Products List as of January, 2015

Category	Product Name	Specs	Product Images
Breast Pumps	Electric Breast Pump Pro		
	Electric Breast Pump Portable		02
	Manual Breast Pump		02
	Hand Expression Cup		
	SofTouch™ Peristaltic PLUS Series	SSS	\triangle
	Nipple for Hospital Use	SS	
Nursing Bottles for Infants	SofTouch™ Peristaltic PLUS Series	100ml	
reasing bottles for infants	Nursing Bottle for Hospital Use	200ml	
	Cap for Nursing Bottle for Hospital Use		
	Name Plate for Nursing Bottle for Hospital Use		
	Bottle for Cleft Lip and Palate	240ml	\triangle
Nursing Bottles for Infants	Nipple for Cleft Lip and Palate	Small	
with cleft lip and palate	rappie to dest dip and talate	Regular	A
	Feeder with Long Silicone Nipple	120ml	
	Breastmilk Storage Bags		
	Breastmilk Storage Bottles	Wide-neck	_
Breast Milk Storage Accessories	Breastillik Storage Bottles	Slim-neck	
	Bottle & Babyfood Warmer	Power input : AC220V, 50-60Hz Plug type : G or E	-
	Nipple Care Cream		
Nipple Care Items	Nipple Shield	Soft type (M size/L size)	
	Nippie Silielu	Hard type	8
	Nipple Puller		
	Breast Pads Honeycomb	36pcs	
	breast rads noneycomb	60pcs	







PIGEON di

Product Guide For Pediatric and Maternity Hospitals



From the medical practice to households.

Pigeon covers all areas related to breastfeeding.

Care/Prevent Skin Problems around the Nipple and Breast Nipple Protrusion Easier for the Baby to Latch on Use of Nipple Shields to Protect Sore Nipples Effectively and Comfortably Pump Breast Milk Safely Store Pumped Breast Milk Feeding Pumped Breast Milk with a Nursing Device

Pigeon's approach to breastfeeding

Breastfeeding not only provides infants with necessary nutrients, but it is an important activity that strengthens the bond between the mother and infant.

Pigeon believes that the ideal form of breastfeeding is when the infant feeds directly from the mother's nipple (direct breastfeeding), and we endeavor to support this.

When direct breastfeeding becomes difficult for any reason, Pigeon's products are designed to provide solutions that will enable mothers to return to this ideal form of breastfeeding. Our corporate philosophy is represented in our ribbon symbol.

The left side of the ribbon shows how Pigeon's products support a mother's return to direct breastfeeding when a problem occurs with the nipple or the breast. The right side of the ribbon expresses Pigeon's philosophy of supporting direct breastfeeding by providing the option to pump, store, and bottle-feed precious breast milk when the mother cannot breastfeed directly.

For mothers and infants the world over.

one of the famous medical doctor from the biggest national

hospital in Indonesia in 2013, and the study of the feeding

infant sucking motion to facilitate imaging of the infant's

visit hospitals in each other's country to develop further

tongue movements during feeding, and the data are being

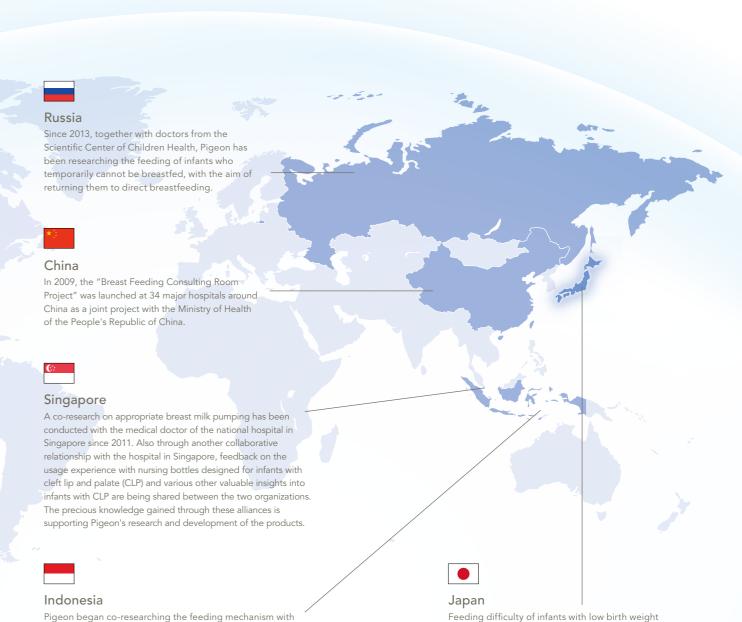
collected in the hospital in Indonesia. The two organizations

understanding and expertise, while exchanging information to

design optimal products for the infants in NICU of Indonesia.

problems in NICU. Pigeon provided the information regarding

Pigeon's research activities are conducted in collaboration with healthcare professionals, government and academia.



(LBW) is jointly being researched by Pigeon and

Sekishinkai Hospital Pediatrics since 1992. The

conducted since 2008 with Dr. Tatsuno of Showa

University School of Medicine Pediatrics to clarify

the mechanism of sucking of the infants with CLP.

co-research of the infants with CLP has been

Dr. Hayashi of the Vice Director of Saitama

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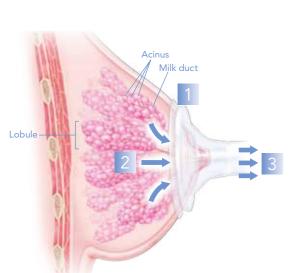
Thorough research of mothers' breasts and breast milk pumping mechanisms lead to the development of a comfortable and efficient breast pump.

Pigeon's view on breast pumps

When direct breastfeeding becomes difficult, with the use of a breast pump an infant can receive the essential nutrients found in breast milk. However, if pain or discomfort occurs during this process, the mother may become hesitant about using the breast pump, which can lead to problems such as a decline in milk production or shortening of the breastfeeding period.

The ideal breast pump experience Pigeon aims for is similar to what we are trying to achieve in direct breastfeeding support: pain-free and discomfort-free pumping that enables the mother to express sufficient milk volume each time. In order to provide such an experience, Pigeon focused on the three key factors in pumping breast milk.

The three key factors for developing breast pumps





Perfect Fit

If a breast pump does not fit the breast well, there's a risk of air leakage. This can cause discomfort to the mother. Improving breast pump fit helps prevent air leakage, allowing the mother to express milk comfortably.



Gentle Stimulation

Breast milk is secreted from the acinus cells, then flows through to the milk ducts. In this process, the let-down reflexes, generated by gentle stimulation, play the important roles to gather milk to the main duct which leads to the nipple.

By having this step before expression, it eases the burden on the mother and enables smooth expression.



Efficient Expression

Every mother has a preferred suction pressure and speed during expression.

To respond to these varying needs and to enable efficient milk expression, the suction pressure and speed of the breast pump should be freely adjustable.

Comments of Mothers

- When the baby sucks, it can be sometimes painful because he sucks strong, but with the preparation mode on the breast pump, even if my breasts are full, I can express milk smoothly without pain.
- There is a fit cover on the cup, so it doesn't come off easily, which is good.
- It's good how the expression time is displayed. Now I know how long it takes until let-down.

(Pigeon : New Electric Breast Pump FC Research Participants, September 2014)

■ Breast Pumps



Soft fit cover

The soft silicone wings (air-tight ring) improve fit to the breast, and helps prevent air-leakage which can interrupt suction.

*Regular and large sizes available

Preparation mode

Gentle stimulation promotes the let-down reflex, which alleviates burden on the mother.

Suction pressure and suction speed freely adjustable during expression

Suction pressure and suction speed can be freely adjusted during expression.

This responds to the individual needs of mothers, and supports sufficient volume of expression over a short time.

Electric Breast Pump Pro

For mothers who want to accommodate their own pumping style, which increases comfort

 Customizable pumping style : 7 adjustable levels of suction pressure with 4 adjustable suction speeds to choose from

Electric Breast Pump Portable

• Adjustable suction pressure : 6 adjustable levels

• Portable and compact : For easy pumping

· Simple and easy: Fewer parts, which makes it

 $\bullet \, \mathsf{LED} \,\, \mathsf{monitor} : \mathsf{Easy} \,\, \mathsf{to} \,\, \mathsf{use} \,\, \mathsf{and} \,\, \mathsf{view}$

For mothers on the go

of suction pressure

anytime, anywhere

Manual Breast Pump

For mothers who like simplicity and fuss-free pumps

•Ergonomic easy-express handle: Reduces hand fatigue for comfortable and easy pumping

• Quiet, compact and lightweight : For a discreet pumping experience

• Simple and easy : Fewer parts, which makes it easy to assemble, use and clean



Hand Expression Cup

For manual expressing by hand

• Wide socket facilitates receiving milk into the



Attachment Specifications

easy to assemble, use and clean

	Soft Fit Cover	Preparation Mode	Suction Pressure and Suction Speed Adjuster
Electric Breast Pump Pro	©	© (2 adjustable suction speeds)	(7 adjustable levels of suction pressure, 4 adjustable suction speeds)
Electric Breast Pump Portable	0	0	(6 adjustable levels of suction pressure)
Manual Breast Pump	©	0	(Manually adjusted)

Supporting breastfeeding around the world. Pigeon's feeding devices for professional use are developed through research of the three key factors of sucking.

Pigeon's view on sucking

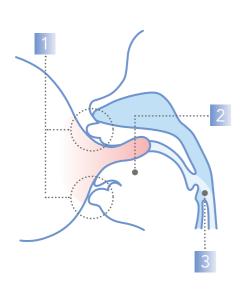
Infants who have difficulty with direct breastfeeding can continue to receive breast milk through the use of feeding devices such as bottle teats.

Through long-term research on sucking, Pigeon uncovered the "three key factors of sucking". We endeavor to develop products that enable the infant to latch-on, suck, and swallow just like during direct breastfeeding, facilitating a return to direct breastfeeding even after the use of bottle teats.

Pigeon also supports oral feeding of infants with low birth weight (LBW) who have premature breathing-swallowing coordination, and infants with cleft lip and palate (CLP) who find it difficult to latch-on to the mother's breast, by providing specially developed bottle teats.

Pigeon's nursing bottles are developed with the single-minded concept that "Our desire is to deliver the benefits of breastfeeding to all babies".

The three key factors of sucking





Attachment (Latch on)

When the infant latches on to the nipple, the mouth opens wide and the lips curl outwards. This enables a tight seal over the nipple and the areola, creating the negative pressure inside the oral cavity required for sucking.



Peristaltic Tongue Movement

The infant's tongue moves in a wave-like motion over the nipple to suck breast milk.

This is called peristaltic movement, and is derived from innate primary behaviors.



Swallowing

Infants swallow breast milk down to the esophagus, breathing at the same time as the tongue moves. Excessive milk burdens infants with swallowing difficulties, resulting in choking.

Specialists

- Everyone should breastfeed for maximum benefit to the infant, but this is even more important for preemie babies. (Neonatologist, US)
- Preemies and NICU babies are hard to initiate on breastfeeding. It really takes a huge commitment. Bottles are easier. (Pediatrician, US)
- My patients aren't mature enough to have developed the sucking power necessary to breastfeed. Fortunately, there are preemie nipple attachments available to help with preterm babies. (Neonatologist, US)

(Pigeon : Research on Pediatricians, Lactation Consultants and Neonatologists in the US and Philippines Regarding Breastfeeding, 2014)

Nursing Bottles for Infants

A teat design that controls milk flow

The teat design prevents excessive milk from flowing into the infant's mouth, supporting controlled breathing and swallowing.

Small teat head

A size comfortable for infants with a small mouths.



Bottle teats for Infants with LBW

Sof Touch™ Peristaltic PLUS Series / Nipple for Hospital Use

- Teat tip is small enough to be used for infants exhibiting difficulty latching on
- Can also be used for infants with very low birth weight
- · Also available in SS size for general newborns

Sterilization Method: Boiling, Steam, Chemical, Autoclave Material: Silicone rubber



Nursing Bottle for Hospital Use

- · Specially designed for convenience and hygienic usage in the hospital
- •The bottle comes without a screw cap or hood
- For use with the SofTouch™ Peristaltic PLUS SSS/SS nipple for infants with LBW and general newborns
- Available in 2 sizes 100ml and 200ml

Sterilization Method : Boiling, Steam, Chemical, Autoclave Material : Borosilicate glass



Cap for Nursing Bottle for Hospital Use



Name Plate for Nursing Bottle for Hospital Use

Sterilization Method: Boiling, Steam, Chemical Material : Polypropylene

Cleaning/sterilizing bottle teats and nursing bottles

Use mild detergent when washing. Method of sterilization differs according to material. For autoclaving (high pressure steam sterilization), follow the temperatures and times indicated below. The material durability will decline if sterilized using higher temperatures or for longer durations.

Material	Boiling	Autoclave	Chemical	Suggested replacement timing
Silicone rubber	0	0	0	Total time boiled : 24 hours Total time autoclaved : 20 hours
Borosilicate glass	0	0	0	
Polypropylene	0	×	0	
PPSU	0	×	0	

Pace of feeding

Time and volume of each feeding session differs according to individual, but the general pace of feeding for newborns to infants aged 1-2 months is indicated below. Please use the following information to select the appropriate teat for each baby to enable appropriately paced feeding.

Age	Milk volume	Pace	Feeding time
0 - 5 days	30-50ml	3-5ml/min	5-10min
5 days - 1 month	50 - 100 ml	5-10ml/min	Approximately 10min
1-2months	100 - 160 ml	10-15ml/min	10 - 15 min

- * Autoclave sterilization temperature and time must be either 121~124°C for 15minutes, or 135°C for 3 minutes
- *Silicone rubber products should be replaced 2 months after first use.
 *"Total time" in suggested replacement timing does not include time of the heat increase/decrease

*Do not expose bottle teats under UV rays.

■ Nursing Bottles for Infants with Cleft Lip and Palate

2 nipple sizes Choose small or regular size to suit the infants.

Nipple specially designed for infants with CLP

Neither air nor milk will pass through the cleft while sucking.



Backflow prevention valve

Place the valve inside the teat to prevent milk from flowing back into the bottle during feeding. This enables the infant to suck milk easily by gently crushing the teat.

Soft, easy-to-hold bottle

A gentle squeeze of the bottle is enough to push milk into the infant's mouth.

For infants with CLP

Bottle and Nipple for Cleft Lip and Palate

- Specially designed for the proper feeding of infants with CLP or with poor sucking strength
- $\, {}^{\bullet} \text{Y-cut}$ nipple is thick on one side and thin on the other for easy sucking
- \bullet One-way valve prevents milk inside the nipple from flowing back into the bottle

Bottle available in 240ml

Accessories :

Soft silicone nipples – small size and regular size Sterilization Methods : Boiling, Steam, Chemical

*Autoclave only for nipple Material : Polypropylene



Nipples available in small and regular sizes

Sterilization Method :

Boiling, Steam, Chemical, Autoclave Material: Silicone rubber





For post-surgery and micrognathia

Feeder with Long Silicone Nipple

- Specially designed for the proper feeding of infants with poor sucking strength or infants who have difficulty in closing the mouth to feed
- •The flow rate during feeding can be adjusted using the squeezable bottle

Bottle available in 120ml

Sterilization Method : Boiling, Steam, Chemical Material : Polypropylene

Long silicone nipple

Sterilization Method : Boiling, Steam, Chemical, Autoclave Material : Silicone rubber

List of Feeding Devices

	SofTouch™ Peristaltic PLUS Nipple	SofTouch™ Peristaltic PLUS Nipple for Hospital Use	Bottle and Nipple for Cleft Lip and Palate	Feeder with Long Silicone Nipple
General newborns	0	0		
Infants with LBW		0		0
Infants with CLP			0	0

Supporting "breast milk any time". Pigeon's storage accessories.

Pigeon's view on breast milk storage

Hygienic breast milk storage is crucial, especially when the mother experiences nipple probrems, mother-infant separation or excess milk production.

The nutrients and immunity breast milk provides should always be available to infants. That's why Pigeon focuses on "quality storage."



■ Breast Milk Storage Accesories

Breastmilk Storage Bags

A design dedicated to hygiene

- For storage and freezing of expressed breast milk
- Pre-sterilized using gamma rays
- •Comes with leak-proof double zipper seal
- $\bullet \, \mathsf{Self}\text{-}\mathsf{standing} \; \mathsf{bag} \; \mathsf{for} \; \mathsf{ease} \; \mathsf{of} \; \mathsf{use} \\$
- Flat storage in freezer maximizes surface area, making it easier to thaw
- •Cost effective stores a large quantity of breast milk

Material : Food-grade polyethylene



Breastmilk Storage Bottles

No need to pour into a feeding bottle

- A convenient choice that permits expression of breast milk into the storage bottle followed by safe and secure refrigeration
- Available in 2 types Wide-neck and Slim-neck

Sterilization Method : Boiling, Steam, Chemical Material :

Material :
Bottle / Cap – Polypropylene
Sealing disk* – TPE





ck Slim

Bottle & Babyfood Warmer

To heat and keep warm breast milk and baby food

- Instant heating of breast milk and baby food
- Able to control heating temperature to ensure the milk or food never gets over-heated to avoid destroying the nutrients
- Easy to handle, wash and carry
- Fits all bottle size

Accessories: Heating cup, cover Material: Heating cup / Cover / Main body - Polypropylene Heating plate - Aluminum Power input: AC220V, 50-60Hz Plug type: G or E



About storage of breast milk

When experiencing nipple problems, mother-infant separation, or excess milk production, breast milk storage is strongly recommended. To store breast milk hygienically, sterilization of the breast pump and storage bottles and careful control of storage temperature are crucial. Breast milk should be placed in the fridge or freezer immediately after pumping, in a location relatively unafected by the temperature change that occurs when opening and closing the fridge/freezer door. Pumped breast milk should be used as soon as possible when removed.

Storage limits of breast milk

	Refrigeration (Below 4°C)	Freezing (Approx18°C)	
Freshly pumped milk	24 hours	3 Months (ideal), to 6 months (acceptable)	
After defrosting (Thawing without heating)	24 hours	(Do not refreeze)	

^{*}Milk stored in the refrigerator/freezer should be gently warmed in water of approximately 40°C. It is best not to use boiling water or a microwave.

Transfering the milk to another pot after the water becomes tepid will warm it up more quickly than letting it come to room temperature alone.

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To enable mothers to continue breastfeeding, Pigeon protects the nipple area.

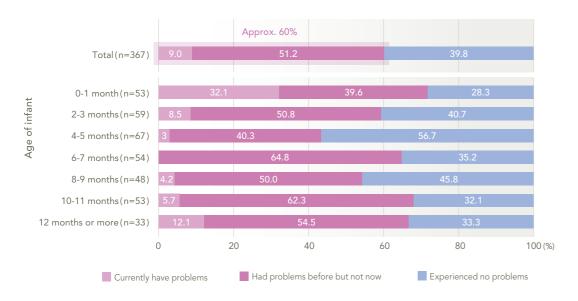
Pigeon's view on nipples/papilla

When problems such as cracked nipples or pain in the nipple occur, directly feeding from the mother's breast becomes difficult temporarily.

Pigeon researched mothers with infants in the age range of 0-12 months, and found that approximately 60% of mothers experienced problems related to the nipple. The most frequent problems were cracked nipples and pain, but nipple form abnormalities such as flat or inverted nipples were also observed frequently.

Pigeon provides products that can ease these temporal problems, to enable the mother to return to and continue direct breastfeeding.

Fig.1 Ratio of mothers experiencing or having experienced nipple problems (n=367)



Subjects: 367 mothers with infants between the age of 0-12 months

Method: Web survey Surveyed Period: February, 2012

Reference

Pigeon : Breastfeeding Research, 2012

Comments on the cream > Comments of Cracked nipples improved. • No color or smell indicates that it is good for the body. Nurses • It's good how it doesn't feel sticky when applied. (Pigeon: Hospital Research Report about Nipple Care Cream, 2013*) *The research was conducted using "Repair Nipple", the Japanese product name for Nipple Care Cream.

■ Nipple Care Items

Pigeon supports breastfeeding by helping mothers protect their nipples.



Nipple Care Cream

For the mother's nipple or the baby's skin

- Soothes, heals and protects dry, cracked skin
- Made of 100% ultra-pure lanolin
- Hypoallergenic
- Completely natural
- Fragrance-free and no additives

Net Weight: 50g

Ingredients : 100% ultra-pure grade, USP modified lanolin

Correct flat or inverted nipples for smoother breastfeeding

- Draws out flat or inverted nipples gently and painlessly
- Helps infant to latch on to ease engorgement naturally
- Troips infant to later on to case engorgement nature
- Easy to use and clean
- $\hbox{\bf \cdot Comes with casing for ease of travel}\\$

Material : Case / shield - Polypropylene Bulb - Silicone rubber



For mothers with inverted, flat, or cracked nipples, or for mothers struggling with pain during breastfeeding

- Made from a soft flexible silicone rubber that provides a wide contact surface
- •To relieve pain caused by sore or cracked nipples when breastfeeding
- •To solve severe or persistent latch-on problems caused by flat, inverted nipples
- •Comes with a casing for ease of travel
- ullet Available in 2 types Soft and Hard
- Hard type is for nipples with severe sores, cracks and/or pain

Material : Case – Polypropylene Nipple shield - Silicone rubber



Soft type (M size / L size)



Hard type

Breast Pads Honeycomb

Prevent milk leakage

- Maintains its smooth form and shape even with the heaviest flow
- Quilted honeycomb lining provides leak-proof coverage
- Individually wrapped to take with you while on-the-go
- Available in packages of 36 or 60



