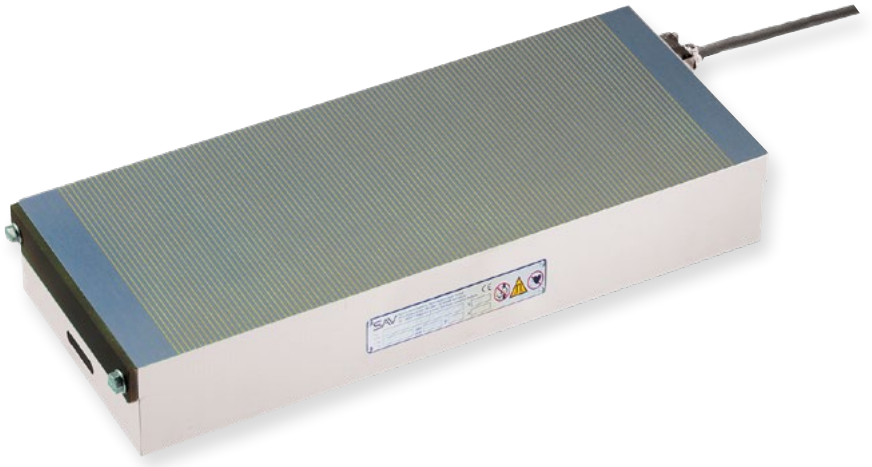
SAV 243.73

ELECTRO PERMANENT MAGNETIC CHUCKS

With continuous fine transverse pole pitch P = 4 mm

Precision grinding magnet with very narrow pole pitch. The magnetic force is generated by the permanent magnets which are magnetised and demagnetised with short current pulses.



DESIGN

- Pole plate with particularly narrow, continuous transverse pole pitch, 3 mm steel and 1 mm brass.
- Pole divisions bonded and additionally bolted together solidly with tie rods lengthwise
- High accuracy thanks to pole plates bolted in a narrow grid
- Switch-off using demagnetising cycle
- 8 mm wear layer on the pole plate
- Low magnetic field height of 4 mm
- Electro-permanent magnetic system for absolute safety in case of power failure
- Chucking slots on both face sides
- Reinforced systems for high wear possible on request
- Length over 1000 mm with through holes for fastening upon agreement
- Robust and water-tight
- Protection rating IP 65

RATED HOLDING FORCE

100 N/cm^2,
Controllable with control unit

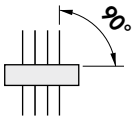
RATED VOLTAGE, RECOMMENDED

210 V IMP up to size A x B = 600 x 300
360 V IMP above size A x B = 600 x 300

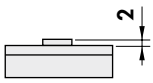
APPLICATION

For chucking thin, flat workpieces with high precision.

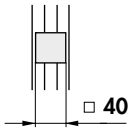
- For main workpiece axis perpendicular to the pole pitch



- For thin workpieces up to:
  min. thickness = 2 mm

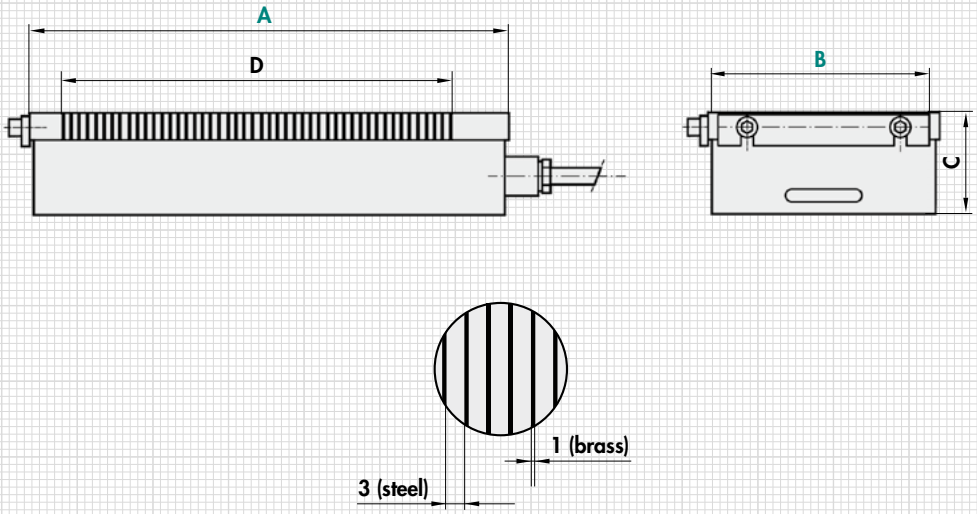


- For flat workpieces:
  min. length = 40 mm



SCOPE OF DELIVERY

- Stop bar on one short and one long side
- 3 m connecting cable on right short side, rear
- On request with water-tight heavy-duty power connector
- Larger magnetic chucks are provided with lifting lugs for transport
- Control and hand remote unitn not in the scope of delivery
- Clamps



mm				kg	V	A
A	B	C^{0}_{-1}	D	Weight	Rated voltage	Control max. pul. Current
450	175	77	397	44.0	210/360	30
400	200	77	349	45.0	210/360	30
500	200	77	445	56.0	210/360	30
600	200	77	549	67.0	210/360	30
800	200	77	749	90.0	360	30
500	250	77	453	70.0	210/360	30
600	250	77	549	84.0	210/360	30
800	250	77	749	112.0	360	30
500	300	77	453	90.0	210/360	30
600	300	77	549	108.0	210/360	30
800	300	77	749	145.0	360	30
1000	300	77	949	180.0	360	30

mm				kg	V	A
A	B	C^{0}_{-1}	D	Weight	Rated voltage	Control max. pul. Current
600	350	77	549	126.0	360	30
800	350	77	749	168.0	360	30
1000	350	77	949	210.0	360	60
600	400	77	549	145.0	360	30
700	400	77	645	169.0	360	30
800	400	77	749	193.0	360	30
1000	400	77	949	240.0	360	60
1200	400	87	1149	289.0	360	60
800	500	77	749	241.0	360	60
1000	500	77	949	300.0	360	60
1200	500	87	1149	361.0	360	60

Other sizes and rated voltages on request. Larger chucking areas can be implemented by joining several blocks without gaps. Allocation to the correct control unit is based on the max. power consumption/magnet voltage.

ORDERING EXAMPLE

Designation	SAV no. - A x B - rated voltage
Electro permanent magnetic chuck	SAV 243.73 - 1200 x 500 - 360 V