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COMPLIANT PRODUCTS TO OSHA CRYSTALLINE SILICA RULE 29 CFR 1926.1153

makitatools.com/**dustmanagement**

OCCUPATIONAL EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA

RULE 29 CFR 1926.1153

OSHA is amending its existing standards for occupational exposure to respirable crystalline silica. OSHA has determined that employees exposed to respirable crystalline silica at the previous Permissible Exposure Limits face a significant risk of material impairment to their health. The evidence in the record for this rulemaking indicates that workers exposed to respirable crystalline silica are at increased risk of developing silicosis and other non-malignant respiratory diseases, lung cancer, and kidney disease. This final rule establishes a new permissible exposure limit and Specific Exposure Control Methods.

COMPLIANCE SCHEDULE – Standards took effect on June 23 of 2016, after which industries must comply, based on the following schedule:

> **ENFORCEMENT & COMPLIANCE:**
> - Construction - September 23, 2017, 15 months after the effective date
> - General Industry and Maritime - September 23, 2018, two years after the effective date

KEY PROVISIONS OF OSHA RULE 1926.1153

Reduces the permissible exposure limit (PEL) for respirable crystalline silica to 50 micrograms per cubic meter of air, averaged over an 8-hour shift.

Requires employers to: use engineering controls (such as water or ventilation) to limit worker exposure to the PEL; provide respirators when engineering controls cannot adequately limit exposure; limit worker access to high exposure areas; develop a written exposure control plan and train workers on silica risks and how to limit exposures.

Provides flexibility to protect workers from silica exposure and provides medical exams to monitor highly exposed workers.

Employers can apply 1 of 3 options for compliance: Option 1 Specified Exposure Control method provided in Table 1 of the standard or Alternate Exposure Control methods options 2 and 3 which both require workers' exposure to silica to be below the Permissible Exposure Limit.

METHODS OF COMPLIANCE

OPTION 1

SPECIFIED EXPOSURE CONTROL METHODS: For each employee engaged in a task identified on Table 1, the employer shall fully and properly implement the engineering controls, work practices, and respiratory protection specified for the task on Table 1.

ALTERNATIVE EXPOSURE CONTROL METHODS: For tasks not listed in Table 1, or where the employer does not fully and properly implement the engineering controls, work practices, and respiratory protection described in Table 1.

OPTION 2

PERFORMANCE OPTION: The employer shall assess the 8-hour Time-Weighted Average (TWA) exposure for each employee on the basis of any combination of air monitoring data or objective data sufficient to accurately characterize employee exposures to respirable crystalline silica.

OPTION 3

SCHEDULED SELF-MONITORING: If a control method is not listed on Table 1 and no objective data is available, OSHA requires employers implement a monitoring program to show that the employees have exposure levels below the PEL. The employer shall perform initial monitoring to assess the 8-hour TWA exposure for each employee on the basis of one or more personal breathing zone air samples that reflect the exposures of employees on each shift, for each job classification, in each work area.

SPECIFIED EXPOSURE CONTROL METHOD

Table 1 identifies 18 common construction tasks that generate high exposures to respirable crystalline silica and for each task, specifies engineering controls, work practices and respiratory protection that effectively protect workers.

Employers who fully and properly implement the controls and practices specified in Table 1 **ARE NOT REQUIRED** to measure silica exposure to verify that levels are at or below the PEL for workers engaged in the Table 1 task.

KEY REQUIREMENTS:
- Use commercially available water delivery system or dust shroud
- Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions
- Dust collector must have a filter with 99% or greater efficiency and a filter-cleaning mechanism
- Dust collector must provide 25 CFM or greater of airflow per inch of wheel diameter
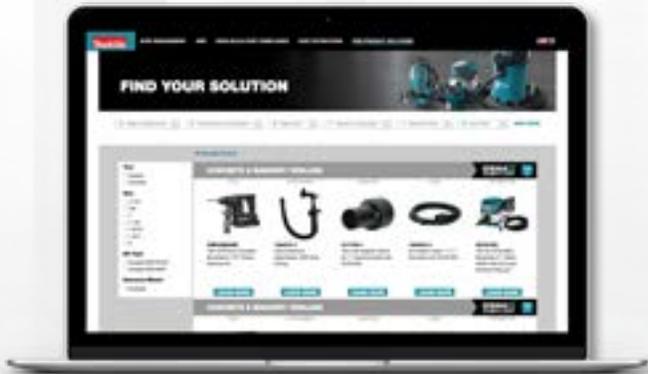- Where applicable, respiratory equipment may be required under certain conditions

WORLD LEADING
PRODUCT INNOVATION

BUILD A DUST EXTRACTION SOLUTION FOR YOUR JOB SITE

Today there is new demand for more solutions to reduce concrete silica dust on the job site. Makita® has an expanding dust extraction system with vacuums, accessories and attachments for use in concrete drilling, breaking, surfacing and cutting applications. Makita® provides the options you need to build an OSHA compliant system for your job site, even if the job takes you away from a power source. Makita® is the leader in cordless technology, so build a system powered by 18V LXT® batteries and benefit from the expansive breadth-of-line of the world's largest 18V cordless tool system. If you're near a power source, plug in with Makita® corded dust extractors that combine top performance metrics with lower noise, less weight, and longer service life.

COMPONENTS OF A DUST MANAGEMENT SYSTEM

		SOLUTION 1	SOLUTION 2
1	DETERMINE YOUR APPLICATION		
2	CHOOSE YOUR TOOL NEED (CORDLESS OR CORDED)		
3	IDENTIFY YOUR REQUIRED DUST EXTRACTION ATTACHMENT		N/A
4	CHOOSE YOUR DUST EXTRACTOR		
5	IDENTIFY YOUR CONNECTION ACCESSORIES		N/A

DUST MANAGEMENT SEARCH
MADE EASY

Whether you need parts, accessories, extractors or tools, find an OSHA-compliant system with the industry's best solution-finder app. Search by trade, application, model number, and more.

MAKITATOOLS.COM/DUST-MANAGEMENT

DUST EXTRACTION
SOLUTIONS OVERVIEW

From the integrated convenience of the XRH01 used with DX01 On-Board Dust Extractor to the peak-performance and versatility of the VC4710 12 gallon Xtract Vac, Makita offers a robust-line of dust management solutions designed to meet your application needs. With both corded and cordless options, Makita delivers both cordless mobility and innovation that allows you to work effectively while reducing concrete silica dust on the job site.

COMBINES BRUSHLESS MOTOR TECHNOLOGY
WITH ON-BOARD DUST EXTRACTION - WITHOUT THE CORD

OSHA ✔
TABLE 1
COMPLIANT
1926.1153

AFT® **AWS CAPABLE** **HEPA filter**

XRH10PTW

18V X2 LXT® 36V Brushless 1-1/8" AVT® Rotary Hammer Kit, AFT®, AWS™ Capable

- Powerful BL™ Brushless motor delivers 0-980 RPM, 0-5,000 BPM and 2.3 ft.lbs. of impact energy to handle the most demanding applications
- Active Feedback-Sensing Technology (AFT®) electronically turns off the motor if rotation of bit is suddenly forced to stop
- AVT® is an active internal counterbalance system and vibration-absorbing back handle that are engineered to reduce vibration for increased comfort

ALSO AVAILABLE

XRH08PT
18V X2 LXT® (36V) Brushless 1-1/8" AVT® Rotary Hammer Kit, Tool Only

XRH11Z
18V X2 LXT® (36V) Brushless 1-1/8" AVT® Rotary Hammer, AFT®, AWS™ Capable, Tool Only

MAX. CAPACITY (CONCRETE DRILLING)	1-1/8"
OPTIMUM RANGE (CONCRETE DRILLING)	3/16" - 5/8"
MAX. CAPACITY (CONCRETE DRILLING W/ CORE BIT)	2-1/8"
IMPACT ENERGY (FT.LBS.)	2.3 ft.lbs. / 3.2 J
BLOWS PER MINUTE (VARIABLE SPEED)	0 - 5,000 BPM
NO LOAD SPEED (VARIABLE SPEED)	0 - 980 RPM

XRH10PTW Includes: Dust Extractor Attachment with HEPA Filter Cleaning Mechanism (DX08), (2) 18V LXT® Lithium-Ion 5.0Ah Battery (BL1850B), 18V LXT® Lithium-Ion Dual Port Charger (DC18RD), Dust Case with HEPA Filter Cleaning Mechanism (199588-6), Side Handle, Depth Gauge, Tool Bag

Accepts SDS-PLUS

LXT® X2 18v + 18v 36v **BRUSHLESS**

TECHNOLOGY
AWS™ capable with Auto-Start Wireless Transmitter (part no. 198901-5) sold separately

DUST MANAGEMENT
OSHA Table 1 compliant on-board dust extractor has a filter cleaning mechanism for optimum suction

CONTROL
AFT® electronically turns off the motor if rotation of bit is suddenly forced to stop

*Compliant under Option 2, Objective Data of the OSHA standard for Occupational Exposure to Respirable Crystalline Silica (rule 1926.1153) when dust extractor is operated with the tested tool model and operated under conditions tested by Makita®. To see the test procedures go to makitatools.com/dustmanagement.

ULTIMATE VERSATILITY
IN A PORTABLE CORDLESS POWER SOLUTION

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HEPA filter

XCV11T

18V LXT® Brushless 2 Gal. HEPA Filter Portable Wet/Dry Dust Extractor/Vacuum Kit

- The BL™ Brushless Motor eliminates carbon brushes, enabling the BL™ Motor to run cooler and more efficiently for longer life
- Up to 60 minutes of continuous run time using an 18V LXT® Lithium-Ion 5.0Ah battery BL1850B
- Compact and portable design with shoulder strap; weighs only 10.1 lbs. with 18V LXT® 5.0Ah battery (shoulder strap not included)

ALSO AVAILABLE

XCV11Z
18V LXT® Brushless 2 Gallon HEPA Filter Portable Wet/Dry Dust Extractor/Vacuum, Tool Only

195548-6
Cuff Joint Adapter, 38mm to 22mm

424379-9
Tool Cuff Adapter, 24mm for 1" hose

GROSS CONTAINER SIZE	2 GAL.
AIR FLOW RATE	57 CFM
STATIC WATER LIFT	27"
CONTINUOUS USE (MAX, IN MINUTES)	60 MIN.
BATTERY	18V LXT® LITHIUM-ION
FILTER CLEANING	YES
HEPA FILTER	YES

XCV11T Includes: (2) 18V LXT® Lithium-Ion 5.0Ah Battery (BL1850B), 18V LXT® Lithium-Ion Rapid Optimum Charger (DC18RC), Round Wet/Dry HEPA Filter (162518-0), Pre-Filter Set, XCV11Z (199827-4), 5" Black Upholstery Nozzle (458891-7), 7" Black Crevice Nozzle (458919-1), Anti-Static Flexible Hose, 1" x 6.5' (140G04-3)

LXT® BRUSHLESS

PERFORMANCE
Powerful Brushless motor delivers 57 CFM using a 18V LXT® Lithium-Ion battery

CONVENIENCE
On-board hose and nozzle storage allow for easy and convenient transport

DUST MANAGEMENT
Efficient HEPA filter captures 99.97% of particulates .3 microns and larger

CORDLESS BACKPACK DESIGN
POWERFUL SUCTION IN A LIGHTWEIGHT AND PORTABLE SOLUTION

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AWS AUTO-START WIRELESS SYSTEM   HEPA filter

XCV10PTX
18V X2 LXT® BL™ 1/2 Gal. HEPA Filter Backpack Dust Extractor Kit, AWS™ Capable

- Powerful BL™ Brushless Motor generates 64 CFM of suction power and 44" of water lift
- Up to 62 minutes of continuous operation on normal setting and 33 minutes on high setting using two 18V LXT® 5.0Ah batteries
- Compact and lightweight design; weighs only 10 lbs. with batteries

GROSS CONTAINER SIZE	.5 GAL.
AIR FLOW RATE	64 CFM
STATIC WATER LIFT	44"
CONTINUOUS USE (MAX, IN MINUTES)	62 MIN.
BATTERY	2X 18V LXT® LITHIUM-ION
HEPA FILTER	YES
EQUIPPED FILTER EFFICIENCY	99.97% OF .3 MICRONS

XCV10PTX Includes: (2) 18V LXT® Lithium-Ion 5.0Ah Battery (BL1850B), 18V LXT® Lithium-Ion Dual Port Charger (DC18RD), Flexible Hose, 1" x 59" (152992-0), HEPA Filter (123636-9), Tool Cuff Adapter, 22mm for 1" hose (417765-1), Tool Cuff Adapter, 24mm for 1" hose (424379-9), Tool Cuff Adapter, 38mm for 1" hose (417766-9)

ALSO AVAILABLE

XCV10ZX
18V X2 LXT® (36V) Brushless 1/2 Gallon HEPA Filter Backpack Dry Dust Extractor, AWS™ Capable, Tool Only

LXT® X2 18v + 18v 36v BRUSHLESS

CONVENIENCE
AWS™ for wireless power-on/off communication with dust extractor

POWER
Powerful BL™ Brushless Motor generates 64 CFM of suction power and 44" of water lift

EFFICIENCY
Two stage HEPA filtration system captures 99.97% of particulates .3 microns and larger

**Up to 62 minutes of continuous run time on low setting using two 18V LXT® Lithium-Ion 5.0Ah batteries BL1850B (batteries not included)

CORDLESS BACKPACK DESIGN
POWERFUL SUCTION WITH INCREASED CANISTER DUST CAPACITY

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AWS AUTO-START WIRELESS SYSTEM   HEPA filter

XCV18PTX
18V X2 LXT® (36V) Brushless 1.6 Gallon HEPA Filter Backpack Dry Dust Extractor Kit, AWS™ Capable

- Powerful BL™ Brushless Motor generates 64 CFM of suction power and 44" of water lift
- Up to 62 minutes of continuous operation on normal setting and 33 minutes on high setting using two 18V LXT® 5.0Ah batteries BL1850B
- Auto-start Wireless System (AWS™) utilizes Bluetooth® technology for wireless power-on/off communication between tool and dust extractor

GROSS CONTAINER SIZE	1.6 GAL.
AIR FLOW RATE	64 CFM
STATIC WATER LIFT	44"
CONTINUOUS USE (MAX, IN MINUTES)	33 MIN.
BATTERY	2X 18V LXT® LITHIUM-ION
HEPA FILTER	YES
EQUIPPED FILTER EFFICIENCY	99.97% OF .3 MICRONS

XCV18PTX Includes: 18V X2 LXT® Brushless 1.6 Gal. Hepa Filter Backpack Dust Extractor, AWS™ Capable (XCV18ZX), 18V LXT® Lithium-Ion 5.0Ah Battery (BL1850B), 18V LXT® Lithium-Ion Dual Port Charger (DC18RD), Flexible Hose, 1" X 59" (152992-0), Main Hepa Filter (191D12-9), Tool Cuff Adapter, 22mm For 1" Hose (417765-1), Tool Cuff Adapter, 24mm For 1" Hose (424379-9), Harness, XCV18 (162750-6), Filter Bag, 10/pk (191C26-2)

ALSO AVAILABLE

XCV18ZX
18V X2 LXT® (36V) Brushless 1.6 Gallon HEPA Filter Backpack Dry Dust Extractor, AWS™ Capable, Tool Only

LXT® X2 18v + 18v 36v BRUSHLESS

DUST MANAGEMENT
Includes filter cleaning mechanism designed to help maintain optimum suction efficiency

CONVENIENCE
AWS™ for wireless power-on/off communication with dust extractor

EFFICIENCY
Two stage HEPA filtration system captures 99.97% of particulates .3 microns and larger

18V X2 LXT® MOTOR
FOR OPTIMIZED DUST MANAGEMENT PERFORMANCE

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AWS AUTO-START WIRELESS SYSTEM | HEPA filter

XCV16ZX
18V X2 LXT® (36V) Brushless 4 Gal. HEPA Filter Dry Dust Extractor, AWS™

- Powerful BL™ Brushless motor delivers 74 CFM and 39" water lift of suction using two 18V LXT® Lithium-Ion batteries (batteries not included)
- Auto-start Wireless System (AWS™) utilizes Bluetooth® technology for wireless power-on/off communication between tool and dust extractor
- Up to 75 minutes of run time on low setting and 40 minutes on high setting using two 18V LXT® 5.0Ah batteries BL1850B (batteries not included)

GROSS CONTAINER SIZE	4 GAL.
AIR FLOW RATE	74 CFM
STATIC WATER LIFT	39"
CONTINUOUS USE (MAX, IN MINUTES)	75 MIN.
BATTERY	2X 18V LXT® LITHIUM-ION
HEPA FILTER	YES
EQUIPPED FILTER EFFICIENCY	99.97% OF .3 MICRONS

XCV16ZX Includes: Anti-Static Hose, 1" x 11' (195433-3), Tool Cuff Adapter, 22mm for 1" hose (417765-1), Tool Cuff Adapter, 24mm for 1" hose (424379-9), Tool Cuff Adapter, 38mm for 1" hose (417766-9), Plastic Disposal Bag, 10/pk (195432-5), HEPA Filter (197166-6), Damper Filter (423398-2), Pre-Filter (195553-3)

ALSO AVAILABLE

XCV13Z
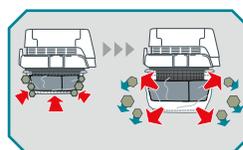18V X2 LXT® (36V) Cordless/Corded 4 Gal. HEPA Dry Dust Extractor, Tool Only

XCV14Z
18V X2 LXT® (36V) Brushless 4 Gallon Wet/Dry Vacuum, Tool Only

Available In 2 Gallon Canisters: XCV04Z, XCV06 & XCV08

LXT® X2 18v + 18v 36v BRUSHLESS

PERFORMANCE
Brushless motor delivers 74 CFM; X2 design for max power and run time

PRODUCTIVITY
Filter cleaning system is designed to maintain optimal suction efficiency and longer filter life

EFFICIENCY
Efficient three stage HEPA filtration system captures 99.97% of particulates .3 microns and larger

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POWERFUL WET/DRY
DUST MANAGEMENT SOLUTION

AWS CAPABLE | HEPA filter | **GET OSHA COMPLIANT***

VC4210L
11 Gallon Wet/Dry HEPA Filter Dust Extractor/Vacuum, AWS™ Capable

- Powerful 12 AMP Motor Generates 148 CFM of Suction Power and 92" of Water Lift
- Efficient three stage filtration system with main flat filter captures 99.95% particles 2 microns and larger
- Auto-start Wireless System (AWS™) uses Bluetooth® technology for wireless power-on/off communication between tool and dust extractor/vacuum

AIR FLOW RATE	148 CFM
STATIC WATER LIFT	92"
TANK SIZE	11 GAL.
FILTER CLEANING	YES
VARIABLE SPEED	YES
FILTRATION SYSTEM	3-STAGE HEPA FILTRATION
POWER CORD	24.6 FT.

ALSO AVAILABLE

Part #	Description
W107418351	Main Flat Filter, VC4210
W107418353	Fleece Filter Bag, 5/pk, VC4210
W107418355	Plastic Disposal Bag, 5/pk, VC4210
W107418349	6 Pc. Floor Cleaning Set
P-72964	12" Concrete Slurry Floor Nozzle
W107414008	Vacuum Hose Y-Adapter
WUT02U	Auto-Start Wireless Universal Adapter
197212-5	Interlocking Case, Large

VC4210L Includes: 1-1/4" X 13' Anti-Static Hose, VC4210 (P-84084), Wet/Dry Hepa Filter, VC4210 (W107413555), Fleece Filter Bag, VC4210 (W107418353-1), Plastic Disposal Bag, VC4210 (W107418355-1), Replacement Quick-Click Cuff, VC4210 (W107417866), Main Flat Filter, VC4210 (W107418351), Interlocking Case Adapter Plate, VC4210 (W107418357), 15/16" Hose Cuff Adapter, VC4210 (W107418678), Quick-Connect Adapter (P-70378), 1-3/4" Hose Cuff Adapter, VC4210 (W107418688), Hose Hook, VC4210 (W107415083), Diffuser, VC4210 (W107415096), Crevice Nozzle (W6084)

CONVENIENCE
Automatic start/stop function activates the machine when a connected power tool is used

EFFICIENCY
Efficient 3 stage filtration system, including main flat & HEPA filters captures 99.95% particles

PERFORMANCE
Automatic Filter Cleaning System for longer filter life

DRILLING APPLICATIONS
OSHA RULE TABLE 1: HANDHELD AND STAND-MOUNTED DRILLS

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MAKITA® DUST EXTRACTION OSHA COMPLIANT SOLUTIONS

SDS-PLUS / SDS-MAX DRILLING (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
SDS-PLUS Drilling ✖	XRH011X, XRH01ZVX, XRH011TX	199588-6 - Dust Case w/ Filter Cleaning Mechanism	N/A	DX01 - Dust Extractor Attachment with HEPA Filter	YES — Option 1, Under Table 1 of Specified Exposure Control Methods*
	XRH08PTW, XRH10ZX, XRH10PTW, XRH12ZW, XRH12TW	Required for Compliance Under OSHA Table 1		DX08 - Dust Extractor with HEPA Cleaning Mechanism	YES — Option 1, Under Table 1 of Specified Exposure Control Methods*
SDS-PLUS Drilling ✖	HR2661, HR2651	199587-8 - Dust Case w/ HEPA Filter Cleaning Mechanism. Required for Compliance Under OSHA Table 1	N/A	135905-6 Dust Extraction Attachment w/HEPA Filter	YES — Option 2, Performance (Objective Data)**
SDS-PLUS Drilling ✖	XRH01, XRH03, XRH04, XRH05, XRH06, HR2475, HR2641, HR2811F, HR2631F	193472-7 Dust Extraction Attachment	417765-1 Tool Cuff Adapter, 22mm for 1" hose (Included)	XCV10ZX 18V X2 LXT® (36V) BL™ 1/2 Gal. HEPA Filter Backpack Dust Extractor, AWS™ Capable	YES — Option 2, Performance (Objective Data)**
	XRH01, XRH08, XRH10	195173-3 Dust Extraction Cup		XCV18ZX 18V X2 LXT® (36V) BL™ 1.6 Gallon HEPA Filter Backpack Dry Dust Extractor, AWS™ Capable	YES — Option 1, Under Table 1 of Specified Exposure Control Methods*
	XRH12, XRH06, RH01, RH02, HR1840	198362-9 Dust Extraction Cup			
SDS-PLUS Drilling ✖	XRH01, XRH03, XRH04, XRH05, XRH06, HR2475, HR2641, HR2811F, HR2631F	193472-7 Dust Extraction Attachment	417765-1 Tool Cuff Adapter, 22mm for 1" hose (Included)	XCV13Z 18V X2 LXT® Lithium-Ion (36V) Cordless/Corded 4 Gallon HEPA Filter Dry Dust Extractor/Vacuum	YES — Option 1, Under Table 1 of Specified Exposure Control Methods*
	XRH12, XRH06, RH01, RH02, HR1840	198362-9 Dust Extraction Cup			
	XRH01, XRH08, XRH10, HR2641	195173-3 Dust Extraction Cup		XCV16ZX 18V X2 LXT® Lithium-Ion (36V) Brushless 4 Gallon HEPA Filter Dry Dust Extractor, AWS™	
SDS-MAX Drilling ✖	HR4002, HR4510C	196074-8 Dust Extraction Attachment			
	HR4013C, XRH07	196537-4 Dust Extraction Attachment			
	HR5212C	196858-4 Dust Extraction Attachment			

*Additionally HEPA filtered vacuum is required when cleaning holes.

**Compliant under Option 2, Objective Data of the OSHA standard for Occupational Exposure to Respirable Crystalline Silica (rule 1926.1153) when dust extractor is operated with the tested tool model and operated under conditions tested by Makita®. To see the test procedures go to makitatools.com/dustmanagement.

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

SDS-PLUS / SDS-MAX DRILLING (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
SDS-PLUS Drilling	XRH01, XRH03, XRH04, XRH05, XRH06, HR2475, HR2641, HR2811F, HR1840, HR2631F	193472-7 Dust Extraction Attachment	W107418678 15/16" Hose Cuff Adapter, VC4210 (Included)	**VC4210L** 11 Gallon Wet/Dry HEPA Filter Dust Extractor/Vacuum, AWS™ Capable	**YES** Option 1, Table 1 of Specified Exposure Control Methods*
	XRH12, XRH06, RH01, RH02, HR1840	199245-6 Dust Extraction Cup Set			
SDS-MAX Drilling	HR4002, HR4510C	196074-8 Dust Extraction Attachment		**WUT02U** Auto-Start Wireless (AWS™) Universal Adapter for wireless on/off between cordless tool and extractor	
	HR4013C, XRH07	196537-4 Dust Extraction Attachment			
	HR5212C	196858-4 Dust Extraction Attachment			

*Additionally HEPA filtered vacuum is required when cleaning holes.

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

DRILLING (DUST EXTRACTION ATTACHMENTS)

193472-7
Dust Extraction Attachment, SDS-PLUS

- Depth stop adjustment allows drilling up to 4" deep and bits up to 3/4"
- Telescoping spring loaded barrel provides job site durability

Accepts up to 3/4" bit in diameter and mounts in side handle depth rod holder

195173-3
Dust Extraction Cup, SDS-PLUS

- For use with the Makita Rotary Hammers for powerful suction and dust extraction
- Ideal for overhead drilling applications

Attaches quickly and easily for added user convenience

Dust port connects directly to Makita® hose 192108-A

196074-8
Dust Extraction Attachment, SDS-MAX

- Includes attachments for drilling and demolition applications
- Replaceable nozzle tips help to protect boot from excessive wear

Shown with demolition boot

Shown with drilling boot

196537-4 / 196858-4
Dust Attachment, SDS-MAX

- Includes attachments for drilling and demolition applications
- Replaceable nozzle tips help protect boot from excessive wear

Includes both drilling and demolition boots

Part of Makita's expanding line-up of dust extraction solutions

SDS-MAX DUST EXTRACTION DRILL BITS*

	ITEM	DIAMETER	LENGTH	USABLE LENGTH	PART #
DUST MANAGEMENT Features dust extraction holes for removal of dust from the hole while drilling	SDS-MAX Dust Extraction Drill Bit, 3-Cutter	1/2"			B-63828
		9/16"			B-63834
DESIGN Dust evacuation increases drilling speed and improves drill bit life		5/8"			B-63840
		3/4"	24"	15-3/4"	B-63862
PRODUCTIVITY Reduces airborne silica dust and offers increased productivity during chemical anchor installation	SDS-MAX Dust Extraction Drill Bit, 10-Cutter	7/8"			B-63884
		1"			B-63890
COMPATIBILITY Fits most common dust extractor vacuums		1-1/8"			B-63909
		1-3/8"			B-63937
Replacement Sleeve for Dust Extraction Drill Bit		Fits most common dust extractor vacuums			B-63943

*Compliant under Option 1, Objective Data of the OSHA standard for Occupational Exposure to Respirable Crystalline Silica (rule 1926.1153) when the compliant dust extractor is used with the appropriate tool model per manufacturer instructions. Additionally HEPA filtered vacuum is required when cleaning holes. To see the test procedures go to makitatools.com/dustmanagement.

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

FIBER-CEMENT BOARD CUTTING APPLICATIONS

OSHA RULE TABLE 1: HANDHELD POWER SAWS FOR CUTTING FIBER-CEMENT BOARD (WITH BLADE DIAMETER OF 8" OR LESS)

MAKITA® DUST EXTRACTION OSHA COMPLIANT SOLUTIONS

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FIBER-CEMENT BOARD CUTTING (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
Fiber-Cement Board Cutting	5057KB	Integrated	Included	**XCV13Z** **18V X2 LXT® Lithium-Ion (36V) Cordless/Corded 4 Gallon HEPA Filter Dry Dust Extractor/Vacuum** **VC4210L** **11 Gallon Wet/Dry HEPA Filter Dust Extractor/Vacuum, AWS™ Capable**	**YES** Option 1, Table 1 of Specified Exposure Control Methods

CHIPPING / DEMOLITION APPLICATIONS
OSHA RULE TABLE 1: JACKHAMMERS & HANDHELD POWERED CHIPPING TOOLS

MAKITA® DUST EXTRACTION OSHA COMPLIANT SOLUTIONS

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MEDIUM DUTY CHIPPING / DEMOLITION (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
Medium Duty Chipping	HR4002, HR4510C	196074-8 Dust Extraction Attachment	417765-1 Tool Cuff Adapter, 22mm for 1" hose (Included)	**XCV13Z** 18V X2 LXT® Lithium-Ion (36V) Cordless/Corded 4 Gallon HEPA Filter Dry Dust Extractor/Vacuum	**YES** Option 1, Table 1 of Specified Exposure Control Methods
	HR4013C, XRH07	196537-4 Dust Extraction Attachment			
	HR5212C	196858-4 Dust Extraction Attachment			
	HM0870C, HM0871C, HM1111C, HR4002, HR4510C, HR4013C, HR4041C	196571-4 Dust Extraction Attachment, Demolition	417766-9 Tool Cuff Adapter, 38mm for 1" hose (Included)	**XCV16ZX** 18V X2 LXT® Lithium-Ion (36V) Brushless 4 Gallon HEPA Filter Dry Dust Extractor, AWS™	
	HM1203C, HM1213C, HM1214C				
Heavy Duty Demolition	HM1307CB, HM1317CB, HM1810, HM1812	197172-1 Dust Extraction Attachment, 1-1/8" Hex Shank, Demolition			

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

MEDIUM DUTY & HEAVY DUTY CHIPPING / DEMO (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
Medium Duty Chipping	HR4002, HR4510C	196074-8 Dust Extraction Attachment	W107418678 15/16" Hose Cuff Adapter, VC4210 (Included)	**VC4210L 11 Gallon Wet/Dry HEPA Filter Dust Extractor/Vacuum, AWS™ Capable**	**YES** Option 1, Table 1 of Specified Exposure Control Methods
	HR4013C, XRH07	196537-4 Dust Extraction Attachment			
	HR5212C	196858-4 Dust Extraction Attachment			
	HM0870C, HM1111C, HR4002, HR4510C, HR4041C	196571-4 Dust Extraction Attachment Demolition	W107418688 1-3/4" Hose Cuff Adapter, VC4210 (Included)	**WUT02U** Auto-Start Wireless (AWS™) Universal Adapter for wireless on/off between cordless tool and extractor	
	HM1203C, HM1214C, HR5212C				
Heavy Duty Demolition	HM1307CB, HM1317CB, HM1810, HM1812	197172-1 Dust Extraction Attachment, 1-1/8" Hex Shank, Demolition			

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

CHIPPING / DEMO (DUST EXTRACTION ATTACHMENTS)

196074-8
Dust Extraction Attachment, SDS-MAX
- Includes attachments for drilling and demolition applications
- Replaceable nozzle tips help to protect boot from excessive wear
- Vibration absorbing handle for increased comfort on the job

Includes attachments for drilling and demolition applications

Vibration absorbing handle for increased comfort on the job

196571-4
Dust Extraction Attachment, SDS-MAX
- Ideal for use in concrete demolition applications
- Use with bull point or chisel bits
- Hose holders help keep hose out of the way of the operator for convenience

For use with rotary or demolition hammers that accept SDS-MAX as well as Spline and 3/4" Hex bits

Hose holders help keep hose out of the way of the operator for convenience

197172-1
Dust Extraction Attachment, 1-1/8" Hex
- Attaches directly to 1-1/8" demolition bits 1" to 4" from the surface being demolished for efficient dust extraction
- Convenient hose holders keep the hose out of the way during use
- Large opening allows for maximum dust extraction

For use with demolition hammers that utilize 1-1/8" hex shank bits

Part of Makita's expanding line-up of dust extraction solutions, including the Xtract Vac® model VC4710 (sold separately)

CUTTING / TUCK-POINTING APPLICATIONS
OSHA RULE TABLE 1: HANDHELD GRINDERS FOR MORTAR REMOVAL

MAKITA® DUST EXTRACTION OSHA COMPLIANT SOLUTIONS

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4-1/2" – 5" CUTTING / TUCK-POINTING (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
4-1/2" – 5" Cutting / Tuck-Pointing	9557 Series, 956 Series, GA502 Series, XAG04, XAG09, XAG11, XAG16, XAG20	196846-1 5" Dust Extraction Tuck Point Guard	417766-9 Tool Cuff Adapter, 38mm for 1" hose (Included)	**XCV13Z 18V X2 LXT® Lithium-Ion (36V) Cordless/Corded 4 Gallon HEPA Filter Dry Dust Extractor/Vacuum**	**YES** Option 1, Table 1 of Specified Exposure Control Methods*
	SJSII: GA5042C, GA4542C	196845-3 5" Dust Extraction Tuck Point Guard			
	9557 Series, 956 Series, GA502 Series, XAG04, XAG09, XAG11, XAG16, XAG20	193794-5 5" Dust Extraction Cutting Guard			
	9557 Series, 956 Series, GA502 Series, XAG04, XAG09, XAG11, XAG16, XAG20	198415-4 4-1/2" - 5" Dust Extraction Cutting Guard	417765-1 Tool Cuff Adapter, 22mm for 1" hose (Included)		
	9557 Series, 956 Series, GA502 Series	196846-1 5" Dust Extraction Tuck Point Guard	W107418688 15/16" Hose Cuff Adapter, VC4210 (Included)	**VC4210L 11 Gallon Wet/Dry HEPA Filter Dust Extractor/Vacuum, AWS™ Capable**	**YES** Option 1, Table 1 of Specified Exposure Control Methods
	SJSII: GA5042C, GA4542C	196845-3 5" Dust Extraction Tuck Point Guard			
	9557 Series, 956 Series, GA502 Series	193794-5 5" Dust Extraction Cutting Guard		**WUT02U Auto-Start Wireless (AWS™) Universal Adapter** for wireless on/off between cordless tool and extractor	
	9557 Series, 956 Series, GA502 Series	198415-4 4-1/2" - 5" Dust Extraction Cutting Guard	W107418678 15/16" Hose Cuff Adapter, VC4210 (Included)		

*XCV13 Dust extractor must be utilized in AC mode (plugged into power outlet) in order to achieve the CFM requirement for this application.

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

SAWING APPLICATIONS
OSHA RULE TABLE 1: HANDHELD POWER SAWS

MAKITA® DUST EXTRACTION OSHA COMPLIANT SOLUTIONS

SAWING (WATER CONTAINMENT)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	POWER CUTTER DOLLY	DUST CONTAINMENT	WATER CONNECTION	OSHA 29 CFR 1926.1153 COMPLIANT
Concrete Sawing **EK7651H** **Premium Performance**	EK7651H	195533-9 Water Attachment	DT4000	988-394-610 2.6 Gallon Pressurized Water Tank (Power cutter dolly not required for use)	**YES** Direct Water Hose Connection	**YES** Option 1, Table 1 of Specified Exposure Control Methods
EK7301 **Power Performance** **EK8100** **Capacity Performance**	EK7301, EK8100	–	DT2010			
EK6101 **Compact Performance**	EK6101	–	–			
GA9040S	GA9040S	198509-5 9" Dust Extraction Cutting Guard	Included	VC4210L 11 Gallon Wet/Dry HEPA Filter Dust Extractor/Vacuum, AWS™ Capable WUT02U Auto-Start Wireless (AWS™) Universal Adapter for wireless on/off between cordless tool and extractor	–	**REQUIRED SELF TESTING** Option 3, Scheduled Self-Monitoring
XAG23ZU1	XAG23ZU1, XAG13ZU1			XCV16ZX 18V X2 LXT® Lithium-Ion (36V) Brushless 4 Gallon HEPA Filter Dry Dust Extractor, AWS™	–	

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

GRINDING / SURFACING APPLICATIONS
OSHA RULE TABLE 1: HANDHELD GRINDERS FOR USES OTHER THAN MORTAR REMOVAL

MAKITA® DUST EXTRACTION OSHA COMPLIANT SOLUTIONS

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4-1/2" – 7" GRINDING / SURFACING (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
4-1/2" – 5" Grinding / Surfacing	9557 Series, 956 Series, GA502 Series, XAG03, XAG04, XAG09, XAG11, XAG16, XAG17ZU, XAG20, XAG21ZU	195236-5 4-1/2" / 5" Dust Extraction Surface Grinding Shroud	**XCV13Z 18V X2 LXT® Lithium-Ion (36V) Cordless/Corded 4 Gallon HEPA Filter Dry Dust Extractor/Vacuum**	
	PC5000C, PC5001C, PC5010CX1	Integrated		**YES** Option 1, Table 1 of Specified Exposure Control Methods*
	9557 Series, 956 Series, GA502 Series, XAG03, XAG04, XAG09, XAG11, XAG16, XAG17ZU, XAG20, XAG21ZU	195236-5 4-1/2" / 5" Dust Extraction Surface Grinding Shroud	**VC4210L 11 Gallon Wet/Dry HEPA Filter Dust Extractor/Vacuum, AWS™ Capable**	
	PC5000C, PC5001C, PC5010CX1	Integrated		
7" Grinding / Surfacing	GA7011C, GA7040S	195386-6 7" Dust Extraction Surface Grinding Shroud	WUT02U Auto-Start Wireless (AWS™) Universal Adapter for wireless on/off between cordless tool and extractor	**YES** Option 2, Performance (Objective Data)**

*XCV13 Dust extractor must be utilized in AC mode (plugged into power outlet) in order to achieve the CFM requirement for this application.

**Compliant under Option 2, Objective Data of the OSHA standard for Occupational Exposure to Respirable Crystalline Silica (rule 1926.1153) when dust extractor is operated with the tested tool model and operated under conditions tested by Makita®. To see the test procedures go to makitatools.com/dustmanagement.

Note: To ensure performance, verify that any engineer controls (accessory-components used with the dust collector/vacuum such as dust shrouds, dust extraction attachments, connectors) are used per manufacturer instructions and are securely attached to a compliant vacuum.

GRINDING / SURFACING (DUST EXTRACTOR ATTACHMENTS)

(4-1/2"– 5")
195236-5

(7")
195386-6

195236-5 / 195386-6
4-1/2"- 7" Dust Extraction Surface Grinding Shroud

- Soft brushes help prevent dust from escaping and help move the tool over the surface
- 4-spring suspension system keeps shroud flush with surface during movement
- Removable edge piece allows surface work flush to other objects

195386-6 works with GA7011C, GA7040S, GA9040S

Standard hose fitting will work with most vacuum systems

Removable front cap for flush to wall grinding

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HELPING YOU MANAGE CONCRETE DUST AND OSHA COMPLIANCE

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	HOSE & ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
DRILLING / CHIPPING / DEMOLITION	XRH01, XRH03, XRH04, XRH05, HR2641, HR2475, HR2811F	193472-7 Dust Extraction Attachment	W107417866		**YES** Option 1, Under Table 1 of Specified Exposure Control Methods*
	XRH01, XRH08, XRH10, HR2641	195173-3 Dust Extraction Cup			
	HR4002, HR4510C	196074-8 Dust Extraction Attachment			
	XRH07PTUN, XRH07PTU, HR4013C	196537-4 Dust Extraction Attachment	W107418678		
	HR5212C	196858-4 Dust Extraction Attachment, Demolition	Both included with VC4210L		
	HM0870C, HM0871C, HM1111C, HR4002C, HR4510C, HR4041C	196571-4 Dust Extraction Attachment, Demolition			
	HM1203C, HM1213C, HM1214C, HR5212C				
	HM1307CB, HM1317CB, HM1810, HM1812	197172-1 Dust Extraction Attachment, 1-1/8" Hex Shank, Demolition	W107417866	VC4210L	
CUTTING/TUCK-POINTING	9557 Series, 956 Series, GA502 Series	196846-1 5" Dust Extraction Tuck Point Guard	W107418688		**YES** Option 1, Under Table 1 of Specified Exposure Control Methods
	SJSII: GA5042C, GA4542C	196845-3 5" Dust Extraction Tuck Point Guard	Both included with VC4210L	WUT02U Auto-Start Wireless (AWS™) Universal Adapter	
	9557 Series, 956 Series, GA502 Series	193794-5 5" Dust Extraction Cutting Guard		AWS for wireless on/off between cordless tool and extractor	
	9557 Series, 956 Series, GA502 Series	192618-2 5" Dust Extraction Cutting Guard	W107417866 W107418678 Both included with VC4210L		
GRINDING/SURFACING	9557 Series, 956 Series, GA502 Series, XAG04, XAG09, XAG11	195236-5 4-1/2" / 5" Dust Extraction Surface Grinding Shroud	W107417866		**YES** Option 1, Under Table 1 of Specified Exposure Control Methods
	PC5000C, PC5001C, PC5010CX1	Integrated	W107418688		
	GA7011C, GA7040S	195386-6 7" Dust Extraction Surface Grinding Shroud	Both included with VC4210L		**YES** Option 2, Performance (Objective Data)**
DRYWALL CUTTING	XDS01	Integrated	W107417866		**N/A**
	XOC01, 3706	193449-2 Dust Extraction Cut-Out Base	W107418678 Both included with VC4210L		

*Additionally HEPA filtered vacuum is required when cleaning holes.

**Compliant under Option 2, Objective Data of the OSHA standard for Occupational Exposure to Respirable Crystalline Silica (rule 1926.1153) when dust extractor is operated with the tested tool model and operated under conditions tested by Makita®.
    To see the test procedures go to makitatools.com/dustmanagement.