

Overview NIST Handbook 44 sections and OIML Recommendations for weighing instruments

Instrument type	NIST Handbook 44 section/Title		OIML Recommendation /Title		Remarks
Retail scale, laboratory scale	2.20	Scales	R 76	Non-automatic weighing instruments	
Static weighing vehicle scale	2.20	Scales	R 76	Non-automatic weighing instruments	
Weigh-in-motion vehicle scale for commercial application	2.20	Scales	R 134	Automatic instruments for weighing road vehicles in motion and measuring axle loads	
Weigh-in-motion vehicle scale for law enforcement application	2.25	Weigh-In-Motion Systems Used for Vehicle Enforcement Screening	R 134	Automatic instruments for weighing road vehicles in motion and measuring axle loads	section 2.25 is tentative and for vehicle screening purposes only
Coupled- and uncoupled-in-motion railroad weighing system	2.20	Scales	R 106	Automatic rail-weighbridges	
Livestock scale	2.20	Scales	R 76	Non-automatic weighing instruments	
Dynamic monorail scale	2.20	Scales	R 51	Automatic catchweighing instruments	
Forklift scale and front-end loader	2.20	Scales	R 51	Automatic catchweighing instruments	No live weight indication
			R 76	Non-automatic weighing instruments	Live weight indication

Instrument type	NIST Handbook 44 section/Title		OIML Recommendation/Title		Remarks
Belt conveyor scale and weigh-belt system for weighing bulk material	2.21	Belt-Conveyor Scale Systems	R 50	Continuous totalizing automatic weighing instruments (belt weighers).	
Automatic multi draft hopper scale	2.22	Automatic Bulk Weighing Systems	R 107	Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers)	Batching scales do not fall under Handbook 44, section 2.22
Batching system	A batching systems is not regarded as a single weighing instrument. Each individual scale of a batching system is considered a separate weighing instrument and is subject to the applicable NIST HB 44 section and OIML recommendation.				
Non-automatic single draft hopper scale	2.20	Scales	R 76	Non-automatic weighing instruments	
Weigh labeler	2.24	Automatic Weighing Systems	R 51	Automatic catchweighing instruments	Category Y in OIML R 51
Automatic checkweigher	2.24	Automatic Weighing Systems	R 51	Automatic catchweighing instruments	Category X in OIML R 51
Automatic gravimetric filling instrument	2.24	Automatic Weighing Systems	R 61	Automatic gravimetric filling instruments	
Load cells	2.20	Scales	R 60	Metrological regulation for load cells	
Weights as part of/in combination with a weighing instrument	2.23	Weights	R 111	Weights of classes E ₁ , E ₂ , F ₁ , F ₂ , M ₁ , M ₁₋₂ , M ₂ , M ₂₋₃ and M ₃	Class M ₁ , M ₁₋₂ , M ₂ , M ₂₋₃ and M ₃ in OIML R 111 for use with a class III weighing instrument
Arched chute weighers	Not covered by NIST HB 44		R 150	Continuous totalizing automatic weighing instruments of the arched chute type	

Overview other NIST standards and OIML Recommendations for weighing applications

Application	NIST standard	OIML Recommendation /Title		Remarks
Test weights	Handbook 105-1, Specifications and Tolerances for Field Standard Weights	R 111	Weights of classes E ₁ , E ₂ , F ₁ , F ₂ , M ₁ , M ₁₋₂ , M ₂ , M ₂₋₃ and M ₃	
Net contents	Handbook 133, Checking the Net Contents of Packaged Goods	R 87	Quantity of product in prepackages	