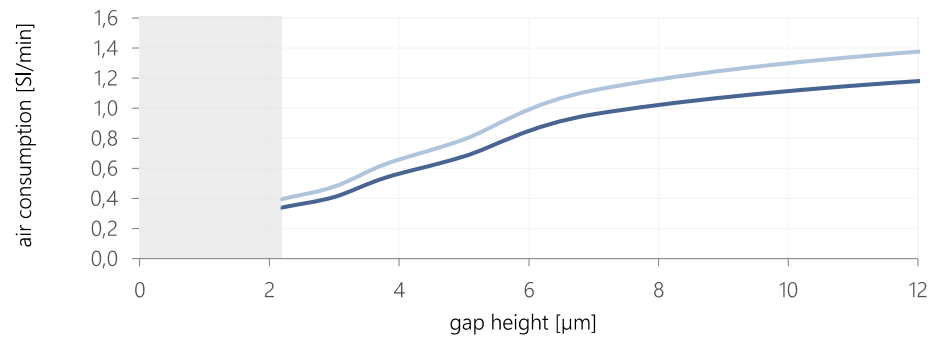
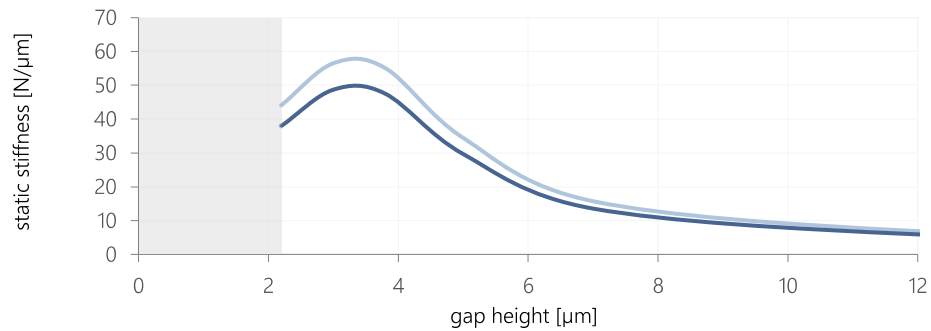
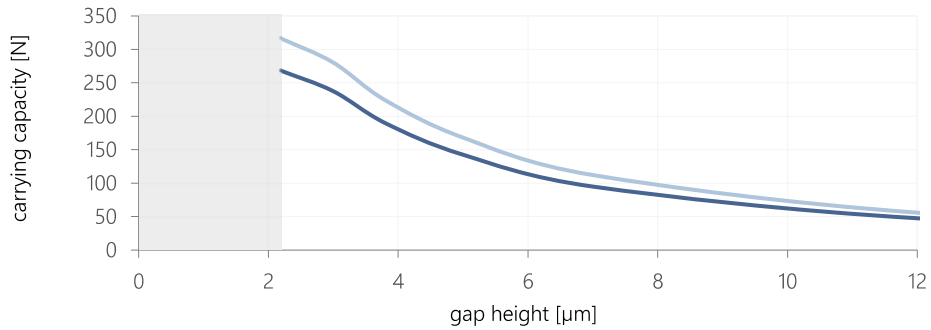
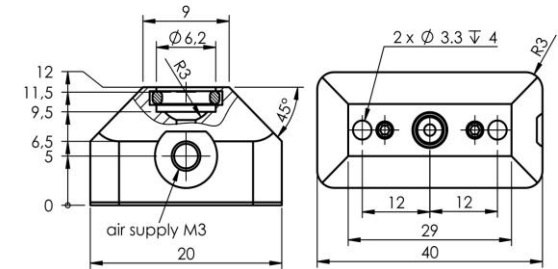


# EZ-0072 Rectangular Air Bearings

Designation	Diameter	Nominal load capacity	Static stiffness	Air consumption	Ident No.	Center screw
EZ-0072-20x40	20 x 40 mm	195 N	48 N/ $\mu$ m	0.5 Sl/min	0003484	EZ-0149/EZ-0150 M10x1-R3
EZ-0072-30x60	30 x 60 mm	455 N	92 N/ $\mu$ m	0.7 Sl/min	0003486	EZ-0149/EZ-0150 M12x1-R5
EZ-0072-40x80	40 x 80 mm	910 N	150 N/ $\mu$ m	1.4 Sl/min	0003489	EZ-0149/EZ-0150 M12x1-R5
EZ-0072-50x100	50 x 100 mm	1400 N	215 N/ $\mu$ m	1.4 Sl/min	0003494	EZ-0149/EZ-0150 M16x1-R8
EZ-0072-60x120	60 x 120 mm	2200 N	250 N/ $\mu$ m	3.1 Sl/min	0003315	EZ-0149/EZ-0150 M24x1.5-R11
EZ-0072-75x150	75 x 150 mm	3200 N	520 N/ $\mu$ m	1.5 Sl/min	0008673	EZ-0149/EZ-0150 M24x1.5-R11



mixed friction range  5 bar — 6 bar —



Thermodynamically optimized air cushion due to micro groove system.<sup>1)</sup> Bearing surface with dry running coating.

Air supply pressure <sup>2)</sup>	bar <sub>rel</sub>	5	6
Maximum carrying capacity	N	265	315
Nominal carrying capacity	N	195	230
Gap height <sup>3)</sup>	μm	3.7	3.7
Static stiffness <sup>3)</sup>	N/μm	48.0	55
Air consumption <sup>3)</sup>	l/min	0.52	0.61
Maximum velocity <sup>3)</sup>	m/s	5	6
Weight	g	22	22

Air supply thread	M3
Adapted with pressure screw	EZ-0149/EZ-0150 M10x1-R3

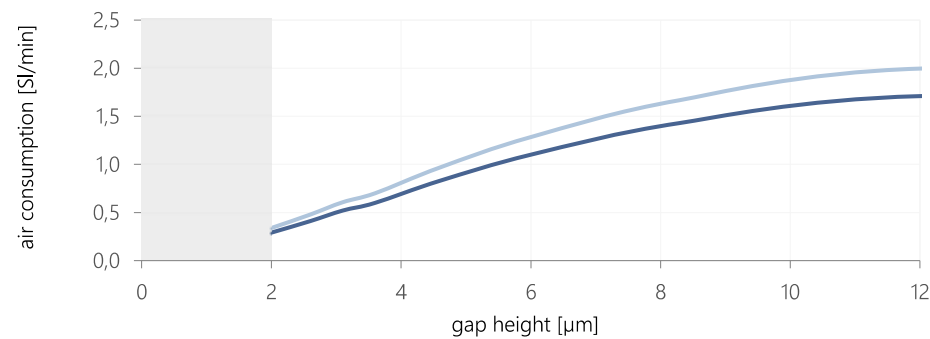
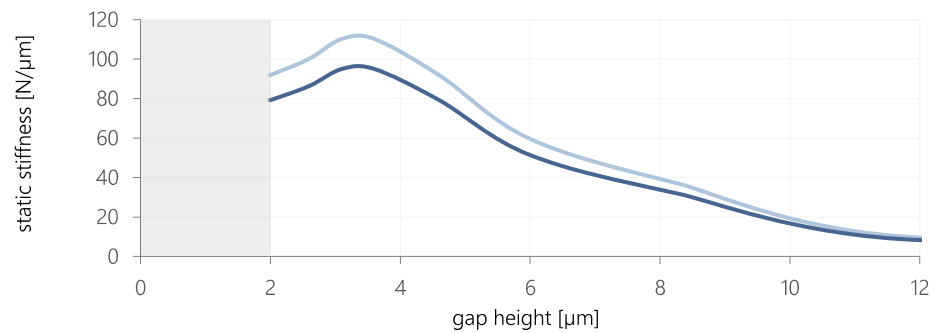
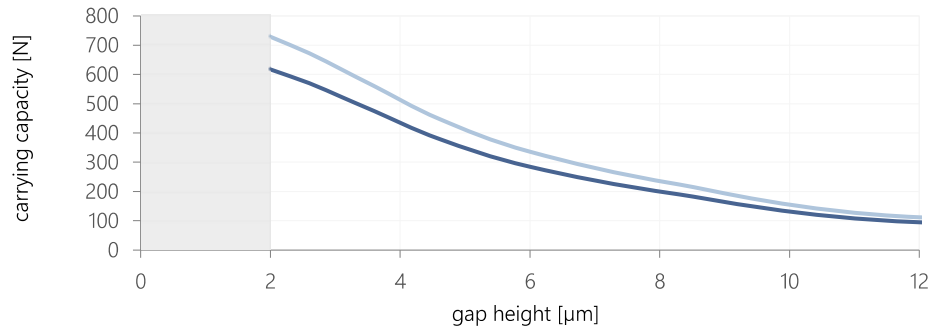
<sup>1)</sup> Patents: US 6,164,827, DE 199 18 564 A1

<sup>2)</sup> deviating supply pressures on request

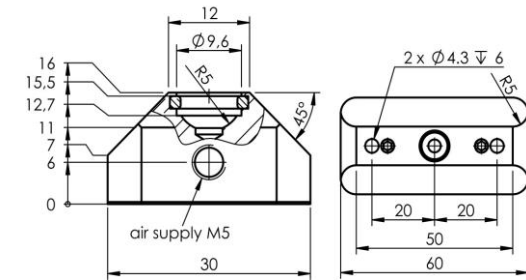
<sup>3)</sup> at nominal carrying capacity

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 errors.



mixed friction range  5 bar — 6 bar —



Thermodynamically optimized air cushion due to micro groove system.<sup>1)</sup> Bearing surface with dry running coating.

Air supply pressure <sup>2)</sup>	bar <sub>rel</sub>	5	6
Maximum carrying capacity	N	610	720
Nominal carrying capacity	N	455	530
Gap height <sup>3)</sup>	μm	3.8	3.8
Static stiffness <sup>3)</sup>	N/μm	92	105
Air consumption <sup>3)</sup>	l/min	0.65	0.76
Maximum velocity <sup>3)</sup>	m/s	5	6
Weight	g	60	60

Air supply thread M5  
Adapted with pressure screw EZ-0149/EZ-0150 M12x1-R5

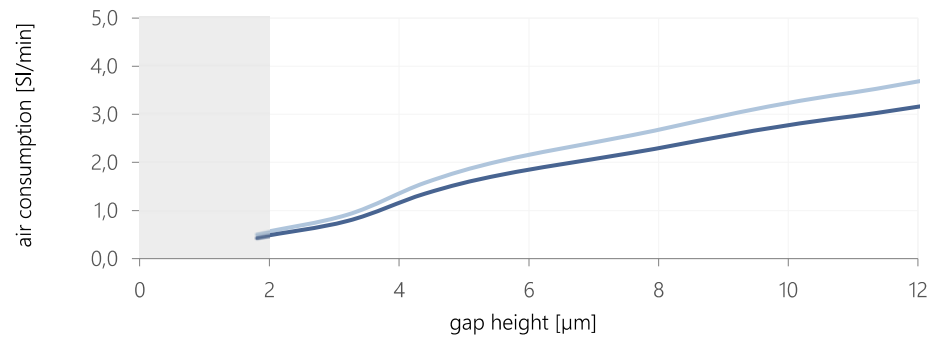
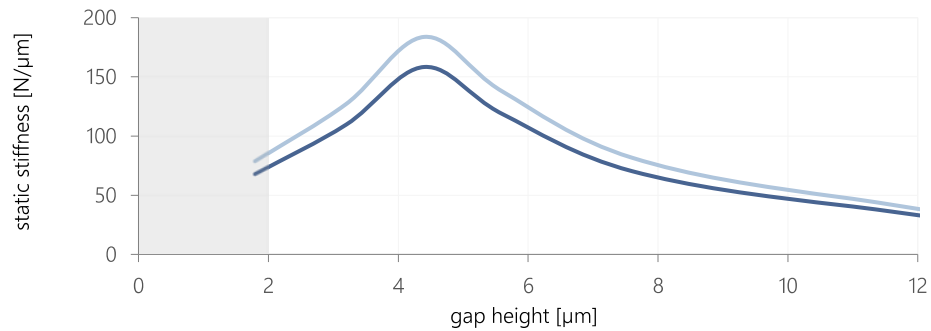
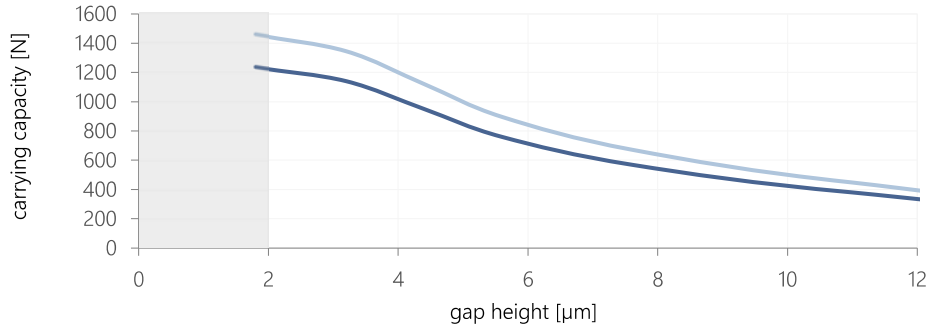
<sup>1)</sup> Patents: US 6,164,827, DE 199 18 564 A1

<sup>2)</sup> deviating supply pressures on request

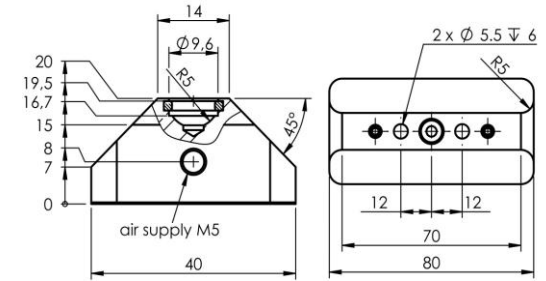
<sup>3)</sup> at nominal carrying capacity

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Subject to technical modifications and typographical errors.



mixed friction range  5 bar — 6 bar —



Thermodynamically optimized air cushion due to micro groove system.<sup>1)</sup> Bearing surface with dry running coating.

Air supply pressure <sup>2)</sup>	bar <sub>rel</sub>	5	6
Maximum carrying capacity	N	1200	1450
Nominal carrying capacity	N	910	1050
Gap height <sup>3)</sup>	μm	4.7	4.7
Static stiffness <sup>3)</sup>	N/μm	150	170
Air consumption <sup>3)</sup>	l/min	1.43	1.67
Maximum velocity <sup>3)</sup>	m/s	5	6
Weight	g	130	130

Air supply thread M5  
Adapted with pressure screw EZ-0149/EZ-0150 M12x1-R5

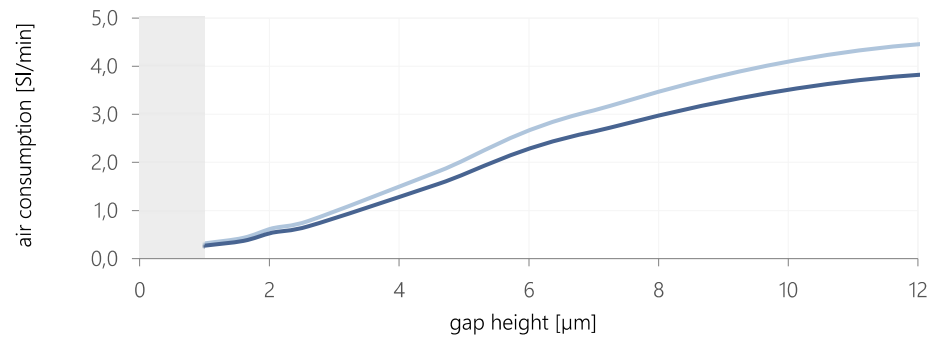
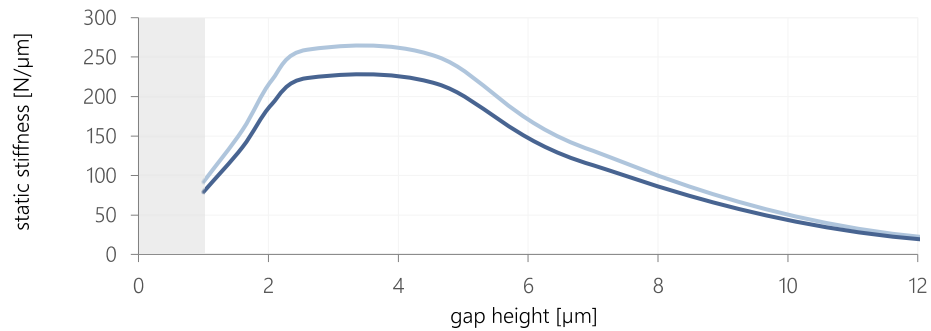
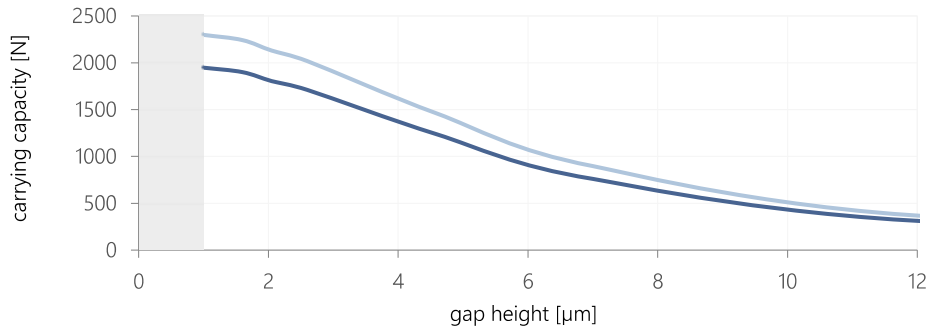
<sup>1)</sup> Patents: US 6,164,827, DE 199 18 564 A1

<sup>2)</sup> deviating supply pressures on request

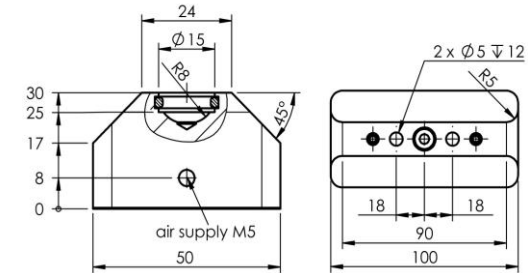
<sup>3)</sup> at nominal carrying capacity

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Subject to technical modifications and typographical errors.



mixed friction range  5 bar — 6 bar —



Thermodynamically optimized air cushion due to micro groove system.<sup>1)</sup> Bearing surface with dry running coating.

Air supply pressure <sup>2)</sup>	bar <sub>rel</sub>	5	6
Maximum carrying capacity	N	1900	2250
Nominal carrying capacity	N	1400	1650
Gap height <sup>3)</sup>	μm	3.8	3.8
Static stiffness <sup>3)</sup>	N/μm	215	250
Air consumption <sup>3)</sup>	l/min	1.2	1.4
Maximum velocity <sup>3)</sup>	m/s	5	6
Weight	g	368	368

Air supply thread	M5
Adapted with pressure screw	EZ-0149/EZ-0150 M16x1-R8

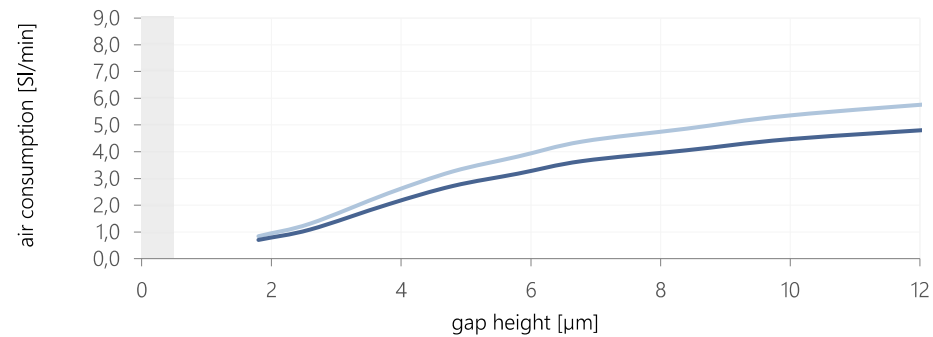
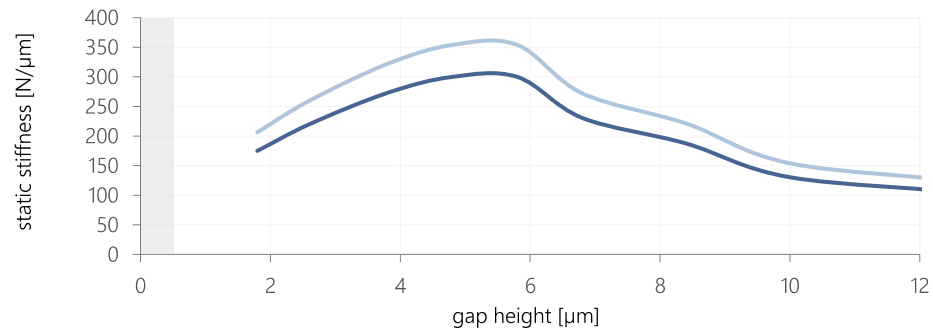
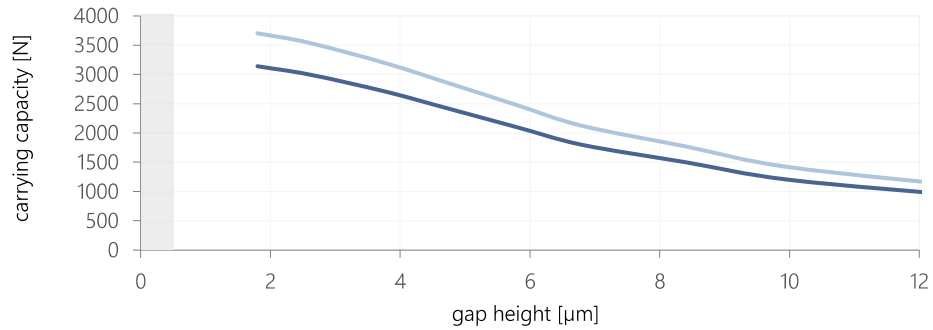
<sup>1)</sup> Patents: US 6,164,827, DE 199 18 564 A1

<sup>2)</sup> deviating supply pressures on request

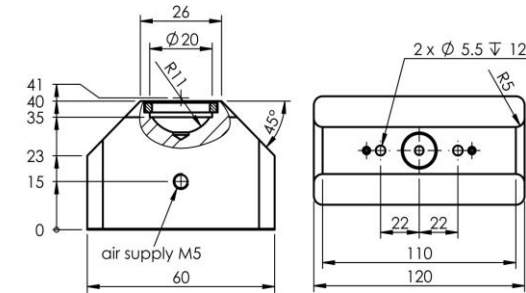
<sup>3)</sup> at nominal carrying capacity

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Subject to technical modifications and typographical errors.



mixed friction range  5 bar — 6 bar —



Thermodynamically optimized air cushion due to micro groove system.<sup>1)</sup> Bearing surface with dry running coating.

Air supply pressure <sup>2)</sup>	bar <sub>rel</sub>	5	6
Maximum carrying capacity	N	2900	3450
Nominal carrying capacity	N	2200	2550
Gap height <sup>3)</sup>	μm	5.8	5.8
Static stiffness <sup>3)</sup>	N/μm	250	300
Air consumption <sup>3)</sup>	l/min	3.1	3.7
Maximum velocity <sup>3)</sup>	m/s	5	6
Weight	g	656	656

Air supply thread	M5
Adapted with pressure screw	EZ-0149/EZ-0150 M24x1.5-R11

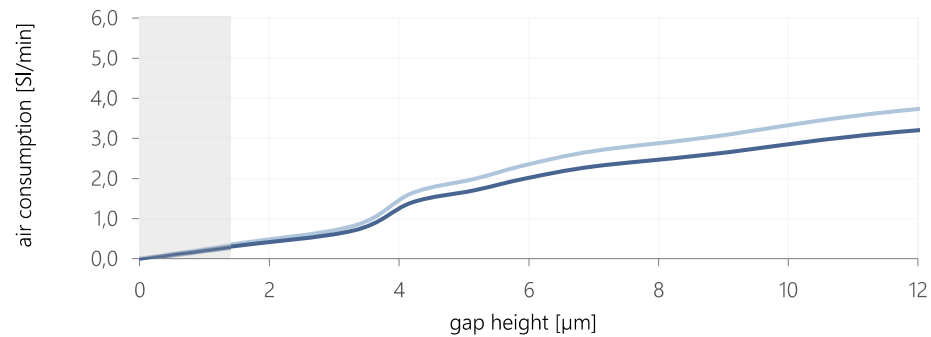
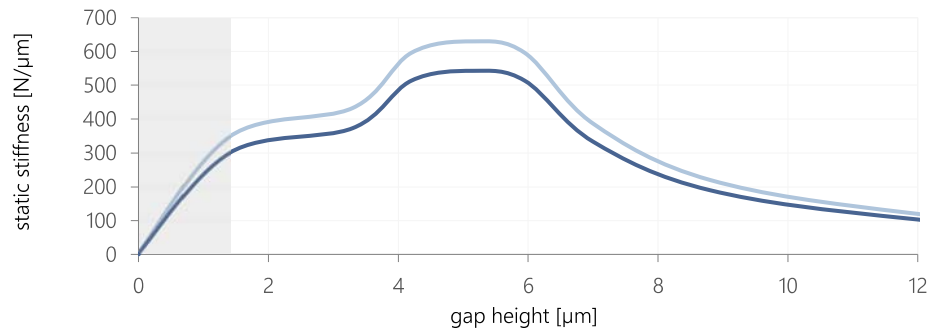
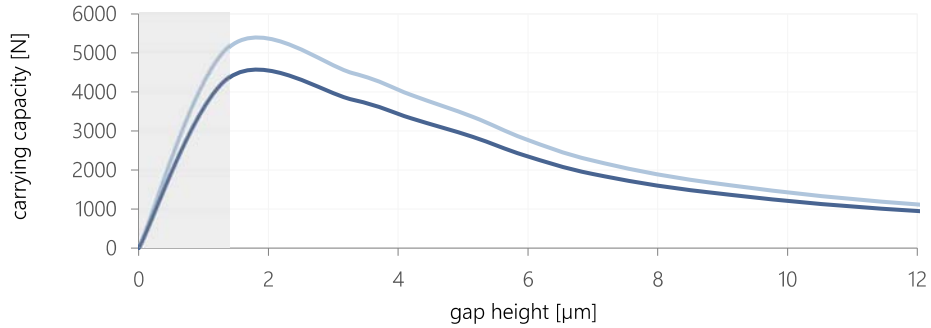
<sup>1)</sup> Patents: US 6,164,827, DE 199 18 564 A1

<sup>2)</sup> deviating supply pressures on request

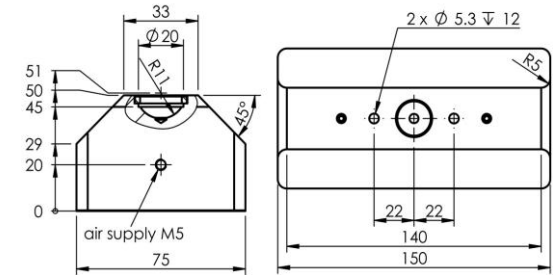
<sup>3)</sup> at nominal carrying capacity

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Subject to technical modifications and typographical errors.



mixed friction range  5 bar — 6 bar —



Thermodynamically optimized air cushion due to micro groove system.<sup>1)</sup> Bearing surface with dry running coating.

Air supply pressure <sup>2)</sup>	bar <sub>rel</sub>	5	6
Maximum carrying capacity	N	4350	5100
Nominal carrying capacity	N	3200	3800
Gap height <sup>3)</sup>	μm	4.4	4.4
Static stiffness <sup>3)</sup>	N/μm	520	600
Air consumption <sup>3)</sup>	l/min	1.47	1.71
Maximum velocity <sup>3)</sup>	m/s	5	6
Weight	g	1300	1300

Air supply thread M5  
Adapted with pressure screw EZ-0149/EZ-0150 M24x1.5-R11

<sup>1)</sup> Patents: US 6,164,827, DE 199 18 564 A1

<sup>2)</sup> deviating supply pressures on request

<sup>3)</sup> at nominal carrying capacity

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