

**DEWALT**



NORTHWEST  
CONSTRUCTION  
CONSUMER  
COUNCIL

Rob Clausen  
Bryce White

**YOUR FIRST LINE  
OF DEFENSE.**





**DEWALT**

**PERFORM  
PROTECT™**



**VIBRATION**



**CONTROL**



**DUST**





**VIBRATION**

- SHOCKS-Active Vibration Control® System reduces vibration at the handles compared to hammers without such systems.

**SHOCKS**



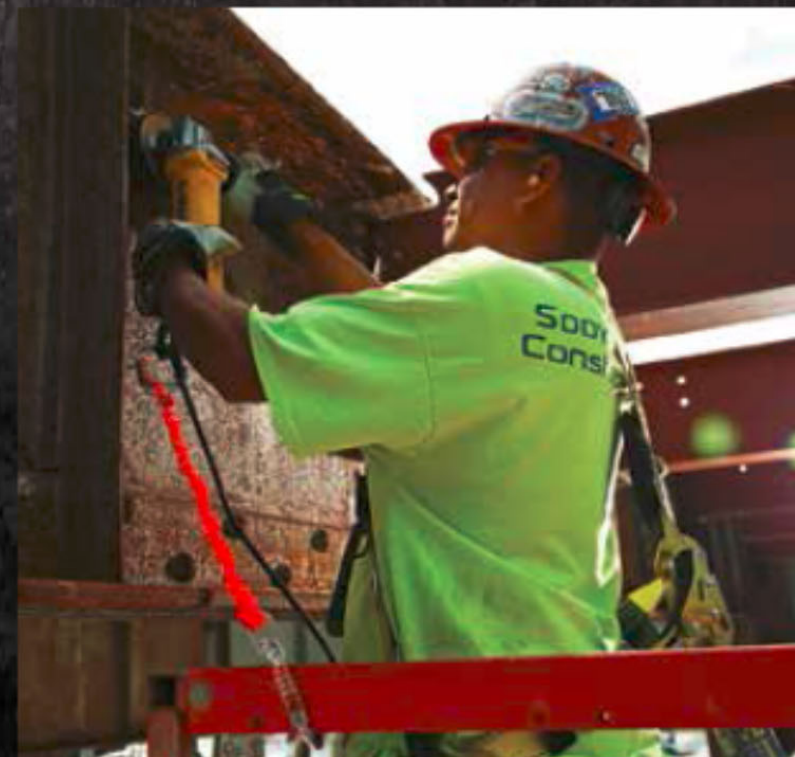
## CONTROL

- E-Clutch® System helps minimize sudden torque reaction compared to standard clutches.
- Power Loss Reset™ feature prevents accidental re-starts of the tool after a user experiences a power outage such as a tripped breaker or accidental unplugging of the cord when the switch is in the locked-on position.

**KICKBACK  
BRAKE**

**LANYARD  
READY**

**E-CLUTCH®**







## DUST

- Dust shrouds and dust extractors can decrease the potential of inhaling dust. They can also help increase visibility and reduce cleanup and maintenance costs.
- DEWALT dust systems are compliant through their adherence to OSHA requirements for handheld and stand-mounted drills (including impact and rotary hammer drills).



**OSHA COMPLIANT**  
1926.1153





OSHA 1926.1153

REGULATIONS IN THE CONSTRUCTION INDUSTRY



# OSHA

1926.1153

FINAL RULE IN EFFECT  
CONSTRUCTION INDUSTRY

Sept. 23, 2017



## IMPLICATIONS & PROVISIONS

OSHA rules with the intent to limit workers' exposure to respirable crystalline silica

### STRICTER JOBSITE STANDARDS

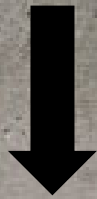
- Reduction of Permissible Exposure Limit (PEL) of crystalline silica
- Defined Table 1 of regulatory standards define application-based compliance in the Construction industry

### INCREASED WORKER PROTECTION

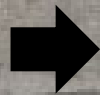
- Requires engineering controls to limit exposure to the PEL
- Provides medical exams to monitor highly exposed workers
- Provides flexibility to help protect workers from silica dust
- From 250 micrograms to 50 over an 8hr shift



Are workers  
exposed to airborne  
silica dust?



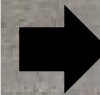
YES



Are you following  
Table 1?



YES



You are compliant.

**1926.1153 MANDATORY ACTIONS:**

1. Establish a written exposure control plan
2. Designate a competent person
3. Offer medical surveillance
4. Train workers
5. Keep records



Are workers  
exposed to airborne  
silica dust?



YES



Are you following  
Table 1?



NO



Use Alternative  
Methods



Scheduled Sampling

Objective Data & Or  
Sampling



# OSHA Table 1

- Applies to all Applications stated in Table 1
- Extractor Must have 99% filter efficiency
- Must be equipped with a filter cleaning mechanism to prevent debris build up on the filters
- HEPA filters required for cleaning holes
- Must provide a minimum flow of 25cfm per inch diameter of wheel in surface grinding and cutting applications
- Dust collection system/shrouds must be commercially available.

If the above engineering controls are properly and fully implemented then no further exposure assessment is required.

## If Following Alternative Exposure Controls

- Employers must ensure PEL does exceed  $50\mu\text{g}/\text{m}^3$  in an 8 hour TWA
- Employer must assess the 8 hour TWA exposure for each employee who is expected to be exposed to crystalline silica
- Employers can select any of the 2 options for assessing exposure

### Performance Option Objective Data

Objective data is information that demonstrates employee exposure to respirable crystalline silica associated with a particular product or material or a specific process, task, or activity. The data must reflect workplace conditions that closely resemble or could result in higher exposures than the processes, types of material, control methods, work practices, and environmental conditions in the employer's current operations.

#### -Recordkeeping requirements

This record shall include at least the following information:

- (A) The crystalline silica-containing material in question;
- (B) The source of the objective data;
- (C) The testing protocol and results of testing;
- (D) A description of the process, task, or activity on which the objective data were based; and
- (E) Other data relevant to the process, task, activity, material, or exposures on which the objective data were based.

- The employer shall ensure that objective data are maintained and made available in accordance with 29 CFR

### Schedule Air Monitoring

When following the scheduled monitoring option, employers must make sure that:

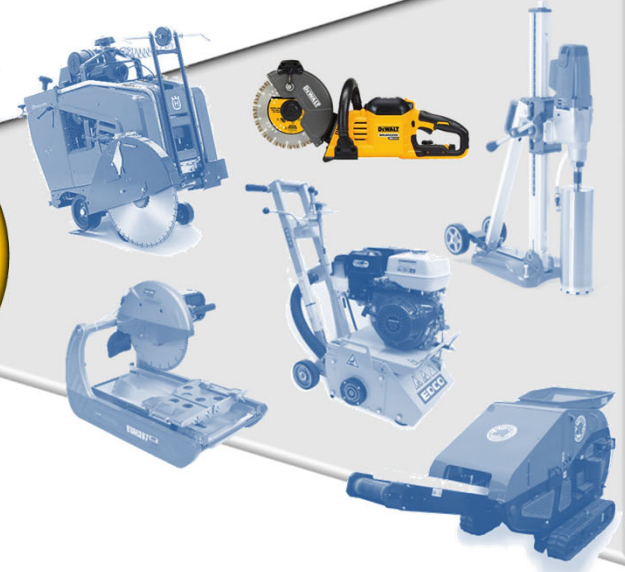
- Results represent the employee's TWA exposure to respirable crystalline silica over an eight-hour workday.
- Samples are collected from the employee's breathing zone
- Samples are collected outside respirators so that they represent the exposure that would occur without the use of the respirator.



DUST EXTRACTION

DUST EXTRACTION  
OR  
WATER CONNECTION

WATER CONNECTION



EXTRACTOR SPECIFICATIONS

- Must be equipped w/ commercially-available shroud
- Must have filter-cleaning mechanism
- Must have  $\geq 99\%$  efficiency

APPLICATION-BASED SPECIFICATIONS

- HEPA required for all drilling applications
- 25 CFM per inch of wheel for all grinding applications

WATER CONNECTION SPECIFICATIONS

- Must have integrated water delivery system on tool
- Must continuously feed water to point of contact

DEWALT

EMPLOYER COMPLIANCE OPTIONS





**OSHA COMPLIANT**  
**HEPA/RRP**



Telescoping handle  
Tool Actuation  
Large rear wheels  
Variable Speed










**DEWALT**

DWV012 10 GALLON DUST EXTRACTOR





	
<p>Tool Actuation</p>	
	
	

**DEWALT**

DWV010 8 GALLON DUST EXTRACTOR





Wireless Tool  
Control



**DeWALT**

DCV585 2 GALLON DUST EXTRACTOR





THE D.U.D.E.

	<p>OSHA Table 1 Compliant dust collection for corded and cordless tools</p>
	<p>Compression fitting for multi use</p>
	<p>Compatibility with many corded and cordless tools</p>

**DEWALT**

DWH161 UNIVERSAL DUST EXTRACTOR





OSHA Table 1 Compliant  
dust collection for corded  
and cordless tools



10-inch and 6-inch SDS+  
Drill Bits and Chisels plus a  
tube for a stop bits



Versatility  
Works with corded and  
cordless hammer drills &  
and SDS Plus Rotary  
Hammers














The industries only solution  
designed for SDS PLUS  
Chipping and Demolition  
applications.

**DEWALT**

DWH200D SDS+ DUST EXTRACTION TUBE WITH HOSE











TOOL			ATTACHMENT	ADAPTOR	EXTRACTOR
D25052K	3/4" SDS+ L-SHAPE ROTARY HAMMER		  <b>D25301D</b> Dust Extractor Telescope w/ Hose	DWV9130 AirLock™ Adaptor	  
D25133K	1" SDS+ PISTOL GRIP ROTARY HAMMER				
D25260K	7/8" – 1-1/8" SDS+ D-HANDLE ROTARY HAMMERS				
D25262K					
D25263K					
D25416K	1-1/8" SDS+ L-SHAPE ROTARY HAMMERS		DWH050K Large Hammer Drilling Dust Extraction		
D25413K					
D25313K	1" SDS+ L-SHAPE ROTARY HAMMERS		D25300DH Dust Extraction System with HEPA Filter		
D25323K					
D25324K					



SDS + DRILLING: CORDED



TOOL		ATTACHMENT	ADAPTOR	EXTRACTOR
DCH273	1" SDS+ L-SHAPE 20V MAX* ROTARY HAMMER		DWH303DH Dust Extraction System with HEPA Filter	
DCH293R2 <sup>1,2</sup>	1-1/8" SDS+ L-SHAPE 20V MAX* ROTARY HAMMER		DWH304DH Dust Extraction System with HEPA Filter	
DC212	7/8" SDS+ L-SHAPE 18V ROTARY HAMMER			
DCH133 <sup>3</sup>	1" SDS+ D-HANDLE 20V MAX* ROTARY HAMMER		D25301D Dust Extractor Telescope w/ Hose	





**BRUSHLESS  
MOTOR**

1" SDS + ROTARY  
HAMMER  
5/32" - 1/2" holes

**VIBRATION**

**SHOCKS** **2**  
YEAR FREE  
SERVICE

**OSHA COMPLIANT**  
1926.1153



**DEWALT**

**DCH273 1" BRUSHLESS SDS+ ROTARY HAMMER**





**BRUSHLESS  
MOTOR**

3.0J of impact energy delivers the power needed for chipping or drilling 1/4" – 3/4" holes.

**VIBRATION**

**SHOCKS** **2**  
YEAR FREE SERVICE

**OSHA COMPLIANT**  
1926.1153



**CONTROL**

**E-CLUTCH**

**DEWALT** DCH263 1-1/8" BRUSHLESS SDS + ROTARY HAMMER


















	<p>Worlds first box evacuator system for OSHA 1926.1153</p>
	
	<p>Table 1 Compliant with entire cordless system</p>
	

**DeWALT**

**DWH079 DUST BOX EVACUATOR**



TOOL			ATTACHMENT	ADAPTOR	EXTRACTOR
D25501K	<b>1-9/16" SDS MAX</b> COMBINATION HAMMER		<div>DWH050K Hammer Drilling Dust Extraction</div> 		
D25601K	<b>1-3/4" SDS MAX</b> COMBINATION HAMMERS				
D25603K					
D25723K	<b>1-7/8" SDS MAX</b> COMBINATION HAMMERS				
D25721K					
D25763K	<b>2" SDS MAX</b> COMBINATION HAMMERS				
D25761K					
D25553K	<b>1-9/16" SPLINE</b> COMBINATION HAMMER				
D25651K	<b>1-3/4" SPLINE</b> COMBINATION HAMMER				
					



See 'Appendix' for full system details

# SDS MAX & SPLINE DRILLING





**DEWALT**

DWH050K **HAMMER DUST EXTRACTOR**

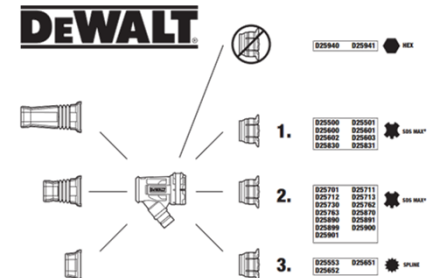


TOOL			ATTACHMENT	ADAPTOR	EXTRACTOR
D25831K	SDS MAX AND SPLINE CHIPPING HAMMERS			DWH053K Large Hammer Chipping Dust Extraction	
D25851K					
D25891K					
D25899K	SDS MAX AND 3/4" HEX DEMOLITION HAMMERS				
D25901K					
D25941K					
D25960K	1-1/8" HEX 40 LB DEMOLITION HAMMER			DWH052K Breaker Dust Extraction	
D25980K	1-1/8" HEX 68 LB LB BREAKER HAMMER				
D25980					



# CHIPPING & DEMOLITION














**DEWALT**

DWH052K BREAKER DUST EXTRACTOR





	Increased Drilling Speed
	Y-Cutter Carbide for exact positioning and maximum durability
	
	Wide range of sizes align to frequently uses rebar sizes

**DEWALT**





## DEWALT® SDS+ Hollow Drill Bits

	Diameter	Overall Length	Usable Length
DWA54038*	3/8"	14-1/2"	9-3/4"
DWA54012	1/2"	14-1/2"	9-3/4"
DWA54916	9/16"	14-1/2"	9-3/4"
DWA54058	5/8"	14-1/2"	9-3/4"
DWA54034	3/4"	14-1/2"	9-3/4"

## DEWALT® SDS Max Hollow Drill Bits

	Diameter	Overall Length	Usable Length
DWA58058	5/8"	23-3/4"	15-3/4"
DWA58958*		47-1/4"	39-3/8"
DWA58116*	11/16"	23-3/4"	15-3/4"
DWA58034	3/4"	23-3/4"	15-3/4"
DWA58934*		47-1/4"	39-3/8"
DWA58078	7/8"	23-3/4"	15-3/4"
DWA58978*		47-1/4"	39-3/8"
DWA58001	1"	23-3/4"	15-3/4"
DWA58901*		47-1/4"	39-3/8"
DWA58118	1-1/8"	23-3/4"	15-3/4"
DWA58918*		47-1/4"	39-3/8"
DWA58114*	1-1/4"	47-1/4"	39-3/8"
DWA58138*	1-3/8"	47-1/4"	39-3/8"
DWA58112*	1-1/2"	47-1/4"	39-3/8"





**DEWALT**

**SURFACE GRINDING PERFORMANCE**





DWE46152

DWE46170 / 2

### ROTATING DOOR

- Slides with detent for ease of use in inside corner and edging applications

### UNIQUE SPRING HINGE DESIGN

- High dust removal efficiency and gives a 'parked' position when fully open
- *No parts to get lost*
- *Door is either fully open or fully closed*
- *Spring applies pressure in closed position to seal door when closed*

### FLEXIBLE CONSTRUCTION

- Allows user to control the height of shroud by shifting more or less weight onto the handle

**DEWALT**

5" & 7" SURFACE GRINDING





**DEWALT**

5"- 6" TUCKPOINTING/CUTTING SHROUD







# DEWALT

**OSHA COMPLIANT**  
1910.1015

## DUST SOLUTIONS



Compliant Version available by June 2017

# ARE YOU COMPLIANT?

The Occupational Safety and Health Administration (OSHA) has issued a final rule to curb lung cancer, silicosis, chronic obstructive pulmonary disease and kidney disease in America's workers by limiting their exposure to respirable crystalline silica. This rule requires engineering controls to keep workers from breathing silica dust.



+



+



### TOOLS

Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.

- Read operator's manual provided with tool and accessories.
- To minimize dust emissions use recommended shroud or cowling and dust extractor

### ACCESSORIES AND SHROUDS

Use drill or grinder equipped with commercially available shroud or cowling with dust collection system.

- All DEWALT shrouds and dust collection systems are commercially available.

### DUST EXTRACTORS

Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency. Dust collector must have a cyclonic pre-separator or filter-cleaning mechanism. Cleaning/Drilling holes requires a vacuum with a HEPA filter.

- Both DWW010 and DWW012 provide the necessary airflow for drilling and hammering applications.
- Both DWW010 and DWW012 ship with dual HEPA filters, which have an efficiency of 99.97% of all particles greater than or equal to 0.3 microns.
- Both DWW010 and DWW012 have a timed automatic filter-cleaning mechanism.

**PERFORM PROTECT**

## YOUR FIRST LINE OF DEFENSE.

# DEWALT

The Occupational Safety and Health Administration (OSHA) has issued a final rule to curb lung cancer, silicosis, chronic obstructive pulmonary disease and kidney disease in America's workers by limiting their exposure to respirable crystalline silica. This rule requires engineering controls to keep workers from breathing silica dust.

**PERFORM PROTECT**

## OSHA COMPLIANT DRILLING

TOOL	ATTACHMENT / ADAPTER	EXTRACTOR
<b>SDS PLUS</b> <b>≤ 1-1/8"</b> 	<b>≤ 1-1/8"</b> 	
<b>SDS MAX</b> <b>1-1/8"</b> 	<b>1-1/8"</b> 	
<b>SDS MAX &amp; SPLINE DRILLING</b> 		
<b>CHIPPING &amp; DEMOLITION</b> 		

## OSHA COMPLIANT GRINDING

TOOL	ATTACHMENT / ADAPTER	EXTRACTOR





# Lanyard Ready™ Installation Program

- **Only Available on the Following Tools** (the Product team is testing other tools and hopes to expand in the future):
  - DCD991 • DCD792 • DCF894H
  - DCD996 • DCD797 • DCG413
  - DCF887 • DCD980 • DCL040
  - DCL043 • DCD740 • DCL050
  - DCD796 • DCF885
  - DCD791 • DCD997
- **Compatible only with the following batteries:** DB200, DCB201, DCB203, DCB204, DB204BT, DCB205, DCB205BT
- **Available for New Tool Retrofit or Existing Tool Replacement**

**DEWALT SERVICE**

## LANYARD READY™ INSTALLATION & REPAIR

**Tool Connection Point Kit Installation**  
Includes: Labor, (1) Tool Connection Point, (2) Battery Lanyard Connection Points with Carabiner, Required Installation Hardware  
**\$19<sup>99</sup>**

**Battery Connection Point Kit Installation**  
Includes: Labor, (1) Battery Lanyard Connection Point with Carabiner, Required Installation Hardware  
**\$9<sup>99</sup>**

SHOP FEES AND TAXES NOT INCLUDED

**INSTALLATION ONLY AVAILABLE FOR SELECT DEWALT TOOLS**  
ADDITIONAL TOOLS COMING SOON—ASK A DEWALT REPRESENTATIVE FOR THE MOST UP TO DATE OPTIONS.

DCD740	DCD792	DCD797	DCD991	DCF885	DCL043
DCD791	DCD796	DCD980	DCD996	DCF887	

**THE ADVANTAGE**

The integrated lanyard attachment point works with any multi-action carabiner

2-stage carabiner for a secure hold, yet can be un-hooked from attachment point to charge battery

The integrated lanyard strap has a lanyard that secures the battery to the tool

**LANYARD READY™**  
A PERFORM & PROTECT™ FEATURE

DeWalt™ LANYARD READY™ integrated solutions offer options to tether salvaged corded and cordless tools to rigid structures on jobsites when working at height with a maximum lanyard length of 2m, helping to secure the tool in case it is dropped.

Any permanent stretch to the attachment point exposing the red internal coils indicates it has been compromised and must be serviced prior to reuse.

Contact your local service center for more information.  
[www.DEWALT.com/support/find-a-service-center](http://www.DEWALT.com/support/find-a-service-center)

\*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.  
Terms and Conditions: Offer only available at participating DeWalt Service Center locations on purchases made 11/22/2016 through 12/31/2016, while supplies last. Amounts on flyer do not include taxes. Offer subject to change without notice.  
Copyright © 2016 DeWalt. The following are trademarks for one or more DeWalt power tools, accessories, anchors and concrete adhesives: The yellow and black color scheme, the "D" shaped air intake grille, the array of pyramids on the handle grip, the kit box configuration, and the array of orange-shaped bumps on the surface of the box.  
SM DBSC Lanyard Ready Install-Repair Flyer 110216 JMS/TOJ2016 15-988858







## Lanyard Ready™ Installation Program

New Lanyard:



Needs Replacement:



**DEWALT**





## New Products Features Detailed

User Protection



DEWALT – PERFORM & PROTECT™



Definition: Lanyard Ready™ integrated solutions to tether select corded and cordless tools to rigid structures when working at height with a maximum lanyard length of 2m, helping to secure the tool in case it is dropped



DWE46266N  
6" Trigger



DWE43265N  
6" Trigger



DWE43840CN  
7" Trigger



DWE43244N  
6" Paddle



DWE43214N  
4-1/2"-5" Paddle



DWE43214NVS  
4-1/2"-5" Paddle



All DEWALT corded Brushless grinders with NO LOCK ON are equipped with the Attachment Point (Lanyard Ready™)







# New Products Features Detailed

## User Protection



DEWALT – PERFORM & PROTECT™



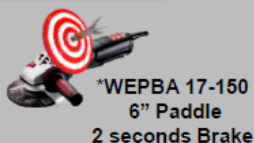
Definition : Brings wheel to a stop when the trigger is released

### Why DEWALT

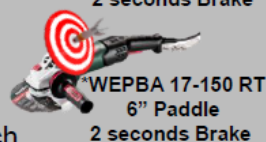
- Faster brake than Metabo  
(DWE43244N, DWE43265N and DWE46266N when used with DW8853 wheel vs. Metabo \*)
- DEWALT Patent Feature:  
kickback Brake = Brake + E-clutch
- DWE43231VS - Soft brake requested by stone users



DWE43231VS  
4-1/2"-5" Slide



\*WEPBA 17-150  
6" Paddle  
2 seconds Brake



\*WEPBA 17-150 RT  
6" Paddle  
2 seconds Brake



### 1 SECOND OR LESS\*



DWE43244N  
6" Paddle  
1 Second Brake



DWE43265N  
6" Paddle  
1 Second Brake



DWE46266N  
6" Paddle  
1 Second Brake



### 2 SECONDS OR LESS\*



DWE43214  
4-1/2"-5" Paddle  
2 Seconds Brake



DWE43214NVS  
4-1/2"-5" Paddle  
2 Seconds Brake



DWE43214N  
4-1/2"-5" Paddle  
2 Seconds Brake



DWE43240VS  
6" Slide  
2 Seconds Brake



DWE43240INOX  
6" Slide  
2 Seconds Brake



### 4 SECONDS OR LESS\*



DWE43840CN  
7" Rat Tail  
4 Seconds Brake



### FAST BRAKE



DWE46202  
6" Slide  
Fast Brake



DWE46253  
4-1/2" -5" Slide  
Fast Brake

\*1 sec.: On average when using manual brake with DW8853 wheel | \*4sec.: On average when using manual brake with DW8826 wheel

\*2 sec.: On average when using manual brake with DWA8914 wheel / DWE240VS and DWE240INOX on average when using manual brake with DW4624 wheel





## New Products Features Detailed

### User Protection



DEWALT – PERFORM & PROTECT™

#### E-CLUTCH

Definition: Shuts down the motor in less than a tenth of a second when a wheel pinch/stall event is detected, helping to minimize sudden torque reaction

#### KICKBACK BRAKE

Definition: Shuts down the motor and brings wheel to a stop when pinch/stall event is detected

In other words -> Both E-clutch and Brake are simultaneously activated - DEWALT Patent



All DEWALT Brushless grinders are equipped with E-clutch and Kickback Brake features





## Ease of Use

## DEWALT – USER INTERACTION

### WHEEL SIZE AND RPM EMBOSSMENTS ON GRINDER & GUARD(S)



### LED FEEDBACK Interacts with user informing current status of the tool or if there is any fault



Steady Green light:  
Indicate that the tool  
is plugged in and  
ready to be used



Steady or flashing  
Red light:  
Indicate that a fault  
happened –  
User/Tool Protection

### LED GUIDE – Red Blink Patterns

Problem	Solution
<p><b>Problem</b></p> <p>The switch is in the on position and power has been applied. The unit stayed off.</p>	<p><b>Solution</b></p> <p>Cycle the switch to restart.</p>
Problem	Solution
<p><b>Problem</b></p> <p>A pinch has been sensed by the tool and the kickback brake has activated.</p>	<p><b>Solution</b></p> <p>Inspect accessory for damage from pinch and replace if necessary. Adjust work piece and tool position as necessary and cycle switch to restart.</p>
Problem	Solution
<p><b>Problem</b></p> <p>The unit has shut down to prevent permanent damage due to overheating.</p>	<p><b>Solution</b></p> <p>Ensure intake and exhaust vents are not blocked by users hands, clothing or debris during use. Reduce frequency of feathering the tool on/off and cycle switch to restart and/or unplug the unit and then plug it back in.</p>
Problem	Solution
<p><b>Problem</b></p> <p>The unit has been in a stalled condition for an extended period and it has shut down.</p>	<p><b>Solution</b></p> <p>Remove load from tool and cycle the switch to restart.</p>
Problem	Solution
<p><b>Problem</b></p> <p>The unit is running on a poor quality power source like a low quality generator. This power may damage the tool.</p>	<p><b>Solution</b></p> <p>Try another power source, reduce extension cord length or reduce equipment used on the power source at one time.</p>



The Proto logo consists of the word "PROTO" in a bold, white, sans-serif font, centered within a red rectangular background. The red background has a black, stylized shape on either side of the text, resembling a bracket or a tool handle.

**PROTO**

The text "INDUSTRIAL TETHERED TOOLS" is displayed in a bold, white, sans-serif font. "INDUSTRIAL" is on the top line, and "TETHERED TOOLS" is on the bottom line. To the right of the text is a series of seven red, stylized arrow-like shapes pointing to the right.

**INDUSTRIAL  
TETHERED  
TOOLS**

The DeWalt logo features the word "DEWALT" in a bold, yellow, sans-serif font. The letters are outlined in black, and the entire logo is set against a dark background.

**DEWALT**



# SkyHook™ Tether & Transfer System

- Next generation safety technology
- Safer tool transfer at height
- Light and tight tether system
- Natural freedom of motion
- Tool accountability





# To Connect SkyHook™

- SkyHook™ Switch Connector
- SkyDock™ Attachment Point





# To Switch SkyHook™

- Just “Swipe to Switch”
- No hands required to transfer





# Positive Control At All Times

- First side doesn't unlock . . .
- . . . until second side locks





# How the Switch Works

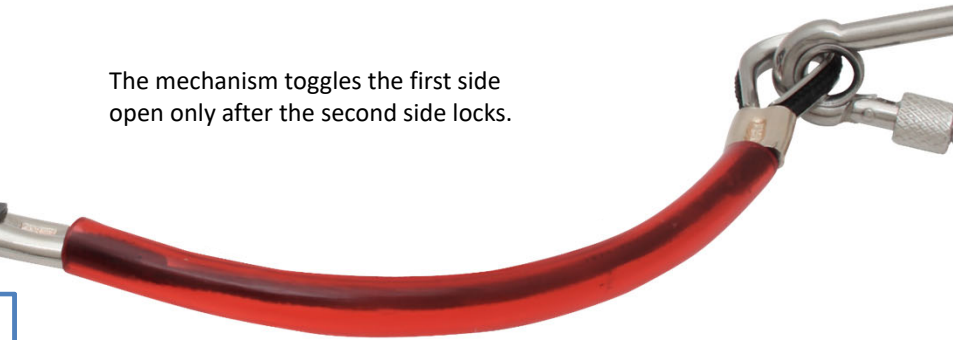
- The Release Mechanism



FIRST SIDE STAYS LOCKED



The mechanism toggles the first side open only after the second side locks.

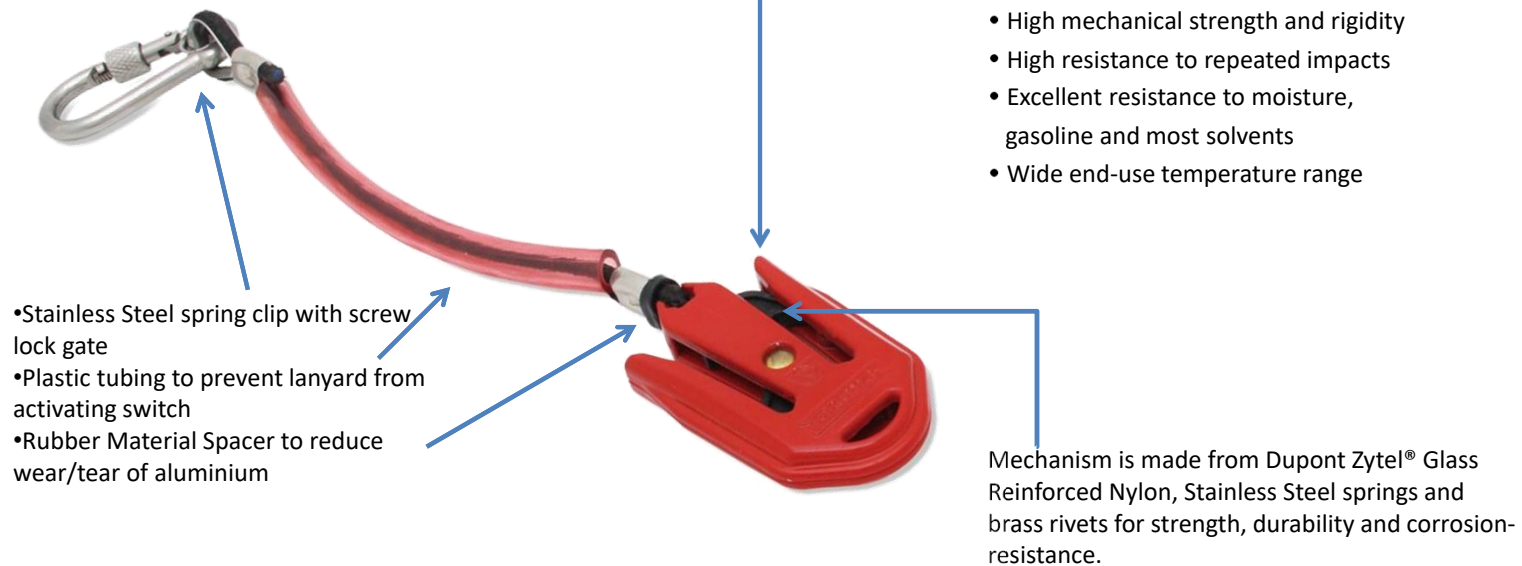


UNTIL A SECOND SKYDOCK™  
SLIDES INTO THE SECOND SIDE



# Light Yet Tough

- Inside SkyHook™





# Attachment Options

- SkyDock™ Attaches to Wrists, Belts, Aprons and Stations







THANK YOU