

MAGNETIZING EQUIPMENT

PULSE MAGNETIZING YOKES EM

Yoke magnetizing is certainly the oldest method of magnetizing permanent magnets and magnet systems. It is especially suitable to magnetize two-pole systems made of AlNiCo and Ferrite magnet material.

The main advantage of this technique is high reliability of operation in automatic production lines and favourable price performance.

To build up and diminish the magnetic field with a minimum loss, all Magnetizing Yokes are made of special magnetic steel sheet.

In order to reduce the clock time we have developed a new short clock pulse control IKS and furnished the pulse generators with this new feature. It diminishes the magnetic field within a few milliseconds and the temperature of the coil is drastically reduced. In production lines clock times of 4-5 sec can be achieved (see diagram 1).

As an option we supply for all Magnetizing Yokes:

- Any connection voltage required
- Suitable pole inserts for magnets and magnet systems, with fluxmetric measuring coils to measure the magnetic flux
- Current inspection to control the magnetic field strength
- Suitable manual handling systems with automatic feed of the system into the Yoke.



Yoke EM 6-J



Pulse Generator IKS

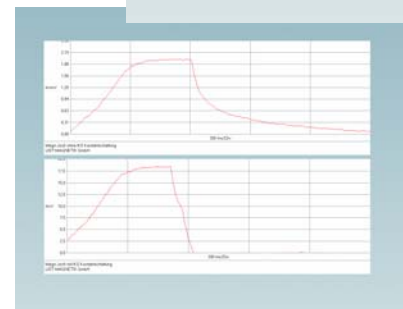
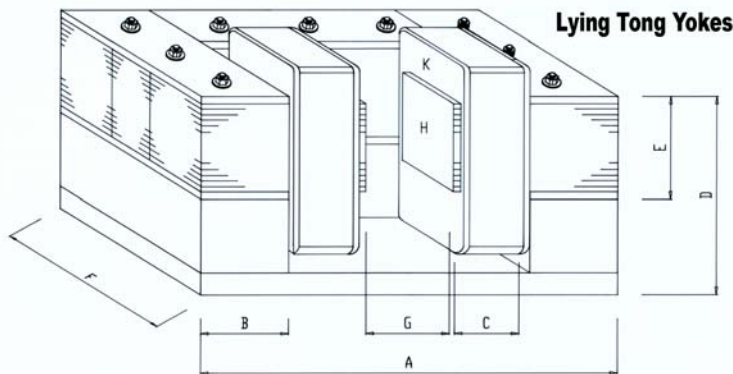


Diagram 1:
Pulse course with and without short clock pulse control IKS

Technical Data and Dimensions [mm]												
Type	A	B	C	D	E	F	G	Pole cross section H	Coil flange K	max. Ampère turns	Weight [kg]	Connection
EM2-J	386	44	100	180	44	180	10-80	80 x 44	170 x 120	28.000 AW	40	230 V
EM3-J	280	50	50	190	80	200	72	80 x 60	180 x 180	30.000 AW	45	230 V
EM5-J	510	100	90	245	120	360	100	100 x 100	230 x 230	51.000 AW	80	3 x 400 V
EM6-J	570	120	90	265	140	360	120	120 x 120	260 x 260	66.000 AW	120	3 x 400 V
EM7-J	680	140	100	270	160	360	140	140 x 140	290 x 290	75.000 AW	180	3 x 400 V



The human eye – symbol of our job:
 Guaranteeing quality through surveillance. Perfect
 in function and technology. Open to everything new,
 recognizing changes in due time and responding to
 them shrewdly. Success is visible.

PULSE MAGNETIZING EQUIPMENT WITH CAPACITOR DISCHARGE UKI - MPHP

The new Magnetizers **UKI-MPHP** work according to the capacitor discharge process and are equipped with a new and comfortable SPS control system with graphic operation terminal.

The Magnetizers **UKI-MPHP** are used to magnetize all kind of multi-pole permanent magnet systems, especially those made of rare earth alloys.

According to our high quality standards the equipment are furnished with all necessary safety components and offer a high degree of reliability and comfort. They include special reply signals for the application in automatic production lines.

Using the Magnetizers together with the new developed Pulse Transformer **IT1** pulsed currents up to 80 kA can be achieved, allowing an optimal magnetic saturation of multi-pole rare earth magnets with very narrow neutral alternating pole zone and at the same time high clock times.

The following options are available on request:

- Adapted magnetizing coils and devices
- Flux measurement with Fluxmeter FL-3
- Current monitoring to control the magnetizing field strength
- Temperature control of the connected magnetizing device
- Adaptable manual handling systems with automatic feed of the systems to be magnetized



UKI-MPHP 8000 with manual handling system



Pulse Transformer IT-1

Operation Terminal UKI-MPHP



With our up-to-date field simulator software we are able to find the best solution for your application.

We just need the following information with your inquiry:

- Dimensions of magnet or magnet system
- Magnet material or designation
- Type of magnetization and pole configuration
- Clock time required
- Sample or diagram of the system to be magnetized

Technical Data and Dimensions									
(All devices include a serial interface and reply signals 24V DC)									
Type	max. Energy [Ws]	max. Voltage adjustable [V]	max. Pulse Current [A]	min. Clock time [sec.]	Fluxmeter FL-3	Control Cabinet Dimensions HxBxT [mm]	Connection and Protective System	Standard laquer RAL	Weight [kg]
UKI - MPHP 1000	1000	20 – 1000	20.000	4		1400 x 600 x 800	230V / IP54	7035	90
UKI - MPHP-FL 1000	1000	20 – 1000	20.000	5	X	1400 x 600 x 800	230V / IP54	7035	90
UKI - MPHP 2000	2000	20 – 1000	20.000	5		1400 x 600 x 800	3x400V/IP54	7035	110
UKI - MPHP-FL 2000	2000	20 – 1000	20.000	6	X	1400 x 600 x 800	3x400V/IP54	7035	110
UKI - MPHP 4000	4000	20 – 1000	25.000	7		1400 x 600 x 800	3x400V/IP54	7035	150
UKI - MPHP-FL 4000	4000	20 – 1000	25.000	7	X	1400 x 600 x 800	3x400V/IP54	7035	150
UKI - MPHP 6000	6000	20 – 1000	25.000	8		1600 x 600 x 800	3x400V/IP54	7035	300
UKI - MPHP-FL 6000	6000	20 – 1000	25.000	8	X	1600 x 600 x 800	3x400V/IP54	7035	300
UKI - MPHP 8000	8000	20 – 1000	25.000	8		1600 x 600 x 800	3x400V/IP54	7035	400
UKI - MPHP-FL 8000	8000	20 – 1000	25.000	8	X	1600 x 600 x 800	3x400V/IP54	7035	400
UKI - MPHP 10.000	10.000	20 – 1000	25.000	10		1800 x 600 x 800	3x400V/IP54	7035	600
UKI - MPHP-FL 10.000	10.000	20 – 1000	25.000	10	X	1800 x 600 x 800	3x400V/IP54	7035	600
UKI - MPHP 12.000	12.000	20 – 1000	25.000	12		1800 x 600 x 800	3x400V/IP54	7035	700
UKI - MPHP-FL 12.000	12.000	20 – 1000	25.000	12	X	1800 x 600 x 800	3x400V/IP54	7035	700
UKI - MPHP 14.000	14.000	20 – 1000	25.000	14		1800 x 600 x 800	3x400V/IP54	7035	800
UKI - MPHP-FL 14.000	14.000	20 – 1000	25.000	14	X	1800 x 600 x 800	3x400V/IP54	7035	800

We also supply Automatic Calibration Equipment on request.



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