

STANDARD INFORMATION

Standard: UL 62841-3-4 / CSA C22.2#62841-3-4

Standard ID:

Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 3-4: Particular Requirements For Transportable Bench Grinders [UL 62841-3-4:2016 Ed.1+R:28Feb2025]

Electric Motor-operated Hand-held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-4: Particular Requirements for Transportable Bench Grinders [CSA C22.2#62841-3-4:2016 Ed.1+A1;A2]

Previous Standard ID:

Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 3-4: Particular Requirements For Transportable Bench Grinders [UL 62841-3-4:2016 Ed.1+R:18Oct2019]

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EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **February 28, 2027**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

This standard contains Functional Safety requirements.

Overview of Changes:

- Addition of requirements for brush guards
- Addition of requirements for wheel guards

Specific details of new/revise requirements are found in table below

Note: If the listing references a Canadian standard, per the Canadian Electrical Code (CSA C22.2#0) Section titled Language of markings, Caution and Warning Markings shall be in English and French.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
3	Info	Terms and definitions <i>New clause added;</i>
3.104	Info	brush guard guard which partly encloses the wire brush and gives protection to the operator <i>New clause added;</i>
3.105	Info	wheel guard guard which partly encloses the type 1 grinding wheel and gives protection to the operator
8	Info	Marking and instructions Safety instructions for bench grinders
8.14.1.101		Bench grinder safety warnings <u>e) Use only accessories that are specified for your power tool and the specific guard designed for the selected accessory. Accessories for which the power tool was not designed cannot be adequately guarded.</u>
18.4.2		a) Addition: 101) Information about details and type of the accessory(ies) recommended for each tool spindle, e.g. the maximum thickness of the accessory and the diameter of the hole in the accessory; 102) Instruction to use only accessories with a diameter according to the relevant marking as required by 8.3; 103) Instruction to ensure that the bench grinder is always stable and secure (e.g. fixed to a bench) and instruction how to fix the tool to a workbench or the like; 104) Instructions on the correct mounting of wheels and ensuring that wheels are free of defects before use, including instructions for performing a ring test for cracks. <u>105) Information about the correct guard to be used for each recommended accessory.</u>



CLAUSE	VERDICT	COMMENT
19	Info	Mechanical hazards
		Moving and dangerous parts other than the accessories shall be so positioned or enclosed to provide adequate protection against personal injury. The guarding of accessories is covered in 19.1.101 through 19.1.104.
		<u>For grinding wheels, a wheel guard in accordance with 19.1.101 and 19.1.102, a work rest in accordance with 19.102 and a transparent screen in accordance with 19.1.103 shall be provided.</u>
19.1		<u>For wire brushes, a brush guard in accordance with 19.1.104 and a transparent screen in accordance with 19.1.103 shall be provided. For brush guards where the angle as shown in Figure 107 is < 90°, a work rest in accordance with 19.102 is required.</u>
		For polishing wheels, a guard, a work rest and a transparent screen are not required.
		<u>Wheel guards and brush guards</u>
		<u>– shall be designed so that the tool spindle cannot be fitted with an accessory greater than 1,07 times the maximum diameter marked on the bench grinder; and</u> <u>– shall not be removable without the aid of a tool.</u>
		Openings in the wheel guard
19.1.102		For grinding wheels and for wire brushes, the opening angle in the guard shall not exceed 65° above the horizontal plane passing through the centre of the wheel. The total opening angle shall not exceed 90°. See Figure 102.
		<u>The opening angle in a wheel guard shall not exceed 65° above the horizontal plane passing through the centre of the wheel. The total opening angle shall not exceed 90°. See Figure 102.</u>
		<i>New clause added;</i>
		Brush guards
19.1.104		Brush guards shall cover an area of $\geq 180^\circ$ of the periphery of the wire brush. The opening angle shall not exceed 65° above the horizontal plane passing through the centre of the wire brush. The width of the brush guard shall at least cover the length of the tool spindle. The brush guard may be open laterally, see Figure 107.
		Compliance is checked by inspection and measurement.