



GET  
**OSHA**   
**COMPLIANT**

COMPLIANT PRODUCTS TO OSHA CRYSTALLINE SILICA RULE 29 CFR 1926.1153



# 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





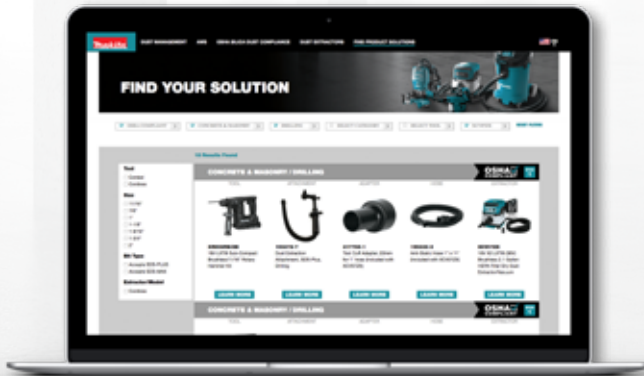
# WORLD LEADING PRODUCT INNOVATION

## 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
<b>1</b>	<b>DETERMINE YOUR APPLICATION</b>		
<b>2</b>	<b>CHOOSE YOUR TOOL NEED (CORDLESS OR CORDED)</b>		
<b>3</b>	<b>IDENTIFY YOUR REQUIRED DUST EXTRACTION ATTACHMENT</b>		N/A
<b>4</b>	<b>CHOOSE YOUR DUST EXTRACTOR</b>		
<b>5</b>	<b>IDENTIFY YOUR CONNECTION ACCESSORIES</b>		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](https://www.makitatools.com/dust-management)

# DUST EXTRACTION SOLUTIONS OVERVIEW

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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

## 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
- Auto-Start Wireless System (AWS™) which utilizes Bluetooth® technology for wireless power-on/off communication between tool and dust extractor
- AVT® is an active internal counterbalance system and vibration-absorbing back handle that are engineered to reduce vibration for increased comfort

<b>BATTERY</b>	2X 18V LXT® LITHIUM-ION
<b>MAX. CAPACITY (CONCRETE DRILLING)</b>	1-1/8"
<b>OPTIMUM RANGE (CONCRETE DRILLING)</b>	3/16" - 5/8"
<b>MAX. CAPACITY (CONCRETE DRILLING W/ CORE BIT)</b>	2-1/8"
<b>BLOWS PER MINUTE (VARIABLE SPEED)</b>	0 - 5,000 BPM
<b>OVERALL LENGTH</b>	14-3/4"

XRH10PTW Includes: DX08 dust extractor attachment, (2) BL1850B batteries and (1) DC18RD charger. XRH08PT Includes: (2) BL1850B batteries and (1) DC18RD charger.



Accepts SDS-PLUS

**AWS**  
AUTO-START WIRELESS SYSTEM

**HEPA**  
filter

### ALSO AVAILABLE



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



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

**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](http://makitatools.com/dustmanagement).

# CORDLESS BACKPACK DESIGN POWERFUL SUCTION IN A LIGHTWEIGHT AND MOBILE DESIGN

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## XCV10ZX

18V X2 LXT® (36V) BL™ 1/2 Gal. HEPA Filter Backpack Dust Extractor, AWS™ Capable (Tool Only)

- Powerful BL™ Brushless Motor generates 64 CFM of suction power and 44" of water lift
- Auto-start Wireless System (AWS™) utilizes Bluetooth® technology for wireless power-on/off communication between tool and dust extractor
- Convenient and easy to replace disposable filter dust bag

<b>BATTERY</b>	2X 18V LXT® LITHIUM-ION
<b>AIR FLOW RATE</b>	64 CFM
<b>STATIC WATER LIFT</b>	44"
<b>CONTINUOUS USE (MAX, IN MINUTES)**</b>	62 MIN.
<b>GROSS CONTAINER SIZE</b>	.5 GAL.
<b>HEPA FILTER</b>	YES
<b>EQUIPPED FILTER EFFICIENCY</b>	99.97% OF .3 MICRONS
<b>NET WEIGHT (WITH BATTERY)</b>	10.01 LBS.

XCV10ZX Includes: Cleaning accessories (battery and charger not included)



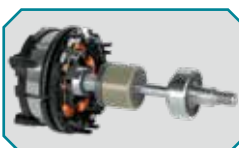
**HEPA**  
filter

**AWS**  
AUTO-START WIRELESS SYSTEM

**LXT** X2 18V + 18V 36V **BRUSHLESS**



**CONVENIENCE**  
Convenient and easy to replace disposable half-gallon filter dust bag



**POWER**  
The BL™ motor eliminates carbon brushes, enabling the motor to run more efficiently



**EFFICIENCY**  
Three 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)

# ULTIMATE VERSATILITY IN A PORTABLE CORDLESS POWER SOLUTION

GET  
**OSHA**  
COMPLIANT\*

**HEPA**  
filter

## XCV11T

18V LXT® Brushless 2 Gallon 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)

<b>BATTERY</b>	18V LXT® LITHIUM-ION
<b>AIR FLOW RATE</b>	57 CFM
<b>STATIC WATER LIFT</b>	27"
<b>CONTINUOUS USE (MAX, IN MINUTES)**</b>	60 MIN.
<b>FILTER CLEANING</b>	YES
<b>HEPA FILTER</b>	YES
<b>EQUIPPED FILTER EFFICIENCY</b>	99.97% OF .3 MICRONS
<b>NET WEIGHT (WITH BATTERY)</b>	10.1 LBS.

XCV11T Includes: Cleaning accessories, (2) BL1850B batteries and (1) DC18RD charger.  
XCV11Z Includes: Cleaning accessories (batteries and charger not included)

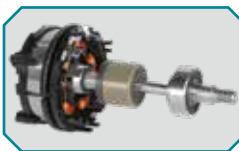


### ALSO AVAILABLE

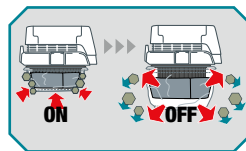


**XCV11Z**  
18V LXT® Brushless 2 Gal. HEPA Filter Portable Wet/Dry Dust Extractor/Vacuum Kit, Tool Only

**LXT® BRUSHLESS**



**POWER**  
Powerful BL™ Brushless motor delivers 57 CFM and 27" water lift of suction using an 18V LXT® Lithium-Ion battery



**FILTER CLEANING**  
Filter cleaning system is designed to maintain optimal suction efficiency



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

# 18V X2 LXT® MOTOR FOR OPTIMIZED DUST MANAGEMENT PERFORMANCE

GET  
**OSHA**  
COMPLIANT\*

**AWS**  
AUTO-START WIRELESS SYSTEM

**HEPA**  
filter

## XCV08PT

18V X2 LXT® (36V) Brushless 2.1 Gal HEPA Filter Dry Dust Extractor/Vac Kit, AWS™

- Powerful Makita BL™ Brushless motor delivers 74 CFM and 39" water lift of suction using two 18V LXT® Lithium-Ion batteries
- Efficient three stage HEPA filtration system captures 99.97% of particulates .3 microns and larger
- Up to 75 minutes of run time on low setting and 40 minutes on high setting using two 18V LXT® 5.0Ah batteries BL1850B

<b>BATTERY</b>	2X 18V LXT® LITHIUM-ION
<b>AIR FLOW RATE</b>	74 CFM
<b>STATIC WATER LIFT</b>	39"
<b>CONTINUOUS USE (MAX, IN MINUTES)**</b>	75 MIN.
<b>FILTER CLEANING</b>	YES
<b>HEPA FILTER</b>	YES
<b>EQUIPPED FILTER EFFICIENCY</b>	99.97% OF .3 MICRONS
<b>NET WEIGHT (WITH BATTERY)</b>	18.4 LBS.

XCV08PT Includes: Cleaning accessories, (2) BL1850B batteries and (1) DC18RD charger.  
XCV04Z Includes: Cleaning accessories (battery and charger not included)



### ALSO AVAILABLE

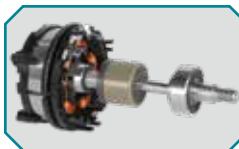


**XCV04Z**  
18V X2 LXT® (36V) 2.1 Gallon HEPA Filter Dry Dust Extractor/Vacuum, Tool Only

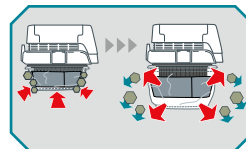


**XCV07ZX**  
18V X2 LXT® (36V) Brushless 2.1 Gallon HEPA Filter Dry Dust Extractor Kit, Tool Only

**LXT® X2 18V + 18V 36V BRUSHLESS**



**POWER**  
Makita BL™ Brushless motor delivers 74 CFM



**FILTER CLEANING**  
Filter cleaning system is designed to maintain optimal suction efficiency



**INNOVATION**  
Three stage HEPA filtration system captures 99.97% of particulates .3 microns and larger

\*Up to 75 minutes of continuous run time on low setting using two 18V LXT® Lithium-Ion 5.0Ah batteries BL1850B (batteries not included)



# SETTING A NEW STANDARD

## FOR DUST MANAGEMENT ON THE JOB SITE



**P-79859**  
HEPA Filter Available  
(Sold Separately)



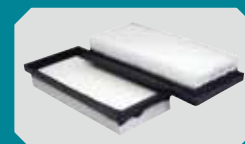
### POWER

12 AMP motor generates 135 CFM of suction power to take on the most challenging applications



### FILTER CLEANING

Automatic Filter Cleaning System with blow-back feature for longer filter



### EFFICIENCY

Included: Efficient main nano filter set (captures 99.95% particles 2 microns and larger)

## SPECIFICATIONS

<b>AMPS</b> .....	12
<b>Air Flow Rate</b> .....	135 CFM
<b>Static Water Lift</b> .....	92"
<b>Filter Cleaning</b> .....	Yes
<b>HEPA filter</b> .....	Optional
<b>Equipped Filter Efficiency</b> .....	99.95% of 2 microns
<b>Gross Container Size</b> .....	12 gal.
<b>Dry Capacity</b> .....	9 gal
<b>Wet Capacity</b> .....	8 gal.
<b>Working Sound Level</b> .....	59 dB(A)
<b>Dry Weight</b> .....	27 lbs.

VC4710 Includes: Main Flat Filters (2/pk), 1-3/8"x16" Anti-Static Hose, Crevice Nozzle, Tool Cuff Adapter, Fleece Nano Filter Bag, Disposable Bag

## VC4710

### 12 GALLON XTRACT VAC® WET/DRY DUST EXTRACTOR

The Xtract Vac® (model VC4710) is at the center of Makita's growing dust collection system, and with an extensive range of features the VC4710 is a top performer in the jobsite vacuum category. This is a best-in-class solution for dust extraction in concrete and woodworking applications. The VC4710 is powered by a 12 AMP motor that generates 135 CFM of suction power and 92" of water lift to take on the most challenging applications. In addition, precision lightweight motor components and more efficient air ducting allowed engineers to reduce the weight to only 27 lbs. For improved stability, the VC4710 has wide-set urethane rear wheels and enlarged steel caster front wheels to create a lower center of gravity for improved stability and easier movement.

# DRILLING APPLICATIONS

## OSHA RULE TABLE 1: HANDHELD AND STAND-MOUNTED DRILLS



### 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
<b>SDS-PLUS Drilling</b> 	XRH011X, XRH01ZVX, XRH011TX	N/A	N/A	<b>DX01 - Dust Extractor Attachment with HEPA Filter</b> 	<b>YES</b> Option 2, Performance (Objective Data)**
	XRH08PTW, XRH10ZX, XRH10PTW, XRH12ZW, XRH12TW			<b>DX08 - Dust Extractor with HEPA Cleaning Mechanism</b> 	<b>YES</b> Option 1, Under Table 1 of Specified Exposure Control Methods*
<b>SDS-PLUS Drilling</b> 	HR2661, HR2651	N/A	N/A	<b>135905-6 Dust Extraction Attachment w/HEPA Filter</b> 	<b>YES</b> Option 2, Performance (Objective Data)**
<b>SDS-PLUS Drilling</b> 	XRH01, XRH03, XRH04, XRH05, XRH06, HR2475, HR2641, HR2811F, HR2631F	<b>193472-7 Dust Extraction Attachment</b> 	Included	<b>XCV10ZX 18V X2 LXT® (36V) BL™ 1/2 Gal. HEPA Filter Backpack Dust Extractor, AWS™ Capable</b> 	<b>REQUIRED SELF TESTING</b> Option 3, Scheduled Self-Monitoring
	XRH01, XRH08, XRH10	<b>195173-3 Dust Extraction Cup</b> 			
	XRH12, XRH06, RH01, RH02, HR1840	<b>198362-9 Dust Extraction Cup</b> 			
<b>SDS-PLUS Drilling</b> 	XRH01, XRH03, XRH04, XRH05, XRH06, HR2475, HR2641, HR2811F, HR2631F	<b>193472-7 Dust Extraction Attachment</b> 	Included	<b>XCV04Z 18V X2 LXT® (36V) Cordless/Corded 2.1 Gallon HEPA Filter Dry Dust Extractor/Vacuum</b> 	<b>YES</b> Option 1, Under Table 1 of Specified Exposure Control Methods*
	XRH12, XRH06, RH01, RH02, HR1840	<b>198362-9 Dust Extraction Cup</b> 			
	XRH01, XRH08, XRH10, HR2641	<b>195173-3 Dust Extraction Cup</b> 			
<b>SDS-MAX Drilling</b> 	HR4002, HR4510C	<b>196074-8 Dust Extraction Attachment</b> 	Included	<b>XCV08Z 18V X2 LXT® (36V) Brushless 2.1 Gal. HEPA Filter Dry Dust Extractor/Vacuum, AWS™</b> 	<b>YES</b> Option 1, Under Table 1 of Specified Exposure Control Methods*
	HR4013C, XRH07	<b>196537-4 Dust Extraction Attachment</b> 			
	HR5212C	<b>196858-4 Dust Extraction Attachment</b> 			

\*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
<b>SDS-PLUS Drilling</b> 	 XRH01, XRH03, XRH04, XRH05, XRH06, HR2475, HR2641, HR2811F, HR1840, HR2631F	193472-7 Dust Extraction Attachment 	192108-A 3/4"x10' Connector Hose 	<b>VC4710</b> 12 Gallon Xtract Vac® Wet/Dry Dust Extractor 	<b>YES</b> Option 1, Table 1 of Specified Exposure Control Methods*
	 XRH12, XRH06, RH01, RH02, HR1840	199245-6 Dust Extraction Cup Set 			
<b>SDS-MAX Drilling</b> 	 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.

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\*

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



### FIBER-CEMENT BOARD CUTTING (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
<p>Fiber-Cement Board Cutting</p> 	5057KB	Integrated	Included	<p>XCV04Z 18V X2 LXT® (36V) Cordless/ Corded 2.1 Gal. HEPA Filter Dry Dust Extractor</p> 	<p>YES</p> <p>Option 1, Table 1 of Specified Exposure Control Methods</p>
				<p>VC4710 12 Gallon Xtract Vac® Wet/Dry Dust Extractor</p> 	

















# CHIPPING / DEMOLITION APPLICATIONS

OSHA RULE TABLE 1: JACKHAMMERS & HANDHELD POWERED CHIPPING TOOLS

MAKITA® DUST EXTRACTION OSHA COMPLIANT SOLUTIONS












## MEDIUM DUTY CHIPPING / DEMOLITION (COMPATIBLE DUST EXTRACTORS)

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
<b>Medium Duty Chipping</b> 	HR4002, HR4510C	196074-8 Dust Extraction Attachment 	<b>XCV04Z</b> <b>18V X2 LXT® (36V) Cordless/Corded 2.1 Gallon HEPA Filter Dry Dust Extractor/Vacuum</b>   <b>XCV08Z</b> <b>18V X2 LXT® (36V) Brushless 2.1 Gal. HEPA Filter Dry Dust Extractor/Vacuum, AWS™</b> 	<b>YES</b>  Option 1, Table 1 of Specified Exposure Control Methods
	HR4013C, HRH07	196537-4 Dust Extraction Attachment 		
	HR5212C	196858-4 Dust Extraction Attachment 		
	HM0870C, HM1111C, HR4002, HR4510C, HR4013C, HR4041C	196571-4 Dust Extraction Attachment, Demolition 		
	HM1203C, HM1214C			
<b>Heavy Duty Demolition</b> 	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
<b>Medium Duty Chipping</b> 	HR4002, HR4510C	196074-8 Dust Extraction Attachment 	192108-A 3/4"x10' Connector Hose 	 <p><b>VC4710 12 Gallon Xtract Vac® Wet/Dry Dust Extractor</b></p>	<p><b>YES</b></p> <p>Option 1, Table 1 of Specified Exposure Control Methods</p>
	HR4013C, XRH07	196537-4 Dust Extraction Attachment 			
	HR5212C	196858-4 Dust Extraction Attachment 			
	HM0870C, HM1111C, HR4002, HR4510C, HR4041C	196571-4 Dust Extraction Attachment Demolition 	Included		
	HM1203C, HM1214C, HR5212C				
<b>Heavy Duty Demolition</b> 	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



### 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
<b>4-1/2" – 5" Cutting / Tuck-Pointing</b> 	9557 Series, 956 Series, GA502 Series, XAG04, XAG09, XAG11, XAG16, XAG20	196846-1 5" Dust Extraction Tuck Point Guard 	Included	<b>XCV04Z</b> <b>18V X2 LXT® (36V) Cordless/Corded 2.1 Gallon HEPA Filter Dry Dust Extractor/Vacuum</b> 	<b>YES</b> 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	198415-4 4-1/2" - 5" Dust Extraction Cutting 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	196846-1 5" Dust Extraction Tuck Point Guard 	Included	<b>VC4710</b> <b>12 Gallon Xtract Vac® Wet/Dry Dust Extractor</b> 	<b>YES</b> 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 			
	9557 Series, 956 Series, GA502 Series	198415-4 4-1/2" - 5" Dust Extraction Cutting Guard 			
			192108-A 3/4"x10' Connector Hose 		

\*XCV04 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
<b>Concrete Sawing</b>    <b>EK7651H Premium Performance</b>	EK7651H	195533-9 Water Attachment 	 <b>DT4000</b>	 988-394-610 2.6 Gallon Pressurized Water Tank  (Power cutter dolly not required for use)	<b>YES</b> Direct Water Hose Connection	<b>YES</b> Option 1, Table 1 of Specified Exposure Control Methods
 <b>EK7301 Power Performance</b>   <b>EK8100 Capacity Performance</b>	EK7301, EK8100	-	 <b>DT2010</b>	988-394-610 2.6 Gallon Pressurized Water Tank  (Power cutter dolly not required for use)	<b>YES</b> Direct Water Hose Connection	<b>YES</b> Option 1, Table 1 of Specified Exposure Control Methods
 <b>EK6101 Compact Performance</b>	EK6101	-	-			
 <b>EGA9040S</b>	EGA9040S	198509-5 9" Dust Extraction Cutting Guard 	-	VC4710 12 Gallon Xtract Vac® Wet/Dry Dust Extractor 	-	<b>REQUIRED SELF TESTING</b> Option 3, Scheduled Self-Monitoring
 <b>XAG23ZU1</b>	XAG23ZU1, XAG13ZU1		-	XCV08Z 18V X2 LXT® (36V) Brushless 2.1 Gal. HEPA Filter Dry Dust Extractor/Vacuum, AWS™ 	-	<b>REQUIRED SELF TESTING</b> Option 3, Scheduled Self-Monitoring

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



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


APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT
<b>4-1/2" – 5" Grinding / Surfacing</b> 	9557 Series, 956 Series, GA502 Series, XAG03, XAG04, XAG09, XAG11, XAG16, XAG20	195236-5 4-1/2" / 5" Dust Extraction Surface Grinding Shroud 	<b>XCV04Z</b> <b>18V X2 LXT® (36V) Cordless/Corded 2.1 Gallon HEPA Filter Dry Dust Extractor/Vacuum</b> 	<b>YES</b> Option 1, Table 1 of Specified Exposure Control Methods*
	PC5000C, PC5001C	Integrated		
	9557 Series, 956 Series, GA502 Series, XAG03, XAG04, XAG09, XAG11, XAG16, XAG20	195236-5 4-1/2" / 5" Dust Extraction Surface Grinding Shroud 	<b>VC4710</b> <b>12 Gallon Xtract Vac® Wet/Dry Dust Extractor</b> 	<b>YES</b> Option 2, Performance (Objective Data)**
	PC5000C, PC5001C, PC5010C	Integrated		
<b>7" Grinding / Surfacing</b> 	GA7011C, GA7040S	195386-6 7" Dust Extraction Surface Grinding Shroud 		

\*XCV04 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](http://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



# COMPLIANCE STARTS WITH MAKITA®



HELPING YOU MANAGE CONCRETE DUST AND OSHA COMPLIANCE

APPLICATION	APPLICABLE TOOLS	DUST ATTACHMENT	CONNECTION ADAPTER	DUST EXTRACTOR	OSHA 29 CFR 1926.1153 COMPLIANT	
DRILLING / CHIPPING / DEMOLITION	XRH03, XRH04, XRH05, XRH06, HR2641, HR2475, HR2811F		193472-7 Dust Extraction Attachment	192108-A 3/4"x10' Connector Hose	<b>VC4710</b> <b>12 Gallon Xtract Vac®</b> <b>Wet/Dry Dust Extractor</b>	<b>YES</b> Option 1, Table 1 of Specified Exposure Control Methods*
	XRH08, XRH10		195173-3 Dust Extraction Cup			
	HR4002, HR4510C		196074-8 Dust Extraction Attachment			
	HR4013C		196537-4 Dust Extraction Attachment			
	HR5212C		196858-4 Dust Extraction Attachment, Demolition			
	HM0870C, HM1111C, HR4002, HR4510C, HR4041C		196571-4 Dust Extraction Attachment, Demolition			
	HM1203C, HM1214C, HR5212C					
HM1307CB, HM1317CB, HM1810, HM1812		197172-1 Dust Extraction Attachment, 1-1/8" Hex Shank, Demolition	Included		<b>YES</b> Option 1, Table 1 of Specified Exposure Control Methods	
9557 Series, 956 Series, GA502 Series		196846-1 5" Dust Extraction Tuck Point Guard				
SJSL: GA5042C, GA4542C		196845-3 5" Dust Extraction Tuck Point Guard				
9557 Series, 956 Series, GA502 Series		193794-5 5" Dust Extraction Cutting Guard				
9557 Series, 956 Series, GA502 Series		198415-4 4-1/2" - 5" Dust Extraction Cutting Guard	192108-A 3/4"x10' Connector Hose	<b>YES</b> Option 1, Table 1 of Specified Exposure Control Methods		
9557 Series, 956 Series, GA502 Series, XAG04, XAG09, XAG11, XAG16, XAG20		195236-5 4-1/2" / 5" Dust Extraction Surface Grinding Shroud	Included			
PC5000C, PC5001C, PC5010C		Integrated				
GA7011C, GA7040S		195386-6 7" Dust Extraction Surface Grinding Shroud	192108-A Connector Hose 3/4" x 10'	<b>YES</b> Option 2, Performance (Objective Data)**		
XDS01		Integrated				
XOC01, 3706		193449-2 Dust Extraction Cut-Out Base	192108-A Connector Hose 3/4" x 10'	<b>N/A</b>		

\*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.



makitatools.com/ruletheoutdoors

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