

## LHS241.32 - Electro Magnetic Holding Beam

With high holding force

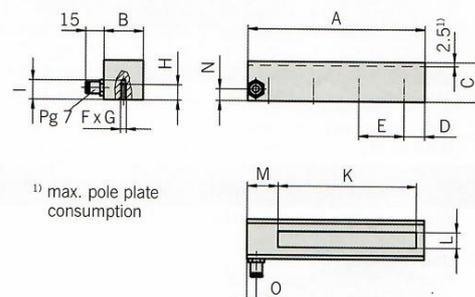
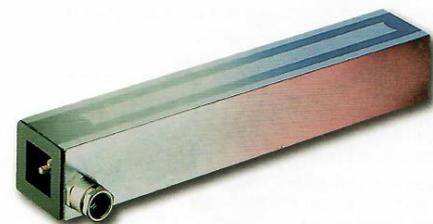
### Application:

The apparatus type C is suitable for holding parts with straight surfaces, while D can be used for parts with rough or scaled surface. To reach the nominal holding force, the steel poles of the holding surface must be completely covered by the workpiece.

### Design:

The electro magnetic holding beams are direct current holding systems. The magnetic circuit is open in switched on position and makes it possible to hold ferrous magnetic workpieces. For mounting the magnets are provided with threaded holes in the bottom of the housing. Electrical connection through 2 connection bolts, which are fitted in the housing of the magnet and have easy access. Further a stud is available for mounting of a steel wire as stress release. These studs can be screwed on the side or bottom. When working with electromagnetic holding beams, one should follow the appropriate rules for the prevention of accidents.

Nominal Voltage:	24 VDC
Duty:	100% ED
Protection:	Housing IP 53 according DIN 40 050 Connection IP 00
Isolation class:	E



### Notes to technical data:

The nominal power values in the table are intended to determine the correct electronic accessories and are based on 20°C winding temperature at nominal voltage (VDE 0580/10.70 § 9.1). During operation the power decreases, depending on the duty. The pole pitch as well as their influence on the operation is described in the technical notes. The maximum holding forces FH are given for St 37 and are based on a plate thickness of >8mm for Type C and >10mm for Type D. The forces are for an airgap dL = 0 and 100% coverage of clamping surface, 90% nominal voltage and warmed condition (approx. 50 K over-temperature without additional heat transfer).

If the application is based on other conditions, the holding force is reduced. Due to safety reasons and depending on the application a safety factor is to be taken into account.

Type and Size	Dimensions in mm															Pole pitch	Nominal force in N	Nominal power in W	Weight in kg
	A	B	C	D	E	F	G	H	I	K	L	M	N	O					
C 01	101.5	32	31	20	50	2	M 6	10	13.5	68.0	10	23.5	12	8.5	16	880	7.0	0.65	
C 02	151.5	32	31	20	50	3	M 6	10	13.5	118.0	10	23.5	12	8.5	16	1500	10.5	0.88	
C 03	201.5	32	31	20	50	4	M 6	10	13.5	168.0	10	23.5	12	8.5	16	2100	14.0	1.22	
C 04	401.5	32	31	20	50	8	M 6	10	13.5	368.0	10	23.5	12	8.5	16	4700	25.0	2.48	
C 05	501.5	32	31	20	50	10	M 6	10	13.5	468.0	10	23.5	12	8.5	16	6000	35.0	3.15	
C 06	601.5	32	31	20	50	12	M 6	10	13.5	568.0	10	23.5	12	8.5	16	7200	42.0	3.75	
D 07	151.5	60	49	30	75	2	M 8	12	15.0	93.5	12	36.5	18	10	30	2600	22.0	2.35	
D 08	201.5	60	49	35	120	2	M 8	12	15.0	143.5	12	36.5	18	10	30	3750	31.0	3.20	
D 09	501.5	60	49	35	140	4	M 8	12	15.0	443.5	12	36.5	18	10	30	10400	70.0	9.20	