

# CRYOGENIC GAS TURBINES

Specially designed for use with helium

Small cryogenic gas turbines designed for gas expansion in the processes of liquefaction, refrigeration or other cryogenic processes



## Basic technical information and main parameters

### Main features

- Modular solution suitable for customization
- Compact design
- Small device with cooling power from 50 W to 3,800 W
- High speed – up to 360,000 RPM
- Wide range of mass flow from 4 g/s to 200 g/s
- Dynamic gas lubricated bearings
- Power consumed by water-cooled eddy-current brake
- Simple and accurate operation controlled by special control unit
- Possibility to be used with other inert gases – nitrogen, argon, etc.



### Main parameters

TYPE	MASS FLOW	COOLING POWER	MAX. INLET PRESSURE	INLET TEMPERATURE	RPM (MAX.)
	g/s	W	MPa	K	min <sup>-1</sup>
HEXT 0.5	4 – 10	100 - 500	1.8	10 - 150	360,000
HEXT 1.5	10 – 50	200 - 1,500	1.8	10 - 150	360,000
HEXT 2	15 – 150	300 - 2,500	1.8	10 - 150	360,000
HEXT 3	15 - 200	500 - 4,000	1.8	10 - 150	360,000

### Main references

