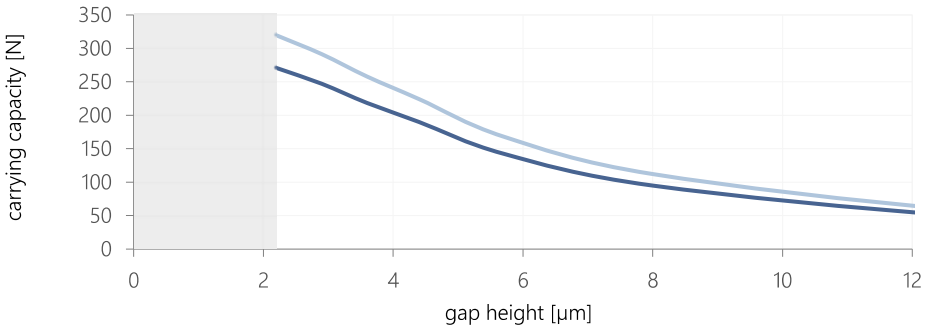
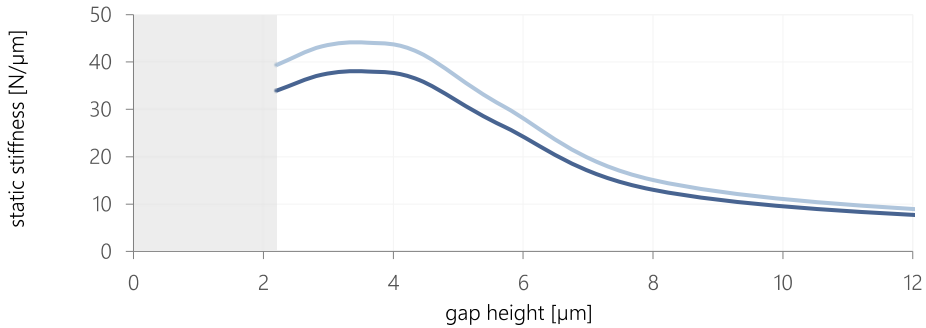
EZ-0075 Rectangular Air Bearings

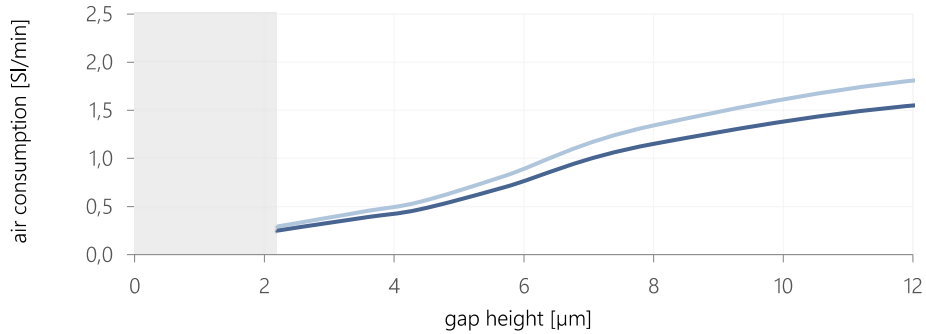
EITZENBERGER
KINEMATIK MIT LUFT

Designation	Diameter	Nominal load capacity	Static stiffness	Air consumption	Ident No.	Center screw
EZ-0075-20x40	20 x 40 mm	195 N	37 N/µm	0.4 Sl/min	0003306	EZ-0249 M10x1-R5
EZ-0075-30x60	30 x 60 mm	440 N	70 N/µm	0.6 Sl/min	0004483	EZ-0249 M12x1-R7
EZ-0075-40x60	40 x 60 mm	630 N	125 N/µm	0.7 Sl/min	0032956	EZ-0249 M12x1-R7
EZ-0075-40x80	40 x 80 mm	910 N	150 N/µm	1.4 Sl/min	0004843	EZ-0249 M12x1-R7
EZ-0075-50x100	50 x 100 mm	1400 N	215 N/µm	1.2 Sl/min	0004847	EZ-0249 M16x1-R10
EZ-0075-75x150	75 x 150 mm	3150 N	550 N/µm	1.4 Sl/min	0005439	EZ-0249 M24x1-R14

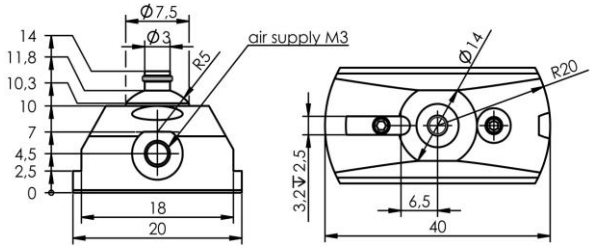
Rectangular Bearing EZ-0075-20x40







mixed friction range 5 bar 6 bar



Thermodynamically optimized air cushion due to micro groove system.[1] Bearing surface with dry running coating.

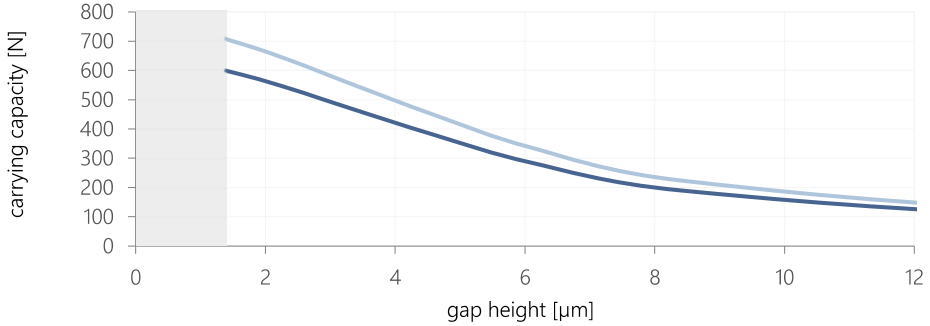
Air supply pressure [2]	bar_{rel}	5	6
Maximum carrying capacity	N	270	315
Nominal carrying capacity	N	195	235
Gap height [3]	µm	4.1	4.1
Static stiffness [3]	N/µm	37.0	43.0
Air consumption [3]	Sl/min	0.44	0.52
Maximum velocity [3]	m/s	5	6
Weight	g	17	17
Air supply thread		M3	
Adapted with pressure screw		EZ-0249 M10x1-R5	

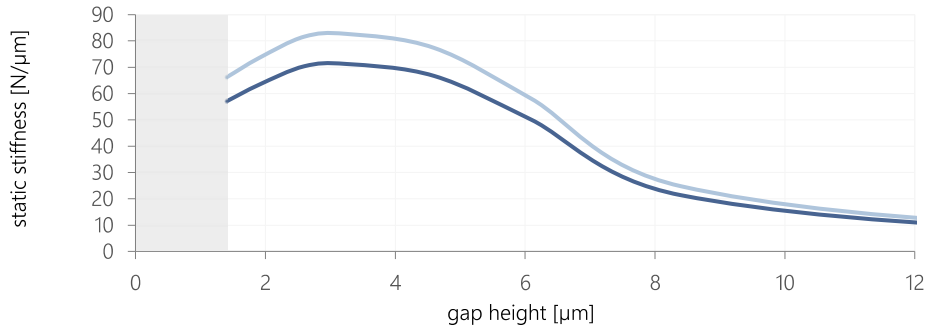
[1] Patents: US 6,164,827, DE 199 18 564 A1
[2] deviating supply pressures on request
[3] at nominal carrying capacity

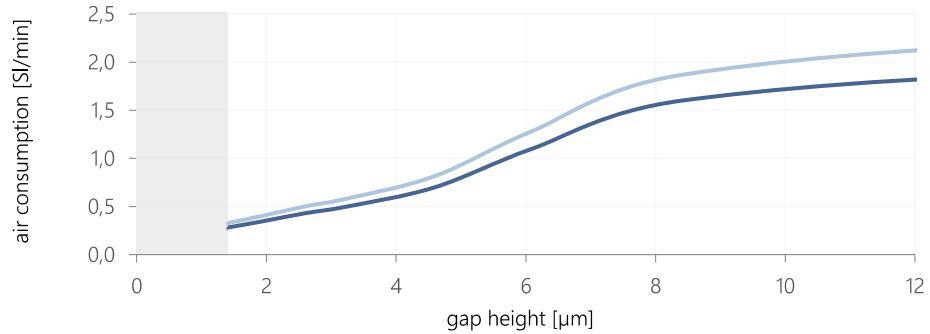
Visit our website for information on bearing design and function, counterface and air quality requirements, and the definition of gap height.

Subject to technical modifications and typographical errrors.

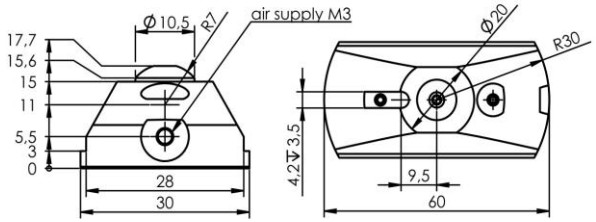
Rectangular Bearing EZ-0075-30x60







mixed friction range 5 bar 6 bar



Thermodynamically optimized air cushion due to micro groove system.[1] Bearing surface with dry running coating.

Air supply pressure [2]	bar_{rel}	5	6
Maximum carrying capacity	N	590	700
Nominal carrying capacity	N	440	520
Gap height [3]	µm	3.7	3.7
Static stiffness [3]	N/µm	70	81
Air consumption [3]	Sl/min	0.57	0.67
Maximum velocity [3]	m/s	5	6
Weight	g	50	50
Air supply thread		M3	
Adapted with pressure screw		EZ-0249 M12x1-R7	

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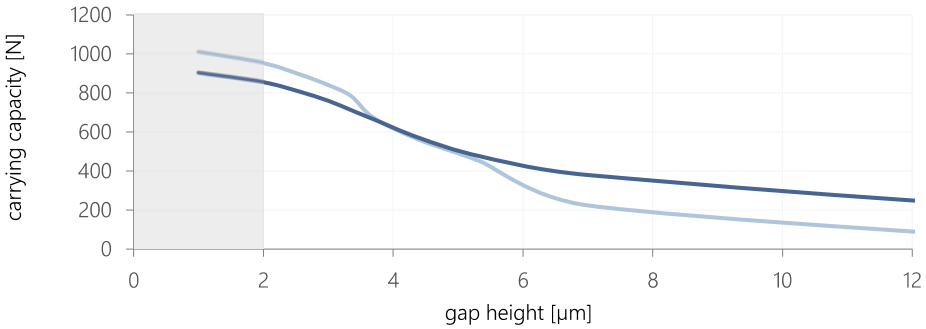
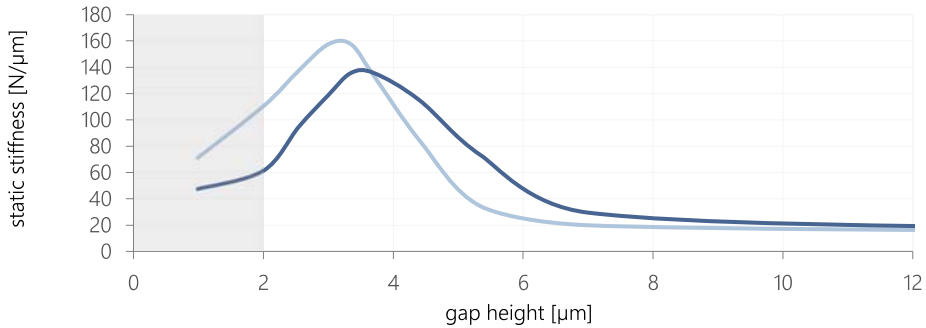
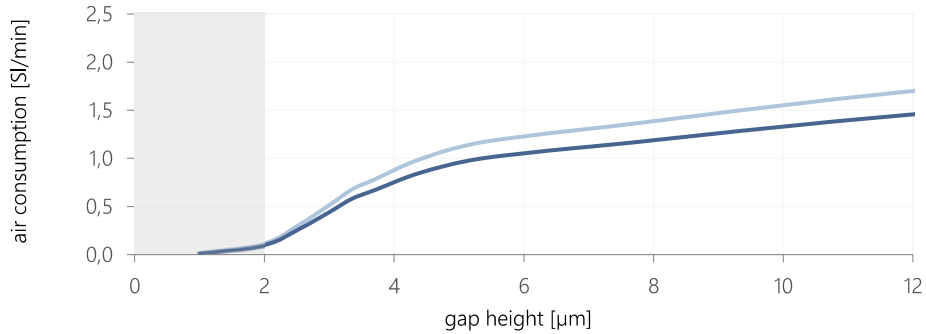
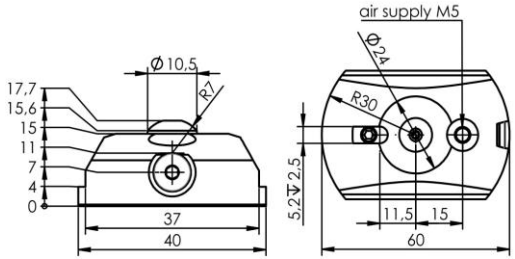
Rectangular Bearing EZ-0075-40x60







mixed friction range 5 bar 6 bar



Thermodynamically optimized air cushion due to micro groove system.[1] Bearing surface with dry running coating.

Air supply pressure [2]	bar_{rel}	5	6
Maximum carrying capacity	N	850	1000
Nominal carrying capacity	N	630	740
Gap height [3]	µm	4.0	4.0
Static stiffness [3]	N/µm	125	145
Air consumption [3]	Sl/min	0.74	0.86
Maximum velocity [3]	m/s	5	6
Weight	g	72	72
Air supply thread		M5	
Adapted with pressure screw		EZ-0249 M12x1-R7	

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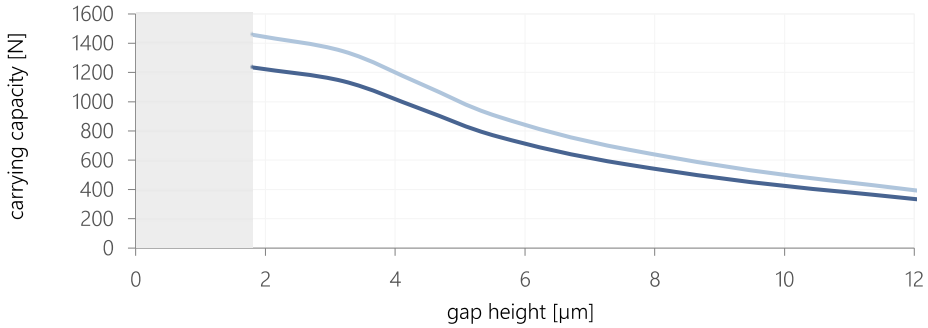
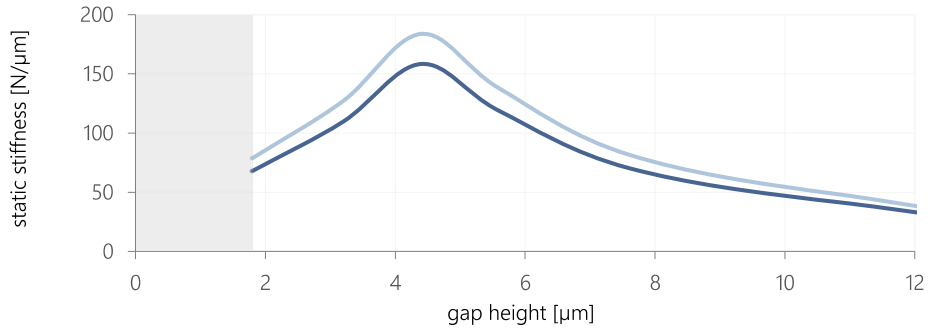
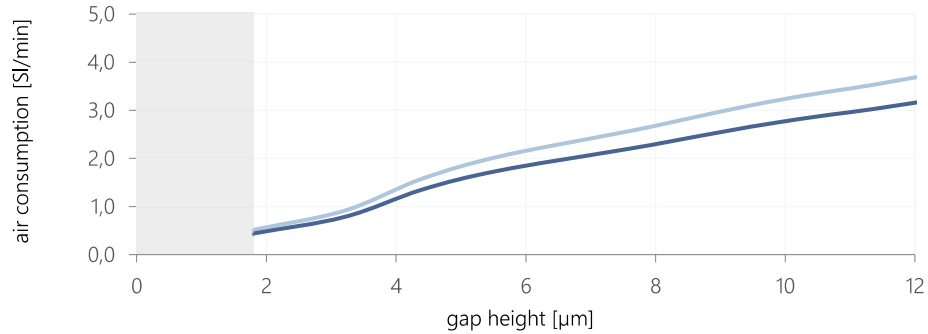
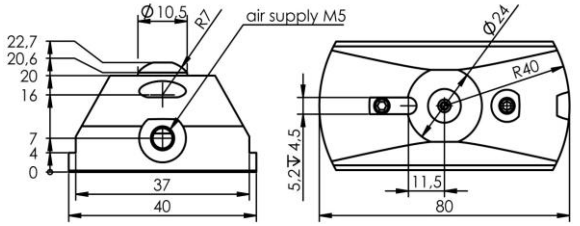
Rectangular Bearing EZ-0075-40x80







mixed friction range 5 bar 6 bar



Thermodynamically optimized air cushion due to micro groove system.[1] Bearing surface with dry running coating.

Air supply pressure [2]	bar_{rel}	5	6
Maximum carrying capacity	N	1200	1450
Nominal carrying capacity	N	910	1050
Gap height [3]	µm	4.7	4.7
Static stiffness [3]	N/µm	150	170
Air consumption [3]	Sl/min	1.43	1.67
Maximum velocity [3]	m/s	5	6
Weight	g	120	120
Air supply thread		M5	
Adapted with pressure screw		EZ-0249 M12x1-R7	

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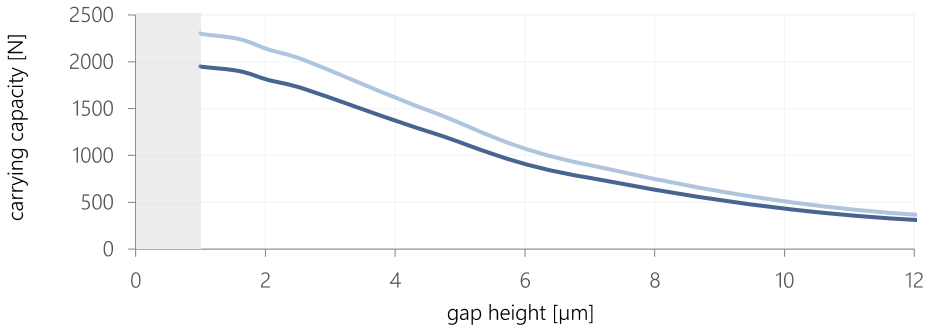
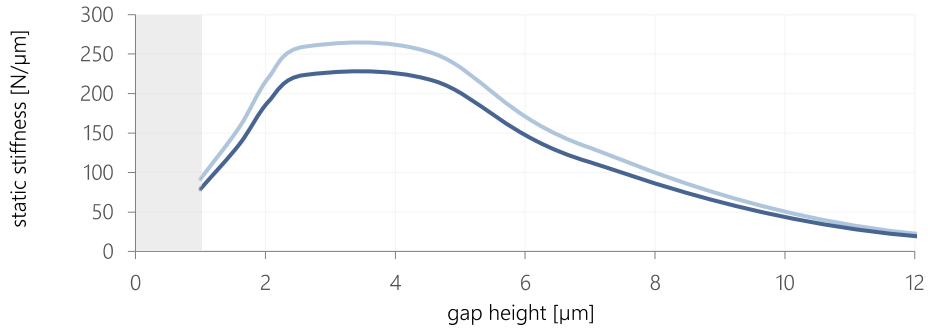
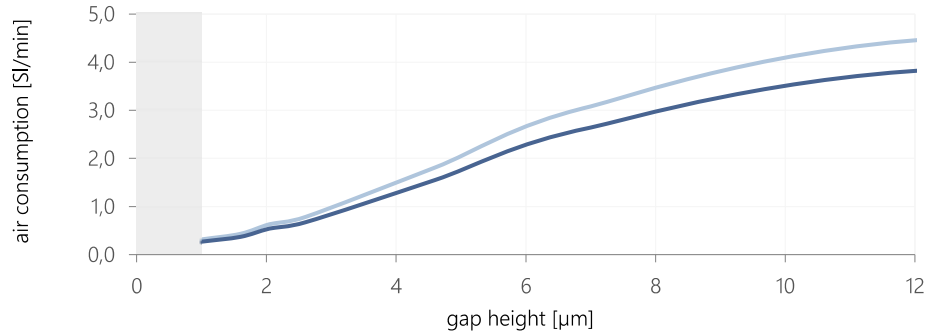
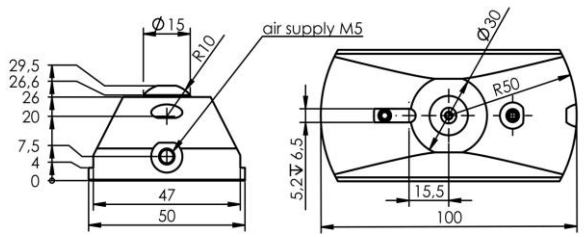
Rectangular Bearing EZ-0075-50x100







mixed friction range 5 bar 6 bar



Thermodynamically optimized air cushion due to micro groove system.[1] Bearing surface with dry running coating.

Air supply pressure [2]	bar_{rel}	5	6
Maximum carrying capacity	N	1900	2250
Nominal carrying capacity	N	1400	1650
Gap height [3]	µm	3.8	3.8
Static stiffness [3]	N/µm	215	250
Air consumption [3]	Sl/min	1.18	1.38
Maximum velocity [3]	m/s	5	6
Weight	g	235	235
Air supply thread		M5	
Adapted with pressure screw		EZ-0249 M16x1-R10	

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[3] at nominal carrying capacity

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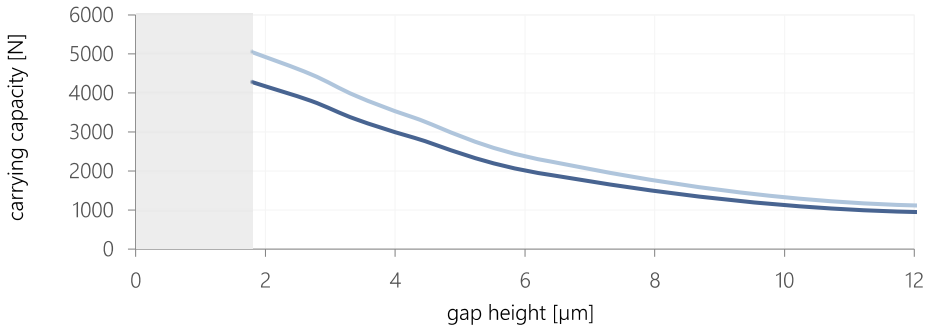
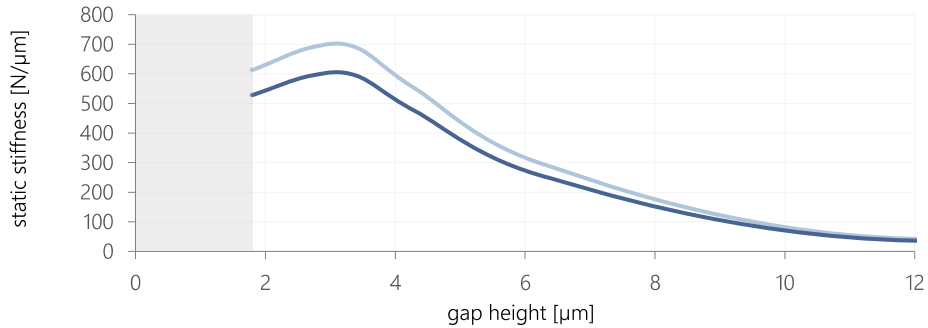
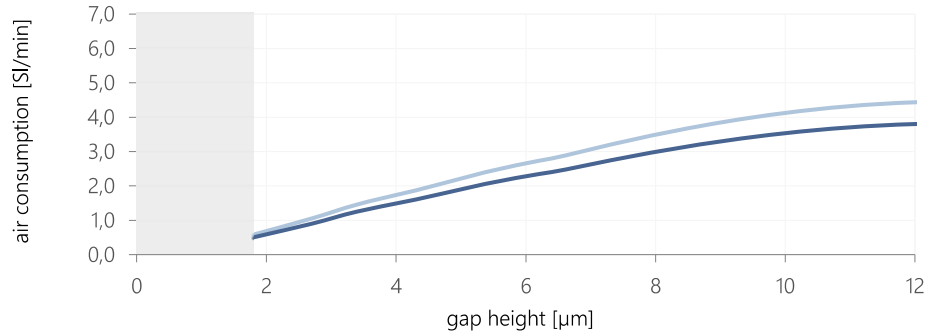
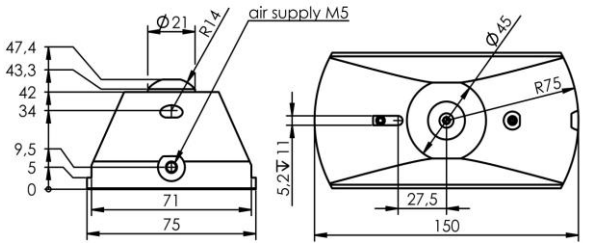
Rectangular Bearing EZ-0075-75x150







mixed friction range 5 bar 6 bar



Thermodynamically optimized air cushion due to micro groove system.[1] Bearing surface with dry running coating.

Air supply pressure [2]	bar_{rel}	5	6
Maximum carrying capacity	N	4250	5000
Nominal carrying capacity	N	3150	3700
Gap height [3]	µm	3.7	3.7
Static stiffness [3]	N/µm	550	630
Air consumption [3]	Sl/min	1.38	1.61
Maximum velocity [3]	m/s	5	6
Weight	g	786	786
Air supply thread		M5	
Adapted with pressure screw		EZ-0249	M24x1.5-R14

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