

# Complete ESD Safe Program

For working on  
static sensitive  
electronic  
components!



Static Dissipative

**Professional ESD Safe Tools**





## What is ESD?

### Basic Concepts in Electrostatic Discharge (ESD)

We have all seen static electricity in the form of lightning or perhaps felt the zap when reaching for a door knob. Similar types of electrical charges can have an effect on the electronic components you handle every day in your work. Unfortunately, their effect is much more hazardous and not as readily apparent.

### Definition

Static electricity is an electrical charge at rest. Static electricity is most commonly created by friction and separation. Friction causes heat which excites the molecular particles of the material. When two materials are then separated, a transfer of electrons from one material to the other may take place.

As electrons transfer, the absence or surplus of electrons creates an electrical field known as static electricity. The simple separation of two materials, as when tape is pulled off a roll, can also create this same transfer of electrons between materials, generating static electrical fields.

The amount of static electricity generated depends upon the materials subjected to friction or separation, the amount of friction or separation and the relative humidity of the environment. Common plastic generally will create the greatest static charge. Low humidity conditions such as those created when air is heated during the winter will also promote the generation of significant static electrical charges.

Materials that easily transfer electrons (or charge) between atoms are called conductors and are said to have "free" electrons. Some examples of conductors are metals, carbon and the human body's sweat layer. Materials that do not easily transfer electrons are called insulators. Some well known insulators are common plastics, glass and air. Both conductors and insulators may become "charged" with static electricity. When a conductor is charged, the free electrons give it the ability to discharge rapidly when it comes close to another conductor with a different potential.

### Typical Electrostatic Voltages

Many of the common activities you perform daily may generate charges on your body that are potentially harmful to components.

### Some of these activities include:

- Walking across a carpet, 1,500 to 35,000 volts
- Walking over untreated vinyl floor, 250 to 12,000 volts
- Worker at a bench, 700 to 6,000 volts
- Vinyl envelope used for work instructions, 600 to 7,000 volts
- Picking up a common plastic bag from a bench, 1,200 to 20,000 volts

### Costly Effects of ESD

When you feel a static shock, you are experiencing a minimum of 3,000 volts of electricity.

This "shock" known as Electro Static Discharge or ESD also may be responsible for damaging many of the rejected electronic components in your company.

While you can feel electrostatic discharges of 3,000 volts, smaller charges are below the threshold of human sensation. Unfortunately, smaller charges can and do damage semiconductor devices. Many of the CMOS technology components used in your facility can be damaged by charges of less than 1,000 volts. Some of the more sophisticated components can be damaged by charges as low as 10 volts. You should be aware of the relative sensitivity to ESD damage of devices you may be working with.

As electronic technology advances, electronic components tend to become smaller and smaller. As the size of the components is reduced, so is the microscopic spacing of insulators and circuits within them, increasing their sensitivity to ESD. As you can predict, the need of proper ESD protection increases everyday.

### Types of ESD Damage

This Article courtesy of Desco Industries, Inc

Static damage to components can take the form of upset failures or catastrophic failures.

- Upset failures - result in gate leakage
- Catastrophic failures - occur in two forms, Direct and Latent

Direct catastrophic failures occur when a component is damaged to the point where it is DEAD NOW and it will never again function. This is the easiest type of ESD damage to find since it usually can be detected during testing.

Latent failures occur when ESD weakens or wounds the component to the point where it will still function properly during testing, but over time the wounded component will cause poor system performance and eventually complete system failure. Because latent failures occur after final inspection or in the hands of your customer, the cost for repair is very high. Not only is this type of damage hard to find, but it severely affects the reputation of your company's product.




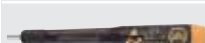

An upset failure occurs when an electrostatic discharge has caused a current flow that is not significant enough to cause total failure, but in use may intermittently result in gate leakage causing loss of software or incorrect storage of information.



Upset or latent failures may pass your company's quality control testing program. In other words, static damage may occur that cannot be felt, seen, or detected through normal testing procedures.

### Think of Static As Contamination!

Damage caused by invisible and undetectable events can be understood by comparing ESD damage to medical contamination of the human body by viruses or bacteria. Although viruses and bacteria are invisible, they can cause severe damage even before you can detect their presence. A defense against this invisible threat is sterilization.

As an employee, the hidden threat of electrostatic discharge or ESD should be of great concern to you. ESD damage can significantly reduce your company's profitability. This may affect your profit sharing, your company's ability to compete in the market place and even your employment. Everyone likes to take pride in their work, but without proper ESD controls, your best efforts may be destroyed by static electricity that you can neither feel nor see.

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**Precision ESD Safe Dissipative Drivers**

Wiha Precision ESD Static Dissipative Screwdrivers meet the requirements for tools used in static sensitive areas.



**Rotating cap** for precise turning & control with fingertip

**Molded Precision handle** of impact resistant dissipative material

**Tapered handle** allows rapid rotation

**Blade, CVM steel, hardened, hard chrome finish**

**Tip, precision ground for exact fit, Wiha Chromtop finish**

ESD Standard IEC 61340-5-1

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**272 Slotted Screwdriver, With Precision ESD Safe Dissipative**

**Handle** Blade high alloy chrome-vanadium-molybdenum steel. Hard chrome finished. Handle manufactured from impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item No.	mm	Inch	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.
27208	.8	1/32	40	1.6	0.16	.01	120	4.7	.02	10
27210	1.0	.039	40	1.6	0.18	.01	120	4.7	.02	10
27212	1.2	3/64	40	1.6	0.20	.01	120	4.7	.02	10
27215	1.5	1/16	40	1.6	0.25	.01	120	4.7	.02	10
27220	2.0	5/64	40	1.6	0.40	.02	120	4.7	.02	10
27222	2.0	5/64	75	3.0	0.40	.02	155	6.1	.03	10
27223	2.0	5/64	100	3.9	0.40	.02	180	7.1	.03	10
27224	2.0	5/64	150	5.9	0.40	.02	260	10.2	.04	10
27225	2.5	3/32	50	2.0	0.40	.02	145	5.7	.04	10
27227	2.5	3/32	100	3.9	0.40	.02	195	7.7	.03	10
27228	2.5	3/32	150	5.9	0.40	.02	245	9.6	.04	10
27230	3.0	1/8	50	2.0	0.50	.02	145	5.7	.04	10
27232	3.0	1/8	100	3.9	0.50	.02	210	8.3	.04	10
27234	3.0	1/8	150	5.9	0.50	.02	260	10.2	.05	10
27235	3.5	9/64	60	2.4	0.60	.02	170	6.7	.06	10
27237	3.5	9/64	100	3.9	0.60	.02	210	8.3	.06	10
27238	3.5	9/64	150	5.9	0.60	.02	260	10.2	.06	10
27240	4.0	5/32	60	2.4	0.80	.03	170	6.7	.06	10
27242	4.0	5/32	100	3.9	0.80	.03	210	8.3	.06	10
27243	4.0	5/32	150	5.9	0.80	.03	260	10.2	.07	10

\*Metric dimensions actual - Inch dimensions approximate



D



**27290 Set 8 Pcs. Slotted Precision ESD Safe Dissipative Handle**

Blade CVM steel, hardened, hard chrome. Handle impact resistant, dissipative material. In storage pouch. ESD standard IEC 61340-5-1

Item No.	mm	mm	mm	mm	lbs.		
27290	27208	.8	40	27220	2.0	40	.54
	27210	1.0	40	27225	2.5	50	
	27212	1.2	40	27230	3.0	50	
	27215	1.5	40	27235	3.5	60	



D



**27390 Set 7 Pcs. Slotted & Phillips Precision ESD Safe**

**Dissipative Handle** Blade high alloy CVM steel, hardened, hard chrome. Handle manufactured from impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item No.	mm	mm	Size	mm	lbs.		
27390	27215	1.5	40	27305	00	40	.30
	27220	2.0	40	27310	0	50	
	27225	2.5	50	27320	1	60	
	27235	3.5	60				

**Precision ESD Safe Slotted/Phillips Drivers**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**273** **Phillips Screwdriver, With Precision ESD Safe Dissipative Handle** Blade high alloy chrome-vanadium-molybdenum steel. Hard chrome finished. Handle manufactured from impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item No.	+	-	+	-	+	-	+	-	+	-	+	-
No.	Size	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.			
27302	000	40	1.6	2.0	.08	120	4.7	.02	10			
27305	00	40	1.6	2.0	.08	120	4.7	.02	10			
27307	00	75	3.0	2.0	.08	155	6.1	.02	10			
27310	0	50	2.0	3.0	.12	145	5.7	.04	10			
27312	0	75	3.0	3.0	.12	170	6.7	.03	10			
27314	0	100	3.9	3.0	.12	195	7.6	.05	10			
27316	0	150	5.9	3.0	.12	245	9.6	.06	10			
27320	1	60	2.3	4.0	.16	170	6.7	.06	10			
27322	1	75	3.0	4.0	.16	155	6.1	.06	10			
27324	1	100	3.9	4.0	.16	210	8.2	.06	10			
27326	1	150	5.9	4.0	.16	260	10.2	.07	10			

\*Metric dimensions actual - Inch dimensions approximate



**27393** **Set 7 Pcs. Extra Long Slotted/Phillips Precision ESD Safe Dissipative Handle** Blade CVM steel, hardened, hard chromed. Handle impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item No.	+	-	+	-	+	-	+	-
No.	Size	mm	mm	Size	mm	lbs.		
27393	27224	2.0	150	27316	0	150	.50	
	27228	2.5	150	27326	1	150		
	27234	3.0	150					
	27238	3.5	150					
	27243	4.0	150					



**27399** **Set 8 Pcs. Slotted & Phillips Precision ESD Safe Dissipative Handle** Blade high alloy CVM steel, hardened, hard chromed. Handle manufactured from impact resistant, dissipative material. In storage pouch. ESD standard IEC 61340-5-1

Item No.	+	-	+	-	+	-	
No.	Size	mm	mm	Size	mm	lbs.	
27399	27215	1.5	40	27302	000	40	.50
	27220	2.0	40	27305	00	40	
	27225	2.5	50	27310	0	50	
	27230	3.0	50	27320	1	60	



**91118** **Rugged Polyester Canvas Storage Pouch** Holds 8 Precision Tools up to 170mm in length. Folding pouch. Has security flaps and velcro closer.

Item No.	Size	lbs.	pkg.
91118	14 1/2" W x 7 3/4" L	.13	1

**Precision ESD Safe TORX® Drivers**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**278 TORX® Screwdriver, With Precision ESD Safe Dissipative**

**Handle** Blade high alloy CVM steel. Hard chrome finished. Handle impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item	☼	☼	☼	☼	☼	☼	☼
No.	Size	mm	Inch	mm	Inch	lbs.	pkg.
27801	T1	40	1.6	120	4.7	.03	10
27802	T2	40	1.6	120	4.7	.03	10
27803	T3	40	1.6	120	4.7	.03	10
27804	T4	40	1.6	120	4.7	.03	10
27805	T5	40	1.6	120	4.7	.03	10
27811	T6	40	1.6	120	4.7	.03	10
27817	T7	40	1.6	120	4.7	.03	10
27823	T8	40	1.6	120	4.7	.03	10
27829	T9	50	2.0	145	5.7	.04	10
27835	T10	50	2.0	145	5.7	.04	10
27841	T15	60	2.4	170	6.7	.07	10
27847	T20	60	2.4	170	6.7	.07	10

\*Metric dimensions actual - Inch dimensions approximate



ESD standard  
IEC 61340-5-1



**27890 Set 7 Pcs. TORX® Precision ESD Safe Dissipative Handle**

Blade high alloy CVM steel, hardened, hard chromed. Handle manufactured from impact resistant, dissipative material.

Item	☼	☼	☼	☼	☼	☼	
No.	Size	mm	Size	mm	lbs.		
27890	27804	T4	40	27823	T8	40	.31
	27805	T5	40	27829	T9	50	
	27811	T6	40	27835	T10	50	
	27817	T7	40				



ESD standard  
IEC 61340-5-1



**27899 Set 8 Pcs. TORX® Precision ESD Safe Dissipative Handle**

**Set In Pouch** Blade high alloy CVM steel, hardened, hard chromed. Handle impact resistant, dissipative material.

Item	☼	☼	☼	☼	☼	☼	
No.	Size	mm	Size	mm	lbs.		
27899	27801	T1	40	27805	T5	40	.47
	27802	T2	40	27806	T6	40	
	27803	T3	40	27807	T7	40	
	27804	T4	40	27920	Chip Lifter		

**Precision ESD Safe TORXPlus® Drivers**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**278 TORXPlus® Screwdriver, With Precision ESD Safe Dissipative**

**Handle** Blade high alloy CVM steel, hardened, hard chromed. Handle impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item	☼	☼	☼	☼	☼	☼	☼
No.	Size	mm	Inch	mm	Inch	lbs.	pkg.
27850	IP4	40	1.6	120	4.7	.03	10
27851	IP5	40	1.6	120	4.7	.03	10
27852	IP6	40	1.6	120	4.7	.03	10
27853	IP7	40	1.6	120	4.7	.03	10
27854	IP8	40	1.6	120	4.7	.03	10
27855	IP9	50	2.0	145	5.7	.04	10
27856	IP10	50	2.0	145	5.7	.04	10
27857	IP15	60	2.4	170	6.7	.07	10

\*Metric dimensions actual - Inch dimensions approximate



ESD standard  
IEC 61340-5-1



**27894 Set 7 Pcs. TORXPlus® Precision ESD Safe Dissipative**

**Handle** Blade high alloy CVM steel, hardened, hard chromed.

Item	☼	☼	☼	☼	☼	☼	
No.	Size	mm	Size	mm	lbs.		
27894	27851	IP5	40	27855	IP9	50	.27
	27852	IP6	40	27856	IP10	50	
	27853	IP7	40	27857	IP15	60	
	27854	IP8	40				

**Wiha Precision ESD Safe Hex Drivers**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**275 Metric Hex Driver, With Precision ESD Safe Dissipative**

**Handle** Blade high alloy chrome-vanadium-molybdenum steel. Hard chrome finished. Handle manufactured from impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item	Hex	Blade	Blade	Blade	Blade	Blade	Blade
No.	mm	mm	Inch	mm	Inch	lbs.	pkg.
27507	.71	40	1.6	120	4.7	.02	10
27509	.89	40	1.6	120	4.7	.02	10
27513	1.27	40	1.6	120	4.7	.03	10
27515	1.5	50	2.0	145	5.7	.03	10
27520	2.0	50	2.0	145	5.7	.04	10
27525	2.5	60	2.4	170	6.7	.05	10
27530	3.0	60	2.4	170	6.7	.05	10
27535	4.0	60	2.4	170	6.7	.05	10

\*Metric dimensions actual - Inch dimensions approximate



**275 Inch Hex Driver, With Precision ESD Safe Dissipative**

**Handle** Blade high alloy chrome-vanadium-molybdenum steel. Hard chrome finished. Handle manufactured from impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item	Hex	Blade	Blade	Blade	Blade	Blade	Blade
No.	Inch	mm	Inch	mm	Inch	lbs.	pkg.
27505	.028	40	1.6	120	4.7	.02	10
27510	.035	40	1.6	120	4.7	.02	10
27513	.050	40	1.6	120	4.7	.02	10
27537	1/16	50	2.0	145	5.7	.03	10
27539	5/64	50	2.0	145	5.7	.03	10
27541	3/32	60	2.4	170	6.7	.04	10
27543	7/64	60	2.4	170	6.7	.04	10
27545	1/8	60	2.4	170	6.7	.04	10
27547	9/64	60	2.4	170	6.7	.05	10
27549	5/32	60	2.4	170	6.7	.05	10

\*Metric dimensions actual - Inch dimensions approximate



ESD standard IEC 61340-5-1



**27590 Set 8 Pcs. Hex Metric Precision ESD Safe Dissipative**

**Handle** Blade CVM steel, hardened, hard chromed. Handle impact resistant, dissipative material. In storage pouch

Item	Hex	Blade	Blade	Blade	Blade	Blade	Blade
No.	mm	mm	mm	mm	mm	lbs.	
27590	27507	.71	40	27520	2.0	50	.53
	27509	.89	40	27525	2.5	60	
	27513	1.27	40	27530	3.0	60	
	27515	1.5	50	27535	4.0	60	



ESD standard IEC 61340-5-1



**27591 Set 8 Pcs. Hex Inch Precision ESD Safe Dissipative**

**Handle** Blade CVM steel, hardened, hard chromed. Handle impact resistant, dissipative material. In storage pouch

Item	Hex	Blade	Blade	Blade	Blade	Blade	Blade
No.	Inch	Inch	Inch	Inch	Inch	lbs.	
27591	27513	.050	1.6	27543	7/64	2.4	.57
	27537	1/16	2.0	27545	1/8	2.4	
	27539	5/64	2.0	27547	9/64	2.4	
	27541	3/32	2.4	27549	5/32	2.4	



**91118 Rugged Polyester Canvas Storage Pouch**

Holds 8 Precision Tools up to 170mm in length. Folding pouch. Has security flaps and velcro closer.

Item	Size	Blade	Blade
No.	Size	lbs.	pkg.
91118	14 1/2" W x 7 3/4" L	.13	1











**Wiha Precision ESD Safe Nut Drivers**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**277 Inch Nut Driver, With Precision ESD Safe Dissipative**

**Handle** Blade high alloy chrome-vanadium-molybdenum steel. Hard chrome finished. Handle manufactured from impact resistant, dissipative material. ESD standard IEC 61340-5-1











Item No.										
	Inch	mm	Inch	mm	Inch	Inch	Inch	lbs.	pkg.	
27701	3/32	60	2.4	155	6.1	.16	.16	.04	10	
27703	7/64	60	2.4	155	6.1	.20	.20	.05	10	
27705	1/8	60	2.4	155	6.1	.20	.20	.05	10	
27707	9/64	60	2.4	155	6.1	.21	.24	.05	10	
27709	5/32	60	2.4	155	6.1	.22	.24	.05	10	
27711	3/16	60	2.4	155	6.1	.25	.28	.05	10	
27713	7/32	60	2.4	170	6.7	.30	.32	.06	10	
27715	1/4	60	2.4	170	6.7	.34	.36	.06	10	

\*Metric dimensions actual - Inch dimensions approximate



**277 Metric Nut Driver, With Precision ESD Safe Dissipative**

**Handle** Blade high alloy chrome-vanadium-molybdenum steel. Hard chromed finished. Handle manufactured from impact resistant, dissipative material. ESD standard IEC 61340-5-1

Item No.										
	mm	mm	Inch	mm	Inch	Inch	Inch	lbs.	pkg.	
27720	1.5	60	2.4	140	5.5	2.5	3.0	.03	10	
27722	2.0	60	2.4	140	5.5	3.2	4.0	.04	10	
27725	2.5	60	2.4	140	5.5	4.0	4.0	.05	10	
27730	3.0	60	2.4	155	6.1	5.0	5.0	.06	10	
27735	3.5	60	2.4	155	6.1	5.3	6.0	.06	10	
27740	4.0	60	2.4	155	6.1	5.5	6.0	.06	10	
27745	4.5	60	2.4	155	6.1	6.2	7.0	.05	10	
27750	5.0	60	2.4	155	6.1	6.8	7.0	.06	10	
27755	5.5	60	2.4	170	6.7	7.6	8.0	.07	10	
27760	6.0	60	2.4	170	6.7	9.6	10.0	.06	10	

\*Metric dimensions actual - Inch dimensions approximate











ESD standard IEC 61340-5-1



**27791 Set 8 Pcs. Inch Nut Driver Precision ESD Safe Dissipative**

**Handle** Blade CVM steel, hardened, hard chromed. Handle impact resistant, dissipative material. In storage pouch

Item No.								
	Inch	mm	Inch	mm	lbs.			
27791	27701	3/32	60	27709	5/32	60	.68	
	27703	7/64	60	27711	3/16	60		
	27705	1/8	60	27713	7/32	60		
	27707	9/64	60	27715	1/4	60		











ESD standard IEC 61340-5-1



**27790 Set 8 Pcs. Metric Nut Driver Precision ESD Safe**

**Dissipative Handle** Blade CVM steel, hardened, hard chromed. Handle impact resistant, dissipative material. In storage pouch

Item No.								
	mm	mm	mm	mm	lbs.			
27790	27720	1.5	60	27735	3.5	60	.63	
	27722	2.0	60	27740	4.0	60		
	27725	2.5	60	27750	5.0	60		
	27730	3.0	60	27755	5.5	60		



**Wiha Precision ESD Safe Chip Lifter**

Surface resistance of handles is  $10^6 - 10^9$  Ohms



**27920 Precision Chip Lifter - ESD Safe**

Blade CVM steel, hardened, corrosion resistant finish. Precision handle high quality plastic, Dissipative material.

Item	mm	mm	mm	mm	Inch	lbs.	pkg.
No.	1	3.5	50	145	5.7	.07	1
27920	ESD Safe dissipative handle						

**ESD standard IEC 61340-5-1**

Surface resistance of handles is  $10^6 - 10^9$  Ohms

**92092 Master Technicians Bench Top Set**

Metal frame. Equipped with 50 precision ESD Safe screwdrivers.

Item No.	
92092	Slotted: .8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm Phillips: #000, #00, #0, #1
	<b>TORX</b> : T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T15, T20
lbs. 2.25	Metric Hex: .71, .89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm Inch Hex: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"
	Metric Nut Drivers: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5mm
	27920 Chip Lifter



**91118 Rugged Polyester Canvas Storage Pouch**

Holds 8 Precision Tools up to 170mm in length. Folding pouch. Has security flaps and velcro closer.

Item			
No.	Size	lbs.	pkg.
91118	14 1/2" W x 7 3/4" L	.13	1

**Wiha Precision Ceramic**

**Handles** are anti-static  
**Blades** antimagnetic

**Rotating cap** facilitates adjusting and holding of the tools

**Free of contamination,** suited for working in clean-rooms

**Blade** High thermic and electric insulation

**Precision handle** high quality plastic, cadmium free

Surface resistance of handles is  $10^6 - 10^9$  Ohms



**270 Ceramic Slotted Screwdriver, With Wiha-Precision Handle, Out of Anti-static Plastic**

Blade special ceramic, antimagnetic, for correct adjusting in high frequency areas.

Item	mm	Inch	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.
No.	mm	Inch	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.
27009	0.9	.035	15	.59	0.35	.01	94.5	3.7	.14	1
27013	1.3	.050	15	.59	0.35	.01	94.5	3.7	.14	1
27018	1.8	.071	15	.59	0.35	.02	94.5	3.7	.14	1
27026	2.6	.102	15	.59	0.35	.02	94.5	3.7	.14	1

\*Metric dimensions actual - Inch dimensions approximate



**27100 Ceramic Phillips Screwdriver, With Wiha-Precision Handle, Out of Anti-static Plastic**

Blade special ceramic, antimagnetic, for correct adjusting in high frequency areas.

Item	Size	mm	Inch	mm	Inch	lbs.	pkg.
No.	Size	mm	Inch	mm	Inch	lbs.	pkg.
27100	0	15.0	.59	94.5	3.7	.14	1

\*Metric dimensions actual - Inch dimensions approximate



**27090 Ceramic Slotted/Phillips Screwdriver 3 Pc. Set, With Wiha-Precision Handle, Out of Anti-static Plastic**

Blade special ceramic, antimagnetic, for correct adjusting in high frequency areas.

Item	mm	mm	Size	mm	lbs.	pkg.
No.	mm	mm	Size	mm	lbs.	pkg.
27090	0.9	15	0	15	.28	1
	2.6	15				

**Wiha SYSTEM 4 Precision Handles and Blades**

**Tips**  
Exact fit, precision machined

**Blades**  
chrome-vanadium-molybdenum steel, hardened, hard chromed. On 4mm Hex shafts

**Precision Handle**  
high quality plastic, ESD Safe or Standard styles

**Rotating Cap**  
for precise turning and control

**Tapered Handle**  
allows rapid rotation, requires less clearance

**Collet Lock Handle**  
adjustable blade length from 15 to 95mm / .6" to 3.75"

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**28000 ESD Safe Dissipative Precision Handle** with rotating control cap. Surface resistant 10<sup>6</sup>-10<sup>9</sup> Ohms. 4 mm hex retainer for all SYSTEM 4 interchangeable blades. Tapered handle, high quality plastic, impact resistant. Ball retainer hold. 110mm/4.3" OAL

Item					
No.	mm	Inch	mm	Inch	lbs.
28000	4.0	.1574	14.0	.55	.04



**28001 ESD Safe Dissipative Precision Adjustable Handle** with rotating control cap. **Advantages:**

- Use in ESD sensitive applications. Surface resistant 10<sup>6</sup>-10<sup>9</sup> Ohms.
- Collet lock allows for quick & easy adjustment.
- Holds blade securely in place. Accepts all SYSTEM 4 blades. 110mm/4.3" OAL

Item					
No.	mm	Inch	mm	Inch	lbs.
28001	4.0	.1574	14.0	.55	.04



**269 SYSTEM 4 Slotted Reversible Blade** High alloy CVM steel, hardened, hard chromed. Wiha vapor Chrome-Top finish on tips.

Item					
No.	mm	mm	mm	Inch	lbs.
26903	1.5 + 3.0	120	4.7	.05	
26904	2.0 + 3.5	120	4.7	.05	
26905	2.5 + 4.0	120	4.7	.06	



**269 SYSTEM 4 Combined Slotted/Phillips Reversible Blade** High alloy CVM steel, hardened, hard chromed. Wiha vapor Chrome-Top finish on tips.

Item					
No.	mm	Size	mm	Inch	lbs.
26971	1.5+ 000	000	120	4.7	.05
26972	2.0+ 00	00	120	4.7	.05
26973	3.0+ 0	0	120	4.7	.05
26974	4.0+ 1	1	120	4.7	.06



**269 SYSTEM 4 Phillips Reversible Blade** High alloy CVM steel, hardened, hard chromed. Wiha vapor Chrome-Top finish on tips.

Item					
No.	Size	Size	mm	Inch	lbs.
26911	000 + 00	00	120	4.7	.03
26912	0 + 1	1	120	4.7	.03



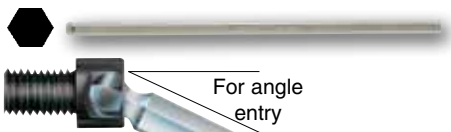
**26922 SYSTEM 4 Pozidriv Reversible Blade** High alloy CVM steel, hardened, hard chromed. Wiha vapor Chrome-Top finish on tips.

Item					
No.	Size	Size	mm	Inch	lbs.
26922	0 + 1	1	120	4.7	.03



**269 SYS 4 Metric Ball End & Standard Hex, Reversible Blade** CVM steel, hardened, hard chromed. Wiha vapor Chrome-Top finish on tips. One side hex, other side ballpoint hex.

Item					
No.	mm	mm	mm	Inch	lbs.
26932	1.27 + 1.27	120	4.7	.05	
26933	1.5 + 1.5	120	4.7	.05	
26934	2.0 + 2.0	120	4.7	.06	
26935	2.5 + 2.5	120	4.7	.06	
26936	3.0 + 3.0	120	4.7	.06	
26937	4.0 + 4.0	120	4.7	.06	



**280 SYSTEM 4 Metric Ball End Hex Interchangeable Blade** High alloy tool steel, hardened, corrosion protected. Ball end works at 30° angle entry for easy access to fasteners.

Item					
No.	mm	mm	Inch	lbs.	pkg.
28033	1.5	120	4.7	.06	1
28034	2.0	120	4.7	.06	1
28035	2.5	120	4.7	.06	1
28036	3.0	120	4.7	.06	1
28037	4.0	120	4.7	.06	1



**280 SYSTEM 4 Inch Ball End Hex Interchangeable Blade** High alloy tool steel, hardened, corrosion protected. Ball end works at 30° angle entry for easy access to fasteners.

Item				
No.	Inch	mm	Inch	lbs.
28021	.050	120	4.7	.06
28023	1/16	120	4.7	.06
28024	5/64	120	4.7	.06
28025	3/32	120	4.7	.06
28026	7/64	120	4.7	.06
28027	1/8	120	4.7	.06
28028	9/64	120	4.7	.06
28029	5/32	120	4.7	.06

**Wiha SYSTEM 4 Precision Blades**



**269 SYSTEM 4 Metric Hex Sizes, Interchangeable Blade** High alloy CVM steel, hardened, corrosion protected.

Item						
No.	mm	mm	Inch	Inch	lbs.	
26913	.71	120	4.7	.06		
26914	.89	120	4.7	.06		
26915	1.27	120	4.7	.06		
26916	1.5	120	4.7	.06		
26917	2.0	120	4.7	.06		
26918	2.5	120	4.7	.06		
26919	3.0	120	4.7	.06		
26920	4.0	120	4.7	.06		



**269 SYSTEM 4 Inch Hex Sizes, Interchangeable Blade** High alloy chrome-vanadium-molybdenum steel, hardened, corrosion protected.

Item					
No.	Inch	mm	Inch	lbs.	
26921	.050	120	4.7	.06	
26923	1/16	120	4.7	.06	
26924	5/64	120	4.7	.06	
26925	3/32	120	4.7	.06	
26926	7/64	120	4.7	.06	
26927	1/8	120	4.7	.06	
26928	9/64	120	4.7	.06	
26929	5/32	120	4.7	.06	



**269 SYSTEM 4 Nut Driver Metric, Interchangeable Blade** High alloy chrome-vanadium-molybdenum steel, hardened, corrosion protected. 120mm/4.7" OAL

Item						
No.	mm	mm	Inch	Inch	lbs.	
26940	1.5+1.8	.12	.12	.03		
26941	2.0+2.5	.16	.16	.03		
26938	1.5-	.11	.11	.04		
26939	1.8-	.12	.12	.04		
26949	2.0-	.13	.13	.06		
26950	2.5-	.16	.16	.06		
26942	3.0-	.20	.20	.06		
26943	3.2-	.20	.20	.06		
26944	3.5-	.22	.24	.06		
26945	4.0-	.22	.24	.06		
26946	4.5-	.25	.28	.06		
26947	5.0-	.27	.28	.06		
26948	5.5-	.30	.32	.06		



**269 SYSTEM 4 Nut Driver Inch, Interchangeable Blade** High alloy chrome-vanadium-molybdenum steel, hardened, corrosion protected. 120mm/4.7" OAL

Item						
No.	Inch	Inch	Inch	lbs.		
26962	3/32	.16	.16	.04		
26963	7/64	.20	.20	.04		
26964	1/8	.20	.20	.04		
26965	9/64	.21	.24	.04		
26966	5/32	.22	.24	.04		
26967	3/16	.26	.28	.04		
26968	7/32	.30	.32	.04		
26969	1/4	1.34	.36	.04		



**269 SYSTEM 4 TORX® Reversible Blade** High alloy chrome-vanadium-molybdenum steel, hardened, vapor chrome protected, Wiha vapor Chrome-Top finish on tips. 120mm/4.7" OAL.

Item			
No.	Size	Size	lbs.
26951	T6 + T8	.03	
26952	T7 + T9	.03	
26953	T10 + T15	.03	
26954	T15 + T20	.03	



**269 SYSTEM 4 TORX® Interchangeable Blade** High alloy CVM steel, hardened, Wiha vapor Chrome-Top finish on tips. 120mm/4.7" OAL

Item		
No.	Size	lbs.
26955	T3	.03
26956	T4	.03
26957	T5	.03

**Wiha SYSTEM 4 Drive-Loc Precision Locking Tools**



**26961 ESD Safe Dissipative Precision Drive-Loc Handle** Surface resistant 10<sup>6</sup>-10<sup>9</sup> Ohms. 4 mm hex retainer for all SYSTEM 4 interchangeable blades. Ball retainer hold. 105mm/4.13" OAL

Item					
No.	mm	Inch	mm	Inch	lbs.
26961	4.0	.1574	23	.91	.08



**269 SYSTEM 4 Slotted Drive-Loc Reversible Locking Blades** On 4mm Hex

Item			
No.	mm	mm	lbs.
26958	1.5 + 3.0	.02	
26959	2.0 + 3.5	.02	
26960	2.5 + 4.0	.02	



**269 SYSTEM 4 Phillips Drive-Loc Reversible Locking Blades** On 4mm Hex

Item			
No.	Size	Size	lbs.
26975	000 + 00	.02	
26976	0 + 1	.02	



**269 SYSTEM 4 TORX® Drive-Loc Reversible Locking Blades** On 4mm Hex

Item			
No.	Size	Size	lbs.
26977	T1 + T2	.02	
26978	T3 + T4	.02	
26979	T5 + T6	.02	
26980	T6 + T8	.02	
26981	T7 + T9	.02	
26982	T10 + T15	.02	

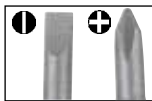


**26985 12 Piece SYSTEM 4 Precision ESD Drive-Loc Set** In storage pouch

Item No.	Description
26985	<b>ESD Safe Drive-Loc Handle</b>
	<b>Slotted:</b> 1.5x3.0, 2.0x3.5, 2.5x4.0 lbs. .44
	<b>Phillips:</b> 000x00, 0x1
	<b>TORX®:</b> T1xT2, T3xT4, T5xT6, T6xT8, T7xT9, T10xT15


**Wiha Canvas Pouch Sets**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



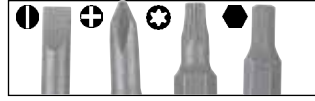
**26990** Slotted & Phillips Precision Interchangeable Blade Set, 4 Pcs. Wiha ESD Safe  precision collet lock handle and 3 Wiha interchangeable blades.

**26990** Set includes the following blades:

↓  Slotted: 2.0, 3.0, 4.0mm


⊕ Phillips: 00, 0, 1

↔ lbs. .17



**28080** Slotted, Phillips TORX® & Hex Precision Interchangeable Blade Set, 22 Pcs. Wiha ESD Safe  precision collet lock handle and 20 Wiha interchangeable blades.

**28080** Set includes the following blades:

↓  Slotted: 1.5, 2.0, 3.0, 4.0mm

⊕ Phillips: 000, 00, 0, 1

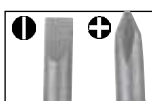
⊗ TORX®: T3, T4, T5, T6, T7, T8, T9, T10, T15

⬢ Hex: .028, .035

⬢ Ball Hex: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"


ESD Safe Chip Lifter

↔ lbs. .33



**26991** Slotted & Phillips Precision Interchangeable Blade Set, 6 Pcs. Wiha ESD Safe  precision collet lock handle and 5 Wiha interchangeable blades. In canvas pouch.

**26991** Set includes the following blades:

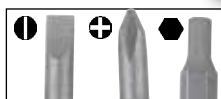
↓  Slotted: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm


⊕ Phillips: 000, 00, 0, 1

↔ lbs. .29




Slotted, Phillips, Hex



**26992** Slotted, Phillips and Ball End Hex Metric/Inch Precision Interchangeable Blade Set, 17 Pcs. Wiha ESD Safe  precision collet lock handle and 15 Wiha interchangeable blades.

**26992** Set include the following blades:

↓  Slotted: 1.5, 2.0, 3.0, 4.0mm

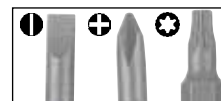
⊕ Phillips: 000, 00, 0, 1

⬢ Ball End Hex Inch: .050, 1/16, 5/64, 7/64, 3/32, 1/8"

⬢ Ball End Hex Metric: 1.5, 2.0, 2.5, 3.0, 4.0mm


ESD Safe Chip Lifter

↔ lbs. .63



**44590** Slotted, Phillips and TORX® Precision Interchangeable Blade Set, 12 Pcs. Wiha ESD Safe  precision collet lock handle, 7 Wiha interchangeable blades & 4 ESD Safe Tweezers.

**44590** Set includes the following blades:

↓  Slotted: 2.0, 3.0, 4.0mm

⊕ Phillips: 00, 0, 1

⊗ TORX®: T6, T7, T8, T9, T10, T15

ESD Safe Precision Tweezers:

44501 Fine Point - AA SA

44509 Extra Fine Point - 5 SA

44505 Flat and Blunt - 2a SA

44510 Curved Fine Point - 7a SA

↔ lbs. .60

**Slotted, Phillips, Torx® Set In Steel Box**



Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**28094** Slotted, Phillips & Torx® Precision Interchangeable Blade Set, 11 Pcs. Wiha ESD Safe  precision collet lock handle and 10 Wiha interchangeable blades.

**28094** Set includes the following blades:

↓  Slotted: 1.5, 2.0, 3.0, 4.0mm

⊕ Phillips: 000, 00, 0, 1

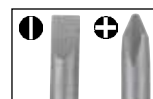
⊗ TORX®: T3, T4, T5, T6, T7, T8, T9, T10, T15


↔ lbs. 1.51

**Slotted & Phillips Set In Steel Box**




Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**26993** Slotted & Phillips Precision Interchangeable Blade Set, 6 Pcs. Wiha ESD Safe  precision collet lock handle and 5 Wiha interchangeable blades.

**26993** Set includes the following blades:

↓  Slotted: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm

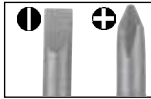
⊕ Phillips: 000, 00, 0, 1

↔ lbs. .87

**SYSTEM 4 Sets in Compact Fold-out box**



- ESD Safe Precision Handle  
Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms
- High alloy CVM steel, hardened
- Exact fit tips



**26996 Slotted & Phillips Precision Interchangeable Blade Set, 5 Pcs.** Wiha ESD Safe precision collet lock handle and 4 Wiha interchangeable blades.

**26996 Set includes the following reversible blades in Slotted/Phillips sizes:**

- ↓ ↻ **Slotted:** 1.5, 2.0, 3.0, 3.5mm
- ↻ ↻ **Phillips:** 000, 00, 0, 1

↻ **lbs. .24**



**26997 Slotted, Phillips and TORX® Precision Interchangeable Blade Set, 9 Pcs.** Wiha ESD Safe Precision Collet Lock handle and 8 Wiha Interchangeable blades.

**26997 Set includes the following blades:**

- ↓ ↻ **Slotted:** 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm
- ↻ ↻ **Phillips:** 000, 00, 0, 1
- ↻ **TORX®:** T6, T7, T8, T9, T10, T15

↻ **lbs. .34**



**26999 Hex Metric Precision Blade Set, 9 Pcs.** Wiha ESD Safe Precision Collet Lock handle and 8 Wiha interchangeable blades.

**26999 Set includes the following blades:**

- ⬠ **Hex Metric:** .71, .89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm

↻ **lbs. .36**



**26989 Hex Inch Precision Blade Set, 9 Pcs.** Wiha ESD Safe Precision Collet Lock handle and 8 Wiha interchangeable blades.

**26989 Set includes the following blades:**

- ⬠ **Hex Inch:** .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"

↻ **lbs. .35**



**26988 Nut Driver Inch Precision Blade Set, 9 Pcs.** Wiha ESD Safe precision collet lock handle & 8 Wiha interchangeable blades.

**26988 Set includes the following blades:**

- **Nut Driver Inch:**  
3/32, 7/64, 1/8, 9/64, 5/32,  
3/16, 7/32, 1/4"

↻ **lbs. .39**



**26998 Nut Driver Metric Precision Blade Set, 9 Pcs.** Wiha ESD Safe precision collet lock handle and 8 Wiha interchangeable blades.

**26998 Set includes the following blades:**

- **Nut Driver Metric:**  
2.0, 2.5, 3.0, 3.2, 3.5, 4.0,  
4.5, 5.0, 5.5mm

↻ **lbs. .40**



**26995 TORX® Precision Interchangeable Blade Set, 5 Pcs.** Wiha ESD Safe precision collet lock handle & 4 interchangeable blades.

**26995 Set includes the following blades:**

- ⊕ **TORX®:**  
T6, T7, T8, T9, T10, T15, T20

↻ **lbs. .24**



**26987 TORX® Precision Interchangeable Blade Set, 8 Pcs.** Wiha ESD Safe precision collet lock handle and 7 interchangeable blades.

**26987 Set includes the following blades:**

- ⊕ **TORX® Sizes on standard blades:**  
T3, T4, T5
- ⊕ **TORX® Sizes on reversible blades:**  
T6, T7, T8, T9, T10, T15, T20

↻ **lbs. .33**



**Micro Bit 1/4" Drive Power Tool Adapter**



**75902 SYSTEM 4 Micro Bit 1/4" Drive Power Tool Adapter**

Shaft CVM steel, hardened, corrosion protected. 1/4" Hex drive holds 4 mm bits. Without magnet

Item	Hex	Slotted	Phillips	TORX
No.	Size	mm	mm	lbs.
75902	1/4"	60	4.0	.05

**Wiha SYS 4 Micro Bits & Compact Bit Sets**

**75996 SYSTEM 4 Interchangeable Bit Set, 40 Pcs. In Storage Box.**

Set includes Wiha precision handle, non-magnetic bit extension & 38 interchangeable bits.

**Item No. SYSTEM 4 Combination Micro Bit Set 75996** Set with ESD Safe Precision Handle

Set includes the following bits:

Slotted: 0.8, 1.2, 1.5, 1.8, 2.0, 2.5, 3.0, 3.5, 4.0mm

Phillips: 000, 00, 0, 1

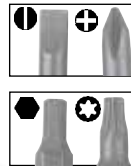
TORX: T3, T4, T5, T6, T7, T8, T9, T10, T15

Hex Metric: 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm

Hex Inch: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"

100mm Bit Extension - non-magnetic lbs. 1.04

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms



40 Pc. Set

**75990 40 Pc. SYSTEM 4 Interchangeable Bit Set, In Canvas Pouch**

Set includes Wiha precision handle, non-magnetic bit extension & 38 interchangeable bits.

**Item SYSTEM 4 Combination No. Micro Bit Set 75990** Set with ESD Safe Precision Handle

Set includes the following bits:

Slotted: 0.8, 1.2, 1.5, 1.8, 2.0, 2.5, 3.0, 3.5, 4.0mm

Phillips: 000, 00, 0, 1

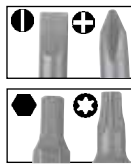
TORX: T3, T4, T5, T6, T7, T8, T9, T10, T15

Hex Metric: 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm

Hex Inch: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"

100mm Bit Extension - non-magnetic lbs. .65

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms



40 Pc. Set

**75792 SYSTEM 4 TORX® Precision Interchangeable Bit Set, 11 Pcs. In Compact Fold Out Box.**

Set includes ESD Safe Wiha precision handle, non-magnetic bit extension and 9 Wiha interchangeable bits.

**Item ESD Safe SYSTEM 4 TORX® No. Micro Bit Set 75792** Set with ESD Safe Precision Handle

Sets include the following bits:

TORX: T3, T4, T5, T6, T7, T8, T9, T10, T15

100mm Bit Extension - non-magnetic lbs. .26

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms



11 Pc. Set

**759 SYSTEM 4 Slotted/Phillips/Hex Inch/TORX® Precision Interchangeable Bit Set, 27 Pcs. In Compact Fold Out Box.**

Sets include your choice of Wiha precision handle, non-magnetic bit extension and 25 Wiha interchangeable bits.

**Item Handle Options for SYSTEM 4 No. Combination Bit Sets 75991** Set with Standard Precision Handle

**75992** Set with ESD Safe Precision Handle

Sets include the following bits:

Slotted: 1.5, 2.0, 3.0, 4.0mm

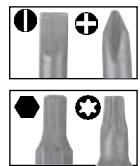
Phillips: 000, 00, 0, 1

TORX: T3, T4, T5, T6, T7, T8, T9, T10, T15

Hex Inch: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"

100mm Bit Extension - non-magnetic lbs. .34

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms



27 Pc. Set

**75994 SYSTEM 4 Slotted/Phillips/Hex Metric/TORX® Precision Interchangeable Bit Set, 27 Pcs. In Compact Fold Out Box.**

Set includes Wiha ESD Safe precision handle, non-magnetic bit extension and 25 Wiha interchangeable bits.

**Item No. SYSTEM 4 Combination Micro Bit Set 75994** Set with ESD Safe Precision Handle

Set includes the following bits:

Slotted: 1.5, 2.0, 3.0, 4.0mm

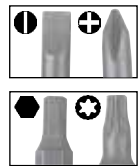
Phillips: 000, 00, 0, 1

TORX: T3, T4, T5, T6, T7, T8, T9, T10, T15

Hex Metric: .71, .89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm

100mm Bit Extension - non-magnetic lbs. .26

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms



27 Pc. Set

**SYSTEM 4 Compact ESD Micro Bit Sets**

**Technicians MicroBit Sets**

- Micro Precision Bits on 4mm Hex Drive
- Bits of Exclusive CRM-72 Tool Steel
- Handle uses non-magnetic ball retainer
- Use bits in extension only
- Standard extension adds 4" to length
- Non-magnetic bit extension

Light weight & compact

Rotation cap

Handle tapered for precise control

Bits hardened for extreme durability

Surface resistance of handles is  $10^6 - 10^9$  Ohms



**75093 SYSTEM 4 Slotted, Phillips, TORX® Compact ESD Precision Interchangeable Bit Set, 16 Pcs.** Wiha precision handle, bit extension & 14 interchangeable bits.



**Item No. Combination Bit Set**

**75093** Set with Standard Precision Handle

**Set includes the following bits:**

- **Slotted:** 1.5, 2.0, 2.5, 3.0mm
- ⊕ **Phillips:** 00, 0, 1
- ⊗ **TORX®:** T6, T7, T8, T9, T10, T15, T20
- **100mm Bit Extension**

↕ lbs. .17



**75095 SYSTEM 4 Slotted, Phillips, Hex Metric Compact ESD Precision Interchangeable Bit Set, 16 Pcs.** Wiha precision handle, bit extension & 14 interchangeable bits.



**Item No. Combination Bit Set**

**75095** Set with Standard Precision Handle

**Set includes the following bits:**

- **Slotted:** 1.5, 2.0, 2.5, 3.0mm
- ⊕ **Phillips:** 00, 0, 1
- ⬢ **Hex Metric:** .89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm
- **100mm Bit Extension**

↕ lbs. .17



**75094 SYSTEM 4 Slotted, Phillips, Hex Inch Compact ESD Precision Interchangeable Bit Set, 16 Pcs.** Wiha precision handle, bit extension & 14 interchangeable bits.



**Item No. Combination Bit Set**

**75094** Set with Standard Precision Handle

**Set includes the following bits:**

- **Slotted:** 1.5, 2.0, 2.5, 3.0mm
- ⊕ **Phillips:** 00, 0, 1
- ⬢ **Hex Inch:** .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8"
- **100mm Bit Extension**

↕ lbs. .17



**75096 SYSTEM 4 Hex Inch & Metric Compact ESD Precision Interchangeable Bit Set, 16 Pcs.** Wiha precision handle, bit extension & 14 interchangeable bits.



**Item No. Combination Bit Set**

**75096** Set with ESD Safe Precision Handle

**Set includes the following bits:**

- ⬢ **Hex Inch:** 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"
- ⬢ **Hex Metric:** .89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm
- **100mm Bit Extension**

↕ lbs. .17



**Wiha ESD Safe SoftFinish Cushion Grip Bit Holders**

Bit holders without magnetics








For working on static sensitive components

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

Dissipative material offers protection against electrostatic discharge









**38701 ESD Safe Quick Release 1/4" Bit Holder, With Wiha-SoftFinish® Cushion Grip Handle, IEC 61340-5-1, DIN 3126, ISO 1173**  
Stainless steel with retaining ring bit holder. Dissipative SoftFinish® cushion grip handle, multi-component, ESD Safe surface resistance 10<sup>6</sup> - 10<sup>9</sup> Ohm.

Item							
No.	Inch	mm	Inch	mm	Inch	lbs.	pkg.
38701	1/4"	148	5.8	38	1.5	.18	1



**28180 ESD Safe Stubby 1/4" Bit Holder With Ring Retainer, Cushion Grip Wiha-SoftFinish® Handle, IEC 61340-5-1, DIN 3126, ISO 1173** Dissipative SoftFinish® cushion grip handle, multi-component, ESD Safe surface resistance 10<sup>6</sup> - 10<sup>9</sup> Ohm.

Item					
No.	Inch	mm	Inch	lbs.	pkg.
28180	1/4"	57	2.2	.11	1



**In Durable Pouch**

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**38790 ESD Safe 1/4" Quick Release Blade Holder Set With Interchangeable 70mm Blades & Quick Release Blade Holder**  
20 Pc. set includes ESD Safe Quick Release Holder, cushion grip handle. 70mm blades are CVM tool steel, hardened. Also includes a Quick Release blade extension.

Item		
<b>No. 38790</b>		
<b>Slotted:</b> 2.5, 3.0, 3.5, 4.0, 5.5, 6.5mm	<b>Phillips:</b> 0, 1, 2	
<b>TORX®:</b> T6, T7, T8, T9, T10, T15	<b>Pozidriv®:</b> 0, 1, 2	



**Wiha ESD Safe SoftFinish Cushion Grip Screwdrivers**

For working on static sensitive components

Dissipative material offers protection against electrostatic discharge



**D**



SoftFinish cushion grip handle

CVM steel hardened, hard chrome Finish

**DIN EN 61340-5-1/ 61340-5-2**



**30292 Set 6 Pcs. ESD Safe Slotted & Phillips**  
DIN EN 61340-5-1/61340-5-2 Round blade, high alloy CVM steel, hardened, hard chromed. Dissipative SoftFinish® cushion grip handle, multi-component, ESD Safe (10<sup>6</sup>-10<sup>9</sup> Ohm).

Item No.	mm	Inch	mm	Size	mm	lbs.
30292	30242*	3.0	.118	100	31150 0 60	.96
	30244*	4.0	.157	100	31151 1 80	
	30246*	5.5	.216	125	31152 2 100	

\*Cabinet Tips



**302 ESD Safe Slotted Screwdrivers, With Wiha-SoftFinish® Handle**  
DIN EN 61340-5-1/61340-5-2 Round blade, high alloy CVM steel, hardened, hard chromed. Offers protection against electrostatic discharge. Dissipative SoftFinish® cushion grip handle, multi-component, ESD Safe (10<sup>6</sup>-10<sup>9</sup> Ohm).

Item No.	mm	Inch	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.
30240*	2.5	.098	75	3.0	0.4	.016	175	7.0	.06	10
30242*	3.0	.118	100	3.9	0.5	.020	204	8.0	.06	10
30244*	4.0	.157	100	3.9	0.8	.031	211	8.3	.11	10
30246*	5.5	.216	125	5.0	1.0	.039	236	9.3	.15	10
30248	6.5	.255	150	5.9	1.2	.047	268	10.6	.22	10

\*Cabinet Tips



**311 ESD Safe Phillips Screwdriver, With Wiha-SoftFinish® Handle**  
DIN EN 61340-5-1/61340-5-2 Round blade, high alloy CVM steel, hardened, hard chromed. Offers protection against electrostatic discharge. Dissipative SoftFinish® cushion grip handle, multi-component, ESD Safe (10<sup>6</sup>-10<sup>9</sup> Ohm).

Item No.	Size	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.
31150	0	60	2.4	3.0	1/8	164	6.5	.06	10
31151	1	80	3.1	4.5	3/16	191	7.5	.11	10
31152	2	100	3.9	6.0	1/4	218	8.6	.20	10



**362 ESD Safe TORX® Screwdriver, With Wiha-SoftFinish® Handle**  
DIN EN 61340-5-1/61340-5-2 Round blade, high alloy CVM steel, hardened, hard chromed. Offers protection against electrostatic discharge. Dissipative SoftFinish® cushion grip handle, multi-component, ESD Safe (10<sup>6</sup>-10<sup>9</sup> Ohm).

Item No.	Size	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.
36260	T3	60	2.4	3.5	.139	164	6.5	.06	10
36204	T4	60	2.4	3.5	.139	164	6.5	.06	10
36200	T5	60	2.4	3.5	.139	164	6.5	.06	10
36206	T6	60	2.4	3.5	.139	164	6.5	.06	10
36208	T8	60	2.4	3.5	.139	164	6.5	.06	10
36209	T9	60	2.4	4.0	.157	171	6.7	.10	10
36218	T10	80	3.1	4.0	.157	191	7.5	.11	10
36219	T15	80	3.1	4.0	.157	191	7.5	.11	10
36224	T20	100	3.9	4.0	.157	211	8.3	.11	10



**36289 Set 6 Pcs. ESD Safe TORX® Screwdrivers**  
Round blade high alloy chrome-vanadium-molybdenum steel, hardened, Hard chrome finish with Wiha-Chromtop satin grip tips. Molded on SoftFinish® cushion grip handle, multi-component.

Item No.	Size	mm	Size	mm	lbs.
36289	36206 T6	60	36218 T10	80	.81
	36208 T8	60	36219 T15	80	
	36209 T9	60	36224 T20	100	

**Wiha ESD Safe Interchangeable Sets**




Surface resistance of handle is  $10^6 - 10^9$  Ohms

In Durable Pouch

**10891 ESD Safe Slotted & Phillips Interchangeable Blade Set**

4 Pc. Set Includes ESD Safe handle & 3 interchangeable blades.

Item 

No. 10891 lbs. .65

Slotted: 3.0, 4.0, 6.0mm Phillips: 0, 1, 2




Surface resistance of handle is  $10^6 - 10^9$  Ohms

In Durable Pouch

**10892 ESD Safe Metric Nut Drivers Interchangeable Blade Set**

8 Pc. Set Includes ESD Safe handle & 7 interchangeable blades.

Item 

No. 10892 lbs. .75

Metric Nut Drivers: 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.0mm




Surface resistance of handle is  $10^6 - 10^9$  Ohms

In Durable Pouch

**10893 ESD Safe TORX® Interchangeable Blade Set**

5 Pc. Set Includes ESD Safe handle & 4 interchangeable blades.

Item 

No. 10893 lbs. .70

TORX®: T6, T7, T8, T9, T10, T15, T20, T25




Surface resistance of handle is  $10^6 - 10^9$  Ohms

In Durable Pouch

**10895 ESD Safe Interchangeable Combo Blade Set**

11 Pc. Set Includes ESD Safe handle & 10 interchangeable blades.

Item 

No. 10895 lbs. .75

Slotted: 3.0, 4.0, 6.0mm Phillips: 0, 1, 2

Inch Nut Drivers: 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2"

Won't damage sensitive parts

Non-metallic high-tech material with 60% fiber glass content, extremely high rigidity.

Thermal stability of the measuring surfaces:  
Short-term up to 180°C, continuous 100-120°C

Precision ratchet guarantees uniform clamping force of the measuring jaw

Non-corrosive, non-magnetic, hardly conductive and electrically insulated

Made in Switzerland

Surface resistance of handle is  $10^6 - 10^9$  Ohms

**ESD Safe Dial Caliper DialMax - Metric/Inch**

For working in sensitive electronic components

Conductive, Anti-static, Dissipative

ESD Standard IEC 61340-5-1

**411 ESD Safe Dial Caliper DialMax - Metric & Inch**

Non-metallic high-tech material with 60% fiber glass content.






For outside, inside, depth and step measurements.

Impact resistant dial can be recalibrated to zero.

Item No.	Reading	mm	Inch	Pkg.	wt.
41105	.001"	150	6 Inch	1	.10
41106	0.1mm	150	6 Metric	1	.10

**10820 ESD Safe Dissipative Dynamic Handle, Conductive, High Quality Plastic, Impact Resistant. Advantages:**

- Accepts all Drive-Loc VI blades
- Surface resistant  $10^6$  to  $10^9$  ohms
- Safe for working on ESD sensitive parts
- Collet lock holds blade securely in place

Item No.						lbs.
	mm	mm	Inch	mm	Inch	
10820	6.0	135	5.3	15.2	.60	.16

**Wiha Drive-Loc VI Handle & Blades**

Locking mechanism in SoftFinish cushion grip handle

Drive-Loc mechanism guarantees a secure hold & rapid blade exchange



Adjust interchangeable blades from 40 to 120mm (1.7 to 4.7")








Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**28486 ESD Safe Drive-Loc VI Cushion Grip Handle**

Wiha-SoftFinish<sup>®</sup> impact resistant, with roll off protection.

**Advantages:**

Ergonomic cushion grip, Drive-Loc mechanism guarantees a secure hold and rapid blade exchange. Static Dissipative.





Item					
No.	mm	mm	Inch	mm	Inch
28486	6.0	115	4.5	36.0	1.41

**Wiha Drive-Loc VI Blades**



**281 Slotted Drive-Loc VI Interchangeable Blade**





High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	mm + mm		lbs.	pkg.
28106	3.5 4.5		.10	1
28108	5.5 6.5		.10	1



**281 Slotted & Phillips Drive-Loc VI Interchangeable**

Blade High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	mm + Size		lbs.	pkg.
28107	3.0 0		.10	1
28109	4.0 1		.10	1
28110	6.0 2		.10	1



**28112 Phillips Drive-Loc VI Interchangeable Blade**





High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	Size + Size		lbs.	pkg.
28112	1 2		.10	1



**28114 Pozidriv<sup>®</sup> Drive-Loc VI Interchangeable**





Blade High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	Size + Size		lbs.	pkg.
28114	1 2		.10	1



**281 TORX<sup>®</sup> Drive-Loc VI Interchangeable Blade**





High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	Size + Size		lbs.	pkg.
28126	T6 T8		.10	1
28127	T7 T9		.10	1
28128	T10 T15		.10	1
28129	T20 T25		.10	1
28130	T30 T40		.10	1



**281 Security TORX<sup>®</sup> Drive-Loc VI Interchangeable**





Blade, high alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	Size + Size		lbs.	pkg.
28132	T6s T8s		.10	1
28133	T7s T9s		.10	1
28134	T10s T15s		.10	1
28135	T20s T25s		.10	1
28136	T30s T40s		.10	1



**281 Tri-Wing<sup>®</sup> Drive-Loc VI Interchangeable Blade**





High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	Size + Size		lbs.	pkg.
28138	0 1		.10	1
28139	2 3		.10	1
28140	4 5		.10	1



**281 Torq Set<sup>®</sup> Drive-Loc VI Interchangeable Blade**

High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item				
No.	Size + Size		lbs.	pkg.
28142	2 4		.08	1
28143	6 8		.10	1

**Wiha Drive-Loc VI Blades**



**281 Ball End Hex & Hex Metric Drive-Loc VI Interchangeable**

**Blade** High alloy CVM steel, through hardened, hard chrome finish. Ball end enables the user to work at angles up to 25°. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item No.	mm	mm	lbs.	pkg.
28116	2.5	2.5	.10	1
28117	3	3	.10	1
28118	4	4	.10	1
28119	5	5	.10	1
28120	6	6	.10	1



**281 Hex Metric Drive-Loc VI Interchangeable Blade**

High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item No.	mm	mm	lbs.	pkg.
28149	2.0	2.5	.09	1
28150	3.0	4.0	.10	1
28151	5.0	6.0	.10	1



**281 Hex Inch Drive-Loc VI Interchangeable Blade**

High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item No.	Inch	Inch	lbs.	pkg.
28122	3/32	7/64	.10	1
28123	1/8	9/64	.10	1
28124	5/32	3/16	.10	1



**28137 Square Drive-Loc VI Interchangeable Blade**

High alloy CVM steel, through hardened, hard chrome finish. Over all blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item No.	Size	Size	lbs.	pkg.
28137	1	2	.10	1



**281 Drive-Loc VI Inch Nut Driver Blades**

High alloy CVM steel, through hardened, hard chrome finish. OAL blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item No.	Inch	mm	lbs.	pkg.
28156	3/16	150	.11	1
28157	7/32	150	.11	1
28158	1/4	150	.11	1
28159	9/32	150	.12	1
28160	5/16	150	.13	1
28161	11/32	150	.14	1
28162	3/8	150	.15	1
28163	7/16	150	.17	1
28164	1/2	150	.18	1



**281 Drive-Loc VI Metric Nut Driver Blades**

High alloy CVM steel, through hardened, hard chrome finish. OAL blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

Item No.	mm	mm	lbs.	pkg.
28168	4.0	150	.10	1
28169	4.5	150	.10	1
28170	5.0	150	.11	1
28171	5.5	150	.11	1
28172	6.0	150	.12	1
28173	7.0	150	.13	1
28174	8.0	150	.13	1
28177	9.0	150	.14	1
28175	10.0	150	.15	1
28176	11.0	150	.20	1



**28144 Extension Blade For Drive-Loc VI Blades**

High alloy CVM steel, through hardened, hard chrome finish. OAL blade length 6.5". Blades fit all Drive-Loc VI handles.

Item No.	mm	OAL	lbs.	pkg.
28144	6.0	165mm	.14	1

**ESD Safe Adjustable TorqueControl Tools**



Includes Certificate

**285 ESD Safe TorqueVario-S, With Window Scale**

EN ISO 6798, BS EN 26789, ASME B107.14M, +/- 6% Accuracy  
Ergonomic multi-component handle, light and compact. Handle sizes proportioned to optimize torque range. Audible and perceptible click when torque setting has been attained. With Certificate of accuracy.

Item	Range	mm		lbs.		pkg.	Repeatable
No.	Inch lbs.	Increments	mm	lbs.	pkg.	Repeatable	
28522*	15 - 80(in/oz)	2.5 Inch oz	122 - 127	.33	1	+/- 10%	
28524	5 - 10	.2 Inch lbs	122 - 127	.34	1	+/- 6%	
28526	7.5 - 20	.5 Inch lbs	126 - 131	.42	1	+/- 6%	

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Each TorqueVario handle has unique serial number and certificate of calibration**



With Certificate of Calibration +/- 6%

**28591 Set 24 Pcs. ESD Safe Adjustable TorqueVario-S Bit Set**

Certified to EN ISO 6798, BS EN 26789, ASME B107.14M. Set includes ergonomic multi-component adjustable TorqueVario-S handle, 21 Micro Bits, non-magnetic Micro Bit holder and Torque adjustment tool, packed in a compact durable storage box.

Item No.		lbs.
28591	Slotted: 1.5, 2.0, 3.0, 4.0mm	1.31
	Phillips: #00, #0, #1	
	<b>TORX</b> : T6, T7, T8, T9, T10, T15	
	Hex Inch: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"	
	28524 Handle ESD Safe Range 5 - 10 Inch lbs.	

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**28592 Set 24 Pcs. ESD Safe Adjustable TorqueVario-S Bit Set**

Certified to EN ISO 6798, BS EN 26789, ASME B107.14M. Set includes ergonomic multi-component adjustable TorqueVario-S handle, 21 Micro Bits, non-magnetic Micro Bit holder and Torque adjustment tool, packed in a compact durable storage box.

Item No.		lbs.
28592	Slotted: 1.5, 2.0, 3.0, 4.0mm	1.31
	Phillips: #00, #0, #1	
	<b>TORX</b> : T6, T7, T8, T9, T10, T15	
	Hex Inch: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"	
	28526 Handle ESD Safe Range 7.5 - 20 Inch lbs.	

Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**288 ESD Safe Slotted Interchangeable Blades For TorqueVario-S**

Slotted tip blades on narrow 5/32 Hex shafts. High alloy chrome-vanadium-molybdenum steel, hardened, satin hard chrome finish.

Item	mm	Inch	mm	lbs.	Max. Torque Nm	pkg.
28801	1.5	.059	175	.07	0.15	1
28803	2.0	.078	175	.07	0.4	1
28805	3.0	.118	175	.07	0.6	1
28807	3.5	.139	175	.07	1.1	1
28809	4.0	.157	175	.07	2.5	1



**288 ESD Safe Phillips Interchangeable Blades For TorqueVario-S**

Phillips tip blades on narrow 5/32 Hex shafts. High alloy chrome-vanadium-molybdenum steel, hardened, satin hard chrome finish.

Item	Size	mm	mm	lbs.	Max. Torque Nm	pkg.
28810	000	175	4.0	.07	0.4	1
28812	00	175	4.0	.07	0.4	1
28814	0	175	4.0	.07	0.9	1
28816	1	175	4.0	.07	3.8	1



**288 ESD Safe TORX Interchangeable Blades For TorqueVario-S**

**TORX** tip blades on narrow 5/32 Hex shafts. High alloy chrome-vanadium-molybdenum steel, hardened, hard chromed.

Item	Size	mm	mm	lbs.	Max. Torque Nm	pkg.
28825	T5	175	4.0	.07	0.4	1
28826	T6	175	4.0	.07	0.6	1
28827	T7	175	4.0	.07	0.9	1
28828	T8	175	4.0	.07	1.3	1
28829	T9	175	4.0	.07	2.5	1
28830	T10	175	4.0	.07	3.8	1



Surface resistance of handle is 10<sup>6</sup> - 10<sup>9</sup> Ohms

With Certificate of Calibration +/- 10%

**28890 Set 24 Piece TorqueVario-S ESD Safe Micro-Bit Set**

Certified to EN ISO 6798, BS EN 26789, ASME B107.14M. Set includes ergonomic multi-component adjustable TorqueVario-S handle, 21 Micro Bits, non-magnetic Micro Bit holder and Torque adjustment tool. Packed in a compact durable storage box.

Item No.		lbs.
28890	Slotted: 1.5, 2.0, 3.0, 4.0mm Phillips: #00, #0, #1	1.33
	<b>TORX</b> : T6, T7, T8, T9, T10, T15	
	Hex Inch: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"	
	28522 ESD Safe Handle Range 15-80 Inch/oz.	

**Wiha ESD Safe Pliers & Cutters**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



Beveled Cutter      Semi-Flush Cutter

Flush Cutter          Ultra Full Flush

Box joint for longer tool life & endurance, mirror polished finish

ESD standard IEC 61340-5-1

Two component handle with non-slip soft grip surface, protects the hand and reduces manual effort & user fatigue

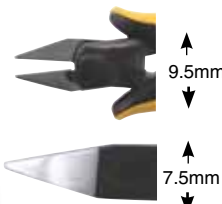
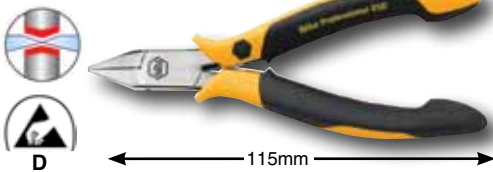
Welded double leaf spring

Hardened & annealed high carbon tool steel, induction hardened cutting edges




**Precision Cutters Tapered Head**

Semi Flush



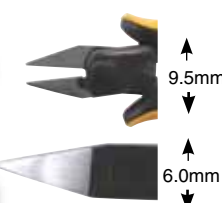
**32703 Precision Cutters, Small Tapered Head, Semi Flush**

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32703	mm	Inch	Copper	Head Width	Pkg.	wt.
	115	4.5	1.0	9.5mm	1	.19

**Precision Cutters Tapered Head**

Flush



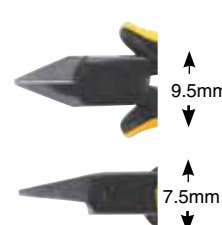
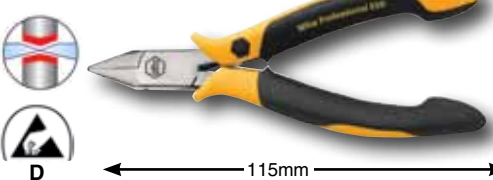
**32705 Precision Cutters, Small Tapered Head, Flush**

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32705	mm	Inch	Copper	Head Width	Pkg.	wt.
	115	4.5	1.0	9.5mm	1	.19

**Precision Cutters Tapered Head**

Semi Flush



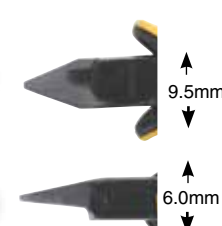
**32702 Precision Cutters, Small Tapered Head With Hollow Ground Back, Semi Flush**

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32702	mm	Inch	Copper	Head Width	Pkg.	wt.
	115	4.5	1.0	9.5mm	1	.19

**Precision Cutters Tapered Head**

Flush



**32704 Precision Cutters, Small Tapered Head With Hollow Ground Back, Flush**

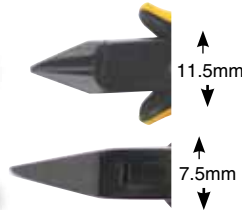
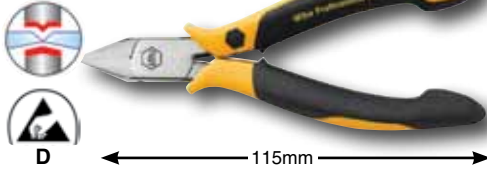
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32704	mm	Inch	Copper	Head Width	Pkg.	wt.
	115	4.5	1.0	9.5mm	1	.19

**Wiha ESD Safe Pliers & Cutters**

**Precision Cutters Wide Tapered Head**

Bevel



**32706 Precision Cutters, Wide Tapered Head, Bevel**

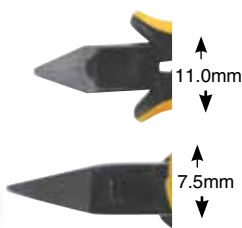
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32706	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.4	11.0mm	1	.20

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Wide Tapered Head**

Flush



**32708 Precision Cutters, Wide Tapered Head, Flush**

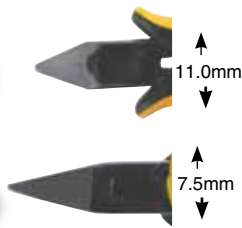
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32708	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	11.0mm	1	.19

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Wide Tapered Head**

Full Flush



**32710 Precision Cutters, Wide Tapered Head, Full Flush**

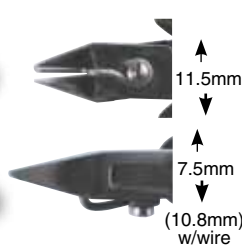
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32710	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.0	11.0mm	1	.23

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Wide Tapered Head**

Flush



**32711 Precision Cutters, Wide Tapered Head With Wire Trapping Device, Flush**

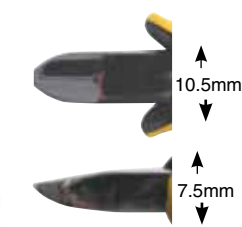
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32711	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	11.0mm	1	.19

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Slim Oval Form**

Flush



**32712 Precision Cutters, Slim Oval Head, Flush**

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32712	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.0	10.5mm	1	.23

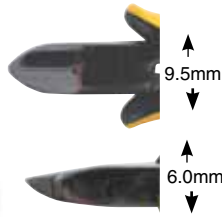
Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



**Wiha ESD Safe Pliers & Cutters**

**Precision Cutters Slim Oval Form**

Full Flush



**32714 Precision Cutters, Slim Oval Head, Full Flush**

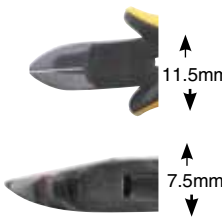
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32714	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.0	10.0mm	1	.23

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Slim Oval Form**

Bevel



**32716 Precision Cutters, Wide Oval Head, Bevel**

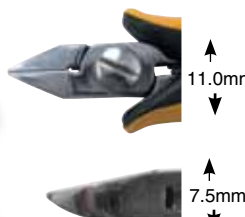
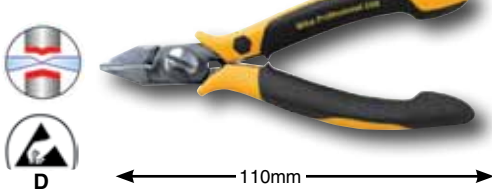
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32716	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.4	11.0mm	1	.19

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Wide Oval Form And Carbide Edge**

Bevel



**32718 Precision Cutters, Wide Oval Head Carbide Cutting Edges, Bevel**

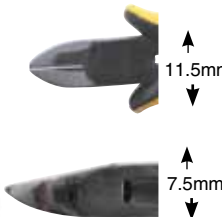
Cutters drop-forged for an ideal material structure. Precise aligned carbide cutting edge. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32718	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	110	4 3/8	1.6	11.0mm	1	.20

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Wide Oval Form**

Flush



**32720 Precision Cutters, Wide Oval Head, Flush**

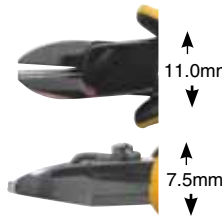
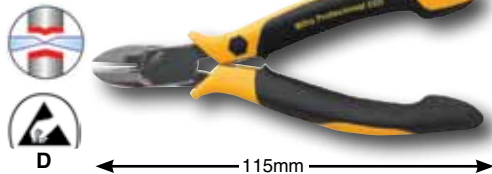
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32720	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	11.0mm	1	.19

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Precision Cutters Wide Oval Form**

Flush



**32721 Precision Cutters, Wide Oval Head With Wire Trapping Device, Flush**

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32721	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	11.0mm	1	.23

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Wiha ESD Safe Pliers & Cutters**

**Oblique Angled Cutters**

Flush



12.0mm  
7.5mm

**32722 Oblique Angled Cutters, 29°, Flush**

Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32722	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	12.0mm	1	.24

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Oblique Angled Cutters**

Ultra Full Flush



12.0mm  
7.5mm

**32724 Oblique Angled Cutters, 29°, Full Flush**

Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32724	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.0	12.0mm	1	.24

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Oblique Angled Cutters**

Semi Flush



12.0mm  
7.5mm

**32726 Oblique Angled Cutters, 29°, Short Head, Semi Flush**

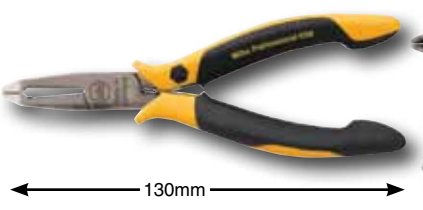
Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32726	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	12.0mm	1	.24

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Oblique Front Cutters**

Flush



9.7mm  
6.2mm

**32728 Oblique Front Cutters, Very Small Head, 40°, Flush**

Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32728	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	130	5.1	0.6	8.5mm	1	.21

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**ESD Safe Tool Set In Canvas Pouch**



**32793 11 Pc. Set, 4 ESD Safe Pliers, Slotted & Phillips**

**Screwdrivers** Pliers drop-forged for an ideal material structure. Two component non-slip soft grip handle. ESD standard IEC 61340-5-1

**32793 11 piece ESD Safe Pliers & Slotted/Phillips Precision Drivers**

Set in custom case includes:

**ESD Safe Pliers & Cutters**

4.5" Tapered Flush Cutters	4.5" Snipe Nose Pliers
4.375" Oblique Cutters	5.7" Long Nose Pliers

**ESD Safe Precision Screwdrivers**

Slotted 2.0 x 40mm	Phillips #00 x 40mm
Slotted 2.5 x 50mm	Phillips #0 x 50mm
Slotted 3.0 x 50mm	Phillips #1 x 60mm
Slotted 3.5 x 60mm	

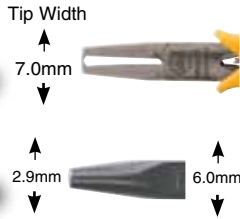
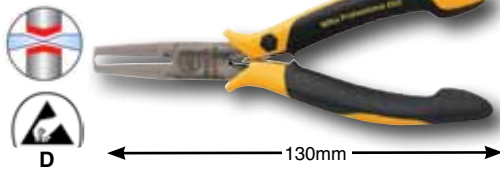
📦 lbs. 2.43

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Wiha ESD Safe Pliers & Cutters**

**End Cutters Extra Slim**

Semi Flush



**32732 End Cutters, Extra Slim, Semi Flush**

End Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32732	mm	Inch	Copper	Tip Wdth	Pkg.	wt.
	130	5.1	0.6	4.1mm	1	.16

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**End Cutters Wide Head**

Flush



**32734 End Cutters, Wide Head, Flush**

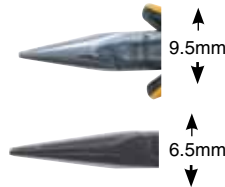
End Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32734	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.4	11.0mm	1	.18

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**ESD Safe Pliers**

Short Snipe Nose



**32742 ESD Safe Pliers, Short Snipe Nose (Chain Nose) Straight, Serrated Jaws**

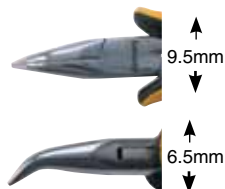
Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32742	mm	Inch	Head Wdth	Pkg.	wt.
	120	4 3/4	9.5mm	1	.20

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**ESD Safe Pliers**

Bent Snipe Nose 45°



**32744 ESD Safe Pliers, Snipe Nose (Chain Nose) Bent 45°, Smooth Jaws**

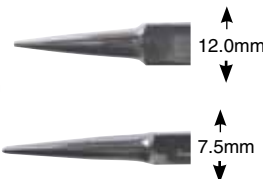
Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32744	mm	Inch	Head Wdth	Pkg.	wt.
	120	4 3/4	9.5mm	1	.20

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**ESD Safe Pliers**

Long Needle Nose



**32746 ESD Safe Pliers, Long Needle Nose Pliers, Straight, Serrated Jaws**

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

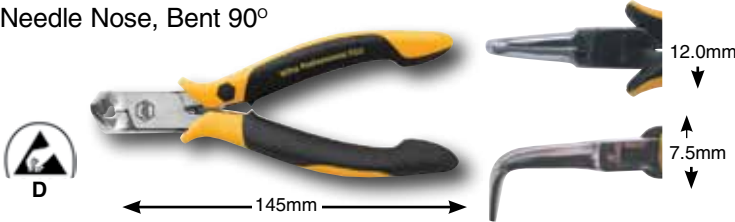
32746	mm	Inch	Head Wdth	Pkg.	wt.
	145	5 3/4	12.0mm	1	.27

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**Wiha ESD Safe Pliers & Cutters**

**ESD Safe Pliers**

Needle Nose, Bent 90°



**32748 ESD Safe Pliers, Needle Nose Pliers, Bent 90°, Smooth Jaws**

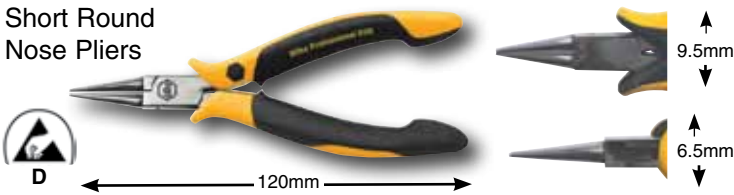
Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32748	mm	Inch	Head Width	Pkg.	wt.
	145	5 3/4	12.0mm	1	.21

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**ESD Safe Pliers**

Short Round Nose Pliers



**32750 ESD Safe Pliers, Short Round Nose Pliers, Smooth Jaws**

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32750	mm	Inch	Head Width	Pkg.	wt.
	120	4 3/4	9.5mm	1	.17

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

**ESD Safe Pliers**

Short Flat Nose Pliers



**32752 ESD Safe Pliers, Short Flat Nose Pliers, Smooth Jaws**

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

32752	mm	Inch	Head Width	Pkg.	wt.
	120	4 3/4	9.5mm	1	.16

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

ESD standard IEC 61340-5-1



**32790 4 Piece ESD Safe Pliers Set In Custom Case**

Pliers drop-forged for an ideal material structure. Two component non-slip soft grip handle. ESD Safe Dissipative.

**32790** 4 piece ESD Safe Pliers Set Includes:

- 4.5" Wide Oval Side Cutters
- 5.75" Long Nose Pliers
- 4.75" Flat Nose Pliers
- 4.375" Oblique Front Cutters

↔ lbs. 2.06

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



ESD standard IEC 61340-5-1

**32791 11 Pc. Set, 4 ESD Safe Pliers, SYSTEM 4 Slotted & Phillips 5 Pc. Set & 2 ESD Safe Tweezers**

Pliers drop-forged for an ideal material structure. Two component non-slip soft grip handle. ESD Safe Precision handle & 4 CVM tool steel blades. Tweezers anti-static conductive, ESD Safe Hypo allergenic, anti-magnetic stainless.

**32791** 11 piece ESD Safe Pliers, Tweezers & SYS 4 precision Set in custom case includes:

**ESD Safe Pliers & Cutters**

- 4.5" Wide Oval Side Cutters
- 5.75" Long Nose Pliers
- 4.75" Flat Nose Pliers
- 4.375" Oblique Front Cutters

**SYSTEM 4 Set in separate pouch**

ESD Safe Conductive Precision Handle

Slotted: 1.5, 2.0, 3.0 & 4.0 Phillips: 000, 00, 0 & 1

**ESD Safe Tweezers:** 44501 AA SA ESD & 44510 7a SA ESD

↔ lbs. 2.43



**Wiha ESD Safe Protturn Pliers & Cutters**

**protturn**

Tested ESD Safe handle with non-slip soft grip surface, protects the hand and reduces manual effort & user fatigue

Glare free black finish



Hardened steel return spring

ESD standard IEC 61340-5-1



Surface resistance of handles is  $10^6 - 10^9$  Ohms

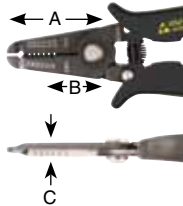
**ESD Safe Wire Stripper**



**protturn**



165mm



**45810 Protturn ESD Safe Wire Stripper**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

Strips 0.2, 0.3, 0.4, 0.5, 0.6, 0.8mm

45810	mm	Inch	Strips AWG	A	B	C	Pkg.	wt.
	165	6.5	30 to 20	30mm	12mm	4mm	1	.25

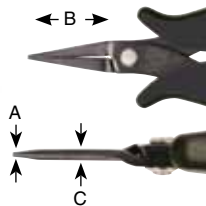
**ESD Safe Long Nose Pliers**



**protturn**



160mm



**45811 Protturn ESD Safe Long Nose Pliers**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45811	mm	Inch	A	B	C	Pkg.	wt.
	160	6.3	2mm	30mm	3mm	1	.18

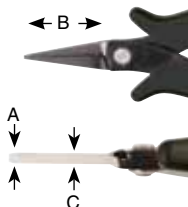
**ESD Safe Flat Nose Pliers**



**protturn**



160mm



**45812 Protturn ESD Safe Flat Nose Pliers**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45812	mm	Inch	A	B	C	Pkg.	wt.
	160	6.3	2mm	32mm	3mm	1	.18

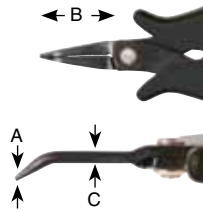
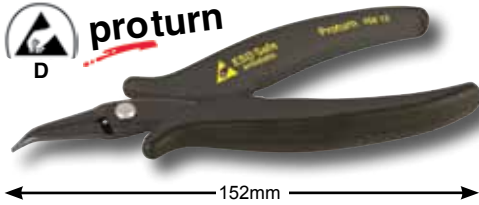


**Wiha ESD Safe Protturn Pliers & Cutters**

Surface resistance of handles is  $10^6 - 10^9$  Ohms

Protturn available Spring 2010

**ESD Safe Bent Nose Pliers**

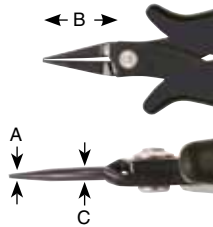


**45813 Protturn ESD Safe Bent Nose Pliers**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45813	mm	Inch	A	B	C	Pkg.	wt.
	152	6.0	2mm	30mm	4mm	1	.18

**ESD Safe Round Nose Pliers**

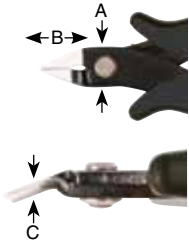
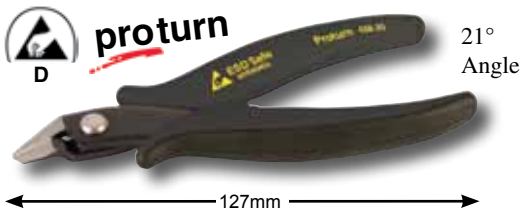


**45814 Protturn ESD Safe Round Nose Pliers**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45814	mm	Inch	A	B	C	Pkg.	wt.
	152	6.0	2mm	22mm	3mm	1	.17

**ESD Safe Diagonal Cutter**

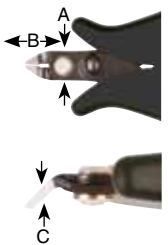


**45820 Protturn ESD Safe 21° Precision Cutters/Flush Cut**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45820	mm	Inch	AWG	A	B	C	Pkg.	wt.
	127	5.0	18/1mm	13mm	12mm	3mm	1	.16

**ESD Safe Diagonal Cutter**

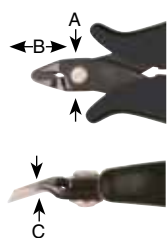
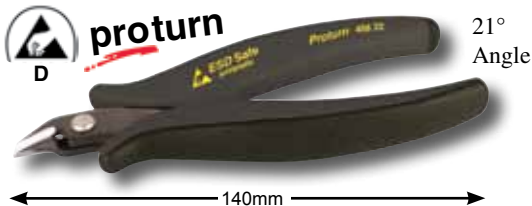


**45821 Protturn ESD Safe 45° Precision Cutters/Flush Cut**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45821	mm	Inch	AWG	A	B	C	Pkg.	wt.
	127	5.0	18/1mm	10mm	9mm	2mm	1	.14

**ESD Safe Diagonal Cutter**



**45822 Protturn ESD Safe 21° Precision Cutters/Flush Cut**

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45822	mm	Inch	AWG	A	B	C	Pkg.	wt.
	140	5.5	16/1.3mm	13mm	12mm	3mm	1	.15

**Wiha ESD Safe Protturn Pliers & Cutters**

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms

Protturn available Spring 2010

**ESD Safe Diagonal Cutter**



**45823 Protturn ESD Safe 21° Precision Cutters/Flush Cut**  
ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45823	mm	Inch	AWG	A	B	C	Pkg.	wt.
	133	5.25	14/1.6mm	10mm	10mm	2mm	1	.14

**ESD Safe Diagonal Cutter**



**45824 Protturn ESD Safe 45° Precision Cutters/Flush Cut**  
ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

45824	mm	Inch	AWG	A	B	C	Pkg.	wt.
	140	5.5	14/1.6mm	13mm	12mm	2.5mm	1	.16

protturn



Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> Ohms



ESD standard IEC 61340-5-1

**45890 26 Pc. Set, Protturn ESD Safe Pliers, Precision Slotted & Phillips Screwdrivers, Precision Micro Bit Set & ESD Safe Tweezers**  
ESD Protturn Pliers glare free, black finish, ESD Safe non-slip soft grips. ESD Safe Precision Slotted & Phillips screwdrivers, CVM tool steel blades. Precision ESD Safe Micro Bit handle holds Micro Bit extension and 4mm Micro bits. Anti-static Tweezer conductive, ESD Safe Hypo allergenic, anti-magnetic stainless.

**45890 26 Piece ESD Safe Pliers, Precision Screwdrivers, Micro Bit Set & ESD Tweezer In Custom Case Includes:**

**ESD Safe Protturn Strippers, Pliers & Cutters**

45810 6.5" Wire Stripper	45811 6.3" Long Nose Pliers
45813 6.0" Bent Nose Pliers	45823 5.25" 21° Precision Cutters

**ESD Safe Slotted & Phillips Precision Screwdrivers**  
Slotted: 2.0, 2.5, 3.0mm Phillips: 0, 1

**ESD Micro Bit Handle, Micro Bit Extension & 14 Micro Bits 4mm**  
Hex: .71, .89, 1.27, 1.5, 2.0, 2.5, 3.0 Torx: T4, T5, T6, T7, T8, T9, T10

**ESD Safe Tweezer: 44532 00 SA ESD - 120mm Heavy Duty Strong, Tapered To Strong Point.**  
↕ lbs. 2.05

# Professional Quality ESD Tweezers



ESD SAFE • STATIC DISSIPATIVE • HYPO ALLERGENIC COATED • TEXTURED GRIPPING SURFACE

Surface resistance is  $10^6 - 10^9$  Ohms



## Universal Fine Point Tweezers

Item No.	Description	wt.
44501	AA SA ESD - 130mm	.09
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Fine Round Points For Assembly

Item No.	Description	wt.
44506	3 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Sturdy Long, Fine Round Points

Item No.	Description	wt.
44502	GG SA ESD - 130mm	.09
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Fine Round Points Shorter

Item No.	Description	wt.
44507	3c SA ESD - 110mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Long Narrow Body Low Force

Item No.	Description	wt.
44503	SS SA ESD - 135mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Very Fine Points/Tapered To Tip

Item No.	Description	wt.
44508	4 SA ESD - 110mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Reduced Body To Medium Point

Item No.	Description	wt.
44504	2 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Extra Fine Points/Tapered To Tip

Item No.	Description	wt.
44509	5 SA ESD - 110mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



## Flat Round Tip Smooth Sides

Item No.	Description	wt.
44505	2a SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		




## Curved Extra Fine Rounded Tips

Item No.	Description	wt.
44510	7a SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Wiha Professional Quality ESD Safe Tweezers**

Surface resistance is  $10^6 - 10^9$  Ohms 



**Holds 0.8 to 2mm Diameter**

Item No.	Description	wt.
44511	50 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Narrow Rounded Tip Serrated, Guide Pin**

Item No.	Description	wt.
44518	22 SA ESD - 150mm	.10
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Holds 1.5 to 3mm Diameter**

Item No.	Description	wt.
44512	51 SA ESD - 130mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Universal Blunt Tip Serrated**

Item No.	Description	wt.
44520	40 SA ESD - 145mm	.11
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Holds 3.5 to 7mm Diameter**

Item No.	Description	wt.
44513	52 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**MicroTip 45° Hook 1x1x2mm**

Item No.	Description	wt.
44521	12 SA-SMD ESD - 120mm	.09
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Holds 6.5 to 10mm Diameter**

Item No.	Description	wt.
44514	53 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**MicroTip For Chips Angled 1.6 x 1 x 1mm**

Item No.	Description	wt.
44522	13 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Angled 3.5 to 7mm Diameter**

Item No.	Description	wt.
44515	54 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		




**Long Rounded to 1.0mm Wide No Serration**

Item No.	Description	wt.
44523	PSF SA ESD - 125mm	.09
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Wiha Professional Quality ESD Safe Tweezers**

Surface resistance is  $10^6 - 10^9$  Ohms 



**Flat Bent 35°, 3mm Diameter Grip**

Item No.	Description	wt.
44524	58 SA-SMD ESD - 117mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**MicroTip Bent 30° 1.6mm**

Item No.	Description	wt.
44529	8b SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Curved Extra Fine, 3mm Long Straight Tip**

Item No.	Description	wt.
44525	7abb SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Flat Bent 35°, 2mm Diameter Grip Radius**

Item No.	Description	wt.
44530	59 SA-SMD ESD - 117mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Narrow Body Low Force Bent 35°-3mm Tip**

Item No.	Description	wt.
44526	SSbb SA ESD - 140mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**ESD Safe General Purpose Fine Point**

Item No.	Description	wt.
44531	1 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Angled Extra Fine Points Bent 30°, 3mm Long Tips**

Item No.	Description	wt.
44527	5abb SA ESD - 117mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Heavy Duty Strong Tweezers Tapered To Strong Point**

Item No.	Description	wt.
44532	00 SA ESD - 120mm	.09
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Extra Fine Points Bent 30°, 3mm Long Tips**

Item No.	Description	wt.
44528	5bb SA ESD - 107mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		



**Angled & Slightly Bent With Extra Fine Tips**

Item No.	Description	wt.
44533	7 SA ESD - 120mm	.08
Static dissipative, ESD Safe hypo allergenic tweezers made from Vommaloy. Special stainless steel, anti-magnetic and acid resistant.		

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26942 11	27240 4	27857 6	28180 17	44502 32	75362 14
26943 11	27242 4	27890 6	28486 20	44503 32	75364 14
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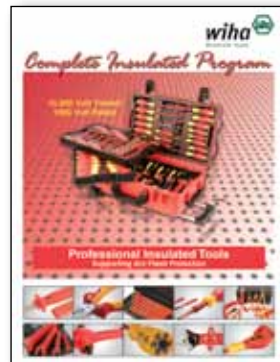
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