



Hubert De Backer nv
Challenging the limits of plastic



Intramammary

Dairy and cattle

HDB is the global market leader for both standard and tailor-made intramammary syringes.

Thanks to our extensive experience and know-how, we have been able to constantly improve on the design of our intramammary syringes, resulting in excellent functionality, perfect quality and maximum end-user friendliness.

Our standard range of intramammary syringes consists of the following dosing volumes: 4,5 ml up to 30 ml.





Veterinary intramammary

	4,5 ml	4,5 ml	5,5 ml	6,5 ml	7 ml	10 ml	12 ml	12 ml	12 ml	12ml	12 ml	20 ml	20 ml	30 ml
Barrel	T1685/-	T2193	T1753	T1670/-	T1635/-	T1998	T1687/-	T1706/-	T1706/-	T1985	T1985	T1581/-	T1666/-	T1965/-
One-piece plunger	T1959 T1764	T2195	T1754	T1668	T1602/- T2033	T1999/-	T1485/-	T1743/- T1630/- T1984	T1852	T1743/- T1630/- T1984	T1852	T1583/-	T1302/-	T1868
Type of nozzle	long	short	long	long	long	short	long	long	long	short	short	long	long	long
Compatible cap	T1673/- T1631/-	T2186 T1883	T1673/- T1631/-	T1673/- T1631/-	T1673/- T1631/-	T2186 T1883	T1673/- T1631/-	T1673/- T1631/-	T1673/- T1631/-	T2186 T1883	T2186 T1883	T1673/- T1631/-	T1673/- T1631/-	T1673/- T1631/-
Compatible ring	-	-	-	-	-	-	-	-	T1853/-	-	T1853/-	-	-	T1891/-
	Gamma-irradiation / ETO possible													
	Assembly conform to your request													
	Up to 3-colour printing on the barrel - possibility needs to be analyzed for each project individually.													
Height incl. nozzle	76,00	69,65	76,00	76,00	92,00	98,50	104,40	104,40	104,40	98,50	98,50	104,40	126,00	126,00
Height excl. nozzle	50,00	50,00	50,00	50,00	66,00	78,00	78,00	78,00	78,00	78,00	78,00	78,00	99,30	99,30
Outer diameter	17,00	17,00	17,00	19,50	17,00	18,50	19,50	19,50	19,50	19,50	19,50	25,70	22,30	25,70
Innet diameter	13,50	13,50	14,70	17,20	14,00	16,00	16,20	17,20	17,20	17,20	17,20	23,00	18,90	23,00
Nozzle diameter	1,50	1,60	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50

Looking for your own customized product? If you have a design or an idea for a new development in this field, we would be happy to hear from you. Together with our R&D department, we will further elaborate on your idea.





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Oral dosing

OTC/Prescription

Dispensing spoons are a thing of the past! HDB has come up with a new dispensing system to replace the dispensing spoon.

Our oral dosing applicators are available in the following standard dosing volumes: 0,5 ml, 1 ml, 2 ml, 3 ml, 5 ml, 10 ml and 20 ml.

HDB is very pleased to be able to offer you the all-in-one package: CRC/TE closure, plug, oral dosing syringe, sealing cap and clip. This enables you to buy all the required components for the administration of oral solutions from a single supplier.





Oral Dosing

	1 ml	2 ml	3 ml	5 ml	5 ml	10 ml	10 ml	20 ml	20 ml
Barrel	T2023	T2115	T2043	T1839/-	T2064	T2046	T2060/-	T2197	T2239
Plunger	T2024 T2165	T2116 T2173	T2044/- T2170	T1840/-	T1840/- T2120/-	T2047 T2166	T2061	T2200	T2188
Type of nozzle	short	short	short	flat	short	short	flat	short	flat
Compatible cap	T2133	T2133	T2134	T2138	T2134	T2134	T2138	T2134	T2138
Compatible clip	-	-	E0002	E0002	E0002	-	-	-	-
Graduation for printing on barrel	Standard and custom graduations available								
(Customized) assembly, incl. plug	Assembly conform to your request								
Individual packaging, Flow pack, incl. plug	Individual packaging conform to your request								
CE-marked	CE-marking possible								
Height incl. nozzle	87,50	95,50	74,00	91,00	99,00	86,00	101,00	113,00	115,00
Height excl. nozzle	80,00	88,00	66,00	-	91,00	78,00	91,00	105,00	105,00
Outer diameter	6,40	8,30	11,00	11,00	11,00	17,00	15,35	19,60	19,60
Inner diameter	4,70	6,70	9,40	9,40	9,40	15,05	13,40	17,50	17,50
Inner diameter nozzle	1,65	1,65	2,50	3,00	2,50	2,50	3,00	2,50	3,00

PLUGS									
Bottle neck finish	DIN28	DIN28	DIN28	DIN28	DIN18	DIN28	DIN28	DIN 28	DIN 28
Plug	T2040/-	T2041/-	T2057/-	T2059/-	T2148/-	T2149/-	T2163/-	T2164/-	T2174/-
Pet / Glass bottle	Glass/PET	Glass/PET	Glass/PET	Glass/PET	Glass/PET	PET	Glass/PET	Glass/PET	PET
Type of nozzle syringe	flat	flat	flat	short	short	flat	short	flat/short	short
Inner neck diameter	19,90	20,70	22,40	20,50	11,30	22,00	22,40	Universal	21,90
Outer diameter	24,60	24,60	24,60	24,60	15,40	24,60	24,60	Universal	24,60
Height	11,00	11,00	11,00	11,00	9,80	15,40	11,00	Universal	11,00

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Intimate care

Intimate care

HDB is an innovator in gynaecological medical devices. We have therefore developed two standard types of vaginal applicators. Our 5 ml vaginal applicator with M9 / M11 screw thread can be screwed onto tubes, allowing the end-user to administer gels and creams smoothly. In addition, we have a vaginal applicator without a thread, which is more suited for inserting capsules and pills.

If you have a design or an idea for a new development in this field, we would be happy to hear from you.

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[**www.hdb.be**](http://www.hdb.be)

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Intimate care

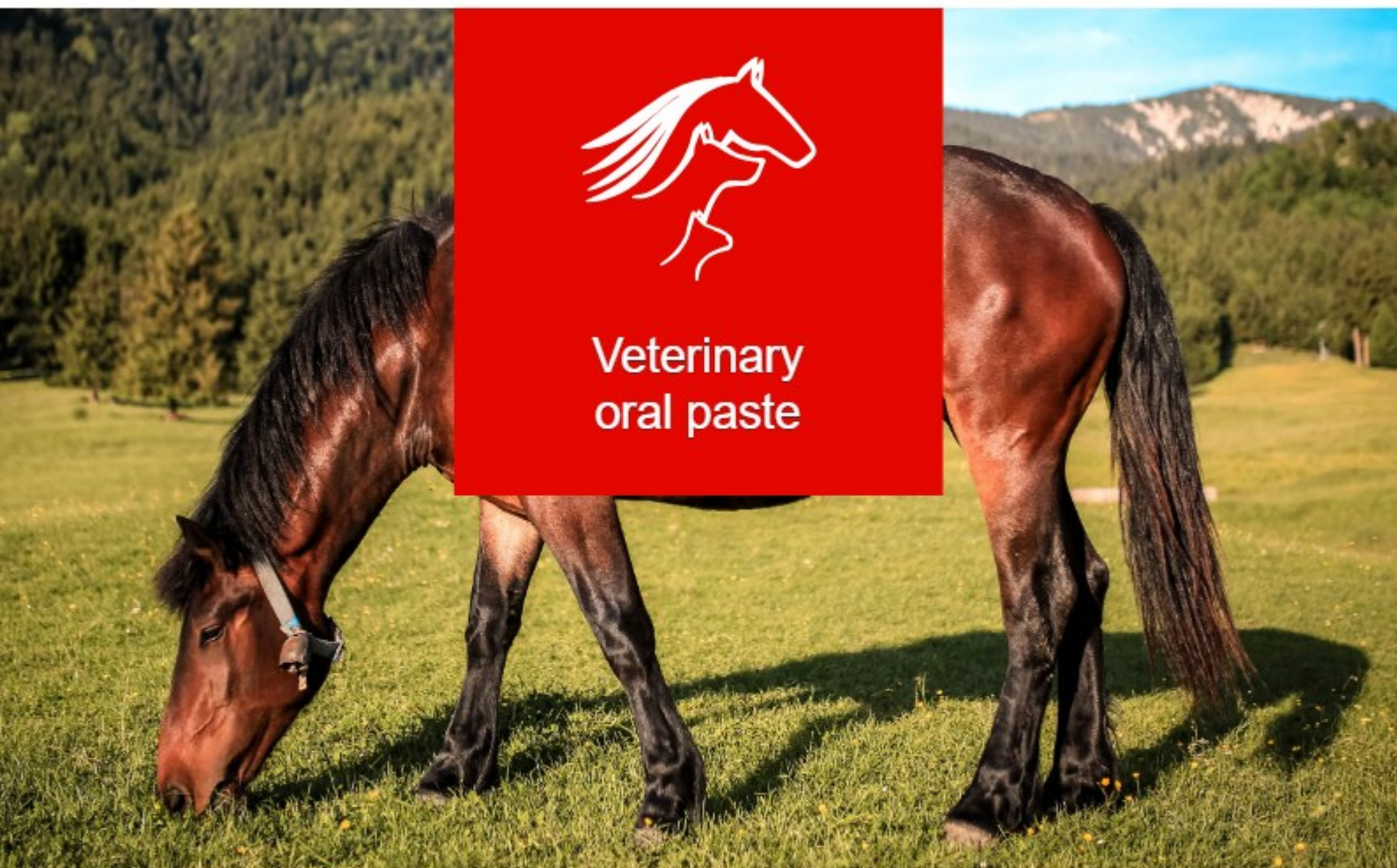
	5 ml	5 ml	-
Barrel	T1907/-	T2150/-	T1906/-
Plunger	T1703/-	T1703/-	T1681
Use	Cream / Gel	Cream / Gel	Pills
Screw thread	M9	M11	-
Printing on plunger	V	V	V
Individual packaging (flow pack, blister,...)	V	V	V
CE-marked	V	V	V

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Veterinary Oral Paste Syringe

HDB specializes in the production of both standard and tailor-made oral paste syringes. These syringes have a wide nozzle, making them exceptionally well-suited for the oral administration of gels, creams and vitamin pastes to horses and sheep.

Our oral paste syringes consist of four components: barrel, cap, plunger and dosing ring.

Standard dosing volumes: 5,5 ml up to 60 ml.





Veterinary oral paste

	5,5 ml	7 ml	12 ml	12 ml	12 ml	12 ml	12 ml	12 ml	15 ml	15 ml	20 ml	20 ml	30 ml	30 ml	30 ml	60 ml	60 ml	60 ml
Barrel	T2007	T1958	T1693/-	1693/-	T1765/-	T1765/-	T2035	T2035	T1869/-	T1889/-	T1582/-	T1587/-	T1867/-	T1890/-	T2006	T1877	T1880	T2048
One piece plunger	T2008	T1938	T1743/- T1630/- T1984	T1852	T1743/- T1630/- T1984	T1852	T1743/- T1630/- T1984	T1852	T1870	T1870	T1583/-	T1302/-	T1868	T1868	T1868	T1878	T1878	T1878
Type of nozzle	medium	long	short	short	long	long	medium	medium	long	medium	medium	short	long	medium	short	long	medium	medium
Compatible cap	T1586/-	T1586/-	T1586/-	T1586/-	T1586/-	T1586/-	T1539/-	T1539/-	T1586/-	T1539/-	T1539/-	T1539/-	T1539/-	T1539/-	T1539/-	T1586/-	T1539/-	T2049
Compatible ring	T1939	T1939	-	T1853/-	-	T1853/-	-	T1853/-	T1853/-	T1853/-	-	-	T1891/-	T1891/-	T1891/-	T1879/-	T1879/-	T1879/-
	Gamma-irradiation / ETO possible																	
	Assembly conform to your request																	
	Up to 3-colour printing on the barrel - possibility needs to be analyzed for each project individually.																	
Compatible with catheter	-	-	-	-	-	-	-	-	-	-	V	V	-	-	V	-	-	-
Height incl. nozzle	104,50	149,80	104,40	104,40	130,50	130,50	114,00	114,00	137,00	121,00	115,00	123,00	151,30	137,00	123,70	151,30	137,00	137,00
Height excl. nozzle	66,00	99,30	78,00	78,00	78,00	78,00	78,00	78,00	85,00	85,00	78,00	99,30	99,30	99,30	99,30	99,30	99,30	99,30
Outer diameter	14,80	14,70	19,50	19,50	19,50	19,50	19,50	19,50	19,50	19,50	25,70	22,30	25,70	25,70	25,70	35,00	35,00	35,00
Inner diameter	12,30	12,30	17,20	17,20	17,20	17,20	17,20	17,20	17,20	17,20	23,00	18,90	23,00	23,00	23,00	32,20	32,20	32,20
Nozzle diameter	2,50	2,50	2,50	2,50	2,50	2,50	5,80	5,80	2,50	5,80	5,80	5,80	2,50	5,80	5,80	2,50	5,80	11,00

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Ophthalmics

Ophthalmics

The HDB eye-dropper combines an ideal drop rate with a perfect drop size. Our eye-dropper is also perfectly suitable for blow-fill-seal production.

Our eye-dropper components are produced in our state-of-the-art cleanroom and can be subjected to gamma-irradiation afterwards.

Features

- Medical grade materials
- Cleanroom production and assembly
- Customized packaging DPTE® beta port containers / bags
- Suitable for gamma-irradiation
- Optimal drop rate and perfect drop size
- Tip and cap suitable for blow-fill-seal production

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**Healthcare
and medical**

Healthcare Devices

Realizing your ideas

Our R&D team collaborates with your specialists to give form to your concepts. Their extensive experience is shared to evolve innovative, technically advanced and commercially realizable products.

The technical advantages achieved by continuous innovation of our customized products are confirmed by their market-leading position.

CAD-systems provide 2D and 3D-drawings for visualization, prototyping and mould manufacturing.





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**Laboratory and
diagnostics**

Laboratory & Diagnostics

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Quality

Quality is key

The key to our success is a quality-centred culture at every level from development to production and logistics.

Our quality system is dedicated exclusively to the pharmaceutical sector. We work together to provide you with customized quality documents and reports, allowing you to register your pharmaceutical product.

By means of a quality agreement, we can define specific requirements regarding the quality of our products and the roles and responsibilities of HDB and our clients. By enhancing our quality management system we ensure you of the best possible quality.





Quality



Exceptional production standards

Our cutting-edge manufacturing facility provides you with quality, capacity, flexibility, efficiency and assured supply.

Our certified quality management system is built to meet the highest industry standards:

- ISO 9001:2015 (Quality management systems)
- ISO 13485:2016 (Medical devices)
- ISO 15378:2017 (Primary packaging materials for medicinal products)
- DMF available for dosing applicators for human use
- Registered FDA facility
- Directive 93/42/EEC (Medical Device Directive)
- Regulation (EU) 2017/745 (Medical Device Regulation)

To make sure all employees work according to our quality management system, we provide them with training on a regular basis. Every single process step has a built-in quality control which starts with analysis of incoming materials.

Our production processes are monitored by the production operators via in-process controls (IPC) including visual, dimensional and functional inspection.

On top of that, our Quality Control team checks that we comply with customer specifications, to ensure that all our products are of excellent quality. They perform a recheck of all IPC's and carry out additional tests, as agreed with the customer:

- Leak testing
- Specific measuring
- Drop rate tests
- ...

We have two cleanrooms that have a combined surface of 3888 m². Both human and veterinary applications can be produced in our cleanrooms (class ISO 5, ISO 6 or ISO 7).

Because, at HDB, excellence is not an act. It's a habit.



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