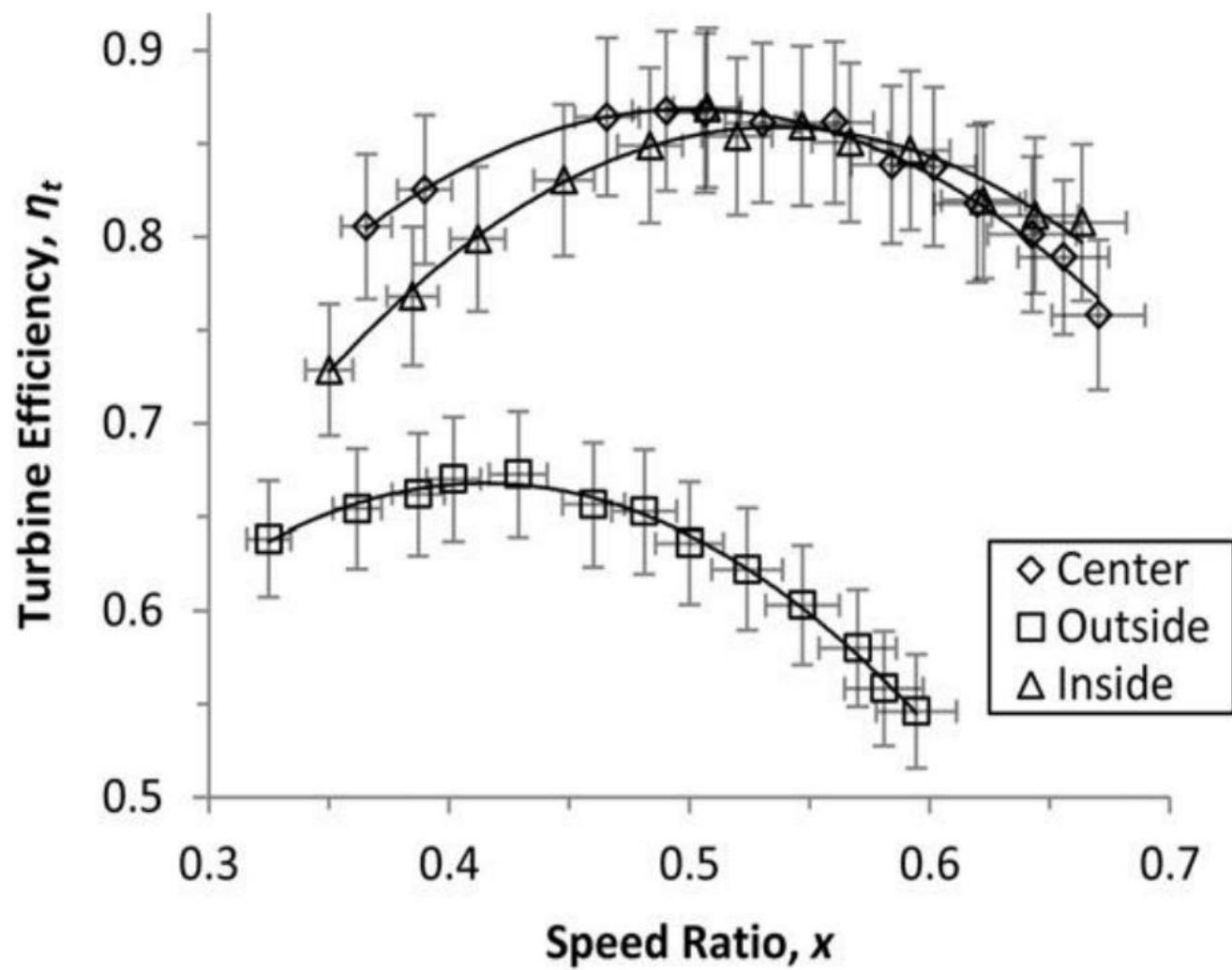


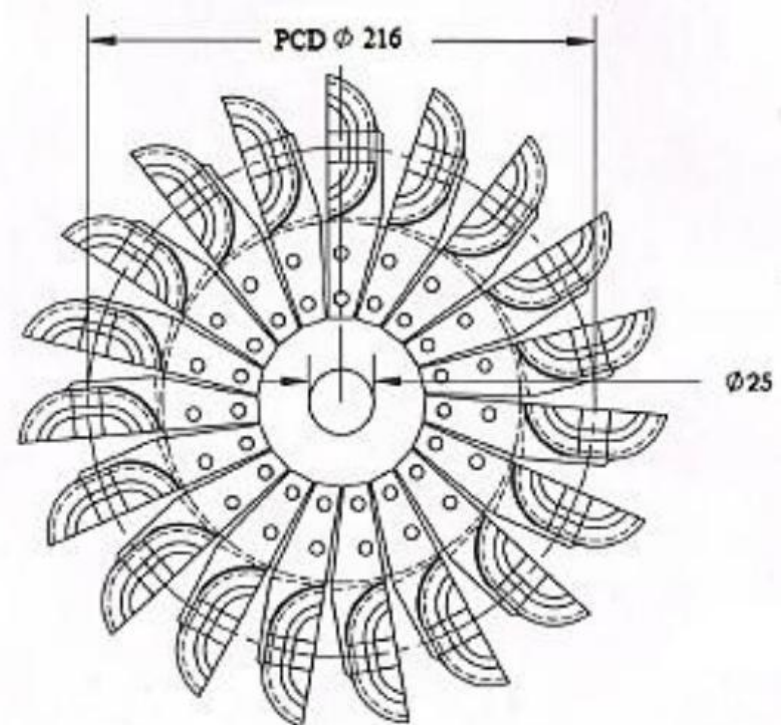
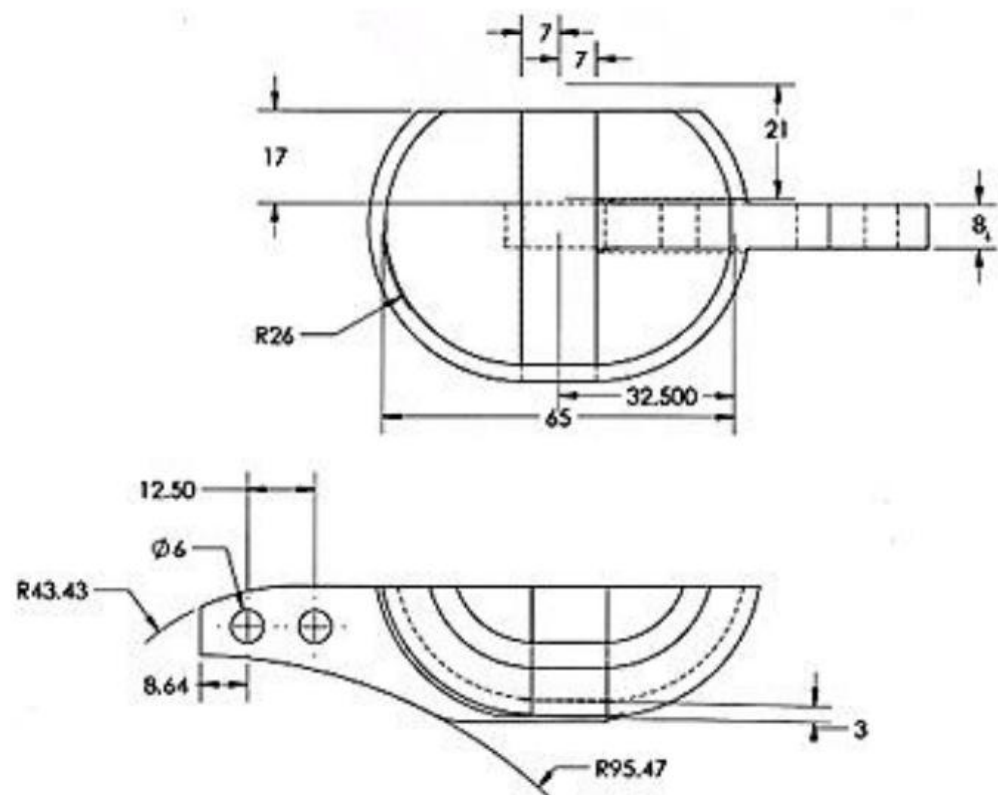
Turgo

Geometry of Turgo turbine blade and its performance in previous studies

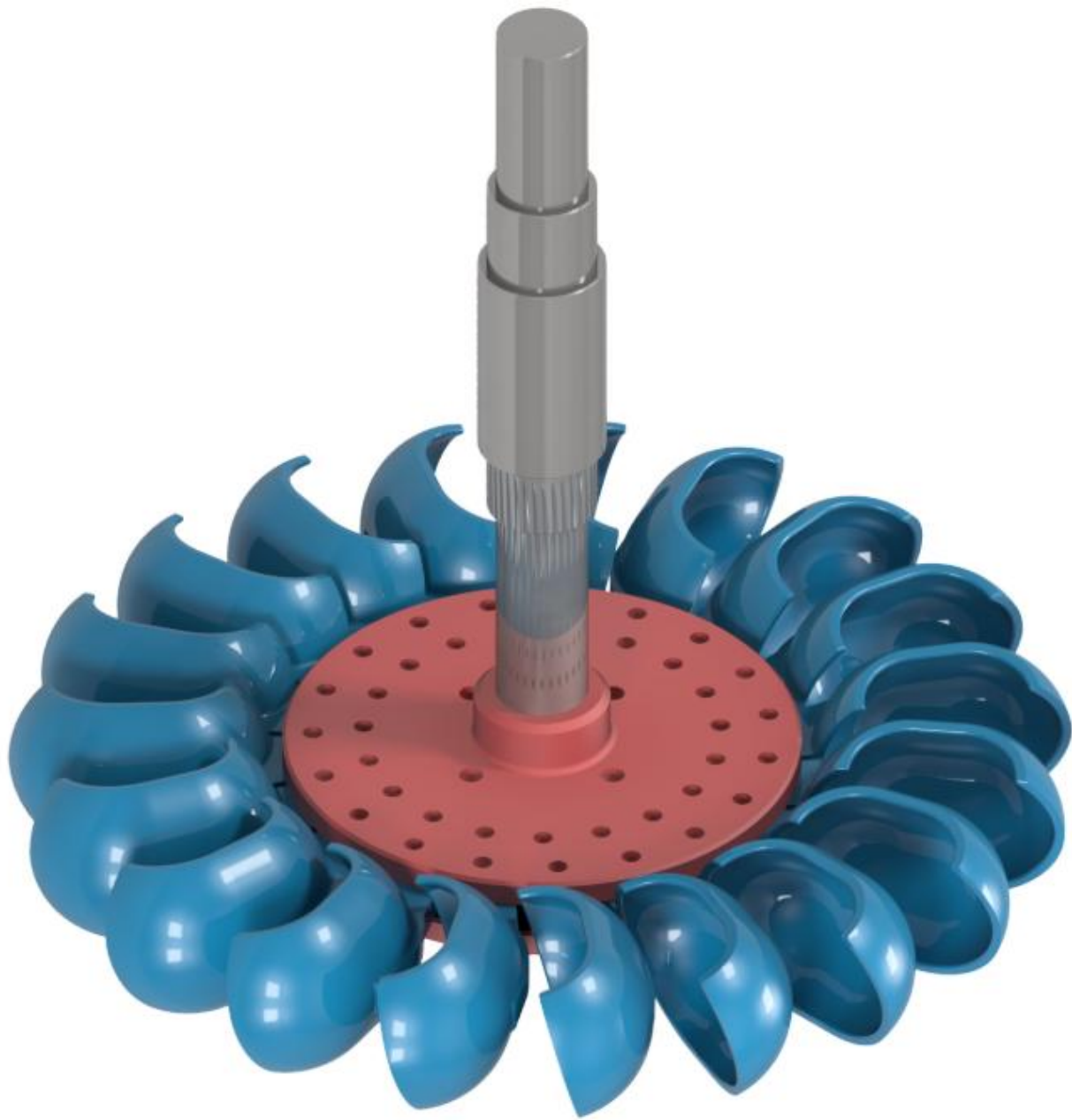
Authors	$\alpha_1 (^{\circ})$	$\beta_1 (^{\circ})$	$\beta_2 (^{\circ})$	$\gamma (^{\circ})$	$P_{\text{mech}} \text{ (W)}$	$\eta \text{ (\%)}$
Gaiser <i>et al.</i> , [11]	30	79	19	11	83	90
Saeed <i>et al.</i> , [6]	20	34	30	56	85.98	83
Williamson <i>et al.</i> , [8]	20	60	30	20	89.69	91

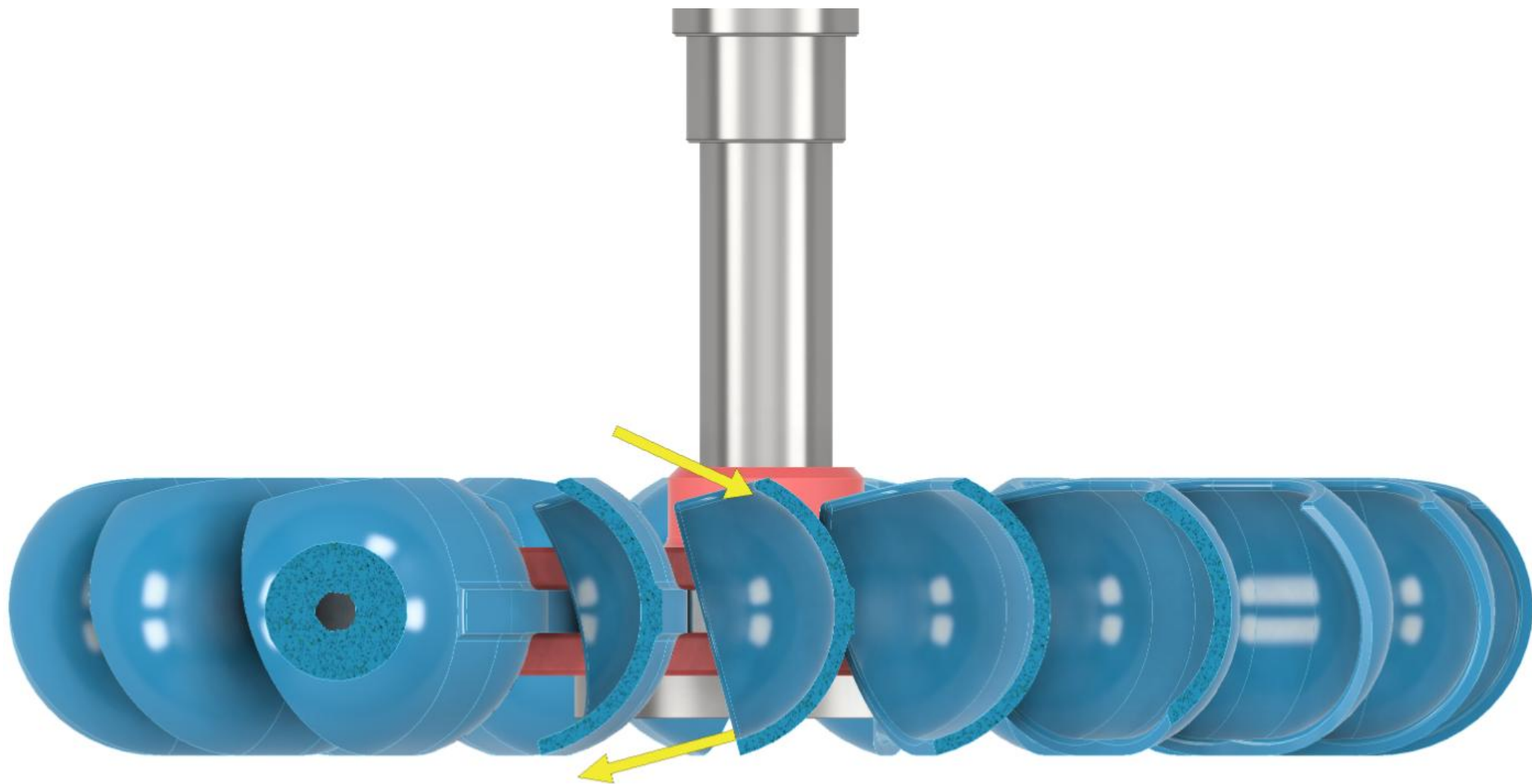


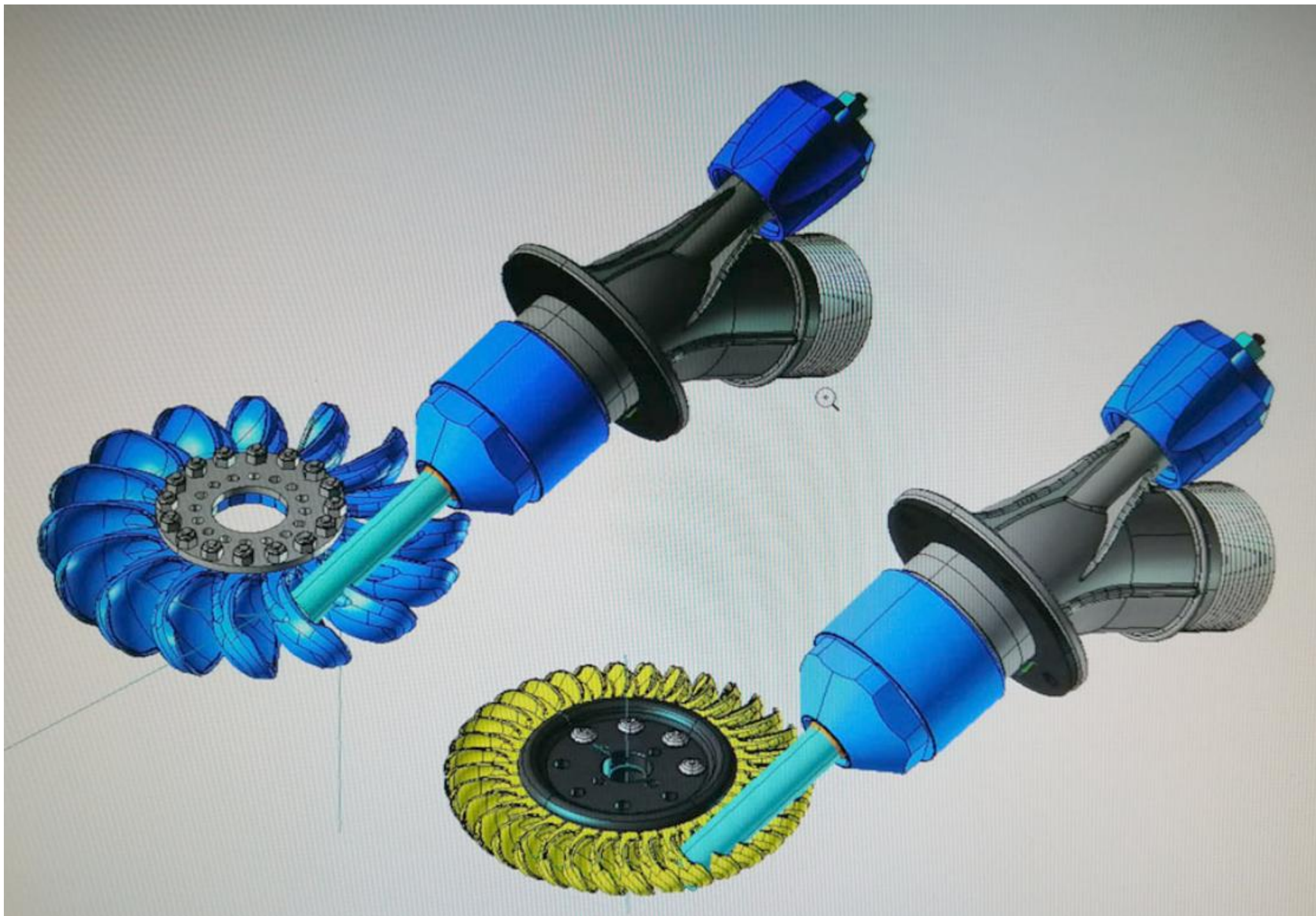


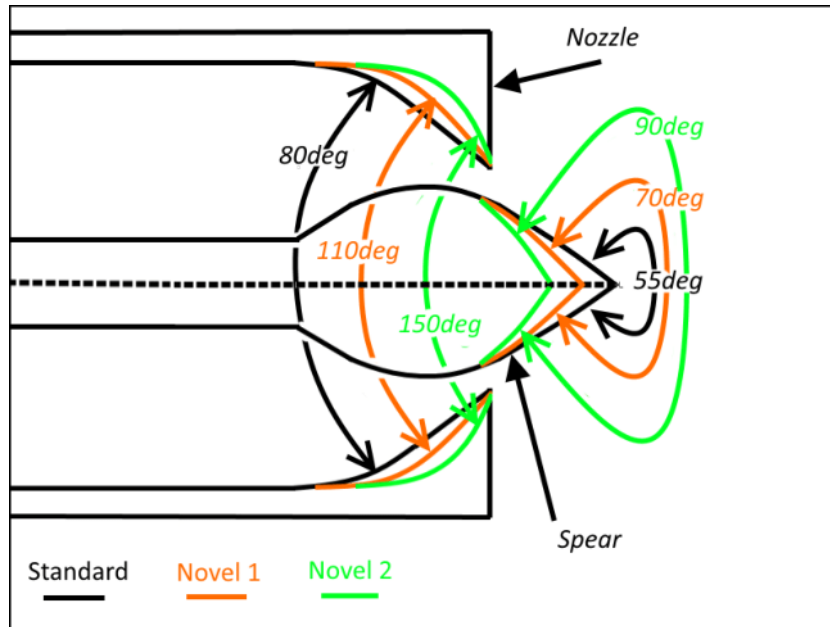












Injector design	Nozzle Angle [deg]	Spear Angle [deg]	Nozzle Diameter [mm]
Standard	80	55	78.00
Novel 1	110	70	81.25
Novel 2	150	90	84.70

Table 1-Turgo injector main dimensions

