

# PRODUCT SPECIFICATION

**Carl  
Kammerling**  
International

<b>Brand</b>	C.K
<b>Product Range</b>	Sensoplus ESD Pliers
<b>Catalogue number</b>	3703D, 3707D, 3760D, 3766D, 3767D, 3769D, 3770D, 3771D, 3772D, 3773D, 3777D, 3779D, 3780D, 3781D, 3782D, 3783D, 3786D, 3787D, 3799D, 3871D, 3880D
<b>Date</b>	27/10/2008

## Range Description

A range of professional quality ESD Electronic pliers and cutters

## Features

- Hot drop forged high alloy carbon and chrome vanadium steel for maximum strength
- Precision box joint for smooth and accurate action, longer product life. No adjustments necessary for the life of the pliers
- Induction hardened blades for a long life
- Mirror polished surface removes the risk of damage through flaking chrome
- Spot welded double leaf springs removes the need for adjustment or replacement
- Ergonomically designed dual component handles – fully ESD compliant
- Items marked \* have Tungsten carbide cutting edges for the ultimate in long life performance
- Cat no 3782D feature a wire catch facility to stop the loss of off-cuts in sensitive equipment

**SENSOPLUS** ESD



3703



3707D



3760D



3766D



3767D



3769D



3770D



3771D



3772D



3773D



3777D



3779D



3780D



3781D



3782D



3783D



3786D



3787D



3799D



3871D



3880D

Item Number	Item Description	EAN No	Commodity code	Carton Qty
T3703D	Sensoplus ESD 6 Piece Pliers Set Containing T3773D 115, T3880DF 110, T3766DF 110, T3786DF 120, T3772D 120, T3770D 120.	5013969978193	82060000	1
T3707DX	ESD 14 Piece Tool Kit Containing Sensoplus ESD Pliers T377D 120 & T3773D 115. T2334 Positioning Tweezers, T2343 Precision Tweezers, T4880XESD Slotted Screwdrivers	5013969983784	82060000	1

	1.5x60, 1.8x60, 2.5x60, 2.5x75, 3.0x100, 4.0x100, T4882XESD Screwdrivers PH000x60, PH00x60, PH0x60, PH1x80			
T3760DF 110	Sensoplus ESD Oblique Cutter Full Flush 120mm*	5013969988758	82032090	1
T3766DEF110	Sensoplus ESD Side Cutter Extra Full flush 110mm	5013969028287	82032090	1
T3766DF 110	Sensoplus ESD Side Cutter Full Flush 110mm	5013969973518	82032090	1
T3767D 120	Sensoplus ESD Snipe Nose Pliers 120mm	5013969982145	82032090	1
T3769D 150	Sensoplus ESD Bent Snipe Nose Pliers 150mm	5013969982152	82032090	1
T3770 1D120	Sensoplus ESD Flat Nose Pliers 120mm	5013969982169	82032090	1
T3770D 120	Sensoplus ESD Flat Nose Pliers Smooth 120mm	5013969973655	82032090	1
T3771D 120	Sensoplus ESD Round Nose Pliers Smooth 135mm	5013969986945	82032090	1
T3772 1D120	Sensoplus ESD Snipe Nose Pliers 120mm	5013969037456	82032090	1
T3772D 120	Sensoplus ESD Snipe Nose Pliers 120mm	5013969973662	82032090	1
T3773D 115	Sensoplus ESD Side Cutter Mini Bevel 115mm	5013969973549	82032090	1
T3773DEF115	Sensoplus ESD Side Cutter Extra Full Flush 115mm	5013969973563	82032090	1
T3773DF 115	Sensoplus ESD Side Cutter Full Flush 115mm	5013969973556	82032090	1
T3777D 150	Sensoplus ESD Snipe Nose Plier 150mm	5013969037449	82032090	1
T3779D 115	Sensoplus ESD Side Cutter Mini Bevel 125mm*	5013969982039	82032090	1
T3780DF 110	Sensoplus ESD Side Cutter Full Flush 110mm	5013969973495	82032090	1
T3781D 115	Sensoplus ESD Side Cutter Mini Bevel 115mm	5013969973570	82032090	1
T3781DEF115	Sensoplus ESD Side Cutter Extra Full Flush 115mm	5013969973594	82032090	1
T3781DF 115	Sensoplus ESD Side Cutter Full Flush 115mm	5013969973587	82032090	1
T3782D 115	Sensoplus ESD Side Cutter Mini Bevel 115mm	5013969982053	82032090	1
T3782DEF 115	Sensoplus ESD Side Cutter Extra Full Flush 115mm	5013969982077	82032090	1
T3783D	Sensoplus ESD Needle Nose Pliers 145mm	5013969982190	82032090	1
T3786DF 120	Sensoplus ESD Oblique Cutter Full Flush 120mm	5013969973624	82032090	1
T3787DF 115	Sensoplus ESD Side Cutter Full Flush 125mm*	5013969985870	82032090	1
T3799DEF 110	Sensoplus ESD Oblique Cutter Extra Full Flush 120mm	5013969982084	82032090	1
T3799DF 110	Sensoplus ESD Oblique Cutter Full Flush 110mm	5013969973631	82032090	1
T3871DF 120	Sensoplus ESD Oblique Cutter Full Flush 120mm	5013969973648	82032090	1
T3880DF 110	Sensoplus ESD Side Cutter Full Flush 110mm	5013969973532	82032090	1

Technical product information	<p><b>Cutting capacities (mm/AWG)</b></p> <table border="1" data-bbox="427 667 1152 1312"> <thead> <tr> <th>Item</th> <th>Soft</th> <th>Med/hard</th> <th>Hard</th> <th>Piano</th> </tr> </thead> <tbody> <tr><td>T3760DF 110</td><td>2.0/12</td><td></td><td>1.0/18</td><td>0.6/22</td></tr> <tr><td>T3766DEF110</td><td>1.5/15</td><td>0.8/20</td><td></td><td></td></tr> <tr><td>T3766DF 110</td><td>1.5/15</td><td>0.8/20</td><td></td><td></td></tr> <tr><td>T3773D 115</td><td>1.5/15</td><td>1.0/18</td><td>0.4/26</td><td></td></tr> <tr><td>T3773DEF115</td><td>1.5/15</td><td>0.8/20</td><td></td><td></td></tr> <tr><td>T3773DF 115</td><td>1.5/15</td><td>1.0/18</td><td></td><td></td></tr> <tr><td>T3779D 115</td><td>2.0/12</td><td></td><td>1.0/18</td><td>0.6/22</td></tr> <tr><td>T3780DF 110</td><td>1.5/15</td><td>0.8/20</td><td></td><td></td></tr> <tr><td>T3781D 115</td><td>1.5/15</td><td>1.0/18</td><td>0.3/28</td><td></td></tr> <tr><td>T3781DEF115</td><td>1.5/15</td><td>0.8/20</td><td></td><td></td></tr> <tr><td>T3781DF 115</td><td>1.5/15</td><td>1.0/18</td><td></td><td></td></tr> <tr><td>T3782D 115</td><td>1.5/15</td><td>1.0/18</td><td>0.4/26</td><td></td></tr> <tr><td>T3782DEF 115</td><td>1.5/15</td><td>0.8/20</td><td></td><td></td></tr> <tr><td>T3786DF 120</td><td>0.8/20</td><td>0.6/22</td><td></td><td></td></tr> <tr><td>T3787DF 115</td><td>1.8/13</td><td></td><td>0.8/20</td><td>0.4/26</td></tr> <tr><td>T3799DEF 110</td><td>1.0/18</td><td>0.8/20</td><td></td><td></td></tr> <tr><td>T3799DF 110</td><td>1.2/16</td><td>1.0/18</td><td>0.4/26</td><td></td></tr> <tr><td>T3871DF 120</td><td>0.8/20</td><td>0.6/22</td><td></td><td></td></tr> <tr><td>T3880DF 110</td><td>1.5/15</td><td>0.8/20</td><td></td><td></td></tr> </tbody> </table> <p><b>Wire definitions</b>          Piano Wire – Hardened spring steel, 2200 to 2300N/mm<sup>2</sup>          Hard Wire – Spring Steel, Steel nails, 1600 to 1800N/mm<sup>2</sup>          Medium/Hard Wire – Iron, nails, 750 to 800N/mm<sup>2</sup>          Soft Wire – Copper, Aluminium, 220 to 250N/mm<sup>2</sup></p>	Item	Soft	Med/hard	Hard	Piano	T3760DF 110	2.0/12		1.0/18	0.6/22	T3766DEF110	1.5/15	0.8/20			T3766DF 110	1.5/15	0.8/20			T3773D 115	1.5/15	1.0/18	0.4/26		T3773DEF115	1.5/15	0.8/20			T3773DF 115	1.5/15	1.0/18			T3779D 115	2.0/12		1.0/18	0.6/22	T3780DF 110	1.5/15	0.8/20			T3781D 115	1.5/15	1.0/18	0.3/28		T3781DEF115	1.5/15	0.8/20			T3781DF 115	1.5/15	1.0/18			T3782D 115	1.5/15	1.0/18	0.4/26		T3782DEF 115	1.5/15	0.8/20			T3786DF 120	0.8/20	0.6/22			T3787DF 115	1.8/13		0.8/20	0.4/26	T3799DEF 110	1.0/18	0.8/20			T3799DF 110	1.2/16	1.0/18	0.4/26		T3871DF 120	0.8/20	0.6/22			T3880DF 110	1.5/15	0.8/20		
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Standards compliance	Handle materials electrostatically dissipative to DIN EN 61340 5.1 & 5.2																																																																																																				
User health and safety information	None applicable																																																																																																				
RoHS/WEEE compliance	These products do not fall within the scope of RoHS or WEEE regulations																																																																																																				
Material safety data	None applicable																																																																																																				
Warranty	C.K Sensoplus ESD pliers and cutters are guaranteed for life against imperfect																																																																																																				

	materials or workmanship Normal wear and tear or damage caused through inappropriate use is not covered
Country of origin	Germany

## Dimensional details

Item	Product only				Product on primary packaging			
	Width mm	Depth mm	Height mm	Net weight g	Width mm	Depth mm	Height mm	Gross weight g
T3703D	150	30	235	615	-	-	-	-
T3707DX	260	205	40	655	-	-	-	-
T3760DF 110	75	16	120	52	60	25	160	71
T3766DEF110	75	6	110	43	60	25	160	62
T3766DF 110	75	6	110	43	60	25	160	62
T3767D 120	75	10	120	52	60	25	205	73
T3769D 150	75	20	150	83	60	25	205	104
T3770 1D120	75	7	120	56	60	25	205	77
T3770D 120	75	7	120	56	60	25	205	77
T3771D 120	75	6	135	52	60	25	205	73
T3772 1D120	75	6	120	52	60	25	205	73
T3772D 120	75	6	120	52	60	25	205	73
T3773D 115	75	8	115	60	60	25	160	78
T3773DEF115	75	8	115	60	60	25	160	78
T3773DF 115	75	8	115	60	60	25	160	78
T3777D 150	75	8	150	88	60	25	205	107
T3779D 115	75	12	125	62	60	25	160	81
T3780DF 110	75	12	110	45	60	25	160	64
T3781D 115	75	8	115	52	60	25	160	71
T3781DEF115	75	8	115	52	60	25	160	71
T3781DF 115	75	8	115	52	60	25	160	71
T3782D 115	75	8	115	65	60	25	160	84
T3782DEF 115	75	8	115	65	60	25	160	84
T3783D	75	8	145	74	60	25	205	95
T3786DF 120	75	7	120	54	60	25	205	75



T3787DF 115	75	8	125	54	60	25	160	73
T3799DEF 110	75	12	120	61	60	25	160	80
T3799DF 110	75	12	110	61	60	25	160	80
T3871DF 120	75	6	120	54	60	25	205	75
T3880DF 110	75	6	110	45	60	25	160	64

Item	Shelf box (secondary packaging)				Euro Pallet data Wi x Hi	
	Width mm	Depth mm	Height mm	Gross weight g	No of cartons on base	Number of rows high
T3703D	-	-	-	-		
T3707DX	-	-	-	-		
T3760DF 110	-	-	-	-		
T3766DEF110	-	-	-	-		
T3766DF 110	-	-	-	-		
T3767D 120	-	-	-	-		
T3769D 150	-	-	-	-		
T3770 1D120	-	-	-	-		
T3770D 120	-	-	-	-		
T3771D 120	-	-	-	-		
T3772 1D120	-	-	-	-		
T3772D 120	-	-	-	-		
T3773D 115	-	-	-	-		
T3773DEF115	-	-	-	-		
T3773DF 115	-	-	-	-		
T3777D 150	-	-	-	-		
T3779D 115	-	-	-	-		
T3780DF 110	-	-	-	-		
T3781D 115	-	-	-	-		
T3781DEF115	-	-	-	-		
T3781DF 115	-	-	-	-		
T3782D 115	-	-	-	-		
T3782DEF 115	-	-	-	-		
T3783D	-	-	-	-		

T3786DF 120	-	-	-	-		
T3787DF 115	-	-	-	-		
T3799DEF 110	-	-	-	-		
T3799DF 110	-	-	-	-		
T3871DF 120	-	-	-	-		
T3880DF 110	-	-	-	-		

## Packaging waste details

Item	Primary Packaging				Secondary packaging			
	Plastic g	Use	Card g	Use	Plastic g	Use	Card g	Use
T3703D	8	Bag	-	-	-	-	-	-
T3707DX	-	-	108	Box	-	-	-	-
T3760DF 110	1	Bag	18	Box	-	-	-	-
T3766DEF110	1	Bag	18	Box	-	-	-	-
T3766DF 110	1	Bag	18	Box	-	-	-	-
T3767D 120	1	Bag	20	Box	-	-	-	-
T3769D 150	1	Bag	20	Box	-	-	-	-
T3770 1D120	1	Bag	20	Box	-	-	-	-
T3770D 120	1	Bag	20	Box	-	-	-	-
T3771D 120	1	Bag	20	Box	-	-	-	-
T3772 1D120	1	Bag	20	Box	-	-	-	-
T3772D 120	1	Bag	20	Box	-	-	-	-
T3773D 115	1	Bag	18	Box	-	-	-	-
T3773DEF115	1	Bag	18	Box	-	-	-	-
T3773DF 115	1	Bag	18	Box	-	-	-	-
T3777D 150	1	Bag	20	Box	-	-	-	-
T3779D 115	1	Bag	18	Box	-	-	-	-
T3780DF 110	1	Bag	18	Box	-	-	-	-
T3781D 115	1	Bag	18	Box	-	-	-	-
T3781DEF115	1	Bag	18	Box	-	-	-	-
T3781DF 115	1	Bag	18	Box	-	-	-	-
T3782D 115	1	Bag	18	Box	-	-	-	-
T3782DEF 115	1	Bag	18	Box	-	-	-	-
T3783D	1	Bag	20	Box	-	-	-	-
T3786DF 120	1	Bag	20	Box	-	-	-	-

T3787DF 115	1	Bag	18	Box	-	-	-	-
T3799DEF 110	1	Bag	18	Box	-	-	-	-
T3799DF 110	1	Bag	18	Box	-	-	-	-
T3871DF 120	1	Bag	20	Box	-	-	-	-
T3880DF 110	1	Bag	18	Box	-	-	-	-