

## Rare-earth Cobalt Magnets TOSREX™



### Most reliable Magnets Used Under High Temperature

Rare-earth cobalt magnets (TOSREX™) can be used at high temperature because they have a higher Curie point and stable magnetic properties. We offer various types of magnets in a series including those with high magnetic flux density and those with high coercive force. We also offer cost-effective magnets.



### Application Example Magnet Couplings

A magnet coupling is a coupling that employs magnetic attractive and objective forces to transmit rotating or thrusting forces from the driving side to the driven side without making contact. When a bulkhead is installed between the driving side and the driven side, both sides will be completely isolated.



### [Advantages]

- High heat resistance
- Curie point 780 - 860°C
- Temperature coefficient of residual magnetic flux density -0.036% / °C

### [Applications]

- Magnet couplings
- Electric motors
- Magnets for sputtering equipment
- Actuators
- Automobile magnets (Antilock brake system (ABS), ignition magnets, etc.)
- Assembly parts, magnetic circuit design

We also offer magnetization system (Magnetization power source design, Magnetization yoke design and manufacturing)

### List of Properties

Material by Toshiba code	Residual magnetic flux density Br [T]	Coercive force		Maximum energy product (BH) max [kJ/m³]	
		bHc [kA/m]	iHc* [kA/m]		
●	TS-28HS	1.04~1.10	755~830	1,190~1,750	205~225
	TS-26HS	1.04~1.10	715~800	1,190~1,750	90~210
	TS-28H	1.06~1.12	715~835	795~1,270	205~225
	TS-26H	1.01~1.07	675~795	795~1,270	190~210
■	TS-28HE	1.05~1.11	595~795	635~955	200~220
	TS-26HE	1.00~1.06	555~755	635~955	185~205
	TS-25H	1.00~1.06	675~795	715~1,120	165~200
△	TS-24H	0.95~1.03	635~755	715~1,120	150~195
	TS-25HE	1.03~1.10	595~795	635~955	185~220
▲	TS-24HE	0.98~1.05	555~755	635~955	170~205
	TS-28	1.00~1.06	475~715	520~795	175~210
○	TS-24	0.95~1.03	440~680	520~795	160~195

- : High magnetic flux density & high coercive force
- : High magnetic flux density & high cost performance
- △ : High coercive force & high cost performance
- ▲ : Medium coercive force & high cost performance
- : High cost performance

\*iHc can be adjusted within ±160 kA/m as per your request. Special specifications of ±100 kA/m can be requested.

Classification by shaping method	
Right-angle pressing	Traverse field
Parallel pressing	Traverse field