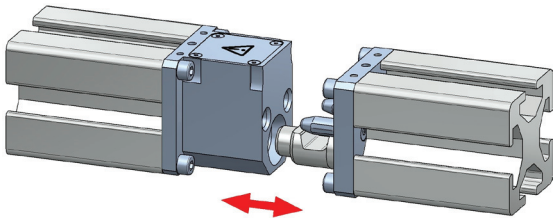
Sectional Rail Couplings
PKH-P



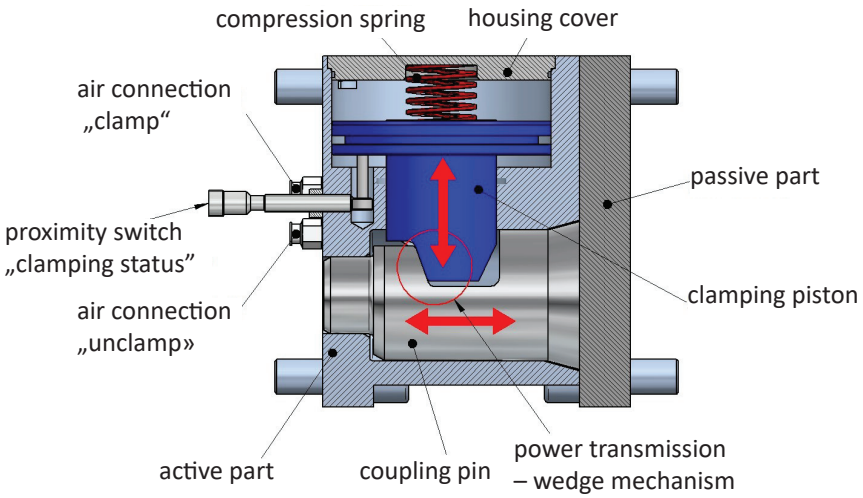
Application area

- Connection of sectional rails of different forms and sizes (e. g. transfer rails in press transfers)
- Connection of fixtures (e. g. grippers) on handling devices and robots

Description

The coupling consists of a passive and an active part made of tempered steel. In the active part the clamping force is generated by means of a wedge mechanism consisting of a vertically moving clamping piston in conjunction with the coupling pin of the passive part.

By means of an integrated compression spring a minimum clamping force is ensured even in case of a pressure drop. This design enables high clamping forces and high dynamic rigidity with low mass and very short clamping times. A horizontal coupling path "K" (see top-right graphic) is necessary for the rail change.



Advantages

- easy operation
- clamping procedure may be monitored by initiator
- pneumatic control
- holding force is maintained by means of an integrated spring even in case of pressure loss
- short clamping times

Accessories

- optional equipment: proximity switch for monitoring the clamping procedure
- fixing bolts

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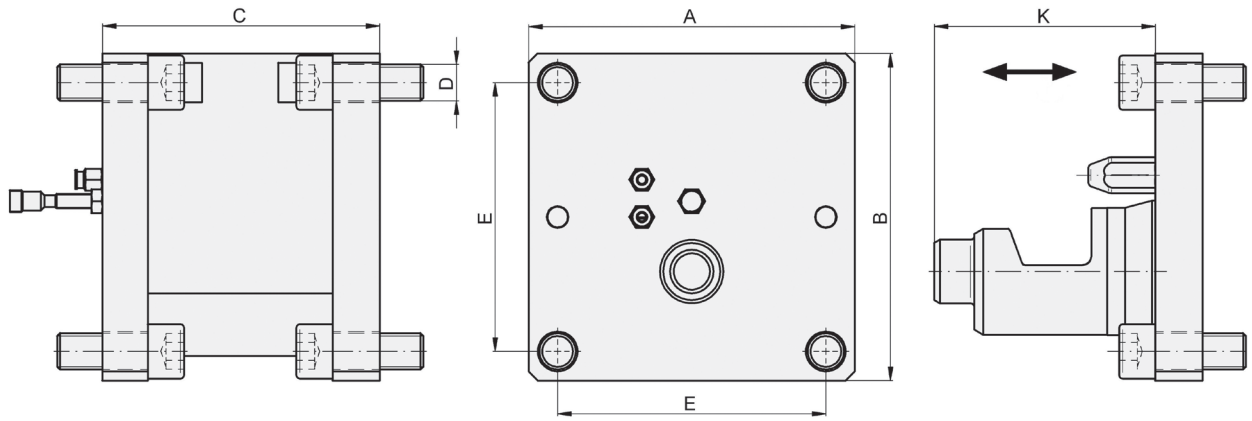

Example order

PKH-P - 140 x 140 - active part

Type PKH-P - automatic clamping (pneumatic)
Size 140x140 - sectional profile
Active part / passive part

designation	*operating forces FB [kN]	FBmin [kN]	FQ [kN]	**bending moment [Nm]	weight [kg]	couple distance K	compen-sation horiz.	dimensions [mm] width A	height B	length C	bore pattern D	E
PKH-P 80x80	12,5(19)	3	25	1000	2,9	53	3	80	80	80	4x M8	66
PKH-P 100x100	18(26)	4	35	2000	5,0	64	4	100	100	93	4xM10	82
PKH-P 120x120	30(45)	6,5	60	3000	8,7	82	4,5	120	120	115	4x M12	100
PKH-P 140x140	40(60)	10	70	6500	12,7	88	5	140	140	128	4x M14	115
PKH-P 160x160	50(75)	11,5	100	7500	18,6	109	5	160	160	140	4x M16	132
PKH-P 180x180	60(90)	14	150	13000	26,5	108	6	180	180	156	4x M20	148
PKH-P 200x200	80(115)	18,5	150	15000	34,7	126	7	200	200	173	4x M20	168

FB - tolerable axial operating force at nominal pressure PN = 6 bar (10 bar)
FB_{min} - minimal operating force at no pressure P = 0 bar
FQ - tolerable vertical operating force (pressure-independent)

**tolerable operating values M x / y / z at nominal pressure PN = 6 bar

materials: tempered steel - nitrated

Note: version with customer-specific energy coupling for supplying the changing rail with power, air booster (does not belong to the scale of delivery) for 10 bar operating pressure or different sectional profiles (A x B) on demand