

ELECTROMAGNETIC EXTRACTOR DRUM

TEME**SCOPE**

The **TEME** electromagnetic extractor drums are usable on any bulk product above vibrating feeders, conveyor belts or chutes. They are recommended for :

- the extraction of ferromagnetic materials in high concentration,
- the sorting of heavy and bulky ferromagnetic materials,
- the purification of ferromagnetic materials.

Used mainly on medium-sized layers, they are perfect for treating heavy, blunt products with a large granular size.

Thanks to their robustness and tightness, they are perfect for outside applications in an aggressive environment such as :

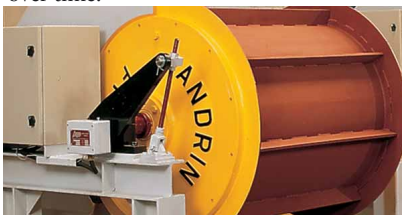
- car crushing installations,
- incineration plants,
- slag sorting,
- selective sorting centers.

TECHNICAL DESCRIPTION

The **TEME** drums consist of an envelope rotating around a fixed magnetic circuit. The main components are :

- a rotating envelope made of thick manganese steel for a **maximum service life**. It is equipped with reinforced brackets and side aprons made of non-magnetic manganese steel,
- two aluminum side flanges,

- a magnetic circuit made of high permeability steel supporting a main pole for the extraction of ferromagnetic materials, an auxiliary pole to retain them against the hoop and an evacuation pole. The windings are made of an aluminum conductor with reinforced insulation,
- a fixed electric box to supply direct current to the windings,
- an innovative magnetic circuit orienting system, consisting of a key and a screw connecting rod ensuring a low positioning over time.



A lefthand drive system is offered in kit or in option. The bracket shape can be adapted according to the flow rate, the products to be treated and the drum rotating speed.

INSTALLATION MODALITIES

The **TEME** drums are always stored at the end of a vibrating feeder or a conveyor belt in an **extraction position**. The magnet's working environment must be non-magnetic.

Two installation modes are possible :

- mounted on a rigid frame above a vibrating feeder,

- assembled on a retractable frame suspended by chains or stretchers

The equipment may be completed by :

- side access catwalks to perform operations on the **TEME**,
- side boxes to contain the thrown ferromagnetic materials.

SPECIFICATIONS

Performances vary according to various parameters :

- characteristics of the products to be treated,
- characteristics of the ferromagnetic elements to be extracted and basic contents,
- extraction height.

Five TEME types are offered according to the work height :

250, 300, 350, 400, 550 mm.

ADDED FEATURES

- A drum extremely resistant to shocks and wear.
- A magnetic circuit protection against external particles and moisture.
- A homogeneous magnetic field over the usable width.
- Alternated poles allowing a magnetic brazing of the products and an extraction of clean and quality cast iron.
- A precise orientation of the magnetic circuit with an anti-vibration blocking system.

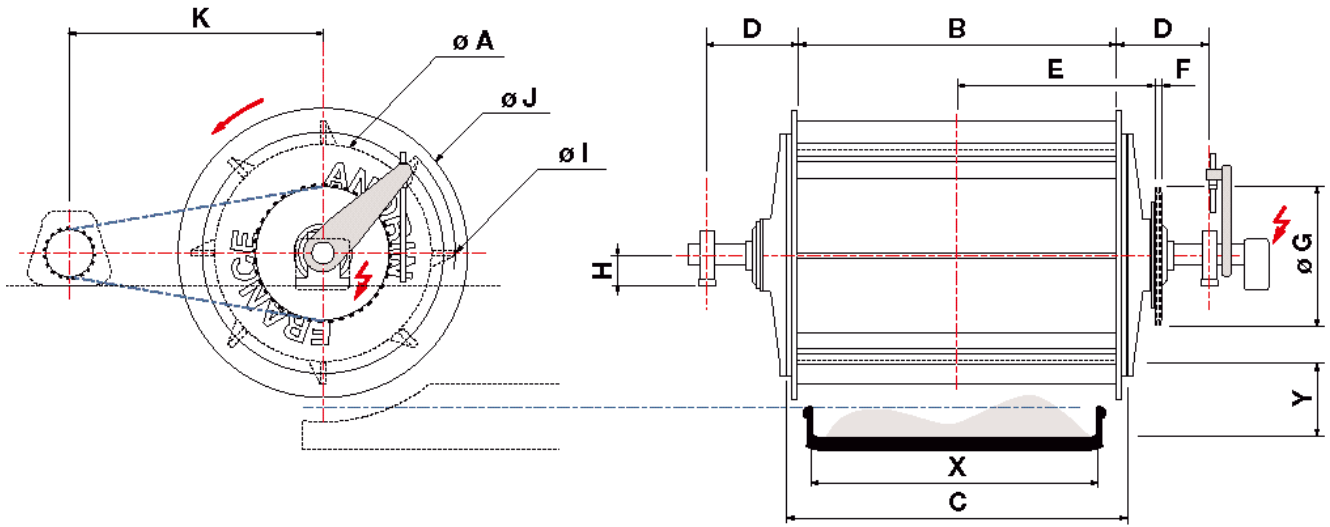
USAGE MODE

No special servicing or maintenance is required except for the lubrication of the drive chain and the bearings, as well as a periodic check of the drum

TECHNICAL DATA

TEME

We provide after-sales service for all brands and all types of equipment.



TYPE	Weight Kg	Magnet power W	Voltage V	Cabinet type	Motor drive system in option		Dimensions (mm)										Convoyer belt (mm)			
					Pw rat. KW	Speed rpm	A	B	C	D	E	F	G	H	I	J	K	X	Y	
80 / 80	1135	2410	110/220	TRC 5	5	4	24	810	900	940	370	640	15	474	115	950	1100	700	800	250
80 / 100	1380	3000	-	-	-	-	-	-	1100	1140	-	740	-	-	-	-	-	-	1000	-
80 / 120	1610	3580	-	-	-	-	-	-	1300	1340	-	840	-	-	-	-	-	-	1200	-
80 / 140	1850	4170	-	-	-	-	-	-	1500	1540	-	940	-	-	-	-	-	-	1400	-
100 / 80	1970	3020	110/220	-	-	4	22	1020	900	940	370	640	47	474	120	1200	1310	900	800	300
100 / 100	2390	3740	-	-	-	-	-	-	1100	1140	-	740	-	-	-	-	-	-	1000	-
100 / 120	2810	4450	-	-	-	-	-	-	1300	1340	-	840	-	-	-	-	-	-	1200	-
100 / 140	3230	5170	-	TRC 12	-	-	-	-	1500	1540	-	940	-	-	-	-	-	-	1400	-
100 / 160	3625	6600	-	-	-	5.5	-	-	1700	1740	-	1040	-	-	-	-	-	-	1600	-
100 / 180	4040	7400	-	-	-	-	-	-	1900	1940	-	1140	-	-	-	-	-	-	1800	-
100 / 200	4460	8210	-	-	-	-	-	-	2100	2140	-	1240	-	-	-	-	-	-	2000	-
120 / 80	2525	4300	110/220	TRC 5	5	5.5	17	1220	900	940	370	640	47	627	120	1400	1510	900	800	350
120 / 100	3090	5310	-	TRC 12	-	-	-	-	1100	1140	-	740	-	-	-	-	-	-	1000	-
120 / 120	3655	6320	-	-	-	-	-	-	1300	1340	-	840	-	-	-	-	-	-	1200	-
120 / 140	4220	7320	-	-	-	-	-	-	1500	1540	-	940	-	-	-	-	-	-	1400	-
120 / 160	4790	8330	-	-	-	7.5	-	-	1700	1740	-	1040	-	-	-	-	-	-	1600	-
120 / 180	5355	9340	-	-	-	-	-	-	1900	1940	-	1140	-	-	-	-	-	-	1800	-
120 / 200	5920	10340	-	-	-	-	-	-	2100	2140	-	1240	-	-	-	-	-	-	2000	-
150 / 160	7230	10170	110/220	TRC 12	-	9.0	15	1524	1700	1740	370	1040	47	614	160	1724	2120	1100	1600	400
150 / 180	8055	11370	-	-	-	-	-	-	1900	1940	-	1140	-	-	-	-	-	-	1800	-
150 / 200	8880	12580	-	TRC 19	-	-	-	-	2100	2140	-	1240	-	-	-	-	-	-	200	-
180 / 180	10940	12560	110/220	-	-	11.0	12	1824	1900	1940	370	1140	47	614	160	2064	2420	1100	1800	550
180 / 200	12070	13870	-	-	-	-	-	-	2100	2140	-	1240	-	-	-	-	-	-	2000	-
180 / 220	13205	15180	-	-	-	-	-	-	2300	2340	-	1340	-	-	-	-	-	-	2200	-

Other custom sizes : up to 3400 mm wide

OPTIONS

• Drive system

including : drive/reducer gear, torque limiter, transmission chain, pinions and chain protector

• Frequency variator

- Righthand drive system
- Special brackets
- Double wear envelope
- Evacuation chute
- Adjustable bearings
- Metal suspension frame

• Support frame

- Side boxes
- Agroindustry finish
- Electrical switchgear and control alimentation

• Permanent magnet version : TMAP standard or box

