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Technical data – Turbo with cast iron brake discs

Wear limit technical data – Turbo with cast iron brake discs

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Designation		Notes, dimensions	Wear limit
Operating brake (foot brake) with cast iron brake discs (standard brake)		Hydraulic dual–circuit brake system with front–axle / rear–axle brake circuit division. Vacuum brake booster, internally ventilated and perforated cast iron brake discs with four–piston monobloc fixed caliper at front and rear axles. The brake calipers are painted red for visual differentiation. PSM* ¹⁾ (Porsche Stability Management) standard.	
Brake booster (vacuum)		10 inch	
Boost ratio		3.85	
Brake master cylinder	front	25.4 mm	
	rear	25.4 mm	
	Stroke	18/18 mm	
Brake proportioning control **		EBV ** ²⁾	
Brake discs	front	330 mm	
	rear	330 mm	
Effective brake discs	front	267.8 mm	
	rear	271.2 mm	
Piston in brake caliper	front	2 x 44 + 2 x 36 mm	
	rear	2 x 30 + 2 x 28 mm	
Brake pad area	front	314 cm ²	
	rear	254 cm ²	
Total brake pad area		568 cm ²	

¹⁾* Porsche Stability Management (PSM) standard with ABS, Traction Control (TC), ABD, MSR (engine drag torque control), FZR (vehicle regulator) and EBV (electronic brake distributor). Passive switching

possibility for TC, FZR and MSR.

²⁾ ** EBV = electronic brake distributor (brake proportioning control). As a result, no screw-in brake proportioning valves are required!

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Wear limit technical data – Turbo with cast iron brake discs

Depending on the wear of cast iron brake discs, two condition criteria can make replacement necessary:

1. Cracking in the holed (perforated) brake disc friction plates is in an advanced state.
2. Brake disc minimum thickness is not attained due to wear (material erosion due to friction).

Designation	Note, dimensions	Wear limit
Pad thickness	front	approx. 12.0 mm
	rear	approx. 12.0 mm
Brake disc thickness, new	front	34 mm
	rear	28 mm
Minimum brake disc thickness after machining* ¹⁾	front	32.6 mm* ¹⁾
	rear	26.6 mm* ¹⁾
Brake disc wear limit	front	32.0 mm
	rear	26.0 mm
Peak-to-valley surface roughness of the brake disc after machining, max.	0.006 mm	
Thickness tolerance of the brake discs, max.	0.02 mm	
Lateral runout of the brake disc, max.	0.03 mm	
Lateral runout of the wheel hub, max.	0.03 mm	
Lateral runout of the brake disc when installed, max.	0.06 mm	
Pushrod play (measured at the brake pedal plate)	approx. 1 mm	
Parking brake (handbrake)	Drum brake acting mechanically on both rear wheels	
Parking brake drum	180 mm	181 mm
Brake shoe width	25 mm	
Brake pad thickness	4.5 mm	2 mm

¹⁾* The brake disc must only be reworked symmetrically, i.e. from both sides evenly.

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