Disc brake mechanism tribometry test stand for friction pairs consists of a brake disc connected to a flywheel via a shaft, a caliper with mounted master cylinders and brake shoes. The caliper can rotate in the plane of the brake disc rotation relative to the axis of the cylindrical hinge. The device is distinguished by the fact that, to limit angular movement, the bracket is connected to the caliper via a torque-measuring element designed to measure the force acting on it due to the reactive torque exerted on the bracket. The invention makes it possible to determine the average coefficient of friction and the average radius of friction separately during the testing of disc brake mechanisms, thereby improving the accuracy of tribometric studies.