

# AL-45-HD

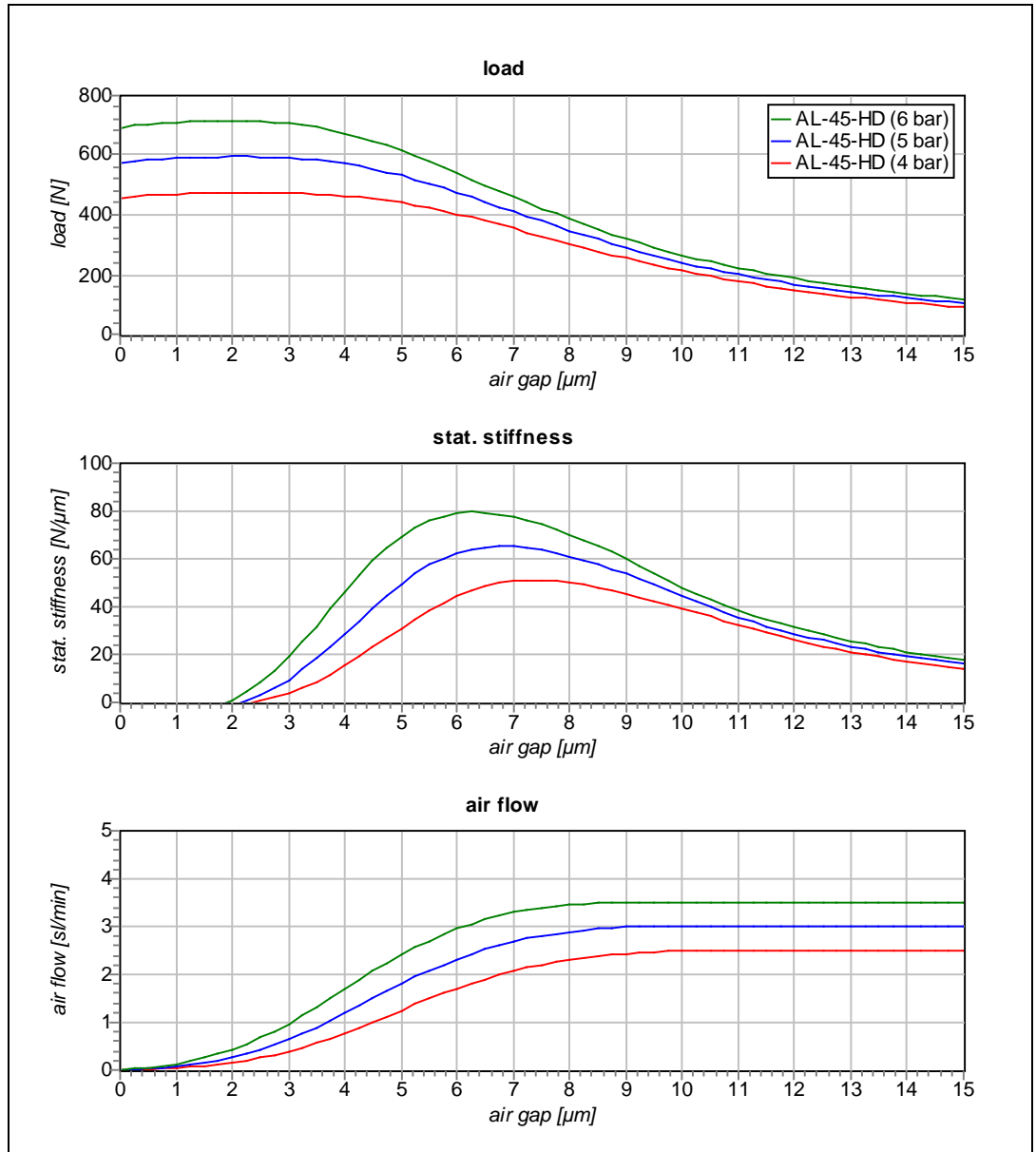


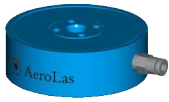
air bearing data at	4 bar	5 bar	6 bar
recommended max. load	→ 370 N	470 N	570 N
recommended preload	→ 210 N	290 N	380 N
gap <sup>1</sup>	→ 10 μm	9 μm	8 μm
static stiffness <sup>1</sup>	→ 40 N/μm	55 N/μm	70 N/μm
max. static stiffness	→ 50 N/μm	65 N/μm	80 N/μm
tilt stiffness <sup>1,2</sup>	→ 0.13 Nm/μm	0.19 Nm/μm	0.25 Nm/μm
unrestricted airflow	→ 2.5 sl/min	3 sl/min	3.5 sl/min

specification	
weight	→ 50 g
guiding surface	→ Ra 0.2
air quality	→ attachment
air pressure	→ max. 9 bar
accessories	→ bolt AL-45+B joint AL-45+G piston AL-45+K

<sup>1</sup> at recommended load  
<sup>2</sup> measured at the edge of the bearing

**application**  
high dynamic





# AL-45-HS

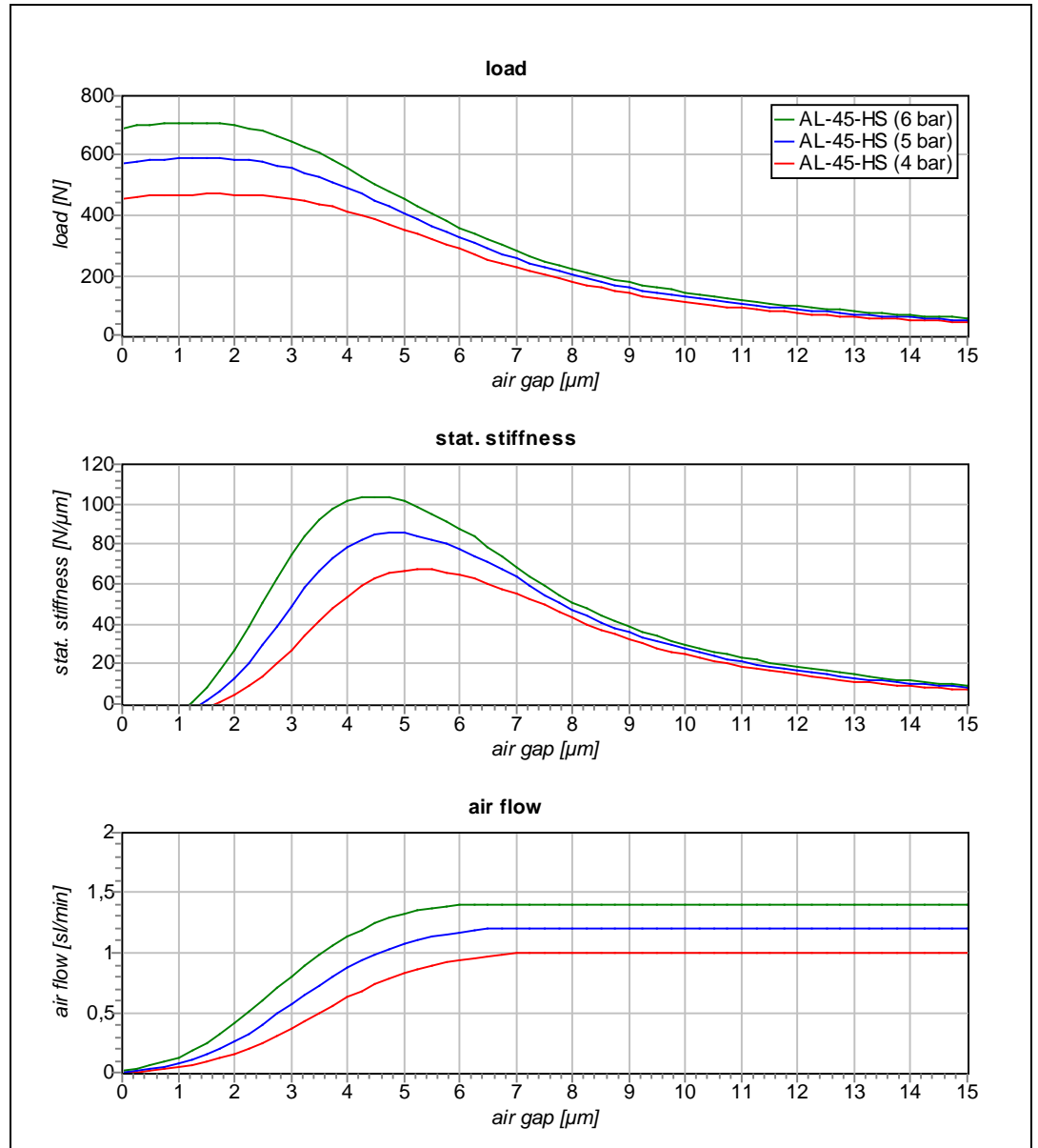


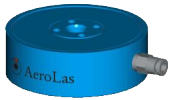
air bearing data at	4 bar	5 bar	6 bar
recommended max. load	→ 370 N	470 N	570 N
recommended preload	→ 285 N	365 N	450 N
gap <sup>1</sup>	→ 6 μm	5.5 μm	5 μm
static stiffness <sup>1</sup>	→ 64 N/μm	82 N/μm	100 N/μm
max. static stiffness	→ 66 N/μm	85 N/μm	103 N/μm
tilt stiffness <sup>1,2</sup>	→ 0.12 Nm/μm	0.16 Nm/μm	0.2 Nm/μm
unrestricted airflow	→ 1 sl/min	1.2 sl/min	1.4 sl/min

specification	
weight	→ 50 g
guiding surface	→ Ra 0.2
air quality	→ attachment
air pressure	→ max. 9 bar
accessories	→ bolt AL-45+B joint AL-45+G piston AL-45+K

<sup>1</sup> at recommended load  
<sup>2</sup> measured at the edge of the bearing

**application**  
high stiffness

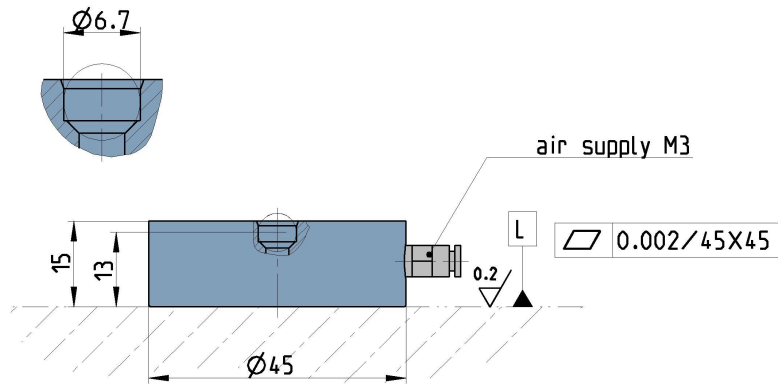




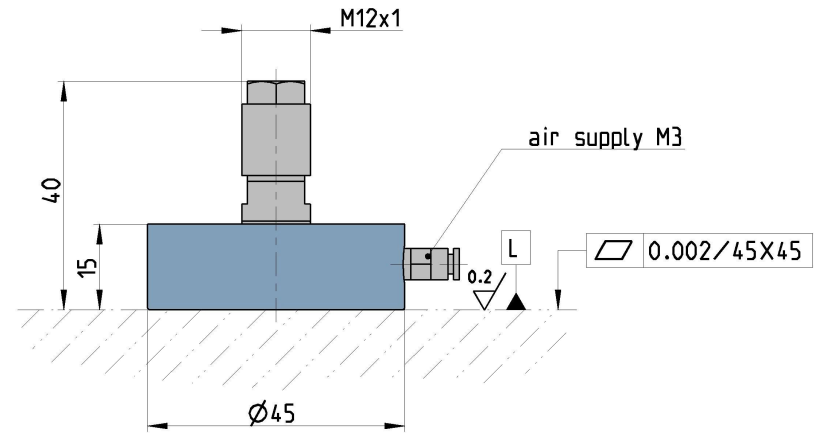
# AL-45-HS/HD options



air bearing  
AL-45-HS/HD

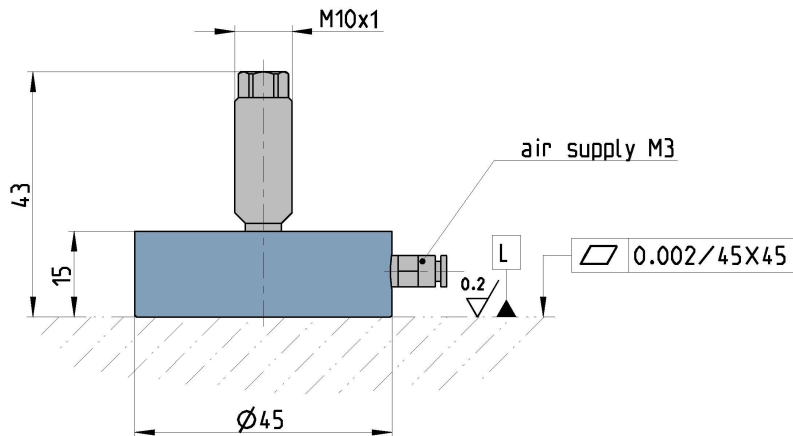


air bearing with joint  
AL-45-HS/HD+G



L= sliding surface

air bearing with bolt  
AL-45-HS/HD+B



air bearing with piston  
AL-45-HS/HD+K

