

Cooper Tools



Kahnetics®

DISPENSING SYSTEMS

COOPER Tools

Kahnetics® Table of Contents

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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

| Controller | Handpiece | KDSDELUXEKIT | KDS807OP | KDS100CA | KDS100HCA | KDS100WCA | KDS2601HL | KDS760A | KDS805FS | KDS301 |
|-------------|-----------|--------------|----------|----------|-----------|-----------|-----------|---------|----------|--------|
| 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 an 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 an 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. lb | Pack Wt. g | Pack Quantity |
|----------------|--------------|----------------------------|--------|--|-------------|------------|---------------|
| 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 an 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. lb | Pack Wt. g | Pack Quantity |
|------------------|--------------|--------|-------------------------------------|-------------|------------|---------------|
| 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

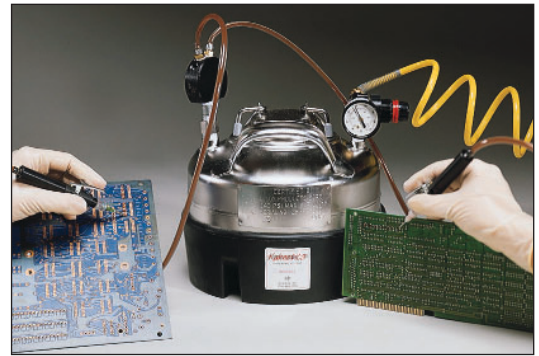
Kit contents:

- 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
- Accomodates 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

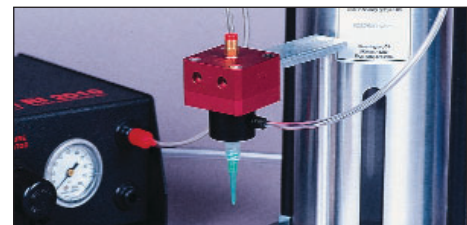
- For use with high viscosity sealant, caulk, and adhesive
- Air operated with manual "ON-OFF" control
- Comes with 6 ounce cartridge retainer (2.5 and 12 oz. sizes available - see page 12)
- For use with loadable, disposable cartridges
- Foot actuated valve with pressure gauge
- Minimal waste and cleanup



| 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

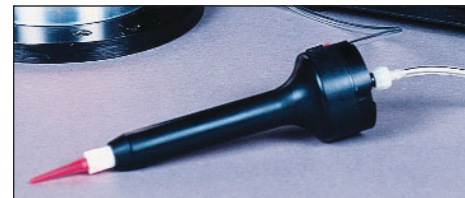
- Mounted valve for hands-free dispensing
- Foot actuated and metered for reproducible deposits



| 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 |

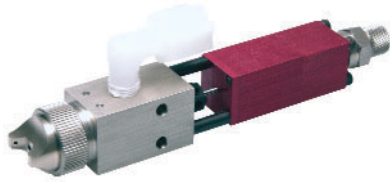
KDS100WCA Hand Held Dispensing Wand

- 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 |

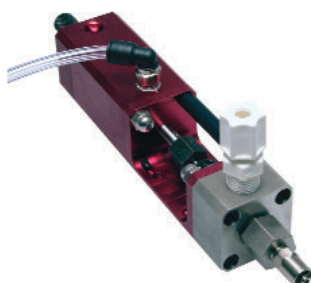
KDS100SS Stainless Steel Valve



- 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 Kahnetics 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

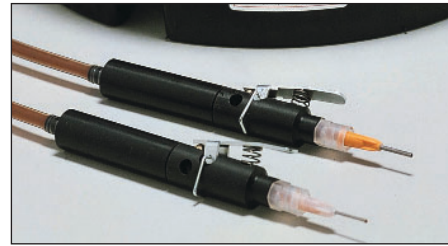


- High pressure, stainless steel pneumatically controlled needle valve
- Use with silicone, adhesive, epoxy, UV material, RTV, grease, oil, or any fluid up to two million centipoise in viscosity
- The fluid inlet is three times larger than that of the KDS100SS, which makes it capable of dispensing large 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 Kahnetics 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

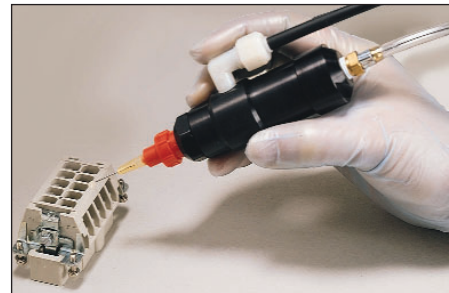
- Dispenses low to medium viscosity water soluble and peelable mask as well as other single component materials
- Lightweight, low cost, ergonomic design replaces squeeze bottle
- Can be used with any reservoir or cartridge system
- Wands can be “ganged” together to run multiple operators from one tank



| 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)



| 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 |

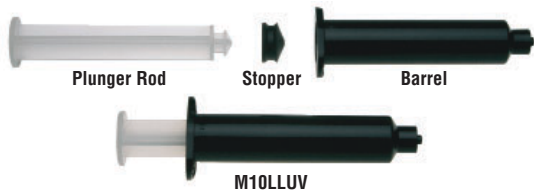
Manual Assembled Calibrated Syringes

- 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 |
| M10LLASSM | 037103176998 | Bagged | 10CC | Rubber | Luer Lok™ | 0.294 | 8.3 | 15 |
| M10LLASSM100 | 037103177001 | Bagged | 10CC | Rubber | Luer Lok™ | 1.860 | 52.7 | 100 |
| M10LLBA | 037103177025 | Boxed | 10CC | Rubber | Luer Lok™ | 16.650 | 471.7 | 850 |
| M20LLASSM | 037103177063 | Bagged | 20CC | Rubber | Luer Lok™ | 0.358 | 10.1 | 10 |
| M20LLBA | 037103177070 | Boxed | 20CC | Rubber | Luer Lok™ | 11.890 | 336.8 | 325 |
| M30LLASSM | 037103177094 | Bagged | 30CC | Rubber | Luer Lok™ | 0.452 | 12.8 | 10 |
| M30LLBA | 037103177100 | Boxed | 30CC | Rubber | Luer Lok™ | 11.160 | 316.2 | 225 |
| M50LLASSM | 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 plunger 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

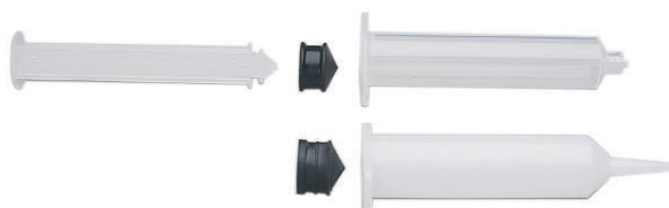


KDS510S

| 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

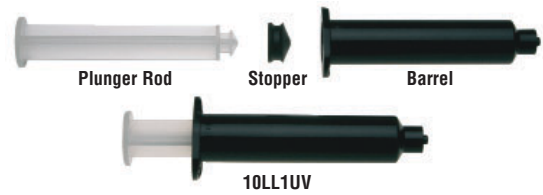


Bulk Syringe Components, continued

| 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 |

Teflon Needles

- 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

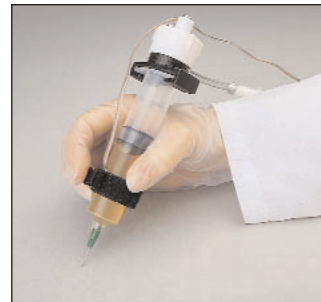


| Cat No. | UPC No. | Packed | Size | Class | Type | Pack Wt. | | Pack Quantity |
|------------|--------------|--------|-------------------------------|-------|----------------|----------|------|---------------|
| | | | | | | lb | g | |
| KDSQ095S | 037103177834 | Bagged | Small | 100 | Nitrile, 4 Mil | 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 | KDSQ09BPF | 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 | KDS222SC | 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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