

ISO 28981:2009-11 (E)

Mopeds - Methods for setting the running resistance on a chassis dynamometer

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols	2
5	Test moped, chassis dynamometer and instruments	3
6	Required accuracy of measurements	4
7	Road test	4
7.1	Requirement for road	4
7.2	Ambient conditions for the road test	4
7.3	Reference speed	5
7.4	Specified speed	5
7.5	Coastdown starting speed	5
7.6	Coastdown time measurement beginning speed and ending speed	5
7.7	Preparation of test moped	5
7.8	Rider and riding position	6
7.9	Measurement of coastdown time	6
8	Data processing	8
8.1	Calculation of running resistance force	8
8.2	Running resistance curve fitting	8
8.3	Target running resistance force for chassis dynamometer setting	8
9	Chassis dynamometer setting derived from on-road coastdown measurements	8
9.1	Requirements for the equipment	8
9.2	Inertia mass setting	9
9.3	Warming up of chassis dynamometer	9
9.4	Adjustment of tyre pressures	9
9.5	Moped warming up	9
9.6	Procedures for setting chassis dynamometer	9
9.7	Verification of chassis dynamometer	12
10	Chassis dynamometer setting using the running resistance table	12
10.1	Applicability	12
10.2	Requirements for the equipment	12
10.3	Setting the running resistance force on the chassis dynamometer	14
10.4	The specified speed for the chassis dynamometer	14
10.5	Verification of chassis dynamometer	14
Annex A (normative)	Moped description	16
Annex B (normative)	Chassis dynamometer and instruments description	18
Annex C (informative)	Record of coastdown time and chassis dynamometer setting	20
Bibliography		23