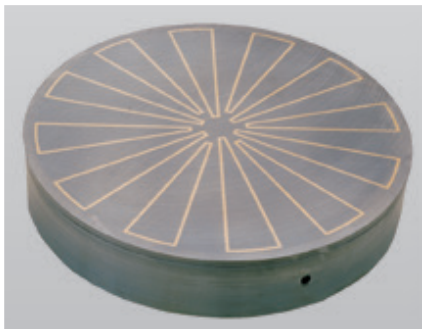


Electro-Magnet-Clamping-Chucks



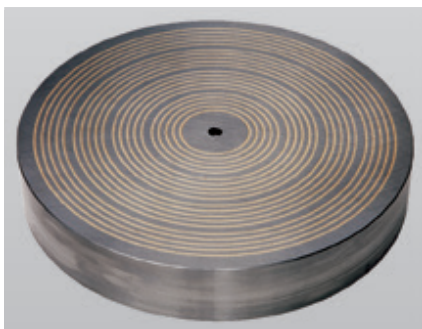
Series 121

with radial pole spacing

Arranging the poles in a radial shape is particularly advantageous if wishing to centrally clamp individual, annular or round workpieces.

(e.g. circular grinding, turning, ...)

With the shape, you can use pole shoes to release the pole pitch of your workpiece for further processing.

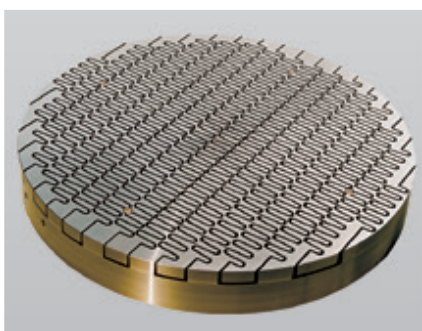


Series 123

with ring pole spacing

The ring pole spacing is designed to clamp even workpieces, which are not centrally aligned. This chuck is thus particularly suitable for mass distribution with smaller workpieces.

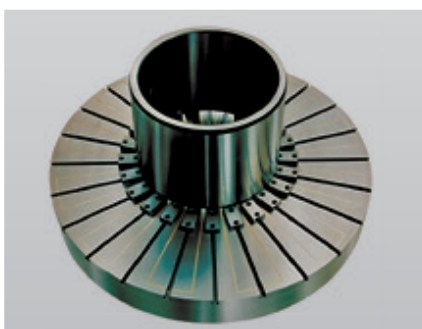
(e.g. flat grinding on rotary table machines).



Series 125

with sinusoidal pole spacing

This specific type of pole spacing provides for a distribution of north and south poles over the entire clamping surface, in both longitudinal and transverse directions, which often allows you to boost adhesion significantly compared to other forms of pole space. This is the only chuck, with which you clamp right up to the middle.



Additional pole shoes

Pole shoes improve the positioning of your workpiece and in so doing, enhance the function of the magnetic clamping chuck. Release allows the workpiece to be processed in either the outside or inside diameter without a problem.

Structure:

Electro magnet clamping chucks primarily consists of three components:

A solid steel lower section, a copper coil and a pole plate. The coil is moulded within the lower section, which means it is securely protected against vibrations and the ingress of moisture.

One key quality feature of our clamping chucks is the optimal alignment between the electrical power consumption and the magnetic force that can be generated.

While practically applied, the pole plate is subject to wear and tear. Accordingly, it is designed to facilitate multiple reworking before the processing limits are reached. The pole plates can be replaced without any problems, which extends the service life of the overall chuck accordingly.

The pole plate can be individually customised to meet your requirements at any time. This may be relevant for example with additional tapped holes, T-grooves, profile, etc.

Design:

- Protection class: IP 65
- Magnet operating time: 100 % (excluding electrical connection)

Magnetic technology:

Pole spacing

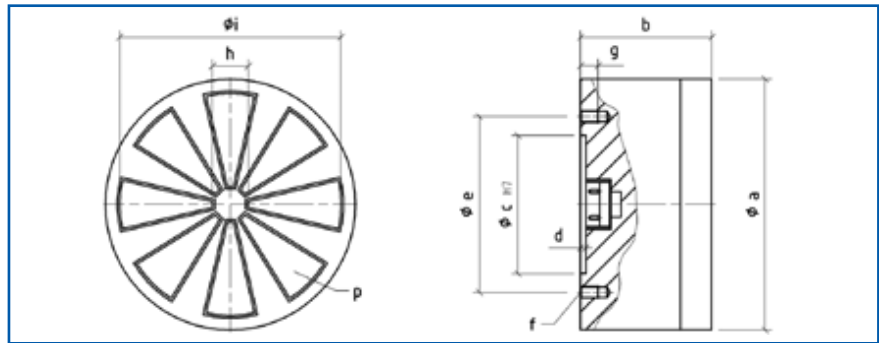
The arrangement of the magnetic pole on the clamping surface is known as the pole pitch. The optimal pole pitch for you depends on the respective usage case.

Pole distance

The centre-to-centre spacing from two neighbouring unequal magnetic poles is known as the pole distance. Refer to the following guideline to select the suitable pole distance:

Workpiece thickness x 2 = optimal pole distance

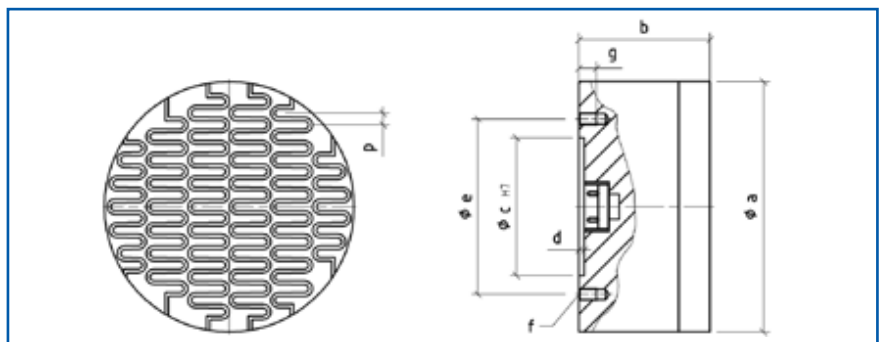
Series 121



Type	p Number of pole pairs	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f Thread	g [mm]	h unmagnetised Zone [mm]	i [mm]	Output [Watt]	Weight [kg]
121-10	6	100	80	60	3	80	3xM8	12	16	82	16	4
121-15	6	150	80	90	3	120	3xM10	14	16	128	30	10
121-20	6	200	90	110	3	140	3xM10	14	22	178	48	20
121-30	8	300	90	160	3	190	4xM12	16	46	272	90	45
121-40	12	400	90	210	4	250	6xM12	16	70	362	150	79
121-50	12	500	90	280	4	320	6xM12	16	70	462	190	124
121-60	12	600	100	350	4	390	6xM16	18	70	564	265	198
121-70	16	700	100	400	4	450	6xM16	18	92	662	350	269
121-80	16	800	100	450	4	500	6xM16	18	92	762	440	352
121-90	16	900	100	500	4	560	6xM16	18	92	866	545	445
121-100	16	1000	125	550	4	620	6xM16	18	92	954	660	687
121-120	16	1200	125	Rear side by agreement				22	200	1154	960	989
121-140	16	1400	125	Rear side by agreement				22	260	1354	1100	1346
121-160	16	1600	125	Rear side by agreement				22	300	1554	1630	1758

Other dimensions are available on request (up to a max. diameter of 3000 mm)

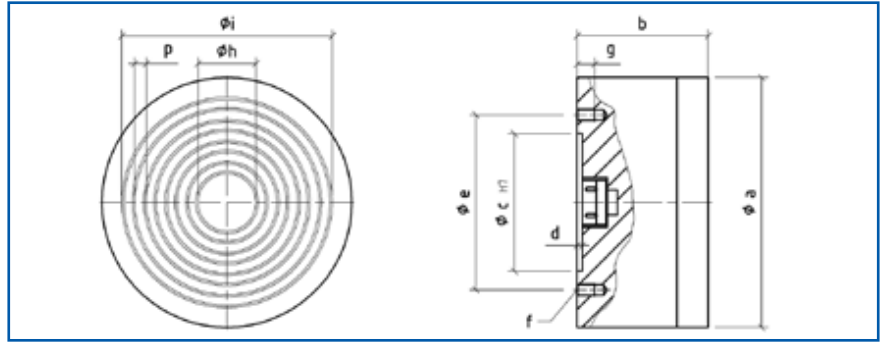
Series 125



Type	p Pole space [mm]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f Thread	g [mm]	Output [Watt]	Weight [kg]
125-30	11-14-18	300	95	160	3	190	4xM12	16	80	47
125-40	11-14-18	400	95	210	4	250	6xM12	16	130	84
125-50	11-14-18	500	95	280	4	320	6xM12	16	190	131
125-60	11-14-18	600	100	350	4	390	6xM16	18	265	198
125-70	11-14-18	700	100	400	4	450	6xM16	18	350	269
125-80	14-18-25	800	100	450	4	500	6xM16	18	440	352
125-90	14-18-25	900	100	500	4	560	6xM16	18	545	445
125-100	14-18-25	1000	100	550	4	620	6xM16	18	660	550
125-110	14-18-25	1100	100	Rear side by agreement				22	780	665
125-120	14-18-25	1200	100	Rear side by agreement				22	920	791
125-140	14-18-25	1400	100	Rear side by agreement				22	1230	1077
125-160	14-18-25	1600	125	Rear side by agreement				22	1580	1758

Other dimensions and pole space are available on request.

Series 123



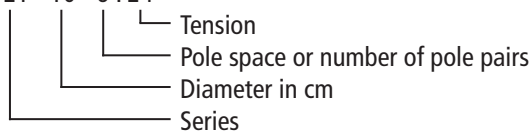
Type	p Pole space [mm]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f Thread	g [mm]	h unmagnetised Zone [mm]	i [mm]	Output [Watt]	Weight [kg]
123-10	4,5	100	85	60	3	80	3xM8	8	28	76	16	4
123-12	4,5	120	80	70	3	90	3xM8	9	25	97	22	6
123-15	4,5	150	80	90	3	120	3xM10	9	30	120	30	9
123-20	4,5	200	90	110	3	140	4xM10	12	40	174	48	18
123-30	4,5	300	90	160	3	190	4xM12	12	55	268	90	42
123-40	11	400	90	210	4	250	6xM12	15	63	363	150	92
123-50	11	500	90	280	4	320	6xM12	16	93	465	190	144
123-60	11	600	100	350	4	390	6xM16	18	59	563	264	208
123-70	11	700	100	400	4	450	6xM16	18	93	663	350	283
123-80	16	800	100	450	4	500	6xM16	18	120	760	440	369
123-90	16	900	100	500	4	560	8xM16	18	120	854	545	467
123-100	16	1000	100	550	4	650	8xM16	18	120	952	660	577
123-110	16	1100	125	Rear side by agreement				22	134	1048	820	989
123-120	16	1200	125	Rear side by agreement				22	134	1148	960	989
123-130	16	1300	125	Rear side by agreement				22	102	1248	1030	1160
123-140	16	1400	125	Rear side by agreement				22	134	1348	1100	1346
123-150	16	1500	125	Rear side by agreement				22	102	1448	1440	1545
123-160	16	1600	125	Rear side by agreement				22	134	1548	1630	1760

Other pole space and dimensions are (up to a max. diameter 3000 mm) available on request.

Example order:

Please determine our exact type designation in accordance with the following scheme:

121 - 10 - 6 : 24



Default values:

Tension 24 V DC or 110 V DC
Relative duty cycle 100 %
(other values on request)

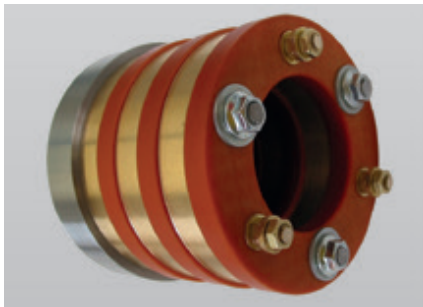
Electrical connection via:

Electronic type 754, 755 and 756 pole-reversal control units.

These devices, designed especially for controlling clamping magnets, function to facilitate the power supply and simultaneously as demagnetisation devices. A microprocessor controls and monitors all functions and offers optimal switching comfort with numerous control and monitoring functions. The adhesive

force is adjustable in up to 16 stages. In addition, these pole-reversal control units also allow additional configuration of parameters and optimised settings. All device types offer particularly impressive shifting dynamics.

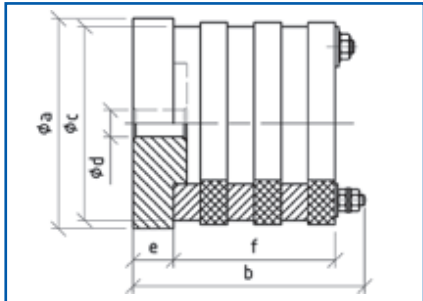
For individual details, please see brochures 754, 755 and 756



Type 763 Separate slip-rings

Slip-rings are used in combination with carbon brush holders to convey power for rotating electro and electro permanent magnet clamping chucks.

The type 763 slip-ring is used for separate installation onto the machine hollow spindle. Included in delivery is a slip-ring with a 10 mm bore hole. This location borehole can be subsequently adapted in accordance with the machine spindle, and taking into consideration the maximum dimensions (d). It is important to ensure non-touchable and water-protected covering is used to cover all live parts. The protective earth should be carried along.

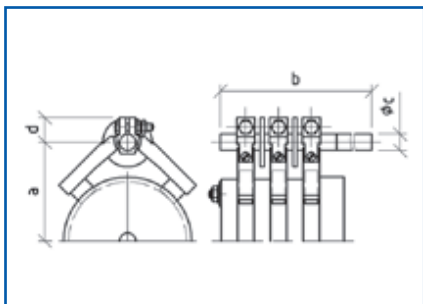


Type	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	Weight ca. [kg]	up to a max. [A]	Applicable carbon brush holder
763-2-3 S-1	78	86	72	10-40	15	60	1,3	20	773-2-3
763-3-3 S-1	103	86	95	10-50	15	60	3,0	32	773-3-3
763-4-3 S-1	123	96	115	10-70	20	60	4,0	64	773-4-3
763-4-5 S-1	123	136	115	10-70	20	100	5,0	64	773-4-5
763-4-7 S-1	123	176	115	10-70	20	140	6,0	64	773-4-7

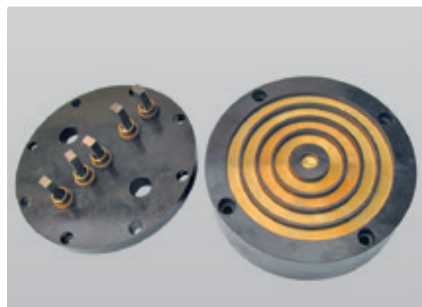
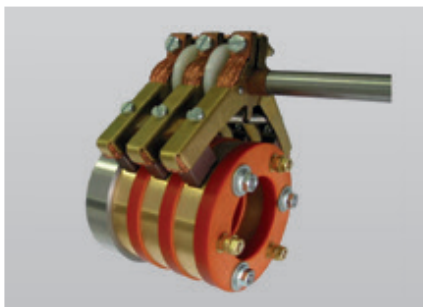


Type 773 Double carbon brush holder

The carbon brush holders shown are used to transmit power to the slip-ring. They are supplied in three sizes, including mounting bolts.



Type	a [mm]	b [mm]	c [mm]	d [mm]	up to a max. [A]	Number of contacts	Weight ca. [kg]
773-2-3	60	141	10	17	20	3	0,3
773-3-3	78	162	12	23	32	3	0,4
773-4-3	94	162	12	26	64	3	0,5
773-4-5	94	213	12	26	64	5	0,8
773-4-7	94	254	12	26	64	7	1,1



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