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TUOREN MEDICAL

Tuoren is a healthcare solutions provider, focusing on medical consumables and extending to electronic medical devices, surgery devices and biomedical materials. As a promising enterprise, Tuoren steadily pushes forward merger and acquisition, joint venture and open collaboration to realize diversified development. Since its foundation, Tuoren keeps moving on. By now Tuoren has had over 30 subsidiaries, more than 220 kinds of products with over 1880 specifications mainly in the field of Anesthesia, Pain Management, Nursing, Diagnostics, Surgery, Hemodialysis and Intervention. Widely recognized for its superior service, competitive price and innovative value-added solutions, Tuoren is dedicated to designing, developing and distributing safe, user-friendly and state-of-the-art medical devices to its customers.



ANESTHESIA CONSUMABLE
NO.1 IN CHINA





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Anesthesia ■

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Museum of Medical Sciences In collaboration with Chinese Society of Anesthesiology (CSA), Tuoren invests 50 million yuan to build the Museum of Medical Sciences, which covers an area of 6,000m² and has Anesthesia Museum of China, Nursing History Museum of China, Healthcare History Museum of China, Medical History Museum, Enterprise Cultural Museum and Comprehensive Hall inside. The Museum of Medical Sciences was opened to public in 2015, and is equipped with multi-functional meeting rooms which can accommodate different amount of persons and undertake different forms of exchange activities such as academic exchange, business forum, society and magazine conferences, and inspiring education.

A_nesthesia



■ Endobronchial Tube



Normal



Connector Fixed

■ Features

- >> High volume and low pressure cuff that can reduce the injuries for trachea and bronchus.
- >> With multifunctional connector and convenient to operate.

■ Accessories



Valve



S-cuff on right



Connector fixed



Left cuff



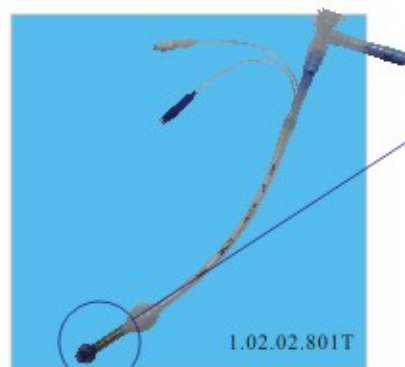
Double cuff



Connector

■ Specification

Type of valve	Type	Left	Right	
			S-cuff	Double cuff
one-way valve	Normal	26# 28# 31# 32# 33# 35# 37# 39# 41#	35# 37# 39# 41#	26# 28# 31# 32# 33# 35# 37# 39# 41#
	Connector fixed	35# 37# 39# 41#	35# 37# 39# 41#	35# 37# 39# 41#



SiliconType



■ Features

- >> Silicone instead of PVC, biocompatibility is better.
- >> Tube body is soft, reduce the trauma for patients.

■ Specification

35# 37#

■ Endotracheal Tube



ET Tube



Nasal



Oral

■ Features

- >> Available with cuff and without cuff.
- >> Made of medical grade transparent therm-sensitive PVC.
- >> Cuffed tube with high volume low pressure cuff.

■ Specification

Type	Size
ET Tube	2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0# 9.5# 10.0#
Nasal ET Tube	2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0# 9.5# 10.0#
Oral ET Tube	2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0# 9.5# 10.0#

■ ET Tube With Suction Lumen



■ Features

- >> This product can do continuous suction of subglottic secretions, reducing the effect of exogenous infection and incidence of VAP.
- >> It can be suctioning and connecting breathing circuit at the same time.

■ Specification

6.0# 6.5# 7# 7.5# 8.5#

■ Injectable ET tube



Injecting

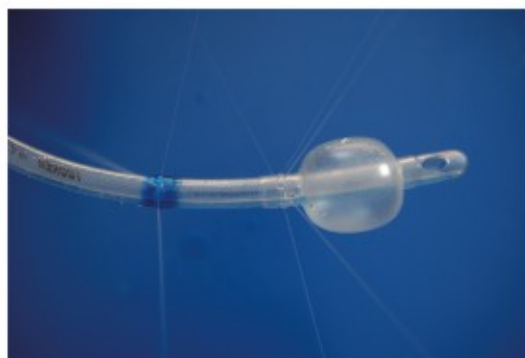
■ Features

- >> Made of medical grade PVC and latex free.
- >> With injection port.
- >> Package: 10pcs/box 100pcs/ctn, and could be customized.

■ Specification

6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0#

■ Supraglottic and subglottic injectable ET tube



Injecting

■ Features

- >> There are two injectable device on supraglottic area and subglottic area, every device has four holes for spraying, inject different drugs to reduce adverse reaction for patients.
- >> Unique designed injectable device, make the drug in the shape of mist to spray on the respiratory mucosa through the holes, make the drug distribution wide, safe and effective.

■ Specification

6.0# 6.5# 7.0# 7.5# 8.0#

■ Reinforced ET Tube



Reinforced



Nasal



Oral

■ Specification

Type	Size
Reinforced ET Tube	2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0# 9.5# 10.0#
Nasal Reinforced ET Tube	2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0# 9.5# 10.0#
Oral Reinforced ET Tube	2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0# 9.5# 10.0#

■ Tracheotomy Tube



Normal



Double-cuff

■ Features

- >> Formed in $100 \pm 10^\circ\text{C}$.
- >> Radiopaque line throughout the tube.
- >> Made of transparent, nontoxic PVC and latex free.
- >> Available with cuff (high volume low pressure) and without cuff.

■ Specification

2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5# 9.0# 9.5# 10.0#

■ Features

- >> Low pressure, high-volume cuff.
- >> Elongated tube is used for specific patient's case.
- >> Made of medical grade PVC.

■ Specification

7.0# 7.5# 8.0#



1.02.03.404T

Percutaneous Dilation



1.02.03.301T

Reinforced

■ Features

- >> Rescue critically patient.
- >> Assist ventilation to help the critically patient.
- >> Made of medical grade PVC.
- >> It can insert endotracheal tube.

■ Specification

7.0# 7.5# 8.0#

■ Features

- >> Made of medical grade PVC, high volume low pressure.
- >> Rounded and smooth tip of the obturator minimizes tissue injury during intubation.
- >> Tube with spiral reinforced wire reducing risk of kinking.

■ Specification

2.5# 3.0# 3.5# 4.0# 4.5# 5.0# 5.5# 6.0# 6.5# 7.0# 7.5# 8.0# 8.5#
9.0# 9.5# 10.0#

■ Laryngeal Mask Airway



1.07.01.201T

Normal



1.07.03.101T

Reinforced

■ Features

- >> Dose not require laryngoscope and relaxants
- >> All silicone body except the connector and air valve
- >> Transparent tubing, easy to identify the correct position.

■ Specifications

1.0# 1.5# 2.0# 2.5# 3.0# 4.0# 5.0#

■ Features

- >> It is elastic, and can be arbitrary bent with no damage.
- >> It will not affect the visual during the operation.

■ Specification

1.0# 1.5# 2.0# 2.5# 3.0# 4.0# 5.0#

■ Anesthesia Mask



ERGO



■ Features

- >> Contoured cushion creates a gentle seal with the patient's face.
- >> More conducive for staff to use one hand operate.
- >> Clear, soft, medical-grade material.

■ Specification

3# 4# 5#



Inflatable Type

■ Features

- >> Maintain anesthesia and ventilation in the operation.
- >> Single-used and avoid cross infection.
- >> It mainly used for induction before clinical anesthesia.

■ Specification

0# 1# 2# 3# 4# 5#



Endoscope Mask

■ Features

- >> Used in painless gastroscopy..
- >> Intubation and ventilation can be operated and reduce the operation time .
- >> Extend joint can connect oxygen plant.
- >> Various specificatin fiberscope apertures are convenient for work-up and treatment.

■ Specification

Type	Diameter
3#	3mm,5mm,10mm,12mm
4#	3mm,5mm,10mm,12mm
5#	3mm,5mm,10mm,12mm

■ Silicone Mask



Whole Silicone

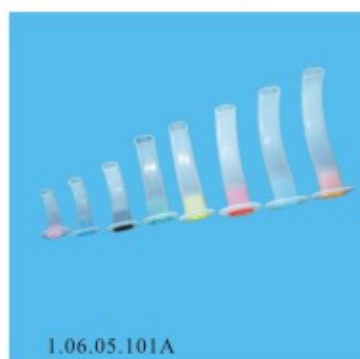


Bending Edge Model



Detachable Model

■ Guedel Airway



■ Features

- >> Use whole silicone material, and silicone seal edge makes mask best fit the face.
- >> Round design is suitable for infants, children.
- >> High transparency is convenient to observe patients.

■ Specification

0# 1# 2#

■ Features

- >> Used in emergency without gassing.
- >> The high-quality silicone used is anti-aging, allergy, easy to clean and disinfect.
- >> Whole silicone mask is soft.

■ Specification

3# 4# 5#

■ Features

- >> It is convenient to clean and disinfect that air bag and shell can be separate.
- >> Silicone material can ensure the tightness and comfort.
- >> Mask can be reusable.

■ Specification

3# 4# 5#

■ Features

- >> Color-coded for size identification.
- >> To facilitate suctioning from the airway.
- >> To prevent the tongue blocking the upper airway.

■ Specification

Type	Size
Guedel Airway	000# 00# 0# 1# 2# 3# 4# 5# 6#

■ Breathing Circuit



Reinforced



Normal

■ Features

- >> Use medical polymer materials, transparent, soft, and spiral hooping structure makes it not easy to kink.
- >> Tube body inwall is smooth that reduces the vent gas resistance, and the noise is small that makes patients more safe.
- >> Use standard 1:40 soft connector, and it is secure connection and reliable sealing.

■ Specification

Type	Length	Remark
Adult	1.5m, 1.6m	According to client requirements, you can choose or only buy 40, 80, 120cm single tube, or mask, bag, artificial nose, dust filter and various connectors.
Child	1.2m, 1.5m	



With Bag



Without Bag

■ Features

- >> Use medical polymer materials, transparent, soft, and spiral hooping structure makes it not easy to kink.
- >> Tube body inwall is smooth that reduces the vent gas resistance, and the noise is small that makes patients more safe.
- >> Use standard 1:40 soft connector, and it is secure connection and reliable.

■ Specification

Type	Length	Remark
Adult	1.2m, 1.6m	According to client requirements, you can choose or only buy 40, 80, 120cm single tube, or mask, bag, artificial nose, dust filter and various connectors.
Child	1.2m, 1.5m	



1.06.01.306A

Extension

■ Features

- >> Use special materials, and the tube body can be arbitrary extension and adjust the length, which makes it convenient and more benefit at the doctor's operation.
- >> Used standard 1:40 soft connector, and it is secure connection and reliable sealing.

■ Specification

Type	Length	Remark
Adult	1.8m	According to client requirements, you can choose or only buy 40, 80, 120cm single tube, or mask, bag, artificial nose, dust filter and various connectors.
Child	1.2m, 1.5m	



1.06.01.553AC

With Bag



1.06.01.553AN

Without Bag

■ Features

- >> Use PE material, tube body is soft, transparent and not easy to kink.
- >> Use standard 1:40 soft connector, and it is secure connecting and reliable sealing.

■ Specification

Type	Length	Remark
Adult	1.2m, 1.6m	According to client requirements, you can choose or only buy 40, 80, 120cm single tube, or mask, bag, artificial nose, dust filter and various connectors.
Child	1.2m, 1.5m	

■ Accessories (options)



HME



Filter



Water cup



Bag



Mask



Connecting hose



HME

■ Infusion Pump



Multi-RatesCBI+PCA



Multi CBI



CBI+PCA

■ Features

>> Easy to operate

The doctors may prescribe the dosage and choice the proper model of the infusion pump for different patients. When using the pump, besides the background continuous infusion, the patients can press the button of PCA (Patients Controlled Analgesia) set to administer their own pain relief when they are having pain.

>> More options

The disposable infusion pump can provide as much as injections for several days, ranging from 0.5ml/hr to 12ml/hr. It can be used for intravenous (IV) injection or epidural injection.

>> More reliable and precise

The Disposable Infusion Pump contains a silicone rubber reservoir, together with plasticized PVC tubing, ABS tubing connector. The fluid path is latex free.

Type	Volume	Flow Rate	Lockout Time	Bolus Volume
Multi-rates CP Pump	60ml, 100ml, 150ml, 200ml, 275ml, 300ml	2,3,4,5ml/h 2,4,6,8ml/h 4,6,8,10ml/h 6,8,10,12ml/h	10min/15min	0.5ml
Multi-rates CBI Pump	60ml, 100ml, 150ml, 200ml, 275ml, 300ml	2,3,4,5ml/h 2,4,6,8ml/h 4,6,8,10ml/h 6,8,10,12ml/h		
CP Pump	60ml, 100ml, 150ml, 200ml, 275ml, 300ml	2ml/h, 3ml/h 4ml/h, 5ml/h	10min/15min	0.5ml
CBI Pump	60ml, 100ml, 150ml, 200ml, 275ml, 300ml	0.5ml/h, 1ml/h 2ml/h, 3ml/h 4ml/h, 5ml/h, 6ml/h		

■ Package

60ml/100ml: 10pcs/box 100pcs/ctn
150ml/200ml/275ml/300ml: 5pcs/box 50pcs/ctn

Electronic Infusion Pump



1. 03. 04. 2011



Features

- >> Unique door-free structure and big LCD screen, making it easier and more convenient to operate and in the mean while avoiding problems of pump stuck and fluid leakage.
- >> The infrared sensor shall give alarm signal when detecting excessive air pressure.
- >> Application of double CPU, making the infusion process safer and more reliable.
- >> Alarm signals are given in case of malfunction or operation error and the machine stops operation automatically.

Specification

Standard Capacity	100ml, 150ml, 200ml, 250ml, 275ml, 350ml
Continuous dosing	0.5ml/h, 1ml/h, 1.5ml/h, 2ml/h, 2.5ml/h, 3ml/h, 3.5ml/h, 4ml/h, 4.5ml/h, 5ml/h, 6ml/h, 7ml/h, 8ml/h, 9ml/h, 9.9ml/h
Additional Maximum Dose	0.5ml, 1ml, 1.5ml, 2ml, 2.5ml, 3ml, 3.5ml, 4ml, 4.5ml, 5ml, 5.5ml, 6ml, 7ml, 8ml, 9ml, 9.9ml
Time-locked Interval	5min, 8min, 10min, 12min, 15min, 18min, 20min, 25min, 30min, 45min, 60min, 90min
100ml, 150ml, 200ml 250ml, 275ml, 350ml	0.5ml/h, 1ml/h, 1.5ml/h, 2ml/h, 2.5ml/h 3ml/h, 3.5ml/h, 4ml/h, 4.5ml/h, 5ml/h 6ml/h, 7ml/h, 8ml/h, 9ml/h, 9.9ml/h
100ml, 150ml, 200ml 250ml, 275ml, 350ml	
100ml, 150ml	

Infusion Extension Tube



1.04.03.2011

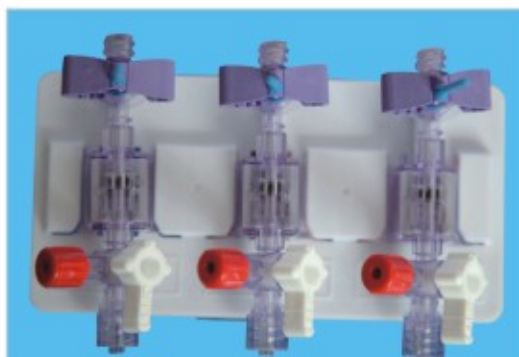
Features

- >> Good flexibility: The length of tube can be made as customer's request.
- >> Less remain: Reduce drug residues.
- >> High safety: No drug leakage, deformation, discoloration and other bad phenomenon

Specification

Disposable Infusion Extension Tube		Length (cm)	ID (mm)	OD (mm)	Allowable biggest pressure
Normal Type	Female and Male Connector(F-M)	10,15,25,30, 35,50,60,75, 80,90,100, 120,125,150	2.2	3.0	150pa
Pressure Type	Female and Female Connector(F-F)				300pa
Micro Flow Type	Male and Male Connector(M-M)	180,210,250	1.3	2.0	300pa

■ Pressure Transducer



A Type



C Type



E Type



B Type



D Type



F Type

■ Features

- >> Using the pressure chip imported from the United States. Data is accurate, good thermal stability.
- >> Diversification of connector, can connect any brand pressure transducer.

■ Specification

TR-DP1-248 TR-DP2-248 TR-DP3-248

■ Heat-Moisture Exchanger (Artificial nose)

■ Features

- >> Temperature output: 30°C (at 500ml TV)
- >> Resistance \leq 0.2KPa (at 30L/min)
- >> Light, easy for using, extend pipe enclosed
- >> With variable DSV (DSV is short for dead space volume)



Specification	Filter	Tidal Volume	Airflow resistance	Connector
Adult	99.9999%	Vt150-1000mm	60Lmin:3.0cmH2O	22F/15M
				22M/15F
Child		Vt50-600mm	30L/min:1.6cmH2O	15F-22F/15F
Infant		Vt15-50mm	11L/min:1.0cmH2O	15M-15F/8.5F
Tracheotomy		Vt250-1500mm	30L/min:0.25cmH2O	15M



Adult



Child



Infant



Tracheotomy

■ Central Venous Catheter Kit



Normal Type



Mini Type

Items	Specification for normal type	Qtn.
CVC	1-20Ga-13 1-18Ga-20 1-16Ga-20 1-14Ga-20 2-5Fr-13 3-3.5Fr-13 2-7Fr-20 3-7Fr-20	One
Guide wire	0.021*60cm 0.021*60cm 0.032*60cm 0.032*60cm 0.021*60cm 0.021*60cm 0.032*60cm 0.032*60cm	One
Dliater	4Fr*5cm 5.5Fr*6cm 6Fr*10cm Fr*10cm 6Fr*7cm 6.5Fr*10cm 8Fr*10cm 8Fr*10cm	One
Introducer needle	20G 20G 18G 18G 20G 20G 18G 18G	One
Butterfly clip	20G 18G 16G 16G 16G 16G 7Fr 7Fr	One
Plastic syringe	5ml/blue syringe	Two
Syringe needle	7#	One
Thumb scalpel	Common	One
Heparin paste	Common	/
Dressing paste	5*7cm	Two
Suture needle	straight/curving	One
Small nonwoven sheet	50cm*50cm	One
Fenestrated cover	60*60*10cm	One
Middle nonwoven sheet	60*70cm	One
Liquid medicine cap	Common	Three
Sponge brush	Common	Three
Gloves	7.0# 7.5#	Two
Post operation film	9*13cm	One
Gauze	8*10cm	Three

Anesthesia Kit



AS-E/S



AS-E



AS-S

Specification			
Accessories	AS-E/S	AS-E	AS-S
Epidural needle	16G/18G 80mm/90mm	One	
Spinal needle	25G/27G 113/123mm(pencilpoint)		20G/22G/25G
Epidural catheter	Pull-resistance length>90cm	One	
Epidural catheter adapter	One	One	
Liquid medicine filter	(blue)5u	One	One
Air filter	(yellow)0.5u	One	
LOR syringe	One glass 5ml	One	One
Plastic syringe	Two(3ml and 20ml)	One 20ml	One 5ml
Negative pressure tube	One	One	
Fenestrated sheet	60cm*60cm hole 10cm	One	One
Small Nonwoven sheet	One 50cm*50cm	One	One
Big nonwoven sheet	One 70cm*95cm	One	One
Catheter adhesive slice	One	One	
Adhesive traps	One 5cm*40cm Two 1.25*10cm	One	
Compresses	Two 8layers 8cm*10cm One 5*6 with cut	One	One
Sponge brush	Three (curving/straight)	One	One
Surgical latex gloves	One pair 7.5/7.0/6.0	One	One
Syringe needle	One OD 0.5mm L20 One OD 0.7mm L32 Two OD 1.6mm L38	One	One

Anesthesia Needle



Specification		Type	Edge shape	OD(mm)	Length	Color code
AN-S	Type I	25G	Cant	0.5	90mm	Orange
		22G	Cant	0.7	90mm	Black
		20G	Cant	0.9	90mm	Yellow
AN-E	Type II	25G	Pencil point	0.5	113mm	Orange
		18G	Round-smooth	1.2	80mm	Pink
		16G	Round-smooth	1.6	80mm	Cream
		15G	Round-smooth	1.8	80mm	Blue
		18G	Cant	1.2	80mm	Pink
		16G	Cant	1.6	80mm	Cream
		15G	Cant	1.8	80mm	Blue

Features

- >>> Medical stainless steel needle tube provides enough toughness and stiffness.
- >>> Special-designed needle point decreases the harm to patient's tissue and nerve during operation.
- >>> Transparent needle bed helps doctors to do clinical observation.
- >>> Each type of this anesthesia needle can be made according to the clinical demands.

Analgesia Needle



Features

- >>> It can be made according to the clinical demands.
- >>> The needle processing by special craft can reduce the damage of tissue.
- >>> The needle tube with scale and vernier is convenient to the operation.
- >>> There are three side port in the needle tube that can be used in the ozone treatment.

Type	Edge	OD(mm)	Length	Color code	Remark
5#	Cant/Round-smooth/Pencil-point	0.5	500-100	Orange	/
7#	Cant/Round-smooth/Pencil-point	0.7	500-200	Black	With scale and vernier
9#	Cant/Round-smooth/Pencil-point	0.9	500-200	Yellow	With scale and vernier
12#	Cant/Round-smooth	1.2	500-200	Pink	With scale and vernier
16#	Cant/Round-smooth	1.6	500-200	Cream	/
18#	Cant/Round-smooth	1.8	500-200	Blue	/

■ Analgesia Kit



1.01.12.101T

Pain Treatment
Operation Kit

■ Features

- >> The treatment of refractory chronic pain and malignant pain need large dose of drug. So there are two types of catheter 1.0mm and 1.3mm in the package.
- >> Pain treatment tube made by medical grade materials. It can be made according to the clinical demands.
- >> The punching can be chosen different part according to the demand of treatment.



Pain Treatment
Outpatient Kit

■ Features

- >> The configuration is complete. It's convenient to treat different parts of the pain.
- >> Each type of this analgesia needle can be made according to clinical demands.
- >> There are different types of analgesia needle in the package. So it avoid cross infections
- >> The needle tube with scale and vernier which convenient to the operation.
- >> It used dialysis paper medical packaging materials. Ensure the safety of medical staff and patients.

■ Specification

Type	OD(mm)	Length (mm)	Edge shape	Color code	Remark
Pain treatment needle: #7	0.7	90	Cant	Black	With scale and vernier
Pain Treatment needle: #9	0.9	90	Cant	Yellow	With scale and vernier

■ Nerve Block Anesthesia Kit



1.01.08.101T

■ Features

- >> The configuration is complete. It's convenient to treat different parts of pain.
- >> The needle tube made by medical stainless steel. There is small puncture resistance in the needle which processing by special craft. The needle tube with scale and vernier which convenient to the operation.
- >> It used dialysis paper medical packaging materials. Ensure the safety of medical staff and patients.

■ Specification

Type	OD(mm)	Length (mm)	Edge shape	Color code	Remark
Lumbar puncture needle: 7#	0.7	90	cant	Black	With scale and vernier
Lumbar puncture needle: 9#	0.9	90	cant	Yellow	With scale and vernier

■ Endotracheal Intubation Kit



1.01.03.001T

Normal



Reinforced

■ Features

- >> Available in a wide range of standard configurations.
- >> Readily customizable to many configurations to meet your needs.
- >> Wide range of components available.

■ Size

Normal:	2.0#, 2.5#, 3.0#, 3.5#, 4.0#, 4.5#, 5.0#, 5.5#, 6.0#, 6.5#, 7.0#, 7.5# 8.0#, 9.0#, 10.0#
Reinforced:	2.0#, 2.5#, 3.0#, 3.5#, 4.0#, 4.5#, 5.0#, 5.5#, 6.0#, 6.5#, 7.0#, 7.5# 8.0#, 9.0#, 10.0#

■ Specifications

Accessories	Specification	Number
ET Tube	2.0#-10.0#	One
Bite Block(I)	Small(2.5-4.5) Medium (5.0-6.5) Large (7.0-9.5)	One
Suction catheter	6Fr and 10Fr(2.5-4.5) 10Fr and 12Fr(5.0-7.0) 12Fr and 16Fr(7.5-9.5)	Two
Bite Block(II)	With lingua	One
Suction tubing	1.7m	One
Syringe	10ml	One
Compress	8 layers 7cm*8cm	Two
Surgical glove	7.0 or 7.5	One pair
Cover	60cm*80cm	One
Oropharyngeal airway	2#(2.5-5.0) 3#(5.5-6.5) 5#(7.0-9.5)	One
Stylet	35cm(5.0-6.0) 38cm(6.5-7.0) 40cm (7.5-9.5)	One

■ Video Laryngoscope



■ Product Specifications Detachable LED Monitor

- >> Size 3 inch
- >> Video Aspect Ratio: 4:3
- >> Video Refresh Rate: 30 Frames P/S
- >> Resolution: 960*480
- >> Video Format: PAL/NTSC
- >> Illumination :<350 lux

■ Reusable Video Laryngoscope Handle

- >> Rechargeable Li-battery:3.7V DC 2000mA
- >> Battery Capacity:240 Minutes of Continuous Operation upon Fully Charging
- >> Pixel:640*480
- >> Depth of Field :50mm-500mm
- >> Camera Chip: CMOS
- >> Light Source :White LED

■ Disposable Blade

Blade	Length	Width	Application
Mac2	113mm	24mm	Females and Children Regular Airway
Mac3	125mm	26mm	Males, Regular Airway
Mac4	140mm	26mm	Obese Patients, Regular Airway

■ Compatible

- >> The reusable laryngoscope handle is fully compatible with 3 sizes of disposable blades:Mac2/Mac3/Mac4
- >> The LED display is detachable and compatible with all modes of video laryngoscope by TuoRen.
- >> Light & self-contained, TuoRen's Video Laryngoscope is perfectly portable for various clinical settings including OR,ER,ICU and ambulance

■ Flexible

- >> Detachable 3" LED Monitor
- >> Flexible Video Laryngoscope System Configurations
Video Laryngoscope Handle+Radio Transmitter+8"LED Monitor
- >> Wireless Video Laryngoscope System Video Laryngoscope Handle + TV Cable +32" Monitor

■ Reliable

- >> Rigid Alluminium Alloy Frame holding up to 500 Newtons.
- >> 2000 mA Rechargeable Li-battery Powering 240 minutes of Continuous operation upon being fully charged.
- >> 16G TF Card
- >> Water Resistant design of Video Laryngoscope Handle
- >> Break-Resistant Blades

■ Laryngoscope



1.09.01.101T

Removable Fiber
Optic Laryngoscope



Removable Fiber Optic Tube

■ Features

- >> The removable fiber optic tube product by TuoRen is easy to clean and disinfect. It can reduce the possibility of cross infection.
- >> Laryngoscope made by 304 medical grade stainless steel and no coating on the surface.
- >> There are all kinds of different style laryngoscope handle which can satisfy the different needs of fiber optic lighting. The hernia bulb is on the handle so that there is no risk of burns.
- >> The brightness of the hernia bulb and the whiteness of light spot is 100% higher than the ordinary halogen bulbs.
- >> Don't need to remove the lamp when disinfecting the lens.

■ Type

- >> Adult fiber optic laryngoscope (1+3)
- >> Child fiber optic laryngoscope (1+3)



1.09.01.302T

Difficult Intubation Fiber Optic
Laryngoscope

■ Features

- >> The unique hook design can help anesthesia doctors to solve all kinds of difficult intubation. The hook designed laryngoscope using fiber optic device, advanced design and more convenient.
- >> The cold light brightness of hernia bulbs increased by 40% than ordinary bulb.
- >> Cold light blade is made of medical stainless steel, the handle connected with the gold plated electrode, connection is good, long use life, high performance.
- >> The handle strictly designed according to seal and waterproof technology standard, with No.2 Alkaline battery is suitable for various of blades.

■ Type

Adult 1+1

The Laryngoscope Blade

Adult 4



Adult 3



Adult 2



Child 1



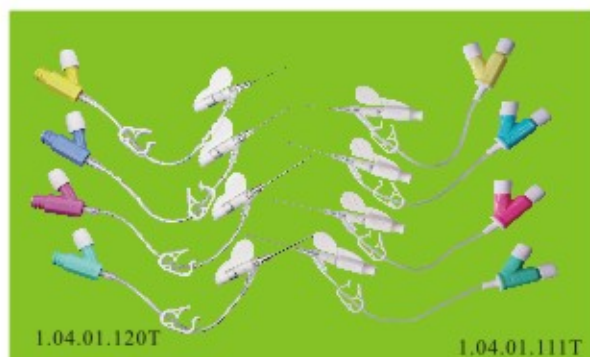
Child 0



Nursing



I. V. Cannula



Y I Type

Y II Type

Features of Y I Type

- >> Infusion with multi-way.
- >> There is a puncture end cap in the side branch.

Type

16G 17G 18G 20G 22G 24G

Features of Y II Type

- >> Reduce the medical treatment risk.
- >> Reduce the incidence of phlebitis.

Type

16G 17G 18G 20G 22G 24G



Injection Port Type

Features

- >> Integrated enclosed design to prevent cross-infection of blood effectively
- >> Color-coded easing cap allows for easier identification of cannula size.
- >> Good biocompatibility
- >> Advanced tip design, with double-bevelling to ensure easy vein puncture with minimum trauma.

Type

16G 17G 18G 20G 22G 24G



Disposable anti-reflux type

Features

- >> To avoid contamination of the outflow of blood when puncturing.
- >> Anti-reflux device automatically shut down to prevent air enter.
- >> To avoid blood outflow when the infusion access get loss.
- >> To avoid the side-effects of drugs.

Type

16G 17G 18G 20G 22G 24G



Butterfly Type

Features

- >> Reduce the incidence of phlebitis.
- >> The medical damage and injury can be prevented effectively.
- >> To avoid the spread of blood-borne disease.
- >> No need to oppression hemostasis.
- >> To reduce the workload of the staff.

Type

16G 17G 18G 20G 22G 24G



High Pressure Resistance Type

■ Features

- >> To prevent leakage of tube.
- >> To protect the safety of patients.
- >> To meet the requirements of high pressure injection.
- >> Can achieve 300 psi.

■ Type

16G 17G 18G 20G 22G 24G



Avoid Light Type

■ Features

- >> Appeal to ultraviolet light, to ensure drug curative effect into full play.

■ Scope of application

- >> Suitable for drug infusion which need to avoid light.

■ Bite Block



■ Features

- >> Guards patients' teeth and gums from trauma.
- >> Assist in the oropharynx suction.
- >> Assist in the oropharynx and stomach tubes insertion.

■ Scope of application

Adult Child Infant

■ Oxygen Mask



1.08.02.101A

Oxygen Mask

■ Features

- >> Made of medical grade PVC.
- >> Adjustable nose clip.
- >> Flexible plastic mask with elastic head strap.

■ Specification

Adult Child Infant



1.08.02.401A

Nebulizer Mask

■ Features

- >> Universal connector is available.
- >> DEHP free PVC is for being chosen.
- >> For medical administration during surgery.

■ Specification

Adult Child Infant



1.08.02.401A

Inflatable Mask Model



1.08.02.301A

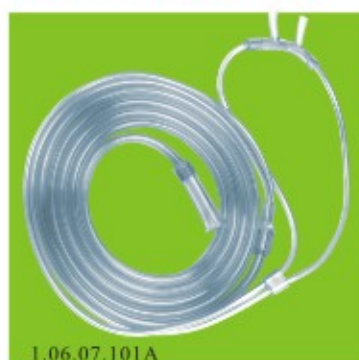
Non rebreathing oxygen mask



1.08.02.501A

Adjustable Concentration

■ Nasal Oxygen Tube



1.06.07.101A

■ Features

- >> Comfortable silicone air port.
- >> Six arrises inner-wall insure safe oxygen transportation.

■ Specification

		ID	OD
Single-eye	Adult	Main Tube 3.8 ± 0.18	Main Tube 5.0 ± 0.18
	Child		
	Infant		
Double-eyes	Adult	Branch Tube 2.4 ± 0.18	Branch Tube 3.2 ± 0.18
	Child		
	Infant		

■ Manual Resuscitator



1.11.02.101A

■ Features

- >> DEHP free
- >> Easy to use, save effort, protect the rescuer.
- >> Supplying oxygen regularly and continuously.
- >> Preventing hypoxemia and improve oxygen transport.
- >> Maintaining alveolar ventilation

■ Specification

Type	Size
PVC Silicone	Adult Child Infant

■ Suction Catheter



1. 06. 06. 101A

■ Features

- >> Soft and kink resistant PVC tubing.
- >> Color-coded connector for easy identification of size.
- >> Extra smooth low friction surface tubing facilitates easy intubation.
- >> An option of transparent or frosted tubing.

■ Specification

Fr6 Fr8 Fr10 Fr12 Fr14 Fr16 Fr18



1. 06. 06. 301A

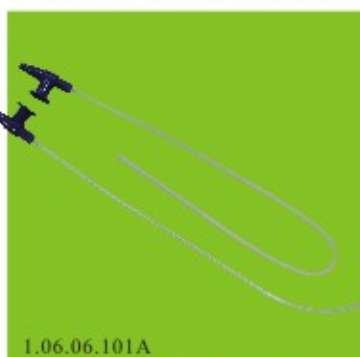
Closed Suction Catheter

■ Features

- >> Made from medical materials, non-toxic, non-irritant.
- >> Close system can reduce respiratory tract diseases for patients and prevent medical staff from getting cross-contamination.
- >> Unique design do not injury mucosa.
- >> Color-coded for size identification.

■ Specification

6Fr 8Fr 10Fr 12Fr 14Fr 16Fr



1.06.06.101A

Patented Product

■ Features

- >> Appropriate degree of hardness: easily to control the direction.
- >> With bend: there is a bend in front of tube 65mm.
- >> Effective length: 320mm

■ Specification

Fr6 Fr8 Fr10 Fr12 Fr14 Fr16

■ Negative pressure liquid drainage device



1.05.05.103A

Four barrels



1.05.05.203A

Four barrels
for arc-shaped



1.05.05.212A

Double barrels
for arc-shaped



1.05.05.201A

Single barrels
for arc-shaped

■ Features

- >> The suction kits and trolleys enable to group on a mobile holder, the various products making up a suction set (suction devices, collection jars, catheter holder, suction liner bag)
- >> It is safe and non-toxic, meeting the environmental protection requirements.
- >> Accurate scale and convenient to observe.

■ Specification

4000ml 6000ml 8000ml

■ Suction Drainage Bag



1.05.01

■ Features

- >> We can put anti-reflux, 84 disinfectant etc. on the bag according the customer's request.
- >> The function of anti-reflux can prevent the liquid from flowing back.

■ Specification

1000ml 1500ml 2000ml 3000ml



1.05.01.104A

I



1.05.01.105A

II 2000ML



1.05.01.221A

III 1500ML



1.05.01.106A

III 2000ML



1.05.01.101A

III 3000ML

■ Suction Connecting Tube



I connector



II connector

■ Features

- >> Made from nontoxic PVC, medical grade.
- >> Anti-kinking tube to avoid blocking under high pressure.
- >> Suitable for pre-operative removal of secretion and body fluids.

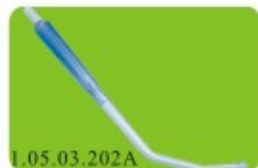
■ Specification

Length: 170cm The length can be changed by customer's request.

■ Suction Handle



Straight Handle



Yankauer Handle



Reducer Handle

■ Features

- >> Suitable for pre-operative removal of secretion and body fluids.
- >> Yankauer Handle is open end with 4 lateral eyes to withstand negative pressure and ensures continuous and easy suction of fluid.
- >> Cut to fit funnel connector to suit different suction pump lines at proximal end. Also available with Kapton and Conical connector at proximal end.
- >> Soft and kink resistant ribbed PVC tubing.
- >> Yankauer Handle available in Standard or Crown Tip with or without vacuum thumb control.
- >> Also available with DEHP free Tube.
- >> Sterile product for single use.

■ Foley Catheter Kit



■ Features

- >> It has a neater appearance and very convenient.
- >> It can be customized according to user requirements.
- >> Sterile ,effective and convenient.

■ Specification

8Fr 10Fr 12Fr 14Fr 16Fr 18Fr 20Fr 22Fr

Vacuum blood collection tube



Product classification	Appropriate product	Additive	Application	Color identification
Tube without anticoagulant function	Plain tube		Test immunology and biochemistry project	Red
	Pro-coagulation tube	Coagulant	Test emergency biochemical project	Orange
	Gel&clot activator tube	Gel&activator	Test emergency biochemical project	Yellow
Anticoagulative tube	Hepar in tube	Heparin sodium, heparin lithium, heparin lithium/separation gel	Part of emergency biochemical project and research of blood rheology	Green
	Sodium citrate tube 1:9	Sodium citrate	Cruor examination	Blue
	Glucose tube	Heparin sodium/sodium fluoride EDTA/sodium fluoride	Blood glucose examination	Gray
	EDTA tube	EDTA.K2	Blood routine examination	Purple
	Sodium citrate tube 4:1	Sodium citrate	Test erythrocyte sedimentation rate	Black

Negative Pressure Blood Collection Needle



Features

- >> For disposable use, prevent cross infection.
- >> Ethylene oxide sterilization, non-toxic, no pyrogen.
- >> Made of stainless steel, ABS, and other polymer materials.

Specification

0.7*25mm

■ Orthopedic Polymer Bandage



1, 15, 01, 101T



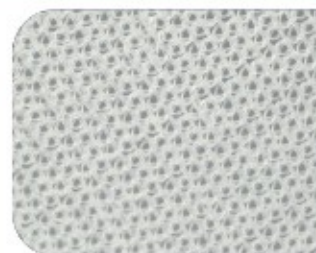
■ Features

- >> Through X-ray: Observe healing condition clearly and do not need to remove the bandage.
- >> Highly breathable: Materials with many small regular holes are light.
- >> Hard: It take five times hardness than plaster bandage.
- >> Light: The weight of polymer bandage is one fifth of the plaster bandage.
- >> Environment protecting: It is made of fiberglass and polyester materials. It can be burned completely and does not pollute the environment.
- >> Operate easily: No need heating equipment, prepare room-temperature water for 3-5 minutes then the operation has been finished, reduce the workload of doctors.
- >> Comfort and safety: No irritant smell
- >> Various specification: Suitable for different body parts and different ages.

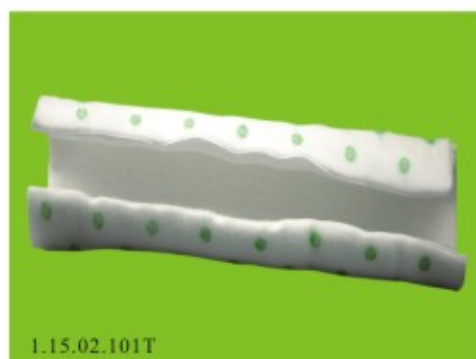


■ Specification

Specification (cm)	Packaging	Applicable parts
5×25	10pcs × 8box/ctn	Arm Pediatric
7.5×30	10pcs × 8box/ctn	Arm Pediatric
7.5×90	5pcs × 8box/ctn	Upper limb Lower limb
10×40	10pcs × 8box/ctn	Upper limb Lower limb
10×76	5pcs × 8box/ctn	Upper limb Lower limb
12.5×76	5pcs × 6box/ctn	Lower limb
12.5×115	5pcs × 6box/ctn	Lower limb
15×76	5pcs × 6box/ctn	Lower limb
15×115	5pcs × 6box/ctn	Lower limb



■ Orthopedic Polymer Splint



1,15,02,101T

■ Specification

Specification (cm)	Packaging
5×360	10pcs × 10box/ctn
7.5×360	10pcs × 10box/ctn
10×360	10pcs × 10box/ctn
12.5×360	10pcs × 10box/ctn
15×360	10pcs × 10box/ctn

■ Polysulfone Hemodialyzers



■ Specification

Effective surface area(m ²)	1.2	1.4	1.6	1.8
ID of membrane(um)	200			
UF Coefficient(ml/mmHg-h)	13	14	15	18
Blood compartment volume(ml)	90	102	113	125
Clearance(ml/min)	Test condition	QB=200ml/min QD=500ml/min		
	Urea(ml/min)	182	185	187
	Creatinine(ml/min)	165	168	171
	Phosphate(ml/min)	115	128	133
	Vitamin B12(ml/min)	60	68	75
Max.TMP(Kpa/mmHg)	66.5/500			

■ Features

- >>Good permeability, the lowest lose of protein.
- >>High quality polysulfone/polyether sulfone membrane materials.
- >>Excellent biocompatibility, perfect anticoagulant function.
- >>Good removal ability of small molecule toxins.
- >>Light and easy to operate.
- >>The separation of deep layer, accurate screening curve of molecule.
- >>Safety electron beam sterilization method, excellent properties of dialysis.

■ Specification

TR-1.2H TR-1.4H TR-1.6H TR-1.8H TR-2.0H



Hemodialysis Catheter Kit



1.14.01

Features

- >> Soft Tip
Reduce trauma to vessel wall upon introduction and in-situ.
- >> Good biocompatibility
The tube under the body temperature will become more soft.
- >> Easy to be found under X-Ray
Sufficiently radiopaque materials ensures the correct placement of catheter.
- >> Optional straight and curved extensions
The curved extensions can make the patient more comfortable.
- >> Rotating suture wing
Provides secure external anchoring.
- >> Antimicrobial heparin cap
Specially-made adaptor helps to avoid infection.
- >> Multi-lumen available
Single, double, triple lumen for pediatric and adult.

Scope of application



Hemodialysis Catheter

Type	Length (cm)	Dilater	Guide wire	Introducer needle
Single 8Fr	13	3.00	0.38-45	18G
	15	3.00	0.38-45	18G
	20	3.00	0.38-60	18G
	24	3.00	0.38-60	18G
Double lumen 8.5Fr	13	3.00	0.38-45	18G
	25	3.00	0.38-45	18G
	20	3.00	0.38-60	18G
	24	3.00	0.38-60	18G
Double lumen 11.5Fr	13	3.30/3.80	0.38-45	18G
	15	3.30/3.80	0.38-45	18G
	20	3.30/3.80	0.38-60	18G
	24	3.30/3.80	0.38-60	18G
Double lumen 12Fr	13	3.30/4.00	0.38-45	18G
	15	3.30/4.00	0.38-45	18G
	20	3.30/4.00	0.38-60	18G
	24	3.30/4.00	0.38-60	18G
Triple lumen 12Fr	13	3.30/4.00	0.38-45	18G
	15	3.30/4.00	0.38-45	18G
	20	3.30/4.00	0.38-60	18G
	24	3.30/4.00	0.38-60	18G

Dialysis powder



Features

Models components (mmol per L)	01	02	03
Na+	138.0	138.0	137.0
K+	2.0	2.0	2.0
Ca++	1.5	1.5	1.5
Mg++	0.75	0.75	0.75
CL-	109.5	107.5	110
HCO3	35	37	33
PH	7.1-7.8	7.1-7.8	7.1-7.8
Concentrate A+B+ware	1:1.225:32.775	1:1.83:34	1:1.85:34
Dialysate(L)	185	180	180

Specification

- TR-FA-I+TR-FB-I TR-FA-II+TR-FB-II
TR-FA-III+TR-FB-III TR-FA-IV+TR-FB-IV

■ Sterile Fistula Kit



■ Features

- >> Ultra with thin walled and sharp cannula to minimize trauma to the patient.
- >> Color-coded wrings for easy identification of size.
- >> Soft and kink resistant PVC tubing.
- >> Configuration is complete, convenient operation, safe and effective.

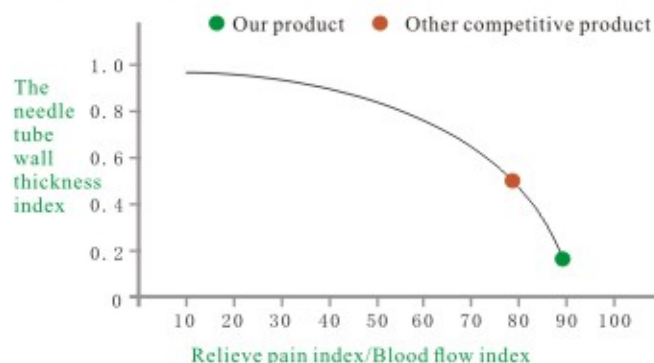
■ Scope of application

- >> Used to connect blood lines to the blood vessel through needle when dialysis is carried out via an internal fistula.

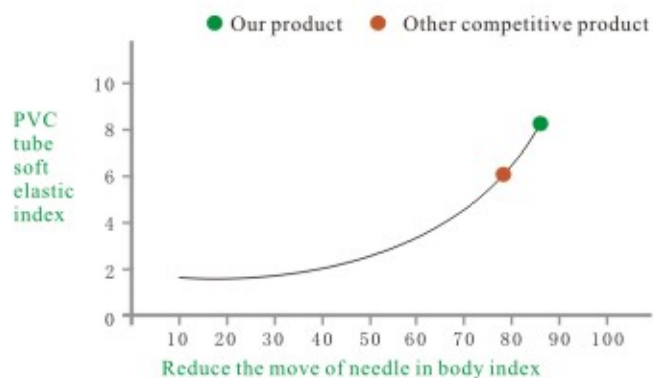
■ Type TRXL-17G TRXL-16G TRXL-15G TRXL-14G

■ Imported needle

- >> After the special craft processing, ultra thin walled and minimized trauma to the patient.



Imported Needle



Soft PVC Tubing

■ Blood Circulation Tube



■ Features

- >> Use extruder to produce, smooth wall, without damaging the patient's blood cells.
- >> Medical grade PVC has no stimulation to body, and flexible tube guarantee the blood circulate
- >> According to customers' requirements, we can produce what you need.

■ Specification

TR-XL-001 TR-XL-002 TR-XL-003 TR-XL-004 TR-XL-005 TR-XL-001
TR-XL-002 TR-XL-003 TR-XL-004 TR-XL-005

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ANESTHESIA CONSUMABLE

NO.1 IN CHINA



TUOREN MEDICAL

Add: Rm A 1802, Shifanghaoting, No.16 Xinyuannan Rd,
Chaoyang District, Beijing
Weiyuan Industrial Zone, Menggang, Changyuan,
Henan, China
Tel: 86-10-82074764 82074782
Fax: 86-10-82074787
Zip-code: 100027
E-mail: info@bjtuoren.com
Website: <http://www.tuoren.com>