

CooperTools



Kahnetics®

DISPENSING SYSTEMS

COOPER Tools

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Building a Dispensing System

Needle Information Chart

Stainless Steel, Anti-Static, Opaque Needles

Blunt Tip, Plastic Threaded Hub, Disposable, Non-sterile

Gauge	I.D.		O.D.		Hub Color
	Inch	mm	Inch	mm	
14	0.067	1.702	0.083	2.108	Dark Green
15	0.060	1.524	0.072	1.829	Orange
16	0.053	1.346	0.064	1.626	Purple
17	0.047	1.194	0.057	1.448	White
18	0.038	0.965	0.050	1.270	Pink
19	0.032	0.813	0.042	1.067	Brown
20	0.026	0.660	0.035	0.889	Yellow
21	0.023	0.584	0.032	0.813	Green
22	0.019	0.483	0.028	0.711	Black
23	0.017	0.432	0.025	.0635	Light Blue
24	0.014	0.356	0.022	0.559	Red
25	0.012	.0305	0.020	0.508	Blue
26	0.010	0.254	0.018	0.457	Tan
27	0.008	0.203	0.016	0.406	Grey
30	0.006	0.152	0.012	0.305	Lavender

Taper Tip Needles

Polyethylene Taper Tip Luer Lok; Overall Length = 1 1/4" (31.75mm)

Gauge	Color	I.D.	
		Inch	mm
14	Salmon	0.063	1.600
16	Grey	0.048	1.219
18	Green	0.034	.0864
20	Pink	0.024	0.610
22	Blue	0.017	0.432
24	Red	0.013	0.330

Teflon Needles

Polyethylene Taper Tip Luer Lok

Gauge	Color	I.D.	
		Inch	mm
15	Orange	0.059	1.499
18	Pink	0.042	1.067
20	Yellow	0.034	.0864
22	Black	0.028	0.711
23	Light Blue	0.026	0.660
26	Tan	0.018	0.457
30	Lavender	0.012	0.305

Product Selection Guide												
	Handpiece	KDSDELUXEKIT	KDS807OP	KDS100CA	KDS100HCA	KDS100WCA	KDS2601HL	KDS760A	KDS805FS	KDS301		
Controller												
KDS2001HC												
KDS806(V)												
KDS806D(VD)		X										
KDS808												
KDS808D		X										
KDS824A												
KDS824AD		X										
KDS834A												
KDS834AD		X							X			
KDS834AFS												
SYSTEM100							X					
SYSTEM225						X						
SYSTEM230					X							
SYSTEM240				X								
SYSTEM300								X				
SYSTEM500		X								X		
SYSTEM800			X									

KDS824A Deluxe Shot Meter



- Digital timer control allows metered shot repeatability
- Shot time duration adjustable from 0.01 to 99.99 seconds
- Adjustable four position push button timer switch
- Vacuum feature prevents dripping
- Electrically actuated foot pedal
- Optional KDS805FS finger switch is available (see page 25)
- Accessory port for optional KDS301 vacuum pickup wand (see page 11) or for pressurizing an external cartridge or tank
- Two 0 - 100 PSI regulators and gauges with locking ring
- Benchtop unit for easy reading of dials and adjustment of air pressure and vacuum
- Low voltage unit for safety
- Slide switch easily changes unit from 115 to 230 volts
- Order syringe adapters, kits and other accessories separately
- KDS824AD includes KDSDELUXEKIT (see page 6)

Controller		KDS824A
Input Voltage (Switchable)	115v	230v
Output Voltage	24v	24v
Air Input/Output	0-100 psi	0-6.9 Bar
Vacuum	0-18" Hg	-0.61 Bar
Footprint	9.5"W x 7.75"D x 5"H	24.1cm x 19.7cm x 12.7cm
Weight	7 lb, 7 oz	16.4 kg
Timer Range	.01 to 99.99 seconds	
Repeat Accuracy	.5 ms (.0005 sec.)	
Recycle Time	12 ms (.012 sec.)	
Setting Accuracy	± 2%	

Cat No.	UPC No.	Order Number (Europe Only)	Packed	Description	Pack Wt.		Pack Quantity
					lb	g	
KDS824A	037103173720	005 31 636 99	Boxed	Deluxe Shot Meter	9.090	257.5	1
KDS824AD	037103173737	--	Boxed	Deluxe Shot Meter w/Deluxe Starter Kit	14.250	403.7	1

KDS834A Economy Shot Meter



- Digital timer control allows metered shot repeatability
- Shot time duration adjustable from 0.01 to 99.99 seconds
- Adjustable four position push button timer switch
- Vacuum feature prevents dripping
- Electrically actuated foot pedal
- Optional KDS805FS finger switch is available (see page 25)
- 0 - 100 PSI regulators and gauges with locking ring
- Benchtop unit for easy reading of dials and adjustment of air pressure and vacuum
- Low voltage unit for safety
- Slide switch easily changes unit from 115 to 230 volts
- Order syringe adapters, kits and other accessories separately
- KDS834AD includes KDSDELUXEKIT (see page 6)

Controller		KDS834A
Input Voltage (Switchable)	115v	230v
Output Voltage	24v	24v
Air Input/Output	0-100 psi	0-6.9 Bar
Vacuum	0-18" Hg	-0.61 Bar
Footprint	6.25"W x 7.75"D x 5"H	15.9cm x 19.7cm x 12.7cm
Weight	5 lb, 10 oz	12.4 kg
Timer Range	.01 to 99.99 seconds	
Repeat Accuracy	.5 ms (.0005 sec.)	
Recycle Time	12 ms (.012 sec.)	
Setting Accuracy	± 2%	

Cat No.	UPC No.	Order Number (Europe Only)	Packed	Description	Pack Wt.		Pack Quantity
					lb	g	
KDS834A	037103173744	005 31 656 99	Boxed	Economy Shot Meter	8.140	230.6	1
KDS834AD	037103173751	--	Boxed	Economy Shot Meter w/Deluxe Starter Kit	12.800	362.6	1

KDS808 Shot Meter with Vacuum

- Basic low cost system
- Easy to set up and operate
- "Eyeball" accuracy
- Electrically actuated foot pedal
- Vacuum feature prevents dripping
- 0 - 100 PSI regulators and gauges with locking ring
- Benchtop unit for easy reading of dials and adjustment of air pressure and vacuum
- Low voltage unit for safety
- Slide switch easily changes unit from 115 to 230 volts
- Order syringe adapters, kits and other accessories separately
- KDS808D includes KDSDELUXEKIT (see page 6 for details)



Controller	KDS808	
Input Voltage (Switchable)	115v	230v
Output Voltage	24v	24v
Air Input/Output	0-100 psi	0-6.9 Bar
Vacuum	0-18" Hg	-0.61 Bar
Footprint	5"W x 7.75"D x 5"H	12.7cm x 19.7cm x 12.7cm
Weight	5 lb, 1 oz	11.1 kg

Cat No.	UPC No.	Order Number (Europe Only)	Packed	Description	Pack Wt.		Pack Quantity
					lb	g	
KDS808	037103173706	005 31 616 99	Boxed	Shot Meter w/Vacuum Only	7.340	207.9	1
KDS808D	037103173713	--	Boxed	Shot Meter w/Vacuum & Deluxe Starter Kit	12.060	341.7	1

KDS2001HC Shot Meter for CA Valves

- Functions as a controller for high pressure cyanoacrylate valves
- Adjustable four position push button timer switch
- LED Indicator light
- 0 - 100 PSI regulators and gauges with locking ring
- Benchtop unit for easy reading of dials and adjustment of air pressure and vacuum
- Low voltage unit for safety
- Slide switch easily changes unit from 115 to 230 volts
- Order syringe adapters, kits and other accessories separately



Controller	KDS2001HC	
Input Voltage (Switchable)	115v	230v
Output Voltage	24v	24v
Air Input/Output	0-100 psi	0-6.9 Bar
Vacuum	0-18" Hg	-0.61 Bar
Footprint	8.5"W x 6.5"D x 3.625"H	21.6cm x 16.5cm x 9.2cm
Weight	8 lb, 1 oz	12.4 kg
Timer Range	.01 to 99.99 seconds	
Repeat Accuracy	.5 ms (.0005 sec.)	
Recycle Time	12 ms (.012 sec.)	
Setting Accuracy	± 2%	

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS2001HC	037103173645	Boxed	Shot Meter for Cyanoacrylate Valves	8.320	235.7	1

KDS806(V) Foot Valve



- Basic ON-OFF function
- "Eyeball" accuracy
- Foot actuated for excellent ergonomics
- Works on compressed air input only - no electricity required
- 0 - 100 PSI regulator and gauge
- Easy to set up and operate
- Sits on the floor, thus using no table space
- KDS806V includes drip-free vacuum accessory
- Order syringe adapters, kits and other accessories separately
- KDS806D and KDS806VD include KDSDELUXEKIT (see page 6 for details)

Controller		KDS806/KDS806V	
Air Input/Output	0-100 psi	0-6.9 Bar	
Vacuum	0-18" Hg	-0.61 Bar	
Footprint - KDS806	3.75"W x 7.25"D x 3.75"H	9.5cm x 18.4cm x 9.5cm	
Footprint - KDS806V	3.75"W x 8.5"D x 3.75"H	9.5cm x 21.6cm x 9.5cm	
Weight	3 lb, 5 oz	7.3 kg	

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS806	037103173805	Boxed	Foot Valve	4.513	127.9	1
KDS806D	037103173812	Boxed	Foot Valve w/Deluxe Starter Kit	10.170	288.1	1
KDS806V	037103173836	Boxed	Foot Valve w/Vacuum	4.715	133.6	1
KDS806VD	037103173843	Boxed	Foot Valve w/Vacuum & Deluxe Starter Kit	9.890	280.2	1

Deluxe Kit for Shot Meters/Foot Valves (dispenser not included)



- A starter-kit for users who do not know which size syringe will be used or when size requirements change. Kit is available separately or as an option with most shot meters

Kit contents:

- Four plastic adapter assemblies (3, 5, 10 & 30cc)
- Samples of Luer Lok™ and tapered syringes
- Syringe tip caps
- Needle samples (non-sterile, blunt) in stainless, Teflon, and plastic tapered tip
- Syringe stand
- Material line filter
- 2-oz. squeeze bottle
- Industrial vinyl gloves

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDSDELUXEKIT	037103174451	Boxed	Deluxe Starter Kit for Shot Meters and Foot Valves	3.472	98.4	1

System100 Solder Mask System

- For water soluble and peelable solder masks
- For a any one-part flowable material (i.e. conformal coating, oil, etc.)
- One-gallon capacity tank (three gallon tank available - see page 13)
- Lightweight finger-actuated wand and pinch tube eliminate need for cleanup
- Eliminates the "squeeze bottle application" method
- One central tank can accommodate up to four users
- Tank acts as a material storage vessel, no need to purge system after each use
- Use with Weller® Spot Mask SM15748BK



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
SYSTEM100	037103174468	Boxed	One Gallon Tank System w/4 Wands	14.160	401.2	1

System 225 Manual Wand Cyanoacrylate System

- Wand has a manual activation lever
- Wand gives you fine adjustment control over shot size
- Eliminates squeeze bottle
- Ergonomic design
- Accommodates standard 1 lb. cyanoacrylate bottles



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
SYSTEM225	037103174482	Boxed	Manual Cyanoacrylate System	6.165	174.7	1

System 230 Hand Held Cyanoacrylate System

- Uses KDS2001HC valve controller (see page 5)
- Digital timer control allows metered shot repeatability
- Shot time duration adjustable from 0.01 to 99.99 seconds
- Adjustable four position push button timer switch
- Ergonomic hand held valve
- Electrically actuated foot pedal
- Accommodates standard 1 lb. (500g) bottles



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
SYSTEM230	037103174499	Boxed	Hand Held Cyanoacrylate System	16.6	470.40	1

System 240 Fixtured Cyanoacrylate System



- Uses KDS2001HC valve controller (see page 5)
- Digital timer control allows metered shot repeatability
- Shot time duration adjustable from 0.01 to 99.99 seconds
- Adjustable four position push button timer switch
- Mounted valve for hands-free dispensing
- Electrically actuated foot pedal
- Accommodates standard 1 lb. (500g) bottles

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
SYSTEM240	037103174512	Boxed	Fixtured Cyanoacrylate System	16.6	470.40	1

System 300 3 Gallon Tank with Shot Meter



- Digital timer control allows metered shot repeatability
- Valve's vacuum "suck-back" feature prevents dripping
- Use with low to medium viscosity, one-component materials
- Excellent for solder masks, UV materials (black hose available), oil, etc.
- Comes with three-gallon tank, one-gallon tank available (see page 14)
- Electrically actuated foot pedal
- Optional KDS805FS finger switch is available (see page 25)
- Can be modified to accommodate multiple valves
- One in-house airline pressurizes both valve and tank

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
SYSTEM300	037103174529	Boxed	3 Gallon Tank with Shot Meter	20.250	573.7	1

System 500 SMT Rework System



- Use to dispense solder paste during SMT rework operations
- Pickup wand to move and locate SMT components
- Excellent for solder pastes as well as any syringe loaded material
- Consists of a KDS824A Deluxe Shot Meter (see page 4), KDS301 Vacuum Pickup Wand (see page 11) and Deluxe Starter Kit (see page 6)

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
SYSTEM500	037103174574	Boxed	Vacuum Pick-up System	13.290	376.5	1

System 800 Gunstand with Foot Valve

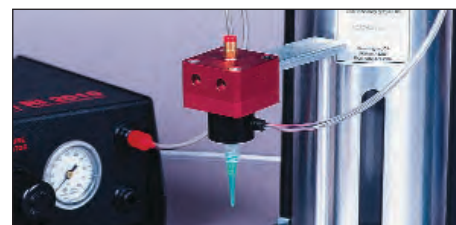
- For use with high viscosity sealant, caulk, and adhesive
- Air operated with manual "ON-OFF" control
- Comes with 6 ounce cartridge retainer (2.5 and 12 oz. sizes available - see page 12)
- For use with loadable, disposable cartridges
- Foot actuated valve with pressure gauge
- Minimal waste and cleanup



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
SYSTEM800	037103174581	Boxed	Gunstand with KDS806 Foot Valve	13.120	371.7	1

KDS100CA Fixtured Cyanoacrylate Valve

- Mounted valve for hands-free dispensing
- Foot actuated and metered for reproducible deposits



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS100CA	037103174161	Bagged	Fixtured Cyanoacrylate Valve	0.531	15.0	1

KDS100HCA Hand Held Cyanoacrylate Valve

- Excellent for low to medium viscosity materials such as cyanoacrylates.
- Use with a shot meter for reproducible deposits



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS100HCA	037103174185	Bagged	Hand Held Cyanoacrylate Valve	0.530	15.0	1

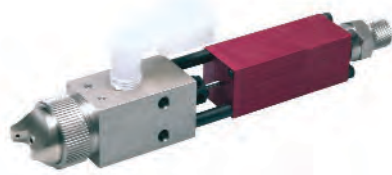
KDS100WCA Hand Held Dispensing Wand

- Excellent for dispensing "difficult to dispense" materials such as cyanoacrylate
- For use with low to medium viscosity materials
- Lightweight, ergonomic design
- Finger lever has adjustable sensitivity level control
- Can be attached to any reservoir or cartridge system
- Multiple wands can be connected to one central tanks with the use of a manifold



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS100WCA	037103174208	Bagged	Hand Held Dispensing Wand	0.535	15.2	1

KDS100F Spray Valve with Flat Nozzle



- Used for conformal coatings, silicones, adhesives, epoxies, UV materials, urethanes, paint, oil, or any fluid up to 100,000 centipoise in viscosity
- Valve has an adjustable flow control to reduce over-spray and reduce material waste
- A flat spray cap provides a fan-shaped spray pattern
- Valve can be connected to a bulk tank so you can save money by purchasing materials in bulk containers
- Compact in design and lightweight (6 oz) makes this valve easy to control
- All wetted seals are Viton or Teflon so corrosive materials will not cause the valve to leak
- Spray viscosity up to 100,000 CPS

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS100F	037103174178	Bagged	Sprat Valve with Flat Nozzle	0.700	19.8	1

KDS100SS Stainless Steel Valve



- High pressure, stainless steel pneumatically controlled needle valve
- Use with silicone, adhesive, epoxy, UV material, RTV, grease, oil, or any fluid up to two million centipoise in viscosity
- Beads and dots are applied using Kahnnetics Luer Lok™ dispensing needles (see pages 20 - 23)
- Adjustable flow control allows total control over dispense rates and volume
- Air and fluid chambers are separated to prevent contamination of the air section
- Compact in design and lightweight (6 oz.)

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS100SS	037103174192	Bagged	Stainless Steel High Pressure Valve	0.698	19.8	1

KDS200SS High Volume Stainless Steel Valve



- High pressure, stainless steel pneumatically controlled needle valve
- Use with silicone, adhesive, epoxy, UV material, RTV, grease, oil, or any fluid up to two million centipoise in viscosity
- The fluid inlet is three times larger than that of the KDS100SS, which makes it capable of dispensing large gaskets and beads with greater efficiency
- The size of the bead can be altered by changing the size of the dispensing tip
- Beads and dots are applied using Kahnnetics Luer Lok™ dispensing needles (see pages 20 - 23)
- Air and fluid chambers are separated to prevent contamination of the air section

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS200SS	037103174215	Bagged	Stainless Steel Front Closing Valve	1.652	46.8	1

KDS2601HL Mask Dispensing Wand

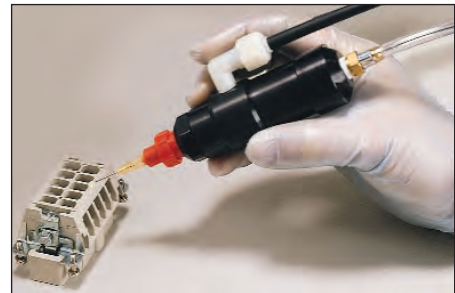
- Dispenses low to medium viscosity water soluble and peelable mask as well as other single component materials
- Lightweight, low cost, ergonomic design replaces squeeze bottle
- Can be used with any reservoir or cartridge system
- Wands can be “ganged” together to run multiple operators from one tank



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS2601HL	037103174246	Bagged	Dispensing Wand with 5 ft. Material Hose	0.236	6.7	1

KDS760A Suck-back Valve

- Suck-back feature prevents dripping
- Used with storage tanks, gun stands, and activated by any controller
- Can be hand-held or fixtured depending on the application
- Can be actuated with either the trigger or a foot switch
- Use with either needles or plastic nozzles



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS760A	037103174284	Bagged	Suck-back Valve	0.513	14.5	1

KDS301 Vacuum Pick-up Wand

- Attaches to the air accessory port of either the KDS824A (page 4) or KDS2001HC (page 5) shot meters
- A finger control on the wand allows you to easily pick up small components
- Comes with three sizes of conductive suction cups



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS301	037103174260	Bagged	Vacuum Pick-up Wand	0.223	6.3	1

Air Powered Dispensing Guns



- Dispenses 600 gram solder paste cartridges (PG10260)
- Used for dispensing solder paste, grease, oil, silicone, RTV, adhesive, ink, or any other medium to high viscosity liquid
- Operates on a regulated air supply up to a maximum of 70 PSI
- High impact Valox® gun body
- Has a three foot air hose with 1/4" NPT fitting
- Unique twist lock bayonet barrel mount
- Patented trigger mechanism makes it easy to vary the amount of material being dispensed and reduces operator fatigue

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
PG10225	037103173119	Bagged	Pneumatic Aerospace Gun, 2.5 oz.	1.113	31.5	1
PG10260	037103173133	Bagged	Pneumatic Aerospace Gun, 6 oz.	1.274	36.1	1
PG102120	037103173102	Bagged	Pneumatic Aerospace Gun, 12 oz.	1.569	44.4	1

Accessories for Air Powered Dispensing Guns

- Use the accessories to assemble a cartridge dispensing system
- Cartridges can be filled with your material and disposed after use
- These accessories are also used with gunstands (see page 13)



KDS2C KDS1P KDS60C KDS4P



102060



KDS218

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
102025	037103173454	Bagged	Cartridge Retainer, 2.5 oz.	0.296	8.4	1
102060	037103173461	Bagged	Cartridge Retainer, 6 oz.	0.460	13.0	1
102120	037103173478	Bagged	Cartridge Retainer, 12 oz.	0.770	21.8	1
KDS25C	037103177681	Bagged	Disposable Plastic Cartridge, 2.5 oz.	0.339	11.3	10
KDS60C	037103177711	Bagged	Disposable Plastic Cartridge, 6 oz.	0.690	19.5	10
KDS120C	037103177629	Bagged	Disposable Plastic Cartridge, 12 oz.	1.188	33.7	10
KDS2C	037103182500	Bagged	Flange Cap for Disposable Plastic Cartridges	0.069	2.0	10
KDS4P	037103183163	Bagged	Screw-on Plug for Disposable Plastic Cartridges	0.033	0.9	10
KDS1P	037103177643	Bagged	Plunger for Disposable Plastic Cartridges	0.110	3.1	10
KDS1WP	037103177650	Bagged	Wiper Plunger for Disposable Plastic Cartridges	0.104	2.9	10
KDS216	037103177667	Bagged	Nozzle for Disposable Plastic Cartridges, 2", 1/16" Orifice	0.070	2.0	10
KDS218	037103177674	Bagged	Nozzle for Disposable Plastic Cartridges, 2", 1/8" Orifice	0.066	1.9	10
KDS416	037103177698	Bagged	Nozzle for Disposable Plastic Cartridges, 3 1/2", 1/16" Orifice	0.090	2.5	10
KDS432	037103177704	Bagged	Nozzle for Disposable Plastic Cartridges, 3 1/2", 3/32" Orifice	0.090	2.5	10
KDS8615	037103177728	Bagged	Nozzle for Disposable Plastic Cartridges, 4" Flat, 1/16" Orifice	0.150	4.2	10

Stainless Steel Tanks

- Offered in 1 and 3 gallon capacity
- Pressure rated at 100PSI
- Material manifold available for up to four operators
- Built-in regulator and gauge
- Self-leveling, single component materials may be poured directly into tank



KDS2501P

Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS2501P	037103174314	Boxed	1 Gallon Stainless Steel Tank	11.470	324.9	1
KDS2503	037103174321	Boxed	3 Gallon Stainless Steel Tank	8.500	240.8	1

Reservoirs To Hold Materials in Bottles

- Plexiglas reservoir with aluminum protective shield allows you to dispense directly from the material bottle in a pressurized environment
- Accommodates one or two operators
- For low to medium viscosity materials
- Accommodates 1 lb. bottle



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS260035PS	037103174413	Boxed	Plexiglas Tank with Shield	6.165	174.7	1

Gunstands

- Dispenses materials from disposable 2.5oz., 6oz., or 12 oz. plastic cartridges (see page 12)
- Used for dispensing solder paste, grease, oil, silicone, RTV, adhesive, ink, or any other medium to high viscosity liquid
- Operates on a regulated air supply up to a maximum of 70 PSI (100 PSI for KDS8070)
- Available with aluminum (KDS8070) or plastic (KDS807OP) head
- Cartridges are easy to fill and replace
- Can be used with pre-filled, store bought 300ml caulking cartridges
- Can have a needle or nozzle at cartridge end



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
KDS8070	037103174611	Boxed	Gunstand with Metal Head Assembly	5.780	163.7	1
KDS807OP	037103174642	Boxed	Gunstand with Plastic Head Assembly	5.760	163.2	1

Air-operated Syringes



A10LLPS

- Industrial syringes for micro-air dispensing
- Available in Luer Lok™ and tapered tip styles
- Unassembled and non-calibrated
- Available with rubber or plastic stoppers
- Includes barrel and stopper

Cat No.	UPC No.	Packed	Size	Stopper	Tip	Pack Wt.		Pack Quantity
						lb	g	
A3LL	037103176950	Bagged	3CC	Rubber	Luer Lok™	0.144	4.1	20
A3LLPS	037103176967	Bagged	3CC	Plastic	Luer Lok™	0.117	3.3	20
A5LL	037103176974	Bagged	5CC	Rubber	Luer Lok™	0.206	5.8	20
A5LLPS	037103178268	Bagged	5CC	Plastic	Luer Lok™	0.156	4.4	20
A6T	037103177537	Bagged	6CC	Rubber	Tapered	0.221	6.3	20
A10LL	037103178244	Bagged	10CC	Rubber	Luer Lok™	0.232	6.6	15
A10LLPS	037103176912	Bagged	10CC	Plastic	Luer Lok™	0.181	5.1	15
A30LL	037103176936	Bagged	30CC	Rubber	Luer Lok™	0.370	10.5	10
A30LLPS	037103176943	Bagged	30CC	Plastic	Luer Lok™	0.268	7.6	10
A30T	037103177490	Bagged	30CC	Rubber	Tapered	0.334	9.5	10

Air-operated Black UV Protected Syringes



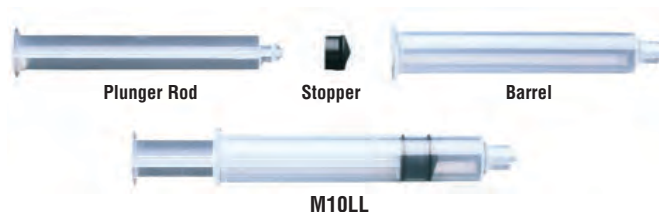
A10LLUV

- Opaque black to protect light sensitive materials
- Unassembled and non-calibrated
- Includes barrel and stopper

Cat No.	UPC No.	Packed	Size	Stopper	Tip	Pack Wt.		Pack Quantity
						lb	g	
A3LLUV	037103177506	Bagged	3CC	Rubber	Luer Lok™	0.172	4.9	20
A5LLUV	037103177520	Bagged	5CC	Rubber	Luer Lok™	0.206	5.8	20
A10LLUV	037103176929	Bagged	10CC	Rubber	Luer Lok™	0.267	7.6	15
A30LLUV	037103182494	Bagged	30CC	Rubber	Luer Lok™	0.373	10.6	10

Manual Unassembled Syringes

- Includes barrel, rubber stopper, and plunger rod
- Available in Luer Lok™ and tapered tip styles
- Unassembled and non-calibrated



Cat No.	UPC No.	Packed	Size	Stopper	Tip	Pack Wt.		Pack Quantity
						lb	g	
M1L	037103177032	Bagged	1CC	Rubber	Luer Slip™	0.125	3.5	20
M3LL	037103177117	Bagged	3CC	Rubber	Luer Lok™	0.500	14.2	20
M3LL100	037103177124	Bagged	3CC	Rubber	Luer Lok™	0.843	23.9	100
M5LL	037103177223	Bagged	5CC	Rubber	Luer Lok™	0.280	7.9	20
M6T	037103177612	Bagged	6CC	Rubber	Tapered	0.307	8.7	20
M10LL	037103176981	Bagged	10CC	Rubber	Luer Lok™	0.317	9.0	15
M30LL	037103177087	Bagged	30CC	Rubber	Luer Lok™	0.554	15.7	10
M30T	037103177575	Bagged	30CC	Rubber	Tapered	0.547	15.5	10
M50LL	037103177179	Bagged	50CC	Rubber	Tapered	0.459	13.0	5

Manual Assembled Calibrated Syringes

- Includes graduated barrel, rubber stopper, plunger rod, and tip cap
- Available in Luer Lok™ and tapered tip styles (50cc only)



Cat No.	UPC No.	Packed	Size	Stopper	Tip	Pack Wt.		Pack Quantity
						lb	g	
M1LASSM	037103177049	Bagged	1CC	Rubber	Luer Slip™	0.152	4.3	20
M1BA	037103177056	Boxed	1CC	Rubber	Luer Slip™	16.000	453.3	3000
M3LASSM	037103177131	Bagged	3CC	Rubber	Luer Lok™	0.179	5.1	20
M3LASSM100	037103177148	Bagged	3CC	Rubber	Luer Lok™	0.759	21.5	100
M3LLBA	037103177155	Boxed	3CC	Rubber	Luer Lok™	13.700	388.1	1600
M5LASSM	037103177230	Bagged	5CC	Rubber	Luer Lok™	0.261	7.4	20
M5LASSM100	037103177247	Bagged	5CC	Rubber	Luer Lok™	1.192	33.8	100
M5LLBA	037103177254	Boxed	5CC	Rubber	Luer Lok™	18.360	520.1	1400
M10LASSM	037103176998	Bagged	10CC	Rubber	Luer Lok™	0.294	8.3	15
M10LASSM100	037103177001	Bagged	10CC	Rubber	Luer Lok™	1.860	52.7	100
M10LLBA	037103177025	Boxed	10CC	Rubber	Luer Lok™	16.650	471.7	850
M20LASSM	037103177063	Bagged	20CC	Rubber	Luer Lok™	0.358	10.1	10
M20LLBA	037103177070	Boxed	20CC	Rubber	Luer Lok™	11.890	336.8	325
M30LASSM	037103177094	Bagged	30CC	Rubber	Luer Lok™	0.452	12.8	10
M30LLBA	037103177100	Boxed	30CC	Rubber	Luer Lok™	11.160	316.2	225
M50LASSM	037103178251	Bagged	50CC	Rubber	Luer Lok™	0.412	11.7	5
M50LLBA	037103177193	Boxed	50CC	Rubber	Luer Lok™	11.000	311.6	125
M50TASSM	037103177209	Bagged	50CC	Rubber	Tapered	0.419	11.9	5
M50TBA	037103177216	Boxed	50CC	Rubber	Tapered	11.140	315.6	125

Manual Black Syringes - UV Protected



- Opaque black to protect light sensitive materials
- Includes barrel, rubber stopper, and plunge rod
- Unassembled and non-calibrated

Cat No.	UPC No.	Packed	Size	Stopper	Tip	Pack Wt.		Pack Quantity
						lb	g	
M3LLUV	037103177605	Bagged	3CC	Rubber	Luer Lok™	0.213	6.0	20
M10LLUV	037103177551	Bagged	10CC	Rubber	Luer Lok™	0.420	11.9	15
M30LLUV	037103177568	Bagged	30CC	Rubber	Luer Lok™	0.555	15.7	10

Universal Syringe Adapters

- Unique design works with all manufacturer's syringes
- Compatible with Luer Lok™, Luer Slip™, and tapered tip air operated syringes (see pages 14 & 15)
- 360° swivel on adapter head for ease of motion
- Use with single component, two part, self-leveling, and non-self-leveling materials

- Unique design works with all manufacturer's syringes
- Compatible with Luer Lok™, Luer Slip™, and tapered tip air operated syringes (see pages 14 & 15)
- 360° swivel on adapter head for ease of motion
- Use with single component, two part, self-leveling, and non-self-leveling materials

Metal Adapters Assemblies



- Metal syringe adapter with 6' air line and fitting
- Plugs directly into any Kahnetics shot meter

Cat No.	UPC No.	Packed	Size	Airline Diameter		Pack Wt.		Pack Quantity
				Inch	mm	lb	g	
KDS801S6	037103173867	Bagged	1CC	3/32	2.4	0.109	3.1	1
KDS803S6	037103173928	Bagged	3CC	3/32	2.4	0.112	3.2	1
KDS805S6	037103173966	Bagged	5CC	3/32	2.4	0.143	4.1	1
KDS810S6	037103174017	Bagged	10CC	3/32	2.4	0.152	4.3	1
KDS830S6	037103174048	Bagged	30CC	3/32	2.4	0.216	6.1	1

Metal Adapter Heads



- Syringe adapter head only - no air line

Cat No.	UPC No.	Packed	Size		Pack Wt.		Pack Quantity
					lb	g	
KDS801	037103173850	Bagged	1CC	Accommodates 1/4" Airline	0.063	1.8	1
KDS803	037103173874	Bagged	2.5/3CC	Accommodates 1/4" Airline	0.062	1.8	1
KDS803S	037103173911	Bagged	3CC	Accommodates 3/32" Airline	0.067	1.9	1
KDS805S	037103173959	Bagged	5CC	Accommodates 3/32" Airline	0.095	2.7	1
KDS810S	037103174000	Bagged	10CC	Accommodates 3/32" Airline	0.112	3.2	1
KDS830S	037103174031	Bagged	30CC	Accommodates 3/32" Airline	0.165	4.7	1

Plastic Adapters Assemblies

- Plastic syringe adapter with 6' air line and fitting
- Plugs directly into any Kahnetics shot meter



KDS503S6

Cat No.	UPC No.	Packed	Size	Airline Diameter		Pack Wt.		Pack Quantity
				Inch	mm	lb	g	
KDS501S6	037103174086	Bagged	1CC	3/32	2.4	0.071	2.0	1
KDS503S6	037103174093	Bagged	3CC	3/32	2.4	0.078	2.2	1
KDS505S6	037103174109	Bagged	5CC	3/32	2.4	0.094	2.7	1
KDS510S6	037103174130	Bagged	10CC	3/32	2.4	0.100	2.8	1
KDS530S6	037103174154	Bagged	30CC	3/32	2.4	0.113	3.2	1

Plastic Adapter Heads

- Syringe adapter head only - no air line

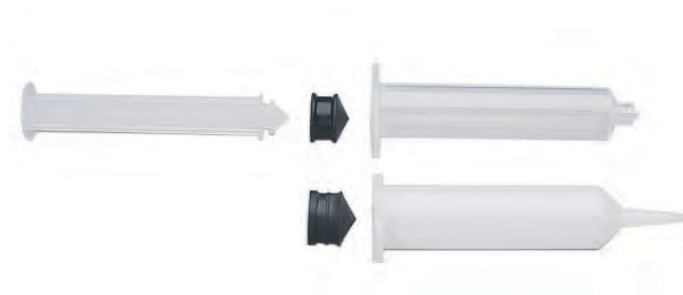


KDS510S

Cat No.	UPC No.	Packed	Size		Pack Wt.		Pack Quantity
					lb	g	
KDS503S	037103178947	Bagged	3CC	Accommodates 3/32" Airline	0.034	1.0	1
KDS505S	037103178954	Bagged	5CC	Accommodates 3/32" Airline	0.043	1.2	1
KDS510S	037103174123	Bagged	10CC	Accommodates 3/32" Airline	0.049	1.4	1
KDS530S	037103174147	Bagged	30CC	Accommodates 3/32" Airline	0.073	2.1	1

Bulk Syringe Components

- Disposable un-assembled non-calibrated components
- Plastic or lubricated rubber stoppers
- Luer Slip™ (1cc), Luer Lok™, and tapered tip styles

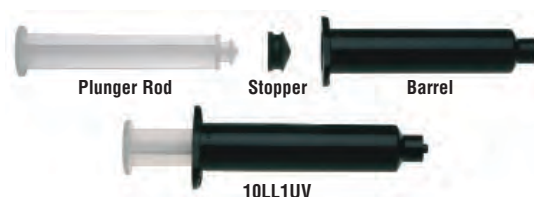


Bulk Syringe Components, continued

Cat No.	UPC No.	Packed	Size	Component Type	Tip Type	Pack Wt.		Pack Quantity
						lb	g	
1L1	037103176691	Bagged	1CC	Barrel	Luer Slip™	3.300	93.5	1000
1L2	037103176707	Bagged	1CC	Rubber Stopper	Luer Slip™	0.662	18.8	1000
1L4	037103176714	Bagged	1CC	Plunger Rod	Luer Slip™	1.271	36.0	1000
3LL1	037103176790	Bagged	3CC	Barrel	Luer Lok™	4.563	129.3	1000
3LL1B	037103183286	Bagged	3CC	Barrel	Luer Lok™	12.900	365.5	2500
3LL2	037103178213	Bagged	3CC	Rubber Stopper	Luer Lok™	1.120	31.7	1000
3LL2B	037103183279	Bagged	3CC	Rubber Stopper	Luer Lok™	34.600	980.2	30,000
3LL2M	037103184542	Bagged	3CC	Manual Stopper	Luer Lok™	0.422	12.0	1000
3LL2PS	037103177407	Bagged	3CC	Plastic Stopper	Luer Lok™	0.290	8.2	1000
3LL4	037103176813	Bagged	3CC	Plunger Rod	Luer Lok™	2.236	63.3	1000
3LL4B	037103183262	Bagged	3CC	Plunger Rod	Luer Lok™	9.650	273.4	4000
5LL1	037103176868	Bagged	5CC	Barrel	Luer Lok™	6.220	176.2	1000
5LL1B	037103183255	Bagged	5CC	Barrel	Luer Lok™	11.750	332.9	1600
5LL2	037103176875	Bagged	5CC	Rubber Stopper	Luer Lok™	2.570	72.8	1000
5LL2B	037103183248	Bagged	5CC	Rubber Stopper	Luer Lok™	40.000	1133.2	15,000
5LL2M	037103176882	Bagged	5CC	Manual Stopper	Luer Lok™	1.021	28.9	1000
5LL2MB	037103183231	Bagged	5CC	Manual Stopper	Luer Lok™	23.100	654.4	20,000
5LL2PS	037103177445	Bagged	5CC	Plastic Stopper	Luer Lok™	0.490	13.9	1000
5LL4	037103176899	Bagged	5CC	Plunger Rod	Luer Lok™	5.050	143.1	1000
5LL4B	037103183224	Bagged	5CC	Plunger Rod	Luer Lok™	13.250	375.4	3000
6T1	037103177452	Bagged	6CC	Barrel	Tapered	5.178	146.7	500
6T2	037103177469	Bagged	6CC	Manual Stopper	Tapered	0.695	19.7	500
6T4	037103177483	Bagged	6CC	Plunger Rod	Tapered	2.045	57.9	500
10LL1	037103176646	Bagged	10CC	Barrel	Luer Lok™	10.350	293.2	1000
10T1	037103177308	Bagged	10CC	Barrel	Tapered	5.307	150.3	500
10LL2	037103176653	Bagged	10CC	Rubber Stopper	Luer Lok™	3.995	113.2	1000
10LL2B	037103183217	Bagged	10CC	Rubber Stopper	Luer Lok™	30.000	849.0	7000
10LL2M	037103176660	Bagged	10CC	Manual Stopper	Luer Lok™	4.300	121.8	1000
10LL2PS	037103177285	Bagged	10CC	Plastic Stopper	Luer Lok™	0.997	28.2	1000
10T2	037103177315	Bagged	10CC	Rubber Stopper	Tapered	1.039	29.4	500
10LL4	037103176684	Bagged	10CC	Plunger Rod	Luer Lok™	10.300	291.8	1000
10LL4B	037103183200	Bagged	10CC	Plunger Rod	Luer Lok™	15.000	425.0	1500
10T4	037103177322	Bagged	10CC	Plunger Stopper	Tapered	4.172	118.2	500
20LL2	037103176721	Bagged	20CC	Rubber Stopper	Luer Lok™	29.750	842.8	3500
30LL1	037103176738	Bagged	30CC	Barrel	Luer Lok™	16.100	456.1	600
30LL1PS	037103176745	Bagged	30CC	Barrel for Plastic Stopper	Luer Lok™	12.645	358.2	600
30T1	037103177353	Bagged	30CC	Barrel	Tapered	14.983	424.5	500
30LL2	037103176752	Bagged	30CC	Rubber Stopper	Luer Lok™	10.970	310.8	1000
30LL2B	037103183194	Bagged	30CC	Rubber Stopper	Luer Lok™	31.170	883.0	2700
30LL2M	037103176769	Bagged	30CC	Rubber Stopper	Luer Lok™	4.410	124.9	1000
30LL2MB	037103183187	Bagged	30CC	Manual Stopper	Luer Lok™	24.350	689.8	5000
30LL2PS	037103177346	Bagged	30CC	Plastic Stopper	Luer Lok™	1.651	46.8	1000
30T2	037103176783	Bagged	30CC	Manual Stopper	Tapered	3.322	94.1	500
30T2A	037103177360	Bagged	30CC	Dry Air-operated Stopper	Tapered	2.263	64.1	500
30LL4	037103176776	Bagged	30CC	Plunger Rod	Luer Lok™	35.250	998.6	1000
30T4	037103177384	Bagged	30CC	Plunger Rod	Tapered	12.555	355.7	500
30T3	037103177377	Bagged	30CC	Tip Cap/30CC Tapered Barrel	Tapered	0.194	5.5	100
50LL1	037103176820	Bagged	50CC	Barrel	Luer Lok™	16.820	476.5	375
50LL1GRAD	037103178220	Bagged	50CC	Barrel with Graduations	Luer Lok™	17.310	490.4	375
50LL2	037103176844	Bagged	50CC	Rubber Stopper	Luer Lok™	17.550	497.2	1000
50LL4	037103178237	Bagged	50CC	Plunger Rod	Luer Lok™	19.890	563.5	600

Bulk Syringe Components with UV Protection

- Opaque black to protect light sensitive materials
- Lubricated rubber stoppers
- Unassembled and non-calibrated



Cat No.	UPC No.	Packed	Size	Component Type	Tip Type	Pack Wt.		Pack Quantity
						lb	g	
3LL1UV	037103177391	Bagged	3CC	Barrel	Luer Lok™	3.057	86.6	500
3LL2UV	037103179272	Bagged	3CC	Rubber Stopper	Luer Lok™	0.540	15.3	500
3LL4UV	037103177421	Bagged	3CC	Plunger Rod	Luer Lok™	1.083	30.7	500
10LL1UV	037103177278	Bagged	10CC	Barrel	Luer Lok™	8.020	227.2	500
10LL2UV	037103176677	Bagged	10CC	Rubber Stopper	Luer Lok™	1.625	46.0	500
10LL4UV	037103177292	Bagged	10CC	Plunger Rod	Luer Lok™	5.570	157.8	500

Tip Caps and Needle Scabbards

- Used to seal needles and syringes when not in use
- Luer Lok™ and press fit styles available for all styles of syringes



Cat No.	UPC No.	Packed	Description	Pack Wt.		Pack Quantity
				lb	g	
Tip Caps						
982	037103176615	Bagged	Rubber Tip Cap	0.095	2.7	100
15LT	037103176530	Bagged	Plastic Tip Cap	0.046	1.3	100
15LTB	037103182517	Bagged	Plastic Tip Cap	2.500	71.1	5000
5227K	037103176639	Bagged	Plastic Tip Cap	0.053	1.5	100
KDS1TC	037103176561	Bagged	Luer Lok™ Tip Cap, Clear	0.039	1.1	100
KDS1TCUV	037103176585	Bagged	Luer Lok™ Tip Cap, Black	0.039	1.1	100
Needle Scabbards/Covers						
KDS16SC	037103176547	Bagged	Needle Scabbard, 16 Gauge	0.042	1.2	100
KDS18SC	037103176554	Bagged	Needle Scabbard, 18 Gauge	0.042	1.2	100
KDS20SC	037103176592	Bagged	Needle Scabbard, 20 Gauge	0.039	1.1	100
KDS22SC	037103183552	Bagged	Needle Scabbard, 22 Gauge	0.039	1.1	100
KDSNC	037103176608	Bagged	Needle Cover, 1" Needles	0.100	3.9	100
KDSNCB	037103183170	Bagged	Needle Cover, 1" Needles	0.800	23.2	1000

Needles (listing begins on page 20)

- Large selection of sizes, gauges, and packaging options
- Selection includes non-sterile blunt stainless steel needles with plastic hubs, Teflon® needles with plastic hubs, and one-piece plastic tapered tip needles
- All needles lock on to Luer Lok™ style syringes
- Bent needles, needle covers, and scabbards are also available

Stainless Steel Plastic Hub Dispensing Needles



- Sizes range from 14 through 22 gauge (see page 21 for 23 gauge through 30 gauge)
- Lengths range from 1/2" (12.7mm) to 1 1/2" (38.1mm)
- 18 and 20 gauge available in 2" (50.8mm) lengths

Cat No.	UPC No.	Packed	Gauge	ID		OD		Length		Pack Quantity	Hub Color	Pack Wt.	
				Inch	mm	Inch	mm	Inch	mm			lb	g
KDS141BT	037103174758	Bagged	14	0.067	1.70	0.083	2.11	1	25.40	1000	Dark Green	1.111	31.5
KDS141P	037103174765	Bagged	14	0.067	1.70	0.083	2.11	1	25.40	50	Dark Green	0.076	2.2
KDS1412BT	037103174727	Bagged	14	0.067	1.70	0.083	2.11	1/2	12.70	1000	Dark Green	0.746	21.1
KDS1412P	037103174734	Bagged	14	0.067	1.70	0.083	2.11	1/2	12.70	50	Dark Green	0.076	2.2
KDS14112BT	037103174697	Bagged	14	0.067	1.70	0.083	2.11	1 1/2	38.10	1000	Dark Green	1.327	37.6
KDS14112P	037103174703	Bagged	14	0.067	1.70	0.083	2.11	1 1/2	38.10	50	Dark Green	0.076	2.2
KDS1512BT	037103174833	Bagged	15	0.060	1.52	0.072	1.83	1/2	12.70	1000	Orange	0.781	22.1
KDS1512P	037103174840	Bagged	15	0.060	1.52	0.072	1.83	1/2	12.70	50	Orange	0.049	1.4
KDS151P	037103174871	Bagged	15	0.060	1.52	0.072	1.83	1	25.40	50	Orange	0.065	1.8
KDS15112BT	037103181114	Bagged	15	0.060	1.52	0.072	1.83	1 1/2	38.10	1000	Orange	1.215	34.4
KDS15112P	037103174802	Bagged	15	0.060	1.52	0.072	1.83	1 1/2	38.10	50	Orange	0.076	2.2
KDS161BT	037103174987	Bagged	16	0.053	1.35	0.064	1.63	1	25.40	1000	Purple	0.892	25.3
KDS161P	037103174994	Bagged	16	0.053	1.35	0.064	1.63	1	25.40	50	Purple	0.056	1.6
KDS1612BT	037103174956	Bagged	16	0.053	1.35	0.064	1.63	1/2	12.70	1000	Purple	0.679	19.2
KDS1612P	037103174963	Bagged	16	0.053	1.35	0.064	1.63	1/2	12.70	50	Purple	0.048	1.4
KDS16112BT	037103174925	Bagged	16	0.053	1.35	0.064	1.63	1 1/2	38.10	1000	Purple	1.050	29.7
KDS16112P	037103174932	Bagged	16	0.053	1.35	0.064	1.63	1 1/2	38.10	50	Purple	0.064	1.8
KDS1712BT	037103181183	Bagged	17	0.045	1.14	0.060	1.52	1/2	12.70	1000	White	0.659	18.7
KDS1712P	037103175021	Bagged	17	0.045	1.14	0.060	1.52	1/2	12.70	50	White	0.045	1.3
KDS171BT	037103181190	Bagged	17	0.045	1.14	0.060	1.52	1	25.40	1000	White	0.780	22.1
KDS171P	037103178152	Bagged	17	0.045	1.14	0.060	1.52	1	25.40	50	White	0.060	1.7
KDS1812BT	037103175113	Bagged	18	0.038	0.97	0.050	1.27	1/2	12.70	1000	Pink	0.620	17.6
KDS1812P	037103175120	Bagged	18	0.038	0.97	0.050	1.27	1/2	12.70	50	Pink	0.048	1.4
KDS181BT	037103178176	Bagged	18	0.038	0.97	0.050	1.27	1	25.40	1000	Pink	0.725	20.5
KDS181P	037103175168	Bagged	18	0.038	0.97	0.050	1.27	1	25.40	50	Pink	0.048	1.4
KDS18112BT	037103175076	Bagged	18	0.038	0.97	0.050	1.27	1 1/2	38.10	1000	Pink	0.893	25.3
KDS18112P	037103178169	Bagged	18	0.038	0.97	0.050	1.27	1 1/2	38.10	50	Pink	0.053	1.5
KDS182BT	037103175199	Bagged	18	0.038	0.97	0.050	1.27	2	50.80	1000	Pink	1.050	29.7
KDS1912P	037103185877	Bagged	19	0.032	0.81	0.042	1.07	1/2	12.70	50	Brown	0.048	1.4
KDS191BT	037103175274	Bagged	19	0.032	0.81	0.042	1.07	1	25.40	1000	Brown	0.678	19.2
KDS191P	037103175281	Bagged	19	0.032	0.81	0.042	1.07	1	25.40	50	Brown	0.048	1.4
KDS19112BT	037103183149	Bagged	19	0.032	0.81	0.042	1.07	1 1/2	38.10	1000	Brown	0.800	22.7
KDS19112P	037103175212	Bagged	19	0.032	0.81	0.042	1.07	1 1/2	38.10	50	Brown	0.050	1.4
KDS2012BT	037103175342	Bagged	20	0.026	0.66	0.035	0.89	1/2	12.70	1000	Yellow	0.586	16.6
KDS2012P	037103175359	Bagged	20	0.026	0.66	0.035	0.89	1/2	12.70	50	Yellow	0.040	1.1
KDS201BT	037103175373	Bagged	20	0.026	0.66	0.035	0.89	1	25.40	1000	Yellow	0.637	18.0
KDS201P	037103175380	Bagged	20	0.026	0.66	0.035	0.89	1	25.40	50	Yellow	0.045	1.3
KDS20112BT	037103175304	Bagged	20	0.026	0.66	0.035	0.89	1 1/2	38.10	1000	Yellow	0.768	21.8
KDS20112P	037103175311	Bagged	20	0.026	0.66	0.035	0.89	1 1/2	38.10	50	Yellow	0.045	1.3
KDS202BT	037103181206	Bagged	20	0.026	0.66	0.035	0.89	2	50.80	1000	Yellow	0.650	18.4
KDS2112BT	037103175441	Bagged	21	0.023	0.58	0.032	0.89	1/2	12.70	1000	Green	0.554	15.7
KDS2112P	037103175458	Bagged	21	0.023	0.58	0.032	0.89	1/2	12.70	50	Green	0.041	1.2
KDS211BT	037103175472	Bagged	21	0.023	0.58	0.032	0.89	1	25.40	1000	Green	0.620	17.6
KDS211P	037103175489	Bagged	21	0.023	0.58	0.032	0.89	1	25.40	50	Green	0.043	1.2
KDS21112BT	037103181237	Bagged	21	0.023	0.58	0.032	0.89	1 1/2	38.10	1000	Green	0.736	20.9
KDS21112P	037103175410	Bagged	21	0.023	0.58	0.032	0.89	1 1/2	38.10	50	Green	0.045	1.3
KDS2212BT	037103175526	Bagged	22	0.019	0.48	0.028	0.71	1/2	12.70	1000	Black	0.558	15.8
KDS2212P	037103175533	Bagged	22	0.019	0.48	0.028	0.71	1/2	12.70	50	Black	0.043	1.2
KDS221BT	037103175564	Bagged	22	0.019	0.48	0.028	0.71	1	25.40	1000	Black	0.650	18.4
KDS221P	037103175571	Bagged	22	0.019	0.48	0.028	0.71	1	25.40	50	Black	0.045	1.3
KDS22112BT	037103181251	Bagged	22	0.019	0.48	0.028	0.71	1 1/2	38.10	1000	Black	0.704	19.9

Stainless Steel Plastic Hub Dispensing Needles (cont.)

- Sizes range from 23 through 30 gauge (see page 20 for 14 gauge through 22 gauge)
- Lengths range from 1/2" (12.7mm) to 1 1/2" (38.1mm)



Cat No.	UPC No.	Packed	Gauge	ID		OD		Length		Pack Quantity	Hub Color	Pack Wt.	
				Inch	mm	Inch	mm	Inch	mm			lb	g
KDS2312BT	037103175625	Bagged	23	0.017	0.43	0.025	0.64	1/2	12.70	1000	Light Blue	0.565	16.0
KDS2312P	037103175632	Bagged	23	0.017	0.43	0.025	0.64	1/2	12.70	50	Light Blue	0.042	1.2
KDS231BT	037103181282	Bagged	23	0.017	0.43	0.025	0.64	1	25.40	1000	Light Blue	0.620	17.6
KDS231P	037103175670	Bagged	23	0.017	0.43	0.025	0.64	1	25.40	50	Light Blue	0.043	1.2
KDS23112BT	037103181275	Bagged	23	0.017	0.43	0.025	0.64	1 1/2	38.10	1000	Light Blue	0.620	17.6
KDS2412BT	037103181718	Bagged	24	0.022	0.56	0.026	0.66	1/2	12.70	1000	Red	0.525	14.9
KDS2412P	037103175700	Bagged	24	0.022	0.56	0.026	0.66	1/2	12.70	50	Red	0.039	1.1
KDS241P	037103175724	Bagged	24	0.022	0.56	0.026	0.66	1	25.40	50	Red	0.040	1.1
KDS2512BT	037103175762	Bagged	25	0.012	0.30	0.020	0.51	1/2	12.70	1000	Blue	0.519	14.7
KDS2512P	037103175779	Bagged	25	0.012	0.30	0.020	0.51	1/2	12.70	50	Blue	0.040	1.1
KDS251BT	037103175793	Bagged	25	0.012	0.30	0.020	0.51	1	25.40	1000	Blue	0.556	15.8
KDS251P	037103175809	Bagged	25	0.012	0.30	0.020	0.51	1	25.40	50	Blue	0.041	1.2
KDS25112BT	037103181299	Bagged	25	0.012	0.30	0.020	0.51	1 1/2	38.10	50	Blue	0.638	18.1
KDS2612BT	037103175830	Bagged	26	0.010	0.25	0.018	0.46	1/2	12.70	1000	Tan	0.520	14.7
KDS2612P	037103175847	Bagged	26	0.010	0.25	0.018	0.46	1/2	12.70	50	Tan	0.040	1.1
KDS261P	037103175878	Bagged	26	0.010	0.25	0.018	0.46	1	25.40	50	Tan	0.043	1.2
KDS27516BT	037103181336	Bagged	27	0.008	0.20	0.015	0.38	5/16	7.94	1000	Grey	0.496	14.4
KDS27516P	037103175939	Bagged	27	0.008	0.20	0.015	0.38	5/16	7.94	50	Grey	0.035	1.0
KDS2712BT	037103181312	Bagged	27	0.008	0.20	0.015	0.38	1/2	12.70	1000	Grey	0.536	15.2
KDS271BT	037103181329	Bagged	27	0.008	0.20	0.015	0.38	1	25.40	1000	Grey	0.452	12.8
KDS271P	037103178183	Bagged	27	0.008	0.20	0.015	0.38	1	25.40	50	Grey	0.040	1.1
KDS27112BT	037103181350	Bagged	27	0.008	0.20	0.015	0.38	1 1/2	38.10	1000	Grey	0.500	14.2
KDS30516BT	037103181343	Bagged	30	0.006	0.15	0.012	0.30	5/16	7.94	1000	Lavender	0.420	11.9
KDS3012BT	037103175953	Bagged	30	0.006	0.15	0.012	0.30	1/2	12.70	1000	Lavender	0.483	13.7
KDS3012P	037103175960	Bagged	30	0.006	0.15	0.012	0.30	1/2	12.70	50	Lavender	0.039	1.1
KDS660	037103176004	Bagged	-	-	-	-	-	-	-	-	Assorted	1.779	50.4
KDSSAMPLEPAC	037103176011	Bagged	-	-	-	-	-	-	-	-	Assorted	0.012	0.03

Stainless Steel Plastic Hub Dispensing Needles, 45° Bent



Cat No.	UPC No.	Packed	Gauge	ID		OD		Length		Pack Quantity	Hub Color	Pack Wt.	
				Inch	mm	Inch	mm	Inch	mm			lb	g
KDS1512BBN45	037103179135	Bagged	15	0.060	1.52	0.072	1.83	1/2	12.70	1000	Orange	0.781	22.1
KDS1512PBN45	037103178961	Bagged	15	0.060	1.52	0.072	1.83	1/2	12.70	50	Orange	0.750	21.2
KDS151BBN45	037103179142	Bagged	15	0.060	1.52	0.072	1.83	1	25.40	1000	Orange	0.750	21.2
KDS1812BBN45	037103179159	Bagged	18	0.038	0.97	0.050	1.27	1/2	12.70	1000	Pink	0.604	17.1
KDS1812PBN45	037103178978	Bagged	18	0.038	0.97	0.050	1.27	1/2	12.70	50	Pink	0.650	18.4
KDS1912BBN45	037103179166	Bagged	19	0.032	0.81	0.042	1.07	1/2	12.70	1000	Brown	0.586	16.6
KDS2012BBN45	037103179173	Bagged	20	0.026	0.66	0.042	1.07	1/2	12.70	1000	Yellow	0.600	17.0
KDS2012PBN45	037103178985	Bagged	20	0.026	0.66	0.035	0.89	1/2	12.70	50	Yellow	0.050	1.4
KDS2112BBN45	037103179197	Bagged	21	0.023	0.58	0.032	0.81	1/2	12.70	1000	Green	0.650	18.4
KDS2212BBN45	037103179203	Bagged	22	0.019	0.48	0.028	0.71	1/2	12.70	1000	Black	1.450	41.1
KDS2212PBN45	037103179210	Bagged	22	0.019	0.48	0.028	0.71	1/2	12.70	50	Black	0.043	1.2
KDS2312BBN45	037103179234	Bagged	23	0.017	0.43	0.025	0.64	1/2	12.70	1000	Light Blue	0.450	12.7
KDS231BBN45	037103179241	Bagged	23	0.017	0.43	0.025	0.64	1	25.40	1000	Light Blue	0.500	14.2
KDS2512BBN45	037103179258	Bagged	25	0.012	0.30	0.020	0.51	1/2	12.70	1000	Blue	0.700	19.8
KDS261BBN45	037103179265	Bagged	26	0.010	0.25	0.018	0.46	1	25.40	1000	Tan	1.000	28.3

Tapered Tip Needles



- Sizes range from 14 through 24 gauge
- Length is 1 1/2" (38.1mm)
- Taper reduces dripping from needle
- Plastic material won't scratch delicate surfaces

Cat. No.	UPC No.	Packed	Gauge	ID		Pack Quantity	Hub Color	Pack Wt.	
				Inch	mm			lb	g
KDS14TN25	037103176356	Bagged	14	0.063	1.60	25	Salmon	0.015	0.4
KDS14TNP	037103176363	Bagged	14	0.063	1.60	50	Salmon	0.050	1.4
KDS14TN	037103176349	Bagged	14	0.063	1.60	100	Salmon	0.062	1.8
KDS14TNB	037103179005	Bagged	14	0.063	1.60	1000	Salmon	0.500	14.2
KDS16TN25	037103176387	Bagged	16	0.048	1.22	25	Grey	0.015	0.4
KDS16TNP	037103176400	Bagged	16	0.048	1.22	50	Grey	0.050	1.4
KDS16TN	037103176370	Bagged	16	0.048	1.22	100	Grey	0.060	1.7
KDS16TNB	037103179012	Bagged	16	0.048	1.22	1000	Grey	0.490	13.9
KDS18TN25	037103176424	Bagged	18	0.034	0.86	25	Green	0.015	0.4
KDS18TNP	037103176431	Bagged	18	0.034	0.86	50	Green	0.045	1.3
KDS18TN	037103176417	Bagged	18	0.034	0.86	100	Green	0.058	1.6
KDS18TNB	037103179029	Bagged	18	0.034	0.86	1000	Green	0.475	13.5
KDS20TN25	037103176455	Bagged	20	0.024	0.61	25	Pink	0.015	0.4
KDS20TNP	037103176479	Bagged	20	0.024	0.61	50	Pink	0.041	1.2
KDS20TN	037103176448	Bagged	20	0.024	0.61	100	Pink	0.058	1.6
KDS20TNB	037103179043	Bagged	20	0.024	0.61	1000	Pink	0.460	13.0
KDS22TN25	037103176493	Bagged	22	0.017	0.43	25	Blue	0.015	0.4
KDS22TNP	037103176509	Bagged	22	0.017	0.43	50	Blue	0.043	1.2
KDS22TN	037103176486	Bagged	22	0.017	0.43	100	Blue	0.058	1.6
KDS22TNB	037103179050	Bagged	22	0.017	0.43	1000	Blue	0.450	12.7
KDS24TNP	037103176523	Bagged	24	0.013	0.33	50	Red	0.040	1.1
KDS24TN	037103176516	Bagged	24	0.013	0.33	50	Red	0.059	1.7

- Sizes range from 14 through 30 gauge
- Lengths range from 1/2" (12.7mm) to 2" (50.8mm)
- Teflon® material won't scratch delicate surfaces
- Teflon resists bonding of most adhesives



Cat. No.	UPC No.	Packed	Gauge	ID		Pack Quantity	Hub Color	Pack Wt.	
				Inch	mm			lb	g
KDS1412T	037103176332	Bagged	14	1/2	12.70	25	Dark Green	0.015	0.4
KDS141T	037103176066	Bagged	14	1	25.40	25	Dark Green	0.015	0.4
KDS142T	037103176073	Bagged	14	2	50.80	25	Dark Green	0.015	0.4
KDS1512T	037103176097	Bagged	15	1/2	12.70	25	Orange	0.015	0.4
KDS151T	037103176103	Bagged	15	1	25.40	25	Orange	0.015	0.4
KDS15112T	037103176080	Bagged	15	1 1/2	38.10	25	Orange	0.015	0.4
KDS162T	037103176110	Bagged	16	2	50.80	25	Purple	0.015	0.4
KDS1812T	037103176134	Bagged	18	1/2	12.70	25	Pink	0.015	0.4
KDS18112T	037103176127	Bagged	18	1 1/2	38.10	25	Pink	0.015	0.4
KDS182T	037103176141	Bagged	18	2	50.80	25	Pink	0.015	0.4
KDS2012T	037103176165	Bagged	20	1/2	12.70	25	Yellow	0.015	0.4
KDS201T	037103176172	Bagged	20	1	25.40	25	Yellow	0.015	0.4
KDS20112T	037103178190	Bagged	20	1 1/2	38.10	25	Yellow	0.015	0.4
KDS202T	037103176189	Bagged	20	2	50.80	25	Yellow	0.015	0.4
KDS2112T	037103178206	Bagged	21	1/2	12.70	25	Green	0.015	0.4
KDS21112T	037103176196	Bagged	21	1 1/2	38.10	25	Green	0.015	0.4
KDS2212T	037103176226	Bagged	22	1/2	12.70	25	Black	0.015	0.4
KDS221T	037103176233	Bagged	22	1	25.40	25	Black	0.015	0.4
KDS22112T	037103176219	Bagged	22	1 1/2	38.10	25	Black	0.015	0.4
KDS222T	037103176240	Bagged	22	2	50.80	25	Black	0.015	0.4
KDS2312T	037103176257	Bagged	23	1/2	12.70	25	Light Blue	0.015	0.4
KDS2412T	037103176271	Bagged	24	1/2	12.70	25	Salmon	0.015	0.4
KDS24112T	037103176264	Bagged	24	1 1/2	38.10	25	Salmon	0.015	0.4
KDS2612T	037103176295	Bagged	26	1/2	12.70	25	Tan	0.015	0.4
KDS26112T	037103176288	Bagged	26	1 1/2	38.10	25	Tan	0.015	0.4
KDS2812T	037103176301	Bagged	28	1/2	12.70	25	-	0.015	0.4
KDS3012T	037103176325	Bagged	30	1/2	12.70	25	Lavender	0.015	0.4
KDS30112T	037103176318	Bagged	30	1 1/2	38.10	25	Lavender	0.015	0.4

Flux Bottles



KDS5000A

KDS5100LL

KDS5200LL

KDS5400LL

Note: Bottles are shipped empty. Different colors shown here for illustration purposes only.

Cat No.	UPC No.	Packed	Size	Description	Pack Wt.		Pack Quantity
					lb	g	
KDS5000A	037103177919	Bagged	1 oz.	Accordion Style w/Luer Lok™ Cap	0.13	3.7	10
KDS5100LLDC	037103177933	Bagged	1 oz.	Flux Bottle w/Luer Lok™ Cap	0.18	5.1	10
KDS5100LL	037103177926	Bagged	1 oz.	Flux Bottle w/Luer Lok™ Cap & 18 Gauge 1/2" Needle	0.19	5.4	10
KDS5200LLDC	037103177988	Bagged	2 oz.	Flux Bottle w/Luer Lok™ Cap	0.26	7.4	10
KDS5200LL	037103177940	Bagged	2 oz.	Flux Bottle w/Luer Lok™ Cap & 18 Gauge 1/2" Needle	0.28	7.9	10
KDS5200LL2	037103177957	Bagged	2 oz.	Bottle w/22 & 26 Gauge 1/2" Needles	0.29	8.2	10
KDS5200LL3	037103177964	Bagged	2 oz.	Bottle w/18, 22 & 25 Gauge 1/2" Needles	0.31	8.9	10
KDS5400LLDC	037103178008	Bagged	4 oz.	Flux Bottle w/Luer Lok™ Cap	0.35	9.9	10
KDS5400LL	037103177995	Bagged	4 oz.	Flux Bottle w/Luer Lok™ Cap & 18 Gauge 1/2" Needle	0.32	9.1	10

Finger Cots



- All cots come in Small, Medium, Large, and Extra Large
- Three types are available: Powder-free, Anti-static, and conductive

Cat No.	UPC No.	Packed	Size	Description	Pack Wt.		Pack Quantity
					lb	g	
KDS5C500S	037103177759	Bagged	Small	Powder-free	1.420	40.2	10 Gross
KDS5C500M	037103177742	Bagged	Medium	Powder-free	1.614	45.7	10 Gross
KDS5C500L	037103177735	Bagged	Large	Powder-free	1.783	50.5	10 Gross
KDS5C500XL	037103177766	Bagged	Extra Large	Powder-free	1.835	52.0	10 Gross
KDS7C700S	037103177797	Bagged	Small	Anti-static	0.687	19.5	5 Gross
KDS7C700M	037103177780	Bagged	Medium	Anti-static	0.745	21.1	5 Gross
KDS7C700L	037103177773	Bagged	Large	Anti-static	0.838	23.7	5 Gross
KDS7C700XL	037103177803	Bagged	Extra Large	Anti-static	0.860	24.4	5 Gross
KDS8C800S	037103179111	Bagged	Small	Conductive	0.465	13.2	5 Gross
KDS8C800M	037103179098	Bagged	Medium	Conductive	0.603	17.1	5 Gross
KDS8C800L	037103179081	Bagged	Large	Conductive	0.740	21.0	5 Gross
KDS8C800XL	037103179128	Bagged	Extra Large	Conductive	0.762	21.6	5 Gross
KDSCOTS	037103183606	Bagged	-	Sample Finger Cot Assortment	0.406	11.5	-

- Nitrile gloves are 9" long and come in Small, Medium, Large, and Extra Large
- Anti-static



Cat No.	UPC No.	Packed	Size	Class	Type	Pack Wt.		Pack Quantity
						lb	g	
KDSQ095S	037103177834	Bagged	Small	100	Nitrile, 4 Mil	1.567	44.4	100
KDSQ095M	037103177827	Bagged	Medium	100	Nitrile, 4 Mil	1.660	47.0	100
KDSQ095L	037103177810	Bagged	Large	100	Nitrile, 4 Mil	1.750	49.6	100
KDSQ095XL	037103177841	Bagged	Extra Large	100	Nitrile, 4 Mil	1.845	52.3	100
KDSQ096S	037103177872	Bagged	Small	1000	Nitrile, 4 Mil	1.326	37.6	100
KDSQ096M	037103177872	Bagged	Medium	1000	Nitrile, 4 Mil	1.575	44.6	100
KDSQ096L	037103177858	Bagged	Large	1000	Nitrile, 4 Mil	1.650	46.7	100
KDSQ096XL	037103177889	Bagged	Extra Large	1000	Nitrile, 4 Mil	1.938	54.9	100
KDSQ09BPFM	037103177902	Boxed	Medium (9")	-	Powder-free	1.698	48.1	100
KDSQ09BPFL	037103177896	Boxed	Large (9")	-	Powder-free	1.831	51.9	100
KDSGLOVES	037103183590	Bagged	Assortment of Sizes and Types			2.821	79.9	-

Miscellaneous Accessories

KDS805FS Finger Switch for Shot Meters

- Plugs in to KDS808, KDS834, and KDS824 series Shot Meters
- Replaces the foot pedal as method of actuation



KDS805FS

KDS816 Syringe Holder Stand

- Compatible with all sizes of syringes and adapters
- Keeps syringe upright - preventing accidental flow of material back up the air line
- Keeps work bench neat and clean



KDS816

Cat No.	UPC No.	Description	Pack Wt.		Pack Quantity
			lb	g	
KDS75013P	037103178046	Plastic Luer Lok™ Needle Adapter	0.046	1.3	10
KDS805FS	037103178077	Finger Switch for Shot Meters	0.147	4.2	1
KDS816	037103178091	Syringe Holder Stand	0.620	17.2	1

Material Selection Chart

Systems Materials	Syringe	Cartridge	Tank & Valve
Solder Paste	X	X	
Solder Mask	X	X	X
Epoxies	X	X	
Adhesives	X	X	X
Oil	X	X	X
Grease	X	X	
Silicones	X	X	
RTV's	X	X	
Gels	X	X	
UV Materials	X	X	X
Cyanoacrylates	X		
Inks	X	X	X
Self-leveling	X	X	X
Non-self-leveling	X	X	
Two-part Materials	X	X	

Cat. No.	Page	Cat. No.	Page	Cat. No.	Page	Cat. No.	Page	Cat. No.	Page	Cat. No.	Page
102025	12	A30LL	14	KDS182BT	20	KDS2312P	21	KDS5C500XL	24	M30LLUV	16
102060	12	A30LLPS	14	KDS182T	23	KDS2312T	23	KDS60C	12	M30T	15
102120	12	A30LLUV	14	KDS18SC	19	KDS231BBN45	21	KDS660	21	M3LLASSM	15
10LL1	18	A30T	14	KDS18TN	22	KDS231BT	21	KDS75013P	25	M3LLASSM100	15
10LL1UV	19	A3LL	14	KDS18TN25	22	KDS231P	21	KDS760A	3, 11	M3LL	15
10LL2	18	A3LLPS	14	KDS18TNB	22	KDS24112T	23	KDS7C700L	24	M3LL100	15
10LL2B	18	A3LLUV	14	KDS18TNP	22	KDS2412BT	21	KDS7C700M	24	M3LLBA	15
10LL2M	18	A5LL	14	KDS19112BT	20	KDS2412P	21	KDS7C700S	24	M3LLUV	16
10LL2PS	18	A5LLPS	14	KDS19112P	20	KDS2412T	23	KDS7C700XL	24	M50LL	15
10LL2UV	19	A5LLUV	14	KDS1912BBN45	21	KDS241P	21	KDS801	16	M50LLASSM	15
10LL4	18	A6T	14	KDS1912P	20	KDS24TN	22	KDS801S6	16	M50LLBA	15
10LL4B	18	KDS100CA	3	KDS191BT	20	KDS24TNP	22	KDS803S	16	M50TASSM	15
10LL4UV	19	KDS100F	10	KDS191P	20	KDS2501P	13	KDS803S6	16	M50TBA	15
10T1	18	KDS100HCA	3, 9	KDS1P	12	KDS2503	13	KDS805FS	3, 25	M5LL	15
10T2	18	KDS100SS	10	KDS1TC	19	KDS25112BT	21	KDS805S	16	M5LLASSM	15
10T4	18	KDS100WCA	3, 9	KDS1TCUV	19	KDS2512BBN45	21	KDS805S6	16	M5LLASSM100	15
15LT	19	KDS120C	12	KDS1WP	12	KDS2512BT	21	KDS806	6	M5LLBA	15
15LTB	19	KDS14112BT	20	KDS2001HC	5	KDS2512P	21	KDS806D	6	M6T	15
1L1	18	KDS14112P	20	KDS200SS	10	KDS251BT	21	KDS806V	6	PG102120	12
1L2	18	KDS1412BT	20	KDS20112BT	20	KDS251P	21	KDS806VD	6	PG10225	12
1L4	18	KDS1412P	20	KDS20112P	20	KDS25C	12	KDS8070	13	PG10260	12
20LL2	18	KDS1412T	23	KDS20112T	23	KDS260035PS	13	KDS8070P	3, 13	SYSTEM100	7
30LL	18	KDS141BT	20	KDS2012BBN45	21	KDS2601HL	3, 11	KDS808	5	SYSTEM225	7
30LL1	18	KDS141P	20	KDS2012BT	20	KDS26112T	23	KDS808D	5	SYSTEM230	7
30LL1PS	18	KDS141T	23	KDS2012P	20	KDS2612BT	21	KDS810S	16	SYSTEM240	8
30LL2	18	KDS142T	23	KDS2012PBN45	21	KDS2612P	21	KDS810S6	16	SYSTEM300	8
30LL2M	18	KDS14TN	22	KDS2012T	23	KDS2612T	23	KDS816	25	SYSTEM500	8
30LL2MB	18	KDS14TN25	22	KDS201BT	20	KDS261BBN45	21	KDS824A	4	SYSTEM800	9
30LL2PS	18	KDS14TNB	22	KDS201P	20	KDS261P	21	KDS824AD	4		
30LL4	18	KDS14TNP	22	KDS201T	23	KDS27112BT	21	KDS830S	16		
30T1	18	KDS15112BT	20	KDS202BT	20	KDS2712BT	21	KDS830S6	16		
30T2	18	KDS15112P	20	KDS202T	23	KDS271BT	21	KDS834A	4		
30T2A	18	KDS15112T	23	KDS20SC	19	KDS271P	21	KDS834AD	4		
30T3	18	KDS1512BBN45	21	KDS20TN	22	KDS27516BT	21	KDS8615	12		
30T4	18	KDS1512BT	20	KDS20TN25	22	KDS27516P	21	KDS8C800L	24		
3LL1	18	KDS1512P	20	KDS20TNB	22	KDS2812T	23	KDS8C800M	24		
3LL1B	18	KDS1512PBN45	21	KDS20TNP	22	KDS2C	12	KDS8C800S	24		
3LL1UV	19	KDS1512T	23	KDS21112BT	20	KDS301	3, 11	KDS8C800XL	24		
3LL2	18	KDS151BBN45	21	KDS21112P	20	KDS30112T	23	KDSCOTS	24		
3LL2B	18	KDS151P	20	KDS21112T	23	KDS3012BT	21	KDSDELUXEKIT	3, 6		
3LL2M	18	KDS151T	23	KDS2112BBN45	21	KDS3012P	21	KDSGLOVES	25		
3LL2PS	18	KDS16112BT	20	KDS2112BT	20	KDS3012T	23	KDSNC	19		
3LL2UV	19	KDS16112P	20	KDS2112P	20	KDS30516BT	21	KDSNCB	19		
3LL4	18	KDS1612BT	20	KDS2112T	23	KDS416	12	KDSQ095L	25		
3LL4B	18	KDS1612P	20	KDS211BT	20	KDS432	12	KDSQ095M	25		
3LL4UV	19	KDS161BT	20	KDS211P	20	KDS4P	12	KDSQ095S	25		
50LL1	18	KDS161P	20	KDS216	12	KDS5000A	24	KDSQ095XL	25		
50LL1GRAD	18	KDS162T	23	KDS218	12	KDS501S6	17	KDSQ096L	25		
50LL2	18	KDS16SC	19	KDS22112BT	20	KDS503S	17	KDSQ096M	25		
50LL4	18	KDS16TN	22	KDS22112T	23	KDS503S6	17	KDSQ096S	25		
5227K	19	KDS16TN25	22	KDS2212BBN45	21	KDS505S	17	KDSQ096XL	25		
5LL1	18	KDS16TNB	22	KDS2212BT	20	KDS505S6	17	KDSQ09BPFL	25		
5LL1B	18	KDS16TNP	22	KDS2212P	20	KDS5100LL	24	KDSQ09BPFM	25		
5LL2	18	KDS1712BT	20	KDS2212PBN45	21	KDS5100LLDC	24	KDSSAMPLEPAC	21		
5LL2B	18	KDS1712P	20	KDS2212T	23	KDS510S	17	M10LL	15		
5LL2M	18	KDS171BT	20	KDS221BT	20	KDS510S6	17	M10LLASSM	15		
5LL2MB	18	KDS171P	20	KDS221P	20	KDS5200LL	24	M10LLASSM100	15		
5LL2PS	18	KDS18112BT	20	KDS221T	23	KDS5200LL2	24	M10LLBA	15		
5LL4	18	KDS18112P	20	KDS222T	23	KDS5200LL3	24	M10LLUV	16		
5LL4B	18	KDS18112T	23	KDS22SC	19	KDS5200LLDC	24	M1BA	15		
6T1	18	KDS1812BBN45	21	KDS22TN	22	KDS530S	17	M1L	15		
6T2	18	KDS1812BT	20	KDS22TN25	22	KDS530S6	17	M1LASSM	15		
6T4	18	KDS1812P	20	KDS22TNB	22	KDS5400LL	24	M20LLASSM	15		
982	19	KDS1812PBN45	21	KDS22TNP	22	KDS5400LLDC	24	M20LLBA	15		
A10LL	14	KDS1812T	23	KDS23112BT	21	KDS5C500L	24	M30LL	15		
A10LLPS	14	KDS181BT	20	KDS2312BBN45	21	KDS5C500M	24	M30LLASSM	15		
A10LLUV	14	KDS181P	20	KDS2312BT	21	KDS5C500S	24	M30LLBA	15		



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