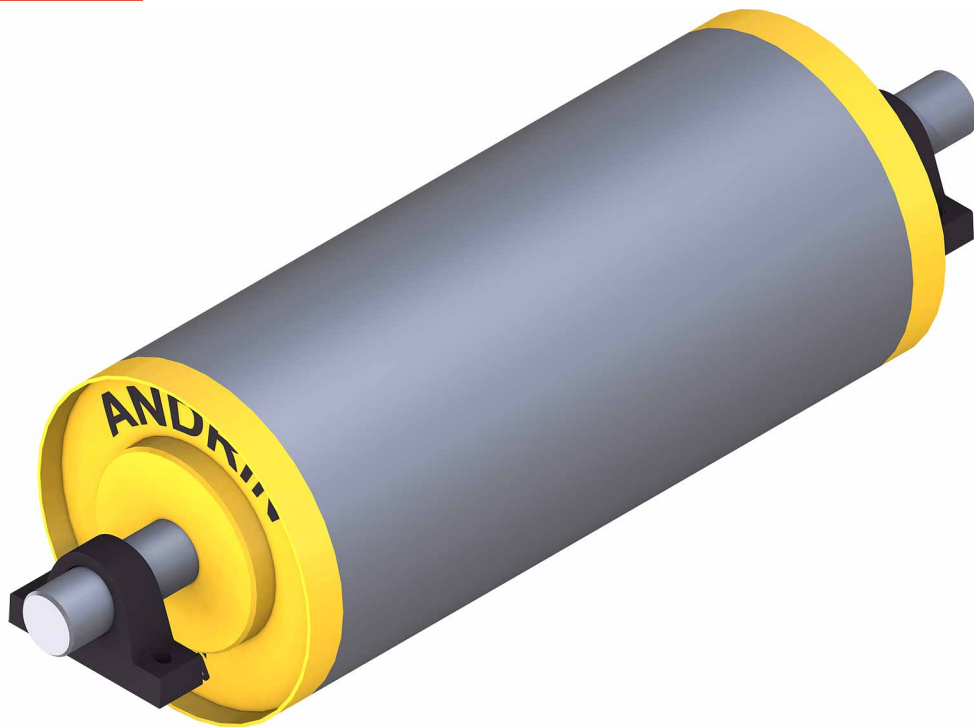


MAGNETIC PULLEY WITH PERMANENT MAGNETS

P M A P**SCOPE**

Magnetic Pulleys with Permanent Magnets, **PMAPs**, may be used on any conveyor. Bulk products processed have to be in thin or average thickness layers. PMAPs act at **the bottom of layers** enabling all ferrous materials, even spherical and small sizes, to be extracted. They are recommended for :

- **protecting** plants against ferromagnetic parts
- magnetic **refining** of bulk products.

TECHNICAL SPECIFICATIONS

PMAPs are manufactured in accordance with steelworks standards (NFH 95330). They consist of four parts :

- a steel shaft with a high mechanical strength and traction drive,
- two steel flanges mounted on removable hubs
- a non-magnetic stainless steel **smooth machined** shell for supporting the conveyor belt and protecting the magnets
- a high permeable steel magnetic circuit consisting of permanent magnets with **alternating polarities**. Dimensional accuracy and concentricity are guaranteed by lathe machining.

Shaft ends may be adapted on specific request.

INSTALLATION METHOD

PMAPs are fitted **in place** of conveyor head drums. They are entirely suited to your plant. The belt should be flexible and reinforced with non-magnetic clips. It may be smooth or with lugs. Ferrous materials, drawn to the bottom of the layer, are separated from the flow and held on the belt by the pulley's magnetism.

SPECIFICATIONS

Performances vary according to various parameters :

- characteristics of the products to be processed
- properties of the ferromagnetic parts to be extracted
- the torque and speed of the conveyor.

Six types of PMAP are offered according to the layer height :

50, 70, 100, 150, 180, 220 mm.

Dimensions of PMAPs are appropriate to the belt width standards.

To help you choose, a questionnaire is attached in our "Iron Removal" document.

THE ADVANTAGES

The robust construction of PMAPs guarantees a long-service life without maintenance.

Magnetic performance is **permanent, uniform and almost unlimited**. PMAPs do not require any energy source.

Normal shaft changing is made easier by using removable hubs.

PMAPs and conveyor head drums are effectively interchangeable.

The magnetic field is **active and uniform** over the whole width of the belt.

INSTRUCTIONS FOR USE

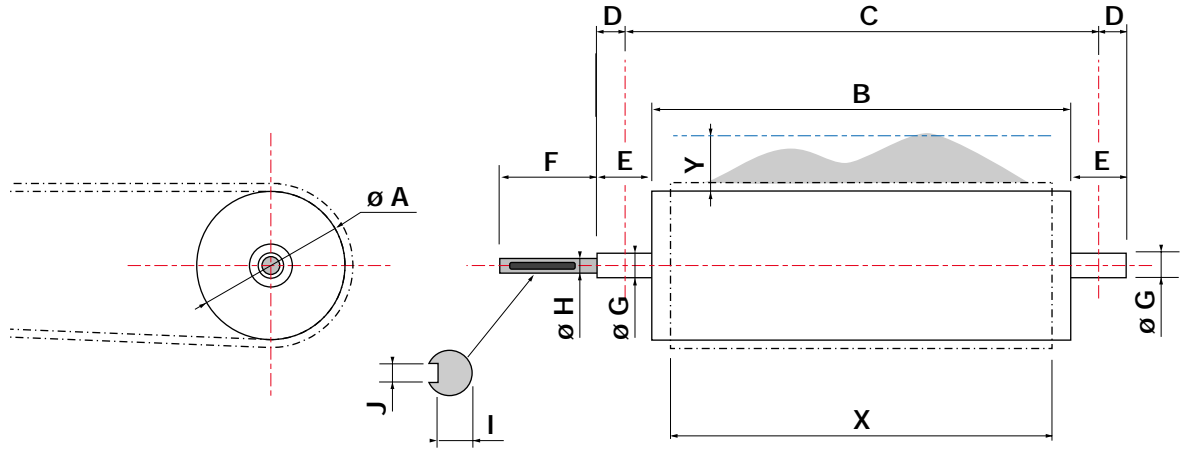
The magnetic part **requires no maintenance nor upkeep**.

Cleanliness of the shell shall be periodically checked.



TECHNICAL FEATURES

P M A P



TYPE	Weight Kg	Dimensions (mm)										Conveyor	
		A	B	C	D	E	F	G	H	I	J	X (mm)	Y
25 / 40	81	250	500	680	70	160	110	50	48	42.5	14	400	50
25 / 50	94	-	600	780	-	-	-	-	-	-	-	500	-
25 / 65	104	-	750	930	-	-	-	-	-	-	-	650	-
25 / 80	130	-	950	1080	-	-	-	-	-	-	-	800	-
25 / 100	175	-	1150	1340	85	180	140	65	60	53.0	18	1000	-
25 / 120	205	-	1400	1540	-	155	-	-	-	-	-	1200	-
25 / 140	234	-	1600	1740	-	-	-	-	-	-	-	1400	-
32 / 40	129	320	500	680	70	160	110	50	48	42.5	14	400	70
32 / 50	149	-	600	780	-	-	-	-	-	-	-	500	-
32 / 65	173	-	750	930	-	-	-	-	-	-	-	650	-
32 / 80	212	-	950	1080	-	135	-	-	-	-	-	800	-
32 / 100	271	-	1150	1340	85	180	140	65	60	53.0	18	1000	-
32 / 120	316	-	1400	1540	-	155	-	-	-	-	-	1200	-
32 / 140	358	-	1600	1740	-	-	-	-	-	-	-	1400	-
40 / 40	226	405	500	680	70	160	110	50	48	42.5	14	400	100
40 / 50	263	-	600	780	-	-	-	-	-	-	-	500	-
40 / 65	310	-	750	930	-	-	-	-	-	-	-	650	-
40 / 80	399	-	950	1080	85	150	140	65	60	53.0	18	800	-
40 / 100	479	-	1150	1340	-	180	-	-	-	-	-	1000	-
40 / 120	563	-	1400	1540	-	155	-	-	-	-	-	1200	-
40 / 140	670	-	1600	1770	95	180	-	80	75	67.5	20	1400	-
50 / 50	368	500	600	780	85	175	140	65	60	53.0	18	500	150
50 / 65	433	-	750	930	-	-	-	-	-	-	-	650	-
50 / 80	535	-	950	1080	-	150	-	-	-	-	-	800	-
50 / 100	663	-	1150	1370	95	205	-	80	75	67.5	20	1000	-
50 / 120	781	-	1400	1570	-	180	-	-	-	-	-	1200	-
50 / 140	886	-	1600	1770	-	-	-	-	-	-	-	1400	-
63 / 65	632	634	750	960	95	200	140	80	75	67.5	20	650	180
63 / 80	777	-	950	1110	-	175	-	-	-	-	-	800	-
63 / 100	926	-	1150	1370	-	205	-	-	-	-	-	1000	-
63 / 120	1136	-	1400	1590	110	-	170	100	95	86.0	25	1200	-
63 / 140	1287	-	1600	1790	-	-	-	-	-	-	-	1400	-
80 / 80	1018	804	950	1130	110	200	170	100	95	86.0	25	800	220
80 / 100	1203	-	1150	1390	-	230	-	-	-	-	-	1000	-
80 / 120	1410	-	1400	1590	-	205	-	-	-	-	-	1200	-
80 / 140	1680	-	1600	1815	125	233	210	125	120	109.0	32	1400	-

Other sizes are available. Contact our technical staff.

OPTIONS

- Roller bearings
- Finish for food - processing
- Shafts
Shaft dimensions made to measure
- Electromagnetic release : PEM
- Borium Iron Neodymium
PMAPs are fitted with very high induction magnets for certain products and some particle sizes.

