

ISO 6085:2023-02 (E)

Building construction machinery and equipment - Self-loading mobile concrete mixers - Safety requirements and verification

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	4
4	Safety requirements, protective measures and risk reduction	4
4.1	General	4
4.2	Access systems	4
4.2.1	General requirements	4
4.2.2	Access to articulated machines	5
4.3	Operator's station	5
4.3.1	General requirements	5
4.3.2	Operator's station equipped with a cab	6
4.3.3	Operator-protective structures	7
4.4	Operator's seat	8
4.4.1	General requirements	8
4.4.2	Dimensions	8
4.4.3	Adjustment	8
4.4.4	Vibration	8
4.4.5	Restraint system	8
4.5	Operator's controls and indicators	8
4.5.1	General	8
4.5.2	Starting and stopping system	9
4.5.3	Inadvertent activation	9
4.5.4	Pedals	9
4.5.5	Emergency loading equipment lowering	9
4.5.6	Uncontrolled motion	9
4.5.7	Multiple operating positions	9
4.5.8	Visual displays, control panels, indicators and symbols	10
4.6	Steering systems	10
4.6.1	General	10
4.6.2	Wheeled machines	10
4.7	Brake systems	10
4.8	Visibility	10
4.8.1	Operator's field of view	10
4.8.2	Lighting, signalling and marking lights, and reflex-reflector devices	11
4.9	Warning devices and safety signs	11
4.10	Tyres and rims	11
4.11	Stability	11
4.12	Noise	12
4.12.1	Requirements for noise reduction	12
4.12.2	Noise emission measurement	12
4.13	Protective measures and devices	12
4.13.1	Hot parts	12
4.13.2	Moving parts	12
4.13.3	Guards	13

4.13.4	Articulated frame lock	13
4.13.5	Sharp edges and acute angles	13
4.13.6	Fenders	13
4.14	Retrieval, transportation, lifting and towing	13
4.14.1	Common use	13
4.14.2	Retrieval	13
4.14.3	Tying-down	13
4.14.4	Lifting	13
4.14.5	Off-road towing	13
4.14.6	Transportation	14
4.15	Electrical and electronic systems	14
4.15.1	General	14
4.15.2	Degree of protection	14
4.15.3	Electrical connections	14
4.15.4	Over-current protective devices	14
4.15.5	Batteries	15
4.15.6	Battery disconnection	15
4.15.7	Electrical connectors for auxiliary starting aids	15
4.15.8	Electric sockets for lighting	15
4.16	Pressurized systems	15
4.16.1	General requirements	15
4.16.2	Hydraulic lines	15
4.16.3	Hydraulic hose assemblies	16
4.16.4	Air pressure vessels	16
4.17	Fuel tanks and hydraulic oil tanks	16
4.17.1	General requirements	16
4.17.2	Filler openings	16
4.17.3	Fuel tanks	16
4.18	Fire protection	16
4.18.1	Fire resistance	16
4.18.2	Fire extinguisher	16
4.19	Rotating drum and related equipment	17
4.19.1	General	17
4.19.2	Rollers	17
4.19.3	Loading equipment	17
4.19.4	Discharging chute	17
4.19.5	Cleaning system	18
4.20	Maintenance	18
4.20.1	General	18
4.20.2	Routine maintenance	18
4.20.3	Support devices	18
4.20.4	Access to the engine compartment	19
4.21	Underground operation in non-explosive atmospheres	19
4.21.1	General	19
4.21.2	Lighting, signalling and marking lights, and reflex-reflector devices	19
4.21.3	Engine exhaust emission and fuel	19
5	Verification of safety requirements	19
6	Information for use	20
6.1	General	20
6.2	Safety labels	20
6.3	Operator's manual	20
6.4	Machine marking	20
	Bibliography	22