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Basic categories of Single stage Turbines (TR) in manufacturing

G - Team company, a.s

TR with overhung turbine wheel TR320, TR560

- simple design, low costs of installation and quick economic return
- most types with possible operational efficiency thanks to partial spray
- min build-up area
- high gross thermal efficiency
- min 25 years of service life
- easy operation and min maintenance
- suitable for driving generators, feed pumps and fans
- easy installation
- type symbol I:



TR with turbine wheel between bearings

• TR 600

- very long service life
- possible mechanical and electronic control
- possible more lines of running blades
- suitable for driving generators, feed pumps, fans and also sugar-cane mills
- type symbol:



TR with frequency converter

• TR Hi 150

- gearbox is replaced with high-frequency generator and frequency converter
- min build-up area
- only for driving the high-frequency generator, which is part of turbine
- type symbol:
- Micro turbine



Gas expansion turbines

- straight integrated with gas distribution
- only for generator drive
- type symbol:



adresa: **G-Team** a.s. – odštěpný závod **Turbomachinery**

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Type of (Single stage) Turbine	TR Hi 150	TR 320	TR 560	TRm 600
For mechanical drive				
For generator drive				
Integrated gear-box included				
Max. operating data				
Output power kW	100	700	3 000	1 200
Turbine speed ¹ /min	32 000	19 000	13 000	5 000
Admission pressure (steam) MPa(a)	4,0	9,0	4,0	6,0
Input steam temperature °C	420	550	550	450
Output steam pressure MPa(a)	1,4	2,5	1,4	0,9

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