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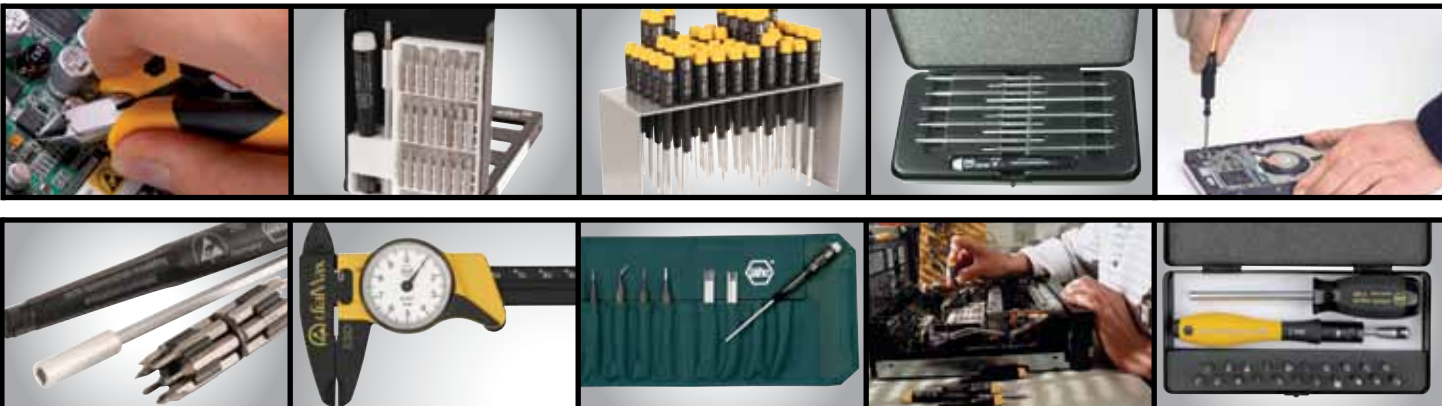
2015

# Professional ESD Safe Tools

*For working on  
static sensitive  
electronic  
components!*



## Complete ESD Safe Program



## 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.

This Article courtesy of Desco Industries, Inc

### Types of ESD Damage

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.



ESD Standard IEC 61340-5-1

**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**

Surface resistance of handles is  $10^6 - 10^9$  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	mm	Inch	lbs.	pkg.	
27208	.8	1/32	40	1.6	0.16	120	4.7	.02	10	
27210	1.0	.039	40	1.6	0.18	120	4.7	.02	10	
27212	1.2	3/64	40	1.6	0.20	120	4.7	.02	10	
27215	1.5	1/16	40	1.6	0.25	120	4.7	.02	10	
27220	2.0	5/64	40	1.6	0.40	120	4.7	.02	10	
27222	2.0	5/64	75	3.0	0.40	155	6.1	.03	10	
27223	2.0	5/64	100	3.9	0.40	180	7.1	.03	10	
27224	2.0	5/64	150	5.9	0.40	260	10.2	.04	10	
27225	2.5	3/32	50	2.0	0.40	145	5.7	.04	10	
27227	2.5	3/32	100	3.9	0.40	195	7.7	.03	10	
27228	2.5	3/32	150	5.9	0.40	245	9.6	.04	10	
27230	3.0	1/8	50	2.0	0.50	145	5.7	.04	10	
27232	3.0	1/8	100	3.9	0.50	210	8.3	.04	10	
27234	3.0	1/8	150	5.9	0.50	260	10.2	.05	10	
27235	3.5	9/64	60	2.4	0.60	170	6.7	.06	10	
27237	3.5	9/64	100	3.9	0.60	210	8.3	.06	10	
27238	3.5	9/64	150	5.9	0.60	260	10.2	.06	10	
27240	4.0	5/32	60	2.4	0.80	170	6.7	.06	10	
27242	4.0	5/32	100	3.9	0.80	210	8.3	.06	10	
27243	4.0	5/32	150	5.9	0.80	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	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	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.	+	+	+	+	+	+	+	+	
	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.	+	+	+	+	+	+
	Size	mm	mm	Size	mm	lbs.
27393	27224	2.0	150	27316	0	.50
	27228	2.5	150	27326	1	
	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.	+	+	+	+	+	+
	mm	mm	Size	mm	lbs.	
27399	27215	1.5	40	27302	000	.50
	27220	2.0	40	27305	00	
	27225	2.5	50	27310	0	
	27230	3.0	50	27320	1	



**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



### 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				

## 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



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

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				



### 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		








**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							
<b>27507</b>		mm	Inch	mm	Inch	lbs.	pkg.
27507	0.7	40	1.6	120	4.7	.02	10
27509	0.9	40	1.6	120	4.7	.02	10
27513	1.3	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							
<b>27505</b>		Inch	mm	Inch	mm	Inch	lbs.
27505	0.028	40	1.6	120	4.7	.02	10
27510	0.035	40	1.6	120	4.7	.02	10
27513	0.05	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						
<b>27590</b>	No.	mm	mm	mm	mm	lbs.
	27507	.7	40	27520	2.0	50
	27509	.9	40	27525	2.5	60
	27513	1.3	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						
<b>27591</b>	No.	Inch	Inch	Inch	Inch	lbs.
	27513	.050	1.6	27543	7/64	2.4
	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				
<b>91118</b>	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  $10^6 - 10^9$  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.	Ø	—	—	—	—	—	—	—	—	—
	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.	Ø	—	—	—	—	—	—	—	—	—
	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.	Ø	—	—	—	—	—	—	—	—
	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.	Ø	—	—	—	—	—	—	—	—
	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<sup>6</sup> - 10<sup>9</sup> 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<sup>6</sup> - 10<sup>9</sup> 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	<b>Metric</b> Hex: .7, .9, 1.3, 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"
	<b>Metric</b> 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

Free of contamination, suited for working in clean-rooms

Rotating cap facilitates adjusting and holding of the tools

**Blade**  
High thermal and electric insulation

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

Surface resistance of handles is 10<sup>6</sup> - 10<sup>9</sup> 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.
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.
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.
27090	0.9	15	0	15	.28	1
	2.6	15				



**28000 ESD Safe Dissipative Precision Handle** with rotating control cap. Surface resistant  $10^6$ - $10^9$  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.

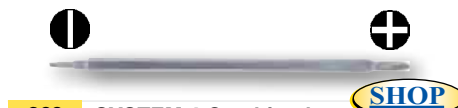
- Use in ESD sensitive applications. Surface resistant  $10^6$ - $10^9$  Ohms.
- Collet lock allows for quick & easy adjustment.
- Holds blade securely in place. Accepts all SYSTEM 4 blades. 110mm/4.3" OAL

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**

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



**269 SYSTEM 4 Phillips Reversible Blade**

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

## Wiha SYS 4 Precision Handles & Blades

**Rotating Cap** for precise turning and control

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

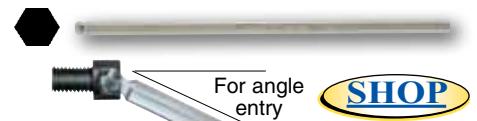
**Tips** Exact fit, precision machined

**Blades** CVM steel, hardened, hard chromed. On 4mm Hex shafts

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

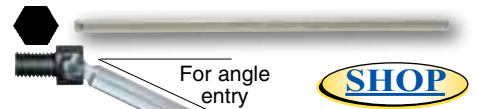
**Precision Handle** high quality plastic. ESD Safe or Standard styles

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



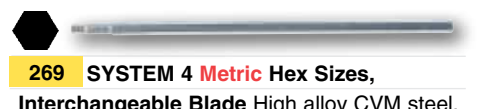
**280 SYSTEM 4 Metric Ball End Hex Interchangeable Blade** High alloy tool steel, hardened, corrosion protected. Ball end works at 30° angle entry for easy access to fasteners.

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



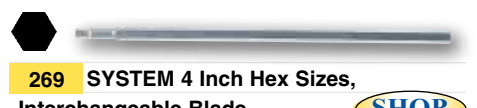
**280 SYSTEM 4 Inch Ball End Hex Interchangeable Blade**

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	



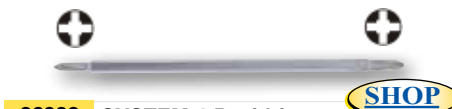
**269 SYSTEM 4 Metric Hex Sizes, Interchangeable Blade** High alloy CVM steel, hardened, corrosion protected.

Item					
No.	mm	mm	Inch	lbs.	
26913	0.7	120	4.7	.06	
26914	0.9	120	4.7	.06	
26915	1.3	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**

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	



**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	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	1.3 + 1.3	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	

**Wiha SYSTEM 4 Precision Blades**



**SHOP**

**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	



**SHOP**

**269 SYSTEM 4 Nut Driver Inch, Interchangeable Blade**

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



**SHOP**

**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



**SHOP**

**269 SYSTEM 4 TORX® Interchangeable Blade** 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**



**SHOP**

**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



**28002 SYSTEM 4 Pozidriv® Drive-Loc Reversible Locking Blades** On 4mm Hex

Item No.	Size	Size	lbs.
28002	0 + 1		.02



**280 SYSTEM 4 Metric Hex Drive-Loc Reversible Locking Blades**

On 4mm Hex blades

Item No.	mm	mm	lbs.
28003	1.3 + 1.3		.02
28004	1.5 + 1.5		.02
28005	2.0 + 2.0		.02
28006	2.5 + 2.5		.02
28007	3.0 + 3.0		.02
28008	4.0 + 4.0		.02



**280 SYSTEM 4 Metric Nut Drivers Drive-Loc Reversible Locking Blades**

On 4mm Hex blades

Item No.	mm	mm	lbs.
28009	1.5 + 1.8		.02
28010	2.0 + 2.5		.02
28011	3.0 + 3.0		.02
28012	3.2 + 3.2		.02
28013	3.5 + 3.5		.02
28014	4.0 + 4.0		.02
28015	4.5 + 4.5		.02
28016	5.0 + 5.0		.02
28017	5.5 + 5.5		.02



**SHOP**

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

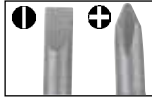
Item No.

26985	ESD Safe Drive-Loc Handle
	Slotted: 1.5x3.0, 2.0x3.5, 2.5x4.0
	lbs. .44 Phillips: 000x00, 0x1
	TORX®: T1xT2, T3xT4, T5xT6, T6xT8, T7xT9, T10xT15



## Wiha Canvas Pouch Sets

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



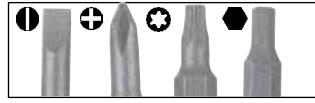
**26990 Slotted & Phillips Precision Interchangeable Blade Set, 4 Pcs.** Wiha ESD Safe precision collet lock handle and 3 Wiha interchangeable blades.

**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:**

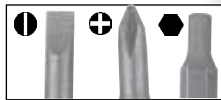
↓ **Slotted:** 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm

⊕ **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

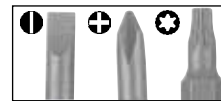
⊕ **Phillips:** 000, 00, 0, 1

⬢ **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®:** T5, 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

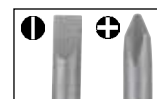
⊗ **TORX®:** T3, T4, T5, T6, T7, T8, T9, T10, T15

↔ **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






D




**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







D




**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




D




**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:** .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0mm

 lbs. .36




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**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





D




**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





D




**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





D




**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





D




**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





## SYSTEM 4 Handles & Micro Bits

**Tips**  
Exact fit,  
precision  
machined

**Rotating Cap**  
for precise  
turning & control

**Tapered Handle**  
allows rapid rotation,  
requires less clearance.  
Static Dissipative  
10<sup>6</sup> - 10<sup>9</sup> ohms

Bits CVM steel, hardened

Use bits directly in handle or with 4" bit extension



**753 SYSTEM 4 Hex Metric Bits** High alloy CVM steel, hardened, on 4 mm hex stock.

Item	Hex	mm	mm	Inch	lbs.
75307	.7	28	1.1	.01	
75309	.9	28	1.1	.01	
75313	1.3	28	1.1	.01	
75315	1.5	28	1.1	.01	
75320	2.0	28	1.1	.01	
75325	2.5	28	1.1	.01	
75330	3.0	28	1.1	.01	
75340	4.0	28	1.1	.01	



**757 SYSTEM 4 TORX® Bits**  
High alloy chrome-vanadium-molybdenum steel, hardened, on 4 mm stock.

Item	Torx	mm	Inch	lbs.
No.	Size	mm	Inch	lbs.
75703	T3	28	1.1	.01
75704	T4	28	1.1	.01
75705	T5	28	1.1	.01
75706	T6	28	1.1	.01
75707	T7	28	1.1	.01
75708	T8	28	1.1	.01
75709	T9	28	1.1	.01
75710	T10	28	1.1	.01
75715	T15	28	1.1	.01
75720	T20	28	1.1	.01



**757 SYSTEM 4 5Point Micro Bits** CVM steel, hardened, on 4 mm hex stock.

Item	Torx	mm	Inch	lbs.
No.	Size	mm	Inch	lbs.
75743	P1	28	1.1	.01
75744	P2	28	1.1	.01
75745	P3	28	1.1	.01
75746	P4	28	1.1	.01
75747	P5	28	1.1	.01
75748	P6	28	1.1	.01



**753 SYSTEM 4 Hex Inch Bits** High alloy CVM steel, hardened, on 4 mm hex stock.

Item	Hex	Inch	mm	Inch	lbs.
No.	Inch	mm	Inch	lbs.	
75307	.028	28	1.1	.01	
75309	.035	28	1.1	.01	
75313	.050	28	1.1	.01	
75350	1/16	28	1.1	.01	
75352	5/64	28	1.1	.01	
75354	3/32	28	1.1	.01	
75356	7/64	28	1.1	.01	
75358	1/8	28	1.1	.01	
75360	9/64	28	1.1	.01	
75340	5/32	28	1.1	.01	



**753 SYSTEM 4 TORX® Security Bits**  
High alloy CVM steel, hardened, on 4 mm stock.

Item	Torx	mm	Inch	lbs.
No.	Size	mm	Inch	lbs.
75727	T7s	28	1.1	.01
75728	T8s	28	1.1	.01
75729	T9s	28	1.1	.01
75735	T10s	28	1.1	.01
75739	T15s	28	1.1	.01
75742	T20s	28	1.1	.01



**750 SYSTEM 4 Slotted Bits** High alloy CVM steel, hardened, on 4 mm hex stock.

Item	Slotted	mm	mm	Inch	lbs.
No.	mm	mm	Inch	lbs.	
75008	0.8	28	1.1	.01	
75012	1.2	28	1.1	.01	
75015	1.5	28	1.1	.01	
75018	1.8	28	1.1	.01	
75020	2.0	28	1.1	.01	
75025	2.5	28	1.1	.01	
75030	3.0	28	1.1	.01	
75035	3.5	28	1.1	.01	
75040	4.0	28	1.1	.01	



**753 SYSTEM 4 Metric Security Hex Bits**  
High alloy CVM steel, hardened, on 4 mm hex stock.

Item	Hex	mm	mm	Inch	lbs.
No.	mm	mm	Inch	lbs.	
75322	2.0	28	1.1	.01	
75327	2.5	28	1.1	.01	
75332	3.0	28	1.1	.01	
75342	4.0	28	1.1	.01	



**758 SYSTEM 4 Metric & Inch Nut Setters**  
CVM steel, hardened, on 4 mm hex stock.

Item No.	Hex	mm	mm	Inch	lbs.
<b>Metric</b>	mm	mm	Inch	lbs.	
75820	2.0	30	1.2	.01	
75821	2.5	30	1.2	.01	
75822	3.0	30	1.2	.01	
75823	3.5	30	1.2	.01	
75824	4.0	30	1.2	.01	
75825	4.5	30	1.2	.01	
75826	5.0	30	1.2	.01	
75827	5.5	30	1.2	.01	
<b>Inch</b>	Inch	mm	Inch	lbs.	
75810	5/64	30	1.2	.01	
75811	3/32	30	1.2	.01	
75812	7/64	30	1.2	.01	
75813	1/8	30	1.2	.01	
75814	9/64	30	1.2	.01	
75815	5/32	30	1.2	.01	
75816	3/16	30	1.2	.01	
75817	7/32	30	1.2	.01	



**751 SYSTEM 4 Phillips Bits**  
High alloy chrome-vanadium-molybdenum steel, hardened, on 4 mm hex stock.

Item	Phillips	mm	Inch	lbs.
No.	Size	mm	Inch	lbs.
75105	000	28	1.1	.01
75110	00	28	1.1	.01
75115	0	28	1.1	.01
75120	1	28	1.1	.01



**753 SYSTEM 4 Security Hex Inch Bits**  
High alloy CVM steel, hardened, on 4 mm hex stock.






Item	Hex	Inch	mm	Inch	lbs.
No.	Inch	mm	Inch	lbs.	
75362	5/64	28	1.1	.01	
75364	3/32	28	1.1	.01	
75366	7/64	28	1.1	.01	
75368	1/8	28	1.1	.01	
75370	9/64	28	1.1	.01	
75372	5/32	28	1.1	.01	

**Wiha SYSTEM 4 Precision Bit Handle**



**75801 SYSTEM 4 ESD Safe Dissipative Precision Bit Handle** with rotating control cap. Wiha precision handle, tapered, high quality plastic, impact resistant. **Advantages:**

- For working in ESD sensitive applications Surface resistant  $10^6$ - $10^9$  Ohms
- Ball retainer holds bits securely in place
- Accepts all SYSTEM 4 Series bits
- 110mm/4.3" OAL

Item No.						lbs.
75801	4.0	.1574	14.0	.55	.06	



**Wiha SYSTEM 4 Compact Micro Bit Sets**

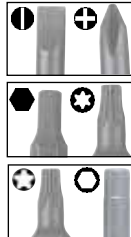


Surface resistance of ESD Safe handle is  $10^6$  -  $10^9$  Ohms

Extra fine 72 tooth reversible ratchet

100mm Extension blade non-magnetic

1/4" to 4mm magnetic adapter



**75965 SYSTEM 4 Master Tech ESD & Ratchet With Micro Bits, 65 Pieces In Storage Box.** Includes Wiha precision ESD Safe handle, micro bit extension, 72 tooth ratchet & 62 interchangeable micro bits.

**Item No.** With ESD Precision Handle, 1/4" Ratchet, Micro Bit Extension  
**75965 Set includes the following micro 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, T20
  - **Hex Metric:** .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0mm
  - **Hex Inch:** .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"
  - **Nut Drivers Metric:** 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5mm
  - **Nut Drivers Inch:** 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32"
  - **Pentalobe:** P1, P2, P3, P4, P5, P6
- Magnetic 1/4" to 4mm Adapter





lbs. 1.16



**Micro Bit Extension Blades**







**75900 Extension Blade For SYSTEM 4 Micro Bits.** Shaft CVM steel, hardened, corrosion protected. Ball retainer bit extension for 4 mm bits. Without magnet

Item No.					lbs.
75900	Size	mm	mm		
	4.0	100	4.0		.07



**75901 Magnetic Bit Extension Blade For SYSTEM 4 Micro Bits.** Shaft CVM steel, hardened. Magnetic bit holder.

Item No.					lbs.
75901	Size	mm	mm		
	4.0	100	4.0		.04



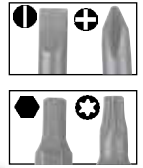
**Wiha SYSTEM 4 Compact Micro Bit Sets**

**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:** 1.3, 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



40 Pcs. Set



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

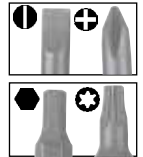


**75990 40 Pc. SYSTEM 4 Interchangeable Bit Set, In Canvas Pouch**

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

**Item No. SYSTEM 4 Combination 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:** 1.3, 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



40 Pc. Set





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

**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 No.					lbs.
75902	Size	mm	mm		
	1/4"	60	4.0		.05





## Wiha SYS 4 Compact Micro Bit Sets

### 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



11 Pc. Set

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



### 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



27 Pc. Set

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

### 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

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 Metric: .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0mm

- 100mm Bit Extension - non-magnetic

lbs. .26



27 Pc. Set

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

## 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

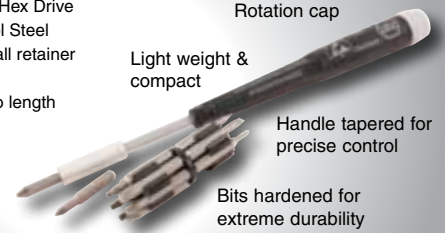
Rotation cap

Light weight & compact

Handle tapered for precise control

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

Bits hardened for extreme durability



### 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 ESD Safe Precision Handle

- 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



### 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 ESD Safe Precision Handle

- 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



### 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 ESD Safe Precision Handle

- Slotted: 1.5, 2.0, 2.5, 3.0mm

- Phillips: 00, 0, 1

- Hex Metric: .9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0mm

- 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

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

- Hex Metric: .9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0mm

- 100mm Bit Extension

lbs.

.17



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

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



## Wiha ESD Safe SoftFinish Cushion Grip Screwdrivers

For working on static sensitive components

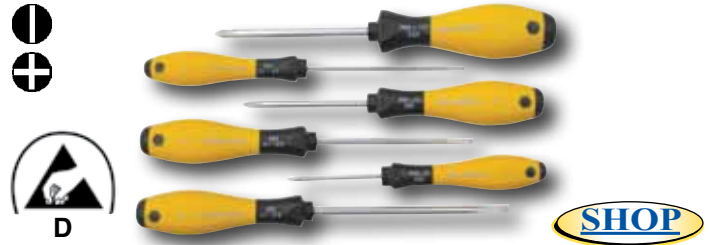
Dissipative material offers protection against electrostatic discharge

**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



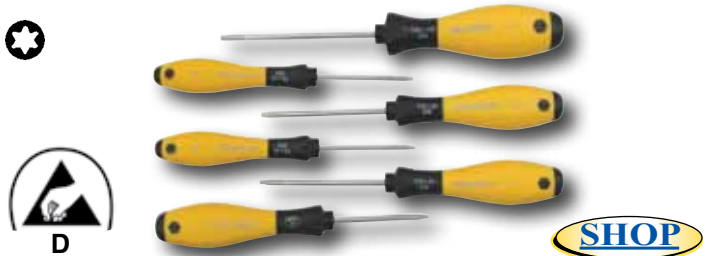
**362 ESD Safe TORX® Screwdriver, With Wiha-SoftFinish® Handle**  
**DIN EN 61340-5-1/61340-5-2** Round blade, high alloy CVM steel, hardened, hard chromed. Offers protection against electrostatic discharge. Dissipative SoftFinish® cushion grip handle, multi-component, ESD Safe (10<sup>6</sup>-10<sup>9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



**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



**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.



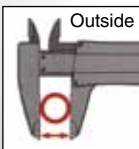
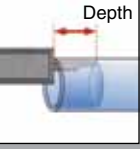
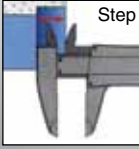
Thermal stability of the measuring surfaces:  
Short-term up to 180°C, continuous 100-120°C

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

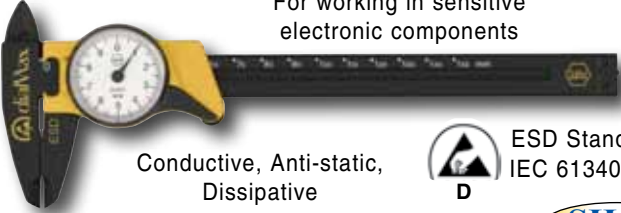








**ESD Safe Dial Caliper DialMax - Metric/Inch**

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.						
	mm	mm	Inch	mm	Inch	lbs.
10820	6.0	135	5.3	15.2	.60	.16

## Wiha Drive-Loc VI Handle & Blades

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

Locking mechanism in SoftFinish cushion grip handle

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

Surface resistance of handle is  $10^9 - 10^{10}$  Ohms

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

Wiha-SoftFinish® 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	lbs.				
28486	6.0	115	4.5	36.0	1.41	.21				

### 28105 ESD Safe Drive-Loc VI Cushion Grip Handle

Wiha-SoftFinish® impact resistant, friction hold.

**Advantages:** Static Dissipative, ideal for use on static sensitive electronic components and equipment. Fits all Drive-Loc blades

Item										
No.	mm	mm	Inch	mm	Inch	lbs.				
28105	6.0	122	4.8	36.0	1.41	.22				

## 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® 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® 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® 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® 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			

**Wiha Drive-Loc VI Blades**



**281 Torq Set® 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	




**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**

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	



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

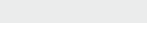
High alloy CVM steel, through hardened, hard chrome finish.  
OAL blade length 6.5". Blades fit all Drive-Loc VI handles.

Item	○	↔	▬	
No.	mm	OAL	lbs.	pkg.
28144	6.0	150mm	.14	1



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

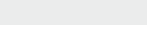
High alloy CVM steel, through hardened, hard chrome finish.  
OAL blade length 150mm/5.9". Blades fit all Drive-Loc VI handles.

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	


**ESD Safe TorqueControl Tools**



Includes Certificate

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

EN ISO 6798, BS EN 26789, ASME B107.14M, +/- 10% 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	↔	↔	↔	▬	
No.	Nm	mm	Inch	lbs.	pkg.	
28500	.04 - .46	124	4.875"	.30	1	

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



**288 ESD Safe 5Point Interchangeable Blades For TorqueVario-S Newton Meter Handle**

tip blades on narrow 5/32 Hex shafts.  
High alloy CVM steel, hardened, hard chromed.

Item	⬢	↔	⬢	↔	▬	
No.	Size	mm	mm	lbs.	pkg.	
28818	PS1	175	4.0	.06	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.	Repeatability
No.	Inch lbs.	Increments	mm	lbs.	pkg.	Repeatability	
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**



**28882 ESD Safe Bit Holder Adapter For 1/4" Drive Bits Shaft CVM** steel, hardened, corrosion protected. (Not for use in Insulated handles)

Item	Size	mm	mm	lbs.	pkg.
28882	1/4	162	4.0	.09	1



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.	Bit Types	lbs.
28591	Slotted: 1.5, 2.0, 3.0, 4.0mm Phillips: #00, #0, #1 TORX®: T6, T7, T8, T9, T10, T15 Hex Inch: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"	1.31
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.

Item No.	Bit Types	lbs.
28592	Slotted: 1.5, 2.0, 3.0, 4.0mm Phillips: #00, #0, #1 TORX®: T6, T7, T8, T9, T10, T15 Hex Inch: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"	1.31
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	No.	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	No.	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	No.	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.	Bit Types	lbs.
28890	Slotted: 1.5, 2.0, 3.0, 4.0mm Phillips: #00, #0, #1 TORX®: T6, T7, T8, T9, T10, T15 Hex Inch: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"	1.33
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

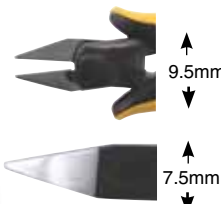
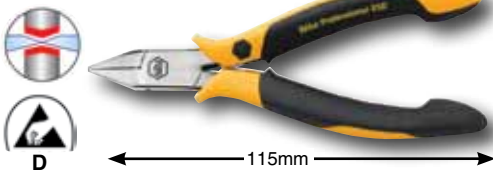


Hardened & annealed high carbon tool steel, induction hardened cutting edges



**Precision Cutters Tapered Head**

Semi Flush



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

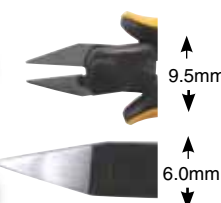
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

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**

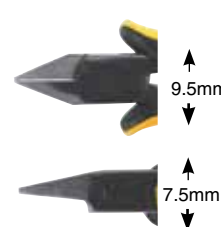
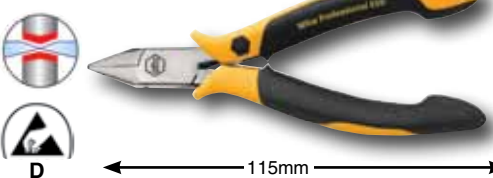
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

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**

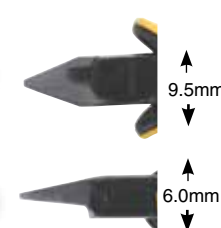
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

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

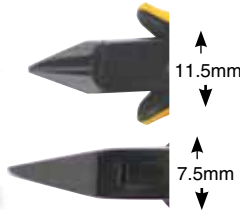
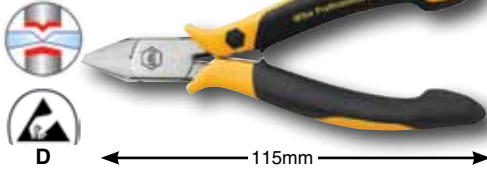




**Wiha ESD Safe Pliers & Cutters**

**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

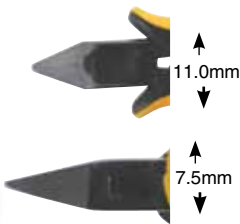
32706	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.4	11.0mm	1	.20

Surface resistance of handles is 10<sup>8</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

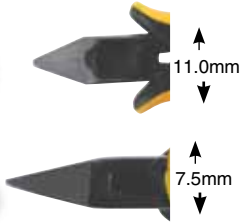
32708	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	11.0mm	1	.19

Surface resistance of handles is 10<sup>8</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

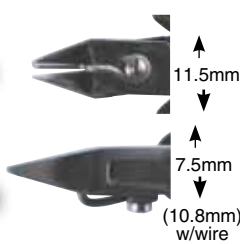
32710	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.0	11.0mm	1	.23

Surface resistance of handles is 10<sup>8</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

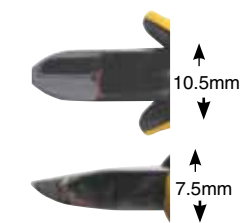
32711	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	11.0mm	1	.19

Surface resistance of handles is 10<sup>8</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

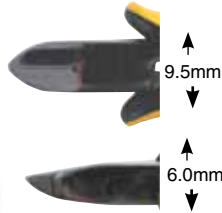
Surface resistance of handles is 10<sup>8</sup> - 10<sup>9</sup> Ohms



**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

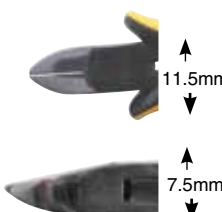
32714	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.0	10.0mm	1	.23

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

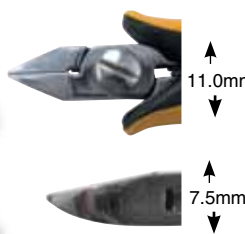
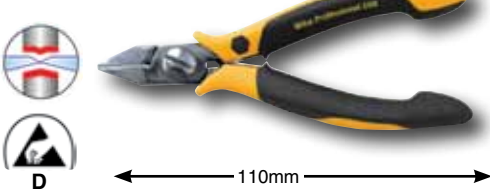
32716	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.4	11.0mm	1	.19

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

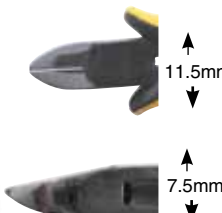
32718	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	110	4 3/8	1.6	11.0mm	1	.20

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

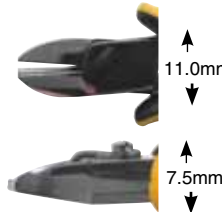
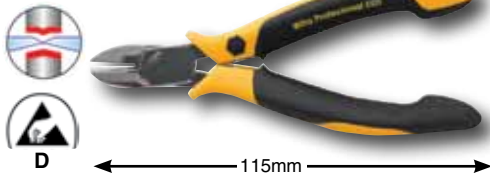
32720	mm	Inch	Copper	Head Wdth	Pkg.	wt.
	115	4.5	1.2	11.0mm	1	.19

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

