



GeenTech  
International

# PRODUCTS CATALOG

GeenTech International is a Pakistan Based International company dealing in Assisted Reproductive Technologies. Being the exclusive distributors of the World's famous multinational companies of Assisted reproductive technologies, GeenTech International is committed to be the revolutionizing agent in Country's Animal reproduction Field.



[www.geentechintl.com](http://www.geentechintl.com)





Dr. Ahsan Ullah Awan  
CEO  
GeenTech International

# WELCOME

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GeenTech International, headquartered in Pakistan, holds a prominent position as a global player in the realm of Assisted Reproductive Technologies (ART). As the exclusive distributors of renowned multinational companies specializing in ART, our commitment is to spearhead a transformative revolution in the country's animal reproduction field. We proudly represent the following esteemed companies: Minitube Germany, Stroebech Denmark, MVE Chart USA, IVF BioScience UK, AXCE France, OHG Genetics Germany, and Rockyrepro Australia.

Our comprehensive range of offerings covers full semen lab equipment, embryo processing lab equipment, and IVF lab equipment. In addition to these, we provide essential tools such as AI guns, Semen Straws, Liquid Nitrogen Containers, and various other reproduction assistive tools. GeenTech International stands at the forefront of advancing technologies in assisted reproduction, ensuring that our clients have access to cutting-edge solutions from globally recognized industry leaders.



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## **Thank You**





# BOVINES

## **Assisted Reproductive Technologies In Bovines**

**All the necessary equipment  
and consumables for Semen  
and Embryo collection,  
analysis, processing, and  
artificial insemination in  
cattle**

[www.geentechintl.com](http://www.geentechintl.com)



## 1. SEMEN COLLECTION

### Bovine Artificial Vagina

- Artificial vagina casing with valve
- 20 cm
- 30 cm
- 35 cm
- 41 cm



### Latex inner liner

- Latex inner liner smooth, 650 mm
- Latex inner liner Rough, 650 mm
- Latex inner liner rough, 480 mm



### Disposable inner liner

- With integrated collection vial (15 ml) and lid, sterilized
- Conical form, open end
- Conical form, closed end



### Director cone

- latex
- silicone



### Warming bag

- 18 cm
- 35 cm
- 45 cm





## ReproJelly

- Non-spermicidal lubricant, water soluble
- 100ml & 3 litres



## Bovine collection dummy

- Mobile
- Stationary



## Collection vial

- Plastic
- Graduated
- With lid
- 15 ml



## Thermometer For AV

- Bimetal, non-breakable, up to +100°C
- Up to +100°C, graduation 0.1°C, red filling



## 2. SEMEN EVALUATION

### AndroScope, mobile semen analysis unit

#### Accessories Available

- Disposable counting chamber  
Minitube, 20  $\mu\text{m}$ , 4 chambers, 25/box
- Test tube 2 ml with cap, 250/bag
- Disposable capillary tube, 100/bag
- Micro fiber rod, length 124 mm,  
100/bag



<https://youtu.be/U2higqQPipU>

### AndroVision (CASA software with PC and monitor)

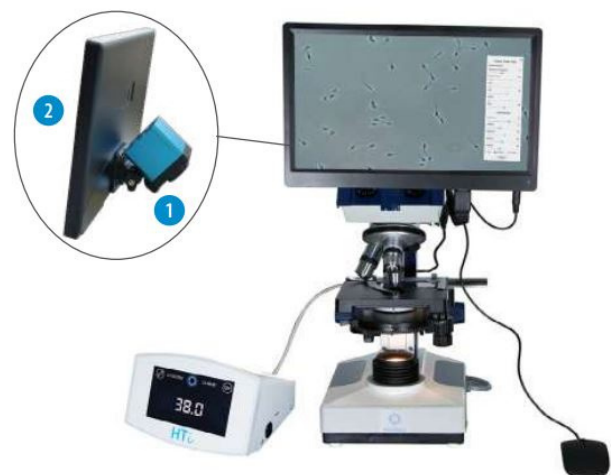
#### Accessories Available

- Phase contrast microscope Zeiss  
Axiolab 5
- ScanStage, automated microscope  
stage with integrated heating  
system Controller HTi 200
- Warming plate, 245 x 200 mm



### Phase contrast microscope MBL 2000

- Binocular, heated stage, HTi 50,  
objectives 10x, 40x, 100x
- With camera and monitor



## Photometer SDM 6

### Accessories Available

- Control cuvette set, 4 pieces
- Paper for printer
- Macrocuvette, 4 ml, 100/package
- NaCl solution, 0.9 %, 1 l
- Dispenser, 0.5-5 ml for NaCl solution
- Bottle for dispenser, 500 ml
- Adjustable single channel pipette,
- yellow, autoclavable, 10-100  $\mu$ l
- Pipette tip, 10-100  $\mu$ l, yellow, 1000/bag



## Photometer SDM 1

### Accessories Available

- Microcuvette for SDM 1, 100/box
- Multispecies software for reprogramming to other species



## Eosin G stain, 2% solution for live/dead cells

- Stains damaged or dead sperm cells red. Supravital sperm stain with Eosin.
- 50 ml



## Nigrosin stain, 4% solution for live/dead cells

- For supravital staining. Creates a dark background, which simplifies the evaluation. .
- 50 ml





# 3.SEMEN DILUTION

## Water bath

- Working temperature range: minimum 5°C above ambient up to +100°C (depending on ambient pressure)
- Intuitive 3.5“ color graphic display with touch screen
- Water bath, 51 l,



## Magnetic stirrer

- Heating capacity: 800 W
- Temperature range: +20 to +300°C
- Speed: up to 1400 revolutions per minute
- Maximum load: 20 l



## Triladyl

- Triladyl :250 g for a total of 1250 g of extender
- Triladyl CSS, One-step :200 g, for a total of 1000 g of extender
- Internationally established for over 50 years



## BoviFree

- BoviFree: 200 ml, for a total of 1000 ml of extender
- BoviFree CSS, One-step : 200 ml, for a total of 1000 ml of extender
- BoviFree CSS, Two-step: Fraction 1, 100 ml, for a total of 500 ml of extender



**Note: Full Range of Bovine Semen Extenders from Minitube are available Do Visit (<https://www.minitube.com/catalog/en/bovine/bovine-semen-dilution/>)**

## 4. STRAW PROCESSING AND FREEZING

### EcoStraw, 0.25 ml

- EcoStraws feature a wick with a shorter inner wick section that absorbs 3 to 4% fewer sperm than the corresponding symmetrical wick of standard semen straws.
- 2000/bag



### EcoStraw, 0.5 ml

- EcoStraws feature a wick with a shorter inner wick section that absorbs 3 to 4% fewer sperm than the corresponding symmetrical wick of standard semen straws.
- 2500/bag



### TMPP Quattro, automatic Filling and Sealing machine for semen straws

- Capacity: approx. 15000 straws/hour
- Exchangeable hopper with 2200 straw capacity for 0.25 ml and 1300 straw capacity for 0.5 ml
- Touch-screen monitor showing number of filled straws, machine status, and straw size
- Double ejaculate control through built-in, adjustable balance and sensor: allows automatic switch from 4 needle filling to 1 needle filling at the end of the ejaculate
- Ultrasound sealing unit
- Available also as Minitube CombiSystem with MiniJet printer



## EasyCoder, automatic printer

- Thermal transfer printer with automatic straw supply (output: up to 3600 straws per hour)
- Unparalleled precise and clear printing on 0.5 and 0.25 ml straws;
- Prints up to 3 lines per straw, including barcodes, logos, and special characters
- Control via PC by a clear and user-friendly Minitube software



## MultiCoder, printer for lab items

- Versatile: print system can label most kinds of materials such as plastics, glass, or aluminum
- allow for a speedy work process
- Easy printing of information on the smallest amount of space, including text, barcode, QR-Code, and logo



## Sealing ball, glass, for 0.5 ml straws

- 1000/package
- Glass Made
- For 0.5ml Straws

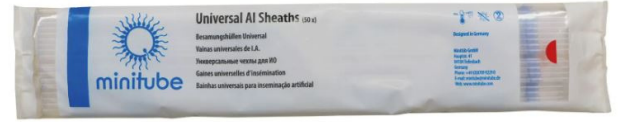




## 5. INSEMINATION AND DIAGNOSTICS

### Universal AI sheath, non-split

- Absolutely tight fit with all types of straws
- Gentle insemination due to a soft shape of the tip
- Bags with adhesive tape for easy resealing and reopening
- 50 sheaths Per Pack



### DIUI sheath for 0.25 ml straw

- Long, flexible sheath for insemination and embryo deposition deep inside the uterine horn.
- 10/bag



### QuickLock Classic, bovine AI Gun

- All-purpose gun for all types of straws and sheaths, split or non-split
- Easy sheath fixation and release by just pressing a knob
- Stainless steel and sterilizable parts
- Identification with different colored stylets



### QuickLock Ergo, bovine AI Gun

- Ideal for older cows due to greater usable length
- Easiest gun as far as cleaning is concerned
- No loose parts - safety catch prevents the plunger from sliding out
- Identification with different colored stylets



## QuickLock 2000, bovine AI Gun

- Ergonomic design
- Only 1 cm of the sheath length is required for fixation
- Stainless steel and sterilizable parts
- Identification with different colored stylets



## QuickLock Heater 4.0, for AI gun and embryo transfer device

- Freely adjustable temperature range
- Power supply with power bank (Separate)
- Transfer of Thawed semen, and embryos to maintain the optimal temperature until it is inseminated



## MiniThaw thawing unit

- Variable temperature setting (ambient to +50°C)
- Digital display of actual temperature
- Straw lift has three compartments and allows thawing up to 10 straws at a time (0.5 ml or 0.25 ml)
- Can be used in the car (12 V/24 V) or plugged to the wall socket



## MiniCutter for semen straws

- Facilitates straight cut at exactly the right length
- Precise cut of 0.25 and 0.5 ml straws.



## 6. EMBRYO TRANSFER AND OPU/IVP

### Stereo-zoom microscope

- Mirror with LED illumination for improved visualization of zona pellucida
- Total magnification from 10x to 70x
- 2 eyepieces 10x



### Manual sealing unit for straws

- Securely seals all kinds of straws by applying heat at the end of the straws
- Also seals in liquid nitrogen vapour
- Consists of a plier welding head adapted for straws and a control unit for varying heat level



### CryoSealer Ultrasonic sealer for straws

- Can be used for 0.25, 0.5 ml straws and 0.3 ml CBS cryobiostraws
- Sealing time adjustable: 0.0 – 4.9 sec
- Power consumption: 75 W





## Silicone ET flushing catheter

- Reusable
- High transparency and good visibility
- Silicone catheter 2-way, Luer Lock: CH 12 ,CH 16 ,CH 18, CH 20
- Silicone catheter 3-way, Foley end: CH 16, CH 18, CH 20
- Stainless steel tip catheter, CH 12, 6 ports, Luer Lock

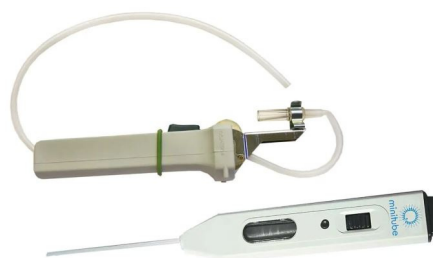


## EmSafe system for embryo collection in bovine and equine

- Ideal for both large and small embryos
- Automatically holds a minimum level of 60 ml flushing fluid
- Connection to all types of Y-tubing (bovine and equine) is possible
- Absolute tightness
- Sterilized



**Y-Junction tubing**



**Micropipettor for embryo handling**



**5-well dish with lid**

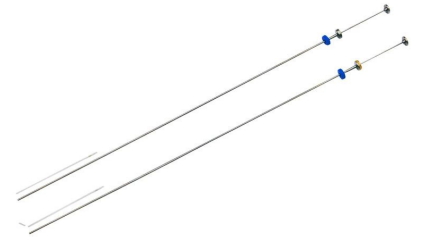
**Note:** Variants of All equipments are available, Visit (<https://www.minitube.com/catalog/en/bovine/>) for more details



**Steripette to manipulate embryos and oocytes**



**MiniStraw, 0.25 ml**



**ET Cannula for embryo transfer**



**Vitrification unit**



**BoviPlus OPU washing medium**



**BoviFlush embryo recovery medium**



**BoviFreeze, freezing medium for bovine embryos**



**Ultrasound device Versana Active**



**Aspiration pump for bovine OPU**

**Note: Variants of equipments full range of medias are available, visit (<https://www.minitube.com/catalog/en/bovine/>) for more details**

# STROEBECH MEDIAS FOR BOVINES

## OPU Medium

- For retrieval of oocytes from Ovum Pick Up and for Embryo Flushing (ET)
- 500 ml medium
- The medium is ready-to-use and does not need any supplements



## OPU Medium

- For handling of oocytes and embryos outside of the incubator
- 50 ml medium in glass bottle



## IVM Medium

- For in vitro maturation of oocytes in the laboratory
- 20 ml IVM medium in glass bottle
- The medium is ready-to-use and does not need any supplements



## Semen Wash Medium

- For washing of semen during centrifugation prior to in vitro fertilization
- 50 ml non-capacitating medium
- Also applies very well to sex-sorted semen





## Sperm Gradient Upper Layer 45%

- For semen preparation for IVF ICSI and to be used in combination with Stroebech Semen Wash Medium
- 20 ml. Gradient Medium
- The medium is ready-to-use and does not need any supplements



## Sperm Gradient Lower Layer 90%

- For semen preparation for IVF ICSI and to be used in combination with Stroebech Semen Wash Medium
- 20 ml. Gradient Medium
- The medium is ready-to-use



## IVF Medium

- For in vitro fertilization of matured oocytes
- 20 ml IVF medium
- Suitable for culture in 4WP dishes with 500  $\mu$ l/well



## IVC Medium

- For in vitro culture of embryos
- 20 ml IVC medium
- The medium is a one-step medium that can be used without change of medium for the entire period from inseminated oocytes to the blastocyst stages



## Holding Medium

- For Embryo Holding/Transfer/Biopsy
- 20 ml medium
- For in vitro and in vivo ET embryos



## Stroebech Heavy Oil

- Peroxide tested Pre-washed Oil
- 50 ml Oil for overlay of media
- Pharmaceutical grade light mineral oil



## Vitrification Kit

- For vitrification of in vitro and in vivo embryos
- 3 vials each containing 2 ml
- Higher embryo survival and pregnancy rates with vitrification



## Warming Kit

- For warming of in vitro and in vivo embryos
- 4 vials each containing 2 ml medium
- Particularly in vitro and biopsied embryos benefit from this cryopreservation method



## Oocyte Vitrification Kit

- For Oocyte Vitrification
- 6 vials each containing 2 ml medium
- Media should not be pre-heated to more than 30°C prior to use



## Oocyte Warming Kit

- For Oocyte Warming
- 6 vials each containing 2 ml medium
- Pre-heat media 38.8°C prior to use
- Leave lid on in order to avoid evaporation



## H-IVM Medium

- For the in vitro maturation of oocytes outside the incubator
- 20 ml HEPES IVM medium
- The medium is ready-to-use and does not need any supplements



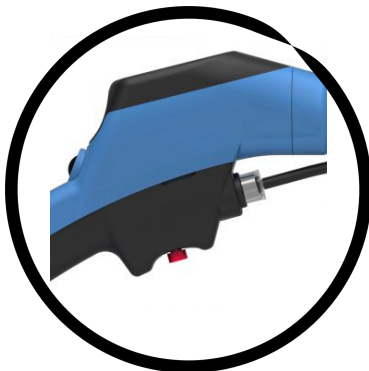
**Note:** For More Details please Visit ( [www.stroebech-media.com](http://www.stroebech-media.com) )

## Eye Breed

- Allows the operator to inseminate cows without rectal palpation
- Insemination becomes accessible with peace of mind !



- 1st worldwide technological innovation, which allows for insemination without rectal palpation



### Easy

Simple, intuitive handling: switch on, connect, inseminate, clean

### EFFICIENCY

Pregnancy results identical to those of an experienced operator, obtained in just a few days

### CONNECTED

A high-definition camera for a perfect view of vaginal cavity and mucus discharge during insemination

### SERENITY

Operator and animal welfare thanks to the absence of the palpation





# EQUINES

## Assisted Reproductive Technologies In Equines

**Complete Embryo transfer  
and Artificial Insemination  
product line for horse  
veterinarians, breeders,  
and researchers**

## Hannover artificial vagina

- Inner liner for Hannover AV, latex:
- long version, 100 cm
- short version, 70 cm
- Disposable inner liner for Hannover AV,
- 25/package
- Rubber band for Hannover AV
- Leather handle for Hannover AV



## Colorado artificial vagina

- With 3 inner liners (tubular, conical, straight), 10 rubber bands, 2 clamps, 25 disposable inner liners, 25 semen bottles, 25 coupling nuts, 25 nylon filters, and warming bag. Robust tubular plastic casing with rounded openings. Valve assembly allows air to be added for adjustment of inner pressure



## Equine semen filter pouch

- Non-woven, 150 x 60 mm (5.9 x 2.4"), 100/package



## ReproJelly lubricant

- Recommended for AI, rectal palpation, ultrasound examinations and lubrication of AVs.
- Comes in a resealable 100 ml tube.





## 2.SEMEN ANALYSIS



**Phase contrast microscope  
Olympus CX43**



**Laboratory heating plate**



**Digital color camera  
for microscopes**



**Photometer SDM 1,  
calibrated for equine**



**AndroVision CASA software  
with PC**



**AndroScope, mobile  
semen analysis unit**



**Counting chamber**



**Eosin G stain, 2%  
solution for live/dead  
cells**



**Nigrosin stain, 4%  
solution for  
live/dead cells**



**Spermac stain kit**



**Farely stain for  
morphology evaluation**



**Disposable capillary  
tube, plastic**

### Centrifuge medium for equine semen

- Powder for 1 litre
- Transparent EDTA-glucose solution
- Without antibiotic.



### Beyond equine semen extender

- Equine semen extender for long-term storage of chilled semen at +5°C and optionally at +17°C.
- Ready to use in 100 ml bottles.



### EquiPlus semen extender powder form

- Balanced medium based on skim milk for preservation of sperm activity up to 72 hours.
- Makes 1 litre
- Also available in liquid ready to use
- Without and with Antibiotics



### EquiPlus Combi, equine semen extender

- Powder with 100 ml double distilled water.
- Balanced medium for preservation of sperm activity up to 72 hours
- with Lincomycin and Spectinomycin





## Gent, equine semen extender for chilled semen 45ml

- Culture medium in which fresh semen can be preserved at +4°C to +6°C for approx. 72 hours.
- With egg yolk and antibiotic. Ready-to-use after warming.



## SBS CryoSystem Spectrum test freeze kit for equine semen

- The Spectrum concept allows to identify the best freezing extender for each individual stallion.
- All Spectrum extenders are presented as ready-to-use solutions.



## SBS CyroSystem Spectrum

- Feature different cryoprotectants and specific different egg yolk or milk content.
- 30 ml 15 ml packing
- Spectrum Orange
- Spectrum Red
- Spectrum Green
- Spectrum Blue
- Spectrum Violet



## CushionFluid

- For gentle centrifugation of stallion spermatozoa
- Assures a higher yield of sperm cells as compared to standard centrifugation
- 100 ml
- 30 ml



# 3. SEMEN STRAW PROCESSING



**MPP Uno, automatic filling and sealing machine for semen straws**



**Manual ball sealer for 0.5 ml straws**



**EasyCoder, automatic printer for 0.5 and 0.25 ml straws**



**Macrotube, 2.5 ml, Length 140 mm 100/bag**



**Sealing ball for Macrotubes, metal 1000/bottle**



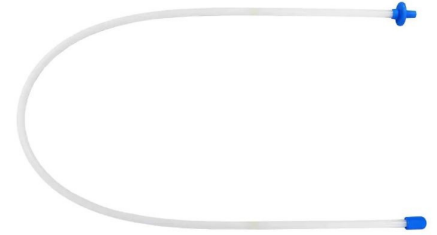
**EcoStraw, 0.5 ml, transparent**



**MiniThaw thawing unit**



**Equine Universal IUI pipette with inner catheter, 65 cm, 5/package**



**Equine Universal AI pipette, length: 57 cm, 1/bag, sterilized**



**Flexible stilet used with Universal insemination pipette 57 cm and 0.5 ml straws**



**Equine insemination pipette, with Luer end, 60 cm**



**Polansky vaginal speculum for mares**



**Cytology Brush equine**



**Biopsy forceps for equines**



**Refractometer for measurement of IgG levels in colostrum**



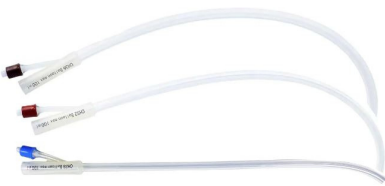
**Stereo-zoom microscope**



**DIUI set for equine AI and ET**



**DIUI sheath for 0.25 ml straw**



**Embryo flushing catheter  
CH 28**



**Ultrasound probe holder for  
equine OPU**



**Y-junction tubing, large  
lumen, spike port**



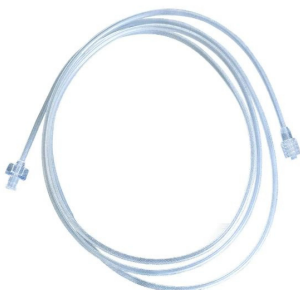
**EquiPlus OPU recovery  
medium, with BSA**



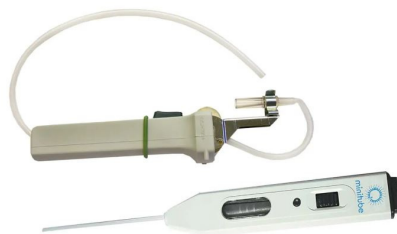
**EquiFlush embryo recovery  
medium with BSA and  
antibiotics, 1 l, bag**



**EquiHold, holding medium  
for equine embryos, 3 x 5  
ml**



**EquiPlus OPU recovery  
medium, with BSA**



**Micropipettor for embryo  
handling, model A**



**Aspiration and flushing  
pump for equine OPU**



# STROEBECH EQUINE MEDIAS



Equine OPU Medium



Oocyte Holding Medium



Equine IVM Medium



Equine Semen Wash Medium



Sperm Gradient  
Upper & Lower



Equine PVP Medium



Equine Swim Up  
Medium



Equine ICSI Medium



Equine One Step  
IVC Medium



Equine IVC Medium 2 -  
Blastocyst



Equine IVC Medium 1 -  
Cleavage



Equine Holding  
Medium



Stroebech Heavy Oil



Equine Vitrification Kit



Equine Warming Kit



Equine  
Hyaluronidase





# SMALL RUMINANTS AND CAMELIDS

## Assisted Reproductive Technologies In Small Ruminants and Camelids

**Full range of high-quality products for assisted reproduction in sheep, goats and camels are Available. Products details are as same as bovines Section**

**Note:** Complete range for small ruminants and camels reproductive equipments and medias are available.

For more info visit ( <https://www.minitube.com/catalog/en/small-ruminants-camelids/>)



# GP-2 SUPER

## CHART MVE USA BIOMEDICAL CONTAINER

### Specifications

- **Best seller**
- **Easy to carry with light weight and strong build-up qualities**
- **With 1 year warrenty**

Model		GP-2-35
No. of canisters		3
Performance		
LN capacity(liters)		2
Static evaporation rate (liters/day)		0.067
Normal static duration (days) without canisters		32
Unit Dimensions		
Neck opening(mm)		35
Overall height(mm)		410
Outside diameter(mm)		195
Canister height(mm)		110
Canister diameter(mm)		26
Weight empty(kg)		2.5
Full weight(kg)		4.2
Straw Holding capacity		
(Single Level)	0.5ml	165
	0.25ml	330
(Double Level)	0.5ml	--
	0.25ml	--



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Straw Holding capacity		
(Single Level)	0.5ml	165
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	0.25ml	--



# CHART MVE USA BIOMEDICAL CONTAINERS

## Specifications

Model	Geometric Volume (L)	Caliber (mm)	Outside Diameter (mm)	Height (mm)	Empty Weight (kg)	Static Hold Time (Day)	Canister		
							Qty	Caliber(OD)	Height
						≥		mm	
GP-1-30	1	30	180	315	2.0	14	1	26	120
GP-2-30	2	30	224	360	2.9	28	3	19	120
GP-3	3.15	50	224	420	3.4	26	6	38	120
GP-6	6	50	287	435	5.0	52	6	38	120
GP-10	10	50	303	530	6.2	86	6	38	120
GP-10A	10	50	287	605	6.5	97	6	38	276
GP-10-90	10	90	303	538	6.7	44	6	70	120
GP-15	16	50	355	600	8.2	134	6	38	120
GP-20	20	50	409	650	11.2	168	6	38	120/276
GP-30	31.5	50	446	670	12.9	254	6	38	120/276
GP-30-125	31.5	125	446	685	14.2	90	6	97	120/276
GP-35	35.5	50	473	680	13.8	286	6	38	120/276
GP-35-125	35.5	125	473	690	15.1	97	6	97	120/276
GP-47-127	47	127	500	675	19.0	105	6	103	120/276





GEENTECH  
INTERNATIONAL

# THANK YOU

As we wrap up this catalog dedicated to animal reproductive technologies, we want to extend our sincere gratitude for taking the time to explore the innovative solutions we offer. Your interest and engagement drive us to continually push the boundaries of excellence in the field.

We're here to support your goals in advancing animal reproduction.

For inquiries or assistance, feel free to contact us. We look forward to being your trusted partner in innovative solutions.

Best Regards,

GeenTech International

## Contact Us



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