

INSTALLATION, OPERATION, AND MAINTENANCE MANUAL

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**M. Herrchen, Fraunhofer-Institut für
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web the 50 reaction turbine has been used widely and has special significance the velocity diagram of a 50 reaction is symmetrical and for the maximum utilization factor the exit velocity v_2 must be axial figure 2 40 shows a velocity diagram of a 50 reaction turbine and the effect on the utilization factor

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web $p_1 v_1 u_1 v_2$ 2 gz_1 q $p_2 v_2 u_2 v_2$ 2 gz_2 w $p_1 v_1 u_1 h_1$ enthalpy of steam at inlet $p_2 v_2 u_2 h_2$ enthalpy of steam at exit $h_1 v_2$ 2 gz_1 q $h_2 v_2$ 2 gz_2 w generally changes in potential energy are negligible z_1 z_2 if no heat is supplied from the surroundings then $q = 0$

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web velocity diagram fig 7 velocity diagram of pressure compounded reaction turbine the velocity diagram given in figure 7 gives a detail about the various components of steam velocity and blade velocity symbols have the same meaning as above see also pressure compounding in turbines references

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