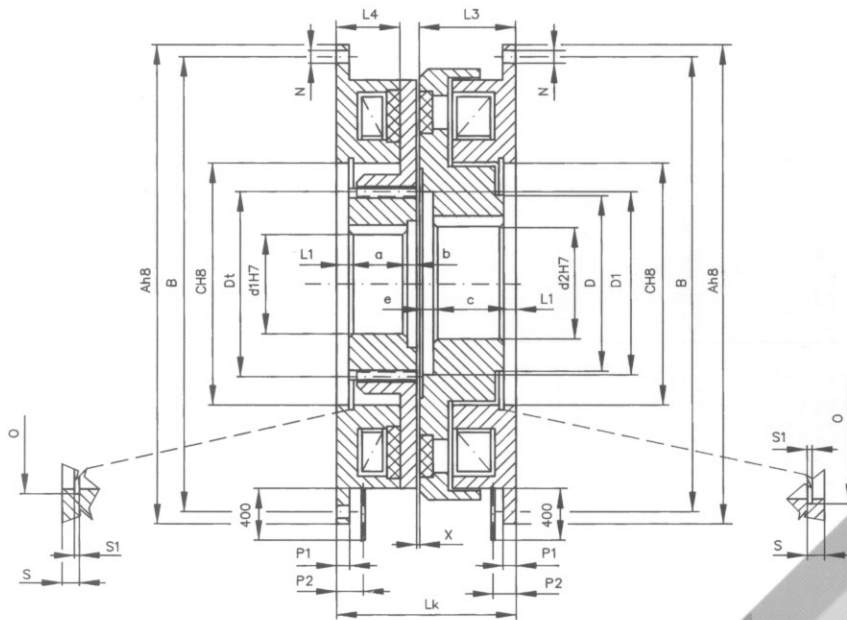




POHONY • DRIVES • ANTRIEBE



## COMBINATION OF DISC CLUTCH EKS AND DISC BRAKE EKP EKK

COMBINATION IS INTENDED FOR MOUNTING INTO DRIVING UNITS OF EQUIPMENTS WHERE SHORTE-  
NING OF CYCLES AND RISING OF EFFICIENCY IS ACHIEVED BY RISING OF WORKING AND OPERATING  
SPEED. IT IS APPLIED LARGELY IN PACKING MACHINES, TEXTILE AND FOOD EQUIPMENTS, SINGLE-  
PURPOSE MACHINES AND SO ON. IT WORKS ONLY IN SURROUNDINGS WITHOUT LUBRICATION.

## MAIN TECHNICAL DATA AND DIMENSIONS (MM)

Size		4	6.3	10	16	25
Nominal torque Mn	Nm	40	63	100	160	250
Input	Clutch	27.9	39.1	46	56.9	63
P20	Brake	21	24.7	33.4	35	43
Diameters	A	144	158	182	210	235
	B	132	145	166	195	218
	C	55	62	75	90	100
	D	38	44	56	66	70
	D1	40	45	51	58	66
	Dt	40	48	60	72	80
	d1max	24	30	38	45	50
	d2max	28	35	42	48	55
	N	4x6.5	4x6.5	4x8.5	4x8.5	4x8.5
	O	58	65	78	93.5	103.5
Lengths	a	21	22	26	30	37
	b	4	4	4	5	5
	c	23.5	27.5			
	e	4.5	4.5			
	L1	3	4	4	4	
	L3	31	36	40	44	48
	L4	22	24	26	30	36
	Lk	60.3	67.3	74.3	83.8	94.5
	P1	3	4	4	5	5
	P2	7	8	8	9	10
	S	5.15	6.15	6.65	6.65	7.15
	S1	2.15	2.15	2.65	2.65	3.15
	X	0.3	0.3	0.3	0.3	0.4
Moment of inertia						
- Jacket	kgm <sup>2</sup>	1.84.10 <sup>-3</sup>	3.57.10 <sup>-3</sup>	7.2.10 <sup>-3</sup>	15.2.10 <sup>-3</sup>	28.60.10 <sup>-3</sup>
- Carrier. Armature		1.15.10 <sup>-3</sup>	1.78.10 <sup>-3</sup>	3.31.10 <sup>-3</sup>	8.14.10 <sup>-3</sup>	13.66.10 <sup>-3</sup>
Max. revolution	min <sup>-1</sup>	3000	3000	2600	2200	1800
Gearing ČSN 014950						
m.z.(x.m)	-	2x20x (0)	2x24x (0)	2x30x (0)	2x36x(+0.5)	2x40x (0)
Weight	kg	3.9				

EKK combination consists of driving and driven parts and fixed magnetic bodies of clutch EKS and brake EKP. Driving part is formed by jacket and fixed magnetic body. Driven part is formed by armature, non-magnetic carrier and fixed magnetic body of brake EKP. Armature can axially slide in guide-gearing of carrier and performs functions for both clutch and brake. Establishment of magnetic bodies in combination EKK is similar to clutch EKS and brake EKP. There are hollows in carrier and in clutch jacket into which are put washers. Washers are fixed by screws on driving and driven shafts to prevent axial shift. In EKK combination there is no neutral position. By residual flux of brake magnetic circuit the armature plate is in cut-off position held by brake magnetic body. Torque is brought from driving unit to loosened clutch jacket. After actuation voltage is brought to the clutch magnetic body, magnetic circuit is formed in clutch with flux and thus the armature is attracted, by help of guide-gearing of carrier, to the rotating clutch jacket and is held by force of electric magnet. Torque is transmitted from driving part to driven part by friction between armature and clutch jacket. At the same time with disconnection of clutch the brake magnetic circuit is switched on. Armature plate is via guide-gearing of carrier attracted from clutch jacket to the face of brake magnetic body. By friction between armature and brake magnetic body braking moment develops and brakes to stop driven part. From the operating point combination EKK has two positions - starting and braking of driven side.

### ORDERING DATA - TYPE AND SIZE

- number of pieces
- bore and groove in clutch jacket
- bore and groove in carrier
- voltage
- climatic conditions



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Quality system certified  
 according to DIN ISO 9001