











INSULIN PUMPS

Company Insulin Pump	Size and Weight	Battery	Reservoir	Infusion Set	Basal Range	Bolus Range	Food Database?	Meter Interaction?	CGM Interaction?	Details
Animas Corp. OneTouch Ping 	Pump: 2 x 3.25 x 0.85 in. 3.9 oz. with battery and full reservoir Meter remote: 3.8 x 2.46 x 1.12 in. 3.25 oz. with batteries	Pump: (1) 1.5-volt lithium AA or 1 AA Meter remote: 2 AAA	200-unit cartridge	Compatible with all standard Luer-lock infusion sets	From 0.025 to 25 units per hour in 0.025-unit increments	0.05 to 35 units in 0.05-unit increments. Insulin-to-carb ratio in whole units only.	Yes, meter remote stores up to 500 foods and their nutrition information. Added software allows users to customize food database.	Yes, meter remote sends blood glucose results wirelessly to pump.	No	Meter remote and pump can each control nearly all pump functions, including delivering a bolus, monitoring pump stats, and confirming alarms and warnings. Meter remote works from up to 10 feet away. Pump is waterproof for up to 12 feet deep for 24 hours, so there's no need to disconnect while swimming or bathing. Eight pump and eight meter remote "skins" are available to customize. Works with ezManager Max data management software, which is compatible with Windows (except Windows 7 and 8) and Mac operating systems. Pump also works with Diasend Web-based data management software.
Animas Corp. Vibe 	2 x 3.25 x 0.85 in. 3.9 oz. without batteries and with empty reservoir	(1) 1.5-volt lithium AA or 1 AA	200-unit cartridge	Compatible with all standard Luer-lock infusion sets	From 0.025 to 25 units per hour in 0.025-unit increments	From 0.05 to 35 units in 0.05-unit increments. Insulin-to-carb ratio in whole units only.	Yes, pump stores up to 500 foods and their nutrition information.	No	Yes, works as an all-in-one pump/CGM.	The Vibe is a pump with built-in CGM technology that uses a sensor to wirelessly transmit continuous glucose readings. (More on its CGM functions on p. 56.) Pump is waterproof for up to 12 feet deep for 24 hours, so there's no need to disconnect while swimming or bathing. Eight pump "skins" are available to customize. Works with Diasend Web-based data management software, which is compatible with Windows and Mac operating systems.
Asante Snap 	3.9 x 1.73 x 0.83 in. 3.14 oz. with full reservoir	Battery integrated into the body of the pump. No recharging and no replacement required.	300-unit prefilled cartridges	Compatible with Snap infusion sets only	From 0.1 to 4 units per hour in 0.05-unit increments	From 0.05 to 25 units in increments of 0.05 to 5 units. Insulin-to-carb ratio allows for fractions of grams.	No	No	No	The Snap pump consists of two parts: a controller with buttons that controls pump functions and a disposable pump body that snaps into the controller. A prefilled, seven-day Humalog insulin cartridge inserts into the pump body. (The infusion set should still be changed every two to three days.) Pump automatically fills new infusion set with insulin. Pump automatically calculates insulin missed while pump was disengaged. Remove pump before bathing, swimming, or other water activities. Choose from a variety of colors and designs to customize pump. Color LCD screen and built-in flashlight. Works with Diasend Web-based data management software, which is compatible with both Windows and Mac operating systems. Not approved for use in children.
<p>As of May 15, 2015, Asante Solutions, maker of the Snap insulin pump, is no longer in business. Snap users: Please contact your health care provider about any clinical questions and a plan for your ongoing intensive insulin therapy. For questions about pump supplies, contact your mail-order distributor. Animas is offering, for a limited-time, a transition to the Animas Vibe pump (1-877-937-7867 x1562, animas.com).</p>										
Insulet Corp. OmniPod 	Pod: 1.53 x 2.05 x 0.57 in. 0.88 oz. with empty reservoir Personal Diabetes Manager (PDM): 2.4 x 4.4 x 0.98 in. 4.4 oz. with batteries	Pod: battery integrated PDM: 2 AAA	Pod includes built-in reservoir that holds 200 units.	Does not use tubing. Pod comes with a built-in cannula and automated inserter.	From 0.05 to 30 units per hour in 0.05-unit increments	From 0.05 to 30 units in increments of 0.05, 0.1, 0.5, or 1 unit. Insulin-to-carb ratio in whole units only.	Yes, PDM contains more than 1,000 common foods (with nutrition information) and stores up to 36 preset carb values.	Yes, a FreeStyle blood glucose meter is built into the PDM.	No	No tubing required: System includes a pod that's worn for up to 72 hours and a PDM that controls the pod's functions (you can't control the pod without the PDM). Pod is waterproof for up to 25 feet deep for 60 minutes, so there's no need to disconnect while swimming or bathing. Seven "skins" are available for PDM personalization. Works with Abbott's CoPilot data management software. Software is compatible with Windows (except Windows 8), but is not Mac compatible.
Medtronic Diabetes MiniMed 530G With Enlite 	Model 551: 2 x 3.3 x 0.81 in. 3.4 oz. with battery and empty reservoir Model 751: 2 x 3.7 x 0.82 in. 3.7 oz. with battery and empty reservoir	1 AAA	Model 551: 180-unit reservoir Model 751: 300-unit reservoir	Compatible with Medtronic infusion sets only	From 0.025 to 35 units per hour in 0.025-unit increments for up to 0.975 units. Increments of 0.05 units for between 1 and 9.95 units. Increments of 0.1 units for 10 units or more.	From 0.025 to 25 units. Increments of 0.025 units up to 0.975 units. Increments of 0.05 units for 0.975 units or more. Insulin-to-carb ratio allows for fractions of grams.	No	Yes, Contour Next Link meter wirelessly sends blood glucose results to pump.	Yes, works as an all-in-one pump/CGM.	The MiniMed 530G is the first FDA-approved device with Threshold Suspend. This feature stops insulin delivery for up to 2 hours if the blood glucose level reaches a preset low limit and the user doesn't react to a low-glucose alarm. (More on its CGM functions on p. 56.) Remove pump body before bathing, swimming, or other water activities. Works with CareLink Personal software to upload and manage pump and CGM data. Compatible with Windows (except Windows 8) and Mac operating systems. Not approved for use in children.

Company Insulin Pump	Size and Weight	Battery	Reservoir	Infusion Set	Basal Range		Bolus Range	Food Database?	Meter Interaction?	CGM Interaction?	Details
Medtronic Diabetes MiniMed Paradigm Real-Time Revel 	Model 523: 2 x 3.3 x 0.82 in. 3.4 oz. with battery and empty reservoir Model 723: 2 x 3.7 x 0.84 in. 3.6 oz. with battery and empty reservoir	1 AAA	Model 523: 180-unit reservoir Model 723: 300-unit reservoir	Compatible with Medtronic infusion sets only	From 0.025 to 35 units per hour in 0.025-unit increments for up to 0.975 units. Increments of 0.05 units for between 1 and 9.95 units. Increments of 0.1 units for 10 units or more.		From 0.025 to 25 units. Increments of 0.025 units up to 0.975 units. Increments of 0.05 units for 0.975 units or more. Insulin-to-carb ratio allows for fractions of grams.	No	Yes, Contour Next Link meter wirelessly sends blood glucose results to pump.	Yes, available as a stand-alone pump or an all-in-one pump/CGM.	The Real-Time Revel is a pump with built-in CGM technology that uses a sensor to wirelessly transmit continuous glucose readings. (More on its CGM functions on p. 56.) Remote-control capabilities. Remove pump body before bathing, swimming, or other water activities. Pump comes in five different colors, and "skins" are available to customize. Works with CareLink Personal software to upload and manage pump and CGM data. Compatible with Windows (except Windows 8) and Mac operating systems.
Roche Insulin Delivery Systems Accu-Chek Combo 	Pump: 3.2 x 2.2 x 0.8 in. 3.9 oz. with battery and full reservoir Meter remote: 3.7 x 2.2 x 1.0 in. 3.6 oz. with batteries	Pump: (1) AA lithium, alkaline, or rechargeable Meter remote: (3) AAA alkaline	315-unit cartridge	Compatible with all standard Luer-lock infusion sets	From 0.05 to 25 units per hour. Delivers in 0.01-unit increments for up to 1 unit per hour, in 0.05-unit increments for up to 10 units per hour, and in 0.1-unit increments for up to 25 units per hour.		From 0.1 to 25 units in increments of 0.1, 0.2, 0.5, 1, and 2 units for standard boluses. Extended and Multiwave boluses are adjustable in increments of 0.1 units. Insulin-to-carb ratio allows for fractions of grams.	No	Yes, Accu-Chek Aviva Combo meter remote sends results wirelessly to pump.	No	Meter remote and pump can each control nearly all pump functions, including delivering a bolus, monitoring pump stats, and confirming alarms and warnings. Meter screen displays graphs and data in full color. Meter remote works from about 6 feet away. Pump is watertight for up to 8 feet for 1 hour, though disconnecting is recommended for bathing, swimming, and other water activities. Works with Accu-Chek 360° software, insulin pump configuration software, and Smart Pix device reader for data management. Software and reader are compatible with Windows (except Windows 8; only 360° software works with Windows 7) but are not Mac compatible.
Sooil Development Dana Diabecare IIS 	2.95 x 1.77 x 0.75 in. 1.8 oz. without battery	(1) 3.6-volt DC lithium	300-unit cartridge	Compatible with Sooil infusion sets only	From 0.1 to 16 units per hour in 0.1-unit increments		From 0.1 to 10 units in 0.1-unit increments. From 10 to 87 units in 1-unit increments. Insulin-to-carb ratio in whole units only.	No	No	No	Menu uses icons instead of words. Available in a choice of five colors. Does not work with data management software.

Insulin Pumps

Company Insulin Pump	Size and Weight	Battery	Reservoir	Infusion Set	Basal Range		Bolus Range	Food Database?	Meter Interaction?	CGM Interaction?	Details
Tandem Diabetes Care T:flex 	3.13 x 2.0 x 0.84 in. 4.05 oz. with battery and full reservoir	Rechargeable lithium polymer battery	480-unit cartridge	Compatible with all standard Luer-lock infusion sets	From 0.5 to 15 units per hour in 0.001-unit increments		From 0.5 to 60 units in 0.01-unit increments. Insulin-to-carb ratio allows for fractions of grams.	No	No	No	Largest-capacity insulin pump designed for people who require more than 100 units of insulin per day. Maximum bolus of 60 units. Color touch screen. Micro-delivery technology allows for a thinner pump. Rechargeable battery with micro USB. Pump is watertight for up to 3 feet deep for 30 minutes, so there's no need to disconnect while swimming or bathing. Works with T:Connect Diabetes Management Application, Tandem's Web-based software that is compatible with both Windows and Mac operating systems. May be used by children 12 and over.
Tandem Diabetes Care T:slim 	3.13 x 2.0 x 0.6 in. 3.95 oz. with battery and full reservoir	Rechargeable lithium polymer battery	300-unit cartridge	Compatible with all standard Luer-lock infusion sets	From 0.1 to 15 units per hour in 0.001-unit increments		From 0.05 to 25 units in 0.01-unit increments with an option for up to an additional 25 units. Insulin-to-carb ratio allows for fractions of grams.	No	No	No	Color touch screen. Flat reservoir design and micro-delivery technology allow for a thinner pump. Rechargeable battery with micro USB. Delivers smallest basal insulin increments available. Pump is watertight for up to 3 feet deep for 30 minutes, so there's no need to disconnect while swimming or bathing. Works with T:Connect Diabetes Management Application, Tandem's Web-based software that is compatible with both Windows and Mac operating systems. Also works with Diasend, a Web-based glucose data management software. May be used by children 12 and over.