Needle information

B. Braun high performance surgical needles

B. Braun top needle range

CV pass needle generation

B. Braun needle types

B. Braun needle nomenclature

B. Braun needles

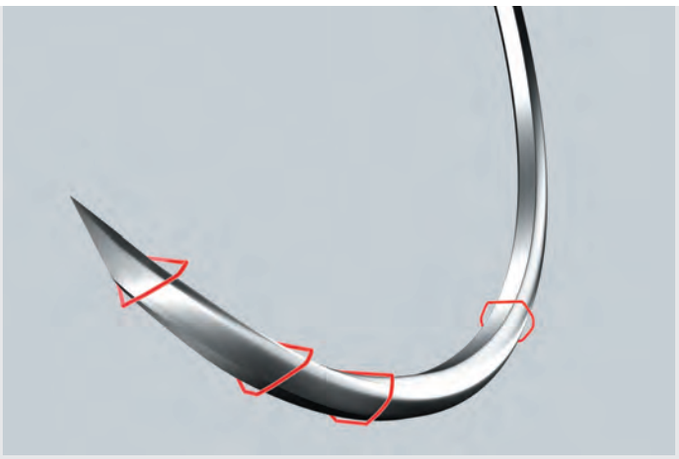
B. Braun high performance surgical needles

Quality and high performance

- B. Braun needles have gained recognition over the years for their quality and high performance.

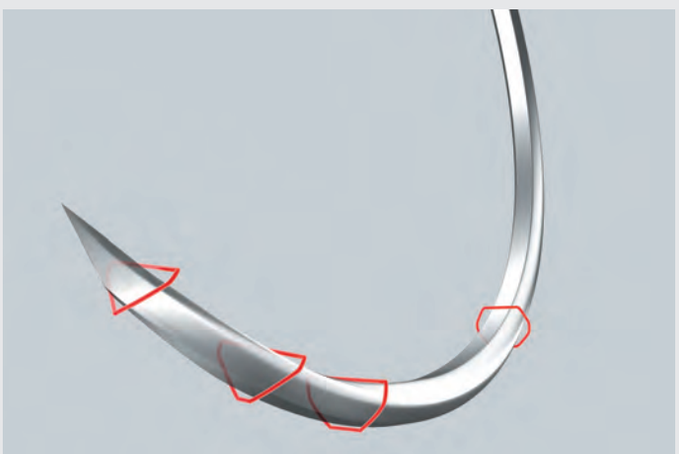
Constant development

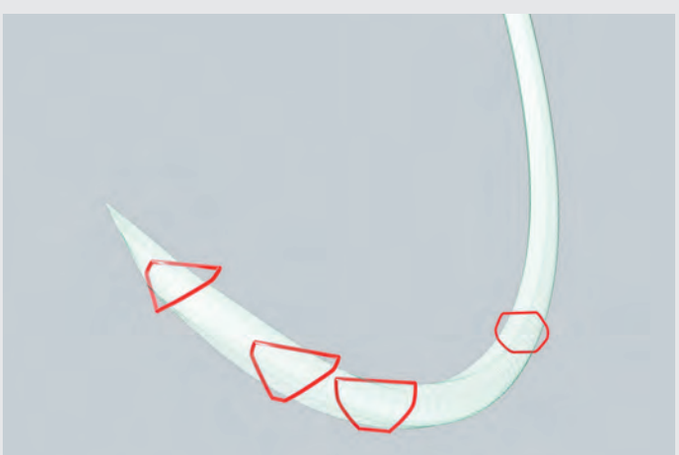
- B. Braun has state of the art technology and is committed to constant research and development in order to improve needles to the need of all surgical disciplines.



More than 250 different types of needles

- B. Braun has over 250 different types of needles to meet the needs of the surgical procedure as well as the surgeon's personal preferences.





B. Braun top needle range

Easyslide NEEDLES | CV Pass NEEDLES | CV Pass Easyblack

Easyslide and CV pass needles are the result of both extensive research in metallurgical technology and clinical experience.
This has resulted in needles that are made of high quality stainless steel alloy.



Bending resistance
with high performing needles
- Special steel confers superior strength
- Outstanding bending and breaking resistance

Penetration
specific needle tip design
- Continuous penetration performance pass after pass
- Engineered surface treatment that improves needle penetration

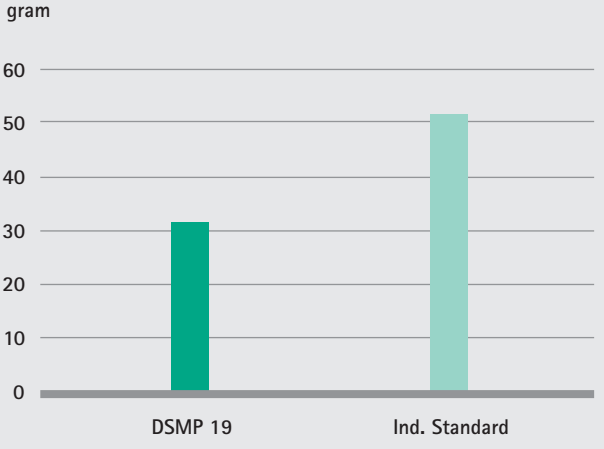
Easyslide DSMP

The B. Braun latest generation of precision point cutting needles for plastic surgery.

The dream for plastic surgery
Excellent penetration performance and guaranteed bending resistance.

Specific needle tip and geometry design
- Thin tip for easiest and smoothest pass
- Excellent durability and needle point integrity
- Incorporates flattened body for an excellent stability in the needle holder

Penetration
Average penetration force after 10 stitches



Source: *Internal laboratory tests*

CV pass needle generation

Excellence in cardiovascular surgery

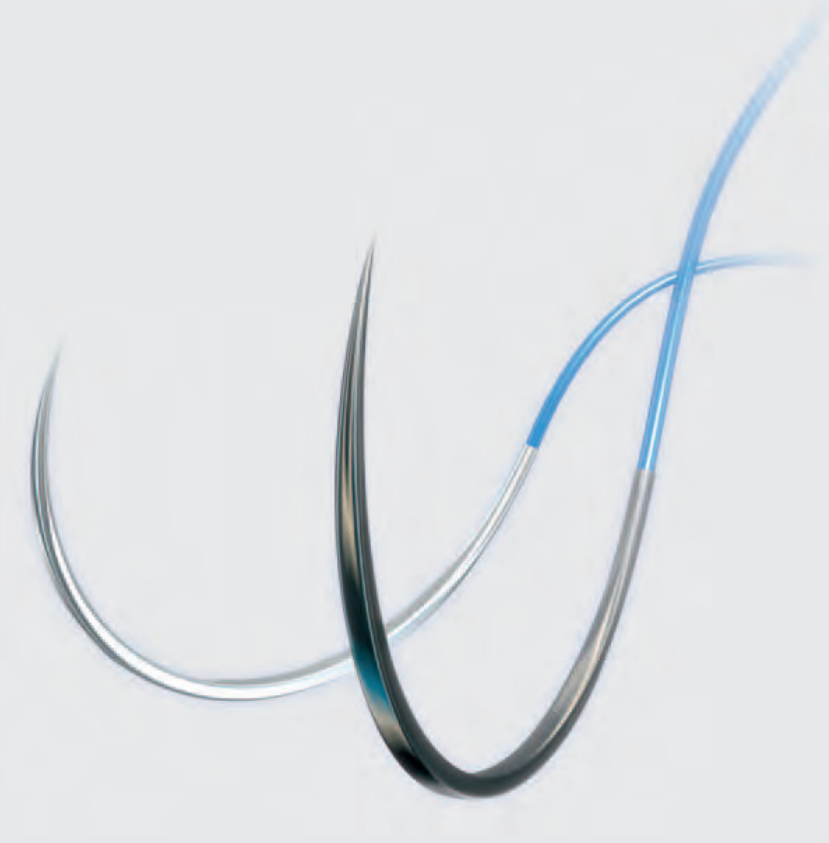
The new needle generation for CV surgery

- Specifically developed to meet the high standards required during cardiovascular surgery
- CV pass needles are manufactured employing top quality stainless steel alloy (300 stainless steel series)

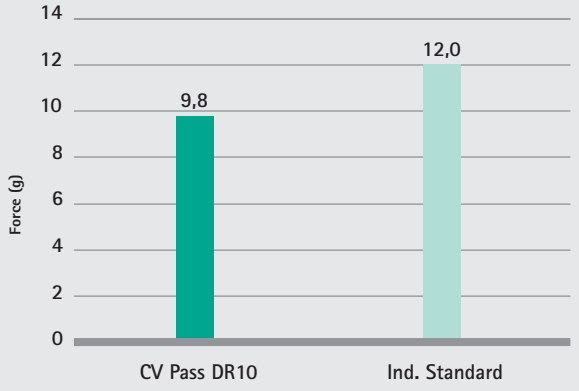
Specific needle body design

An innovative semi-square body with round edges provides CV pass needles with:

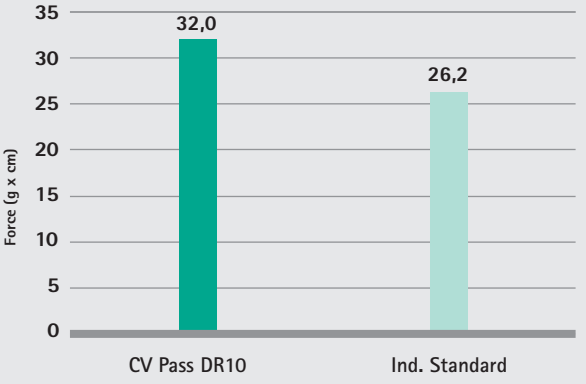
- Superior resistance to bending and breakage
- Optimal penetration even after multiple stitches
- Atraumatic passage through tissues
- Excellent stability in the needle holder
- Improved needle visibility with CV pass easyblack



Penetration and bending performance for 3/8 circle round body 10 mm taper point needle USP 7/0



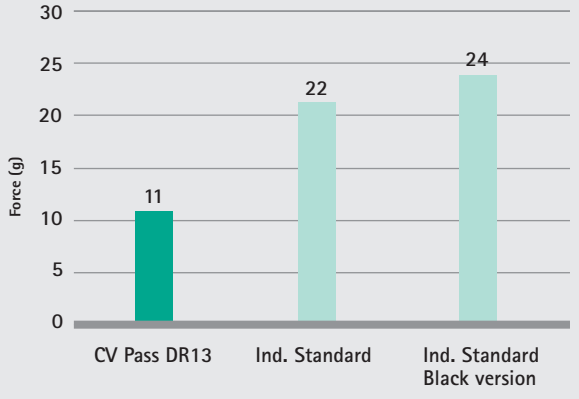
Penetration
Average penetration force after 10 stitches



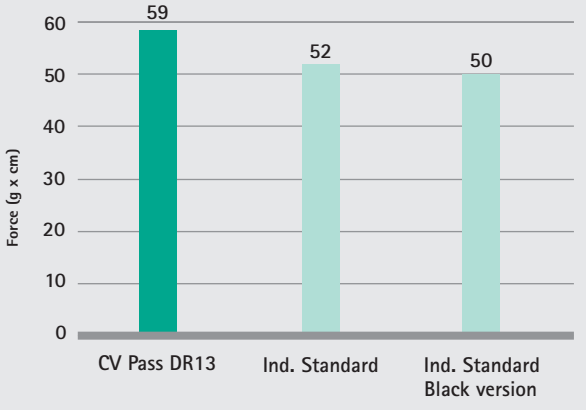
Bending
Maximum force applied to bend the needle

Source: *Internal laboratory tests*

Penetration and bending performance for 3/8 circle round body 13 mm taper point needle USP 6/0



Penetration
Average penetration force after 10 stitches



Bending
Maximum force applied to bend the needle

Source: *Internal laboratory tests*

B. Braun needle types

Taper needle

Typical applications / indications:

- Gastrointestinal tract
- Urologic tract
- Reproductive organs (male and female)
- CV system (heart structures and vessels without atheroma)
- Respiratory system
- Endocrine surgery
- Hepatobiliary surgery
- Membranes (dura, peritoneum, pericardium)
- Muscular layer
- Cellular subcutaneous
- Microsurgery (vessels, nerves)
- Oral mucosa

Threads:

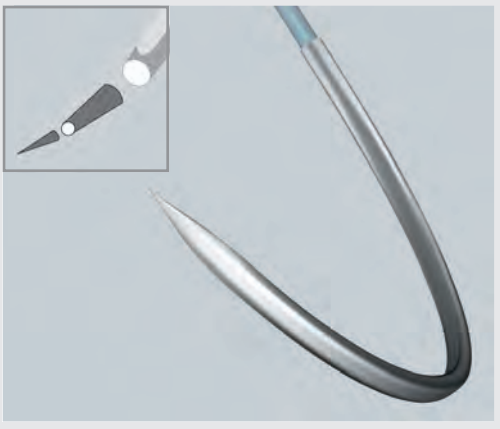
Absorbable sutures
- Safil® Quick
- Safil®
- Novosyn®
- Monosyn® Quick
- Monosyn®
- MonoPlus®
- MonoMax®

Non-absorbable sutures
- Premilene®
- PremiCron®
- Dafilon®
- Trelon®
- Supramid
- Dagrofil®
- Virgin Silk / Silkam®
- Steelex®
- Linatrix®

Sets:

- Episio-Set
- Steelex® Electrode-Set

The taper needle is designed to permit easy penetration of the tissue. The body of the needle is flattened to prevent the needle from rotating in the needle holder. This needle is designed for soft tissues. CV pass needle with square needle body instead of flattened needle body for increased bending strength. This needle is specially designed for cardiovascular indications.



Taper needle with short cutting point

Typical applications / indications:

- CV system (heart structures and vessels with atheroma)
- Muscular layer
- Aponeurosis
- Ligaments
- Tendon

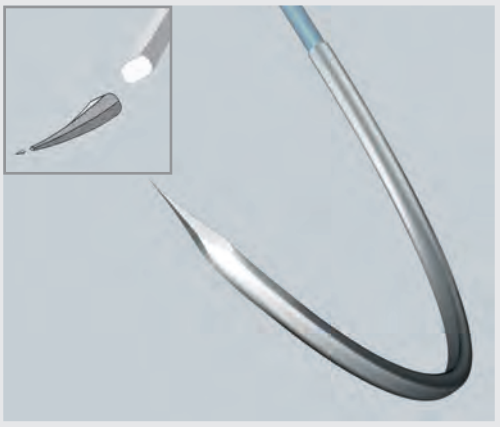
Threads:

Absorbable sutures
- Safil® Quick
- Safil®
- Novosyn®
- Monosyn®
- MonoPlus®
- MonoMax®

Non-absorbable sutures
- Premilene®
- PremiCron®
- Dafilon®
- Supramid
- Sternum-Set

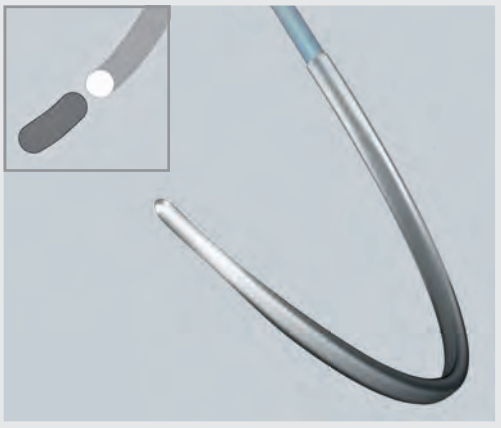
The round bodied needle with a short cutting point improves penetration through calcified vessels and tough tissue. CV pass needle with square needle body instead of flattened needle body for increased bending strength. This needle is specially designed for cardiovascular indications.

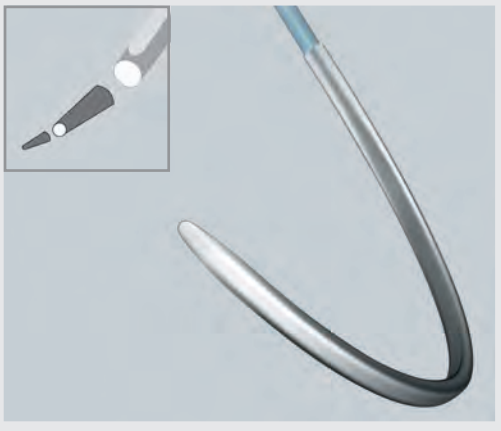


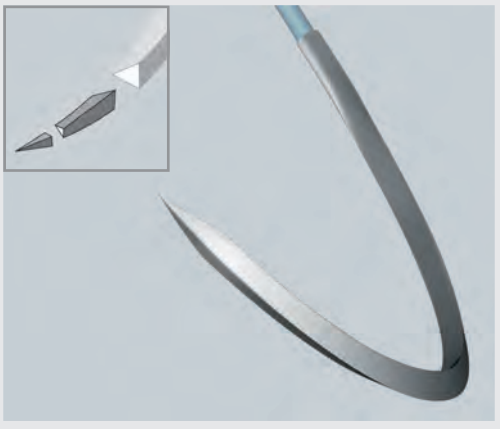
Taper needle with trocar point ⊕	Typical applications / indications:	Threads:	Sets:
Needle with strong cutting point of four edges that blend into a round tapered body. This needle ensures good penetration in tough tissues with minimum tissue trauma. 	■ Muscular layer ■ Aponeurosis ■ Ligaments ■ Tendon	**Absorbable sutures** ■ Safil® Quick ■ Safil® ■ Novosyn® ■ Monosyn® Quick ■ Monosyn® ■ MonoPlus® ■ MonoMax® **Non-absorbable sutures** ■ Premilene® ■ PremiCron® ■ Dafilon® ■ Trelon® ■ Supramid ■ Dagrofil® ■ Virgin silk / Silkam® ■ Steelex®	■ Episio-Set ■ Tendo-Loop ■ Cervix-Set ■ Steelex® Electrode-Set

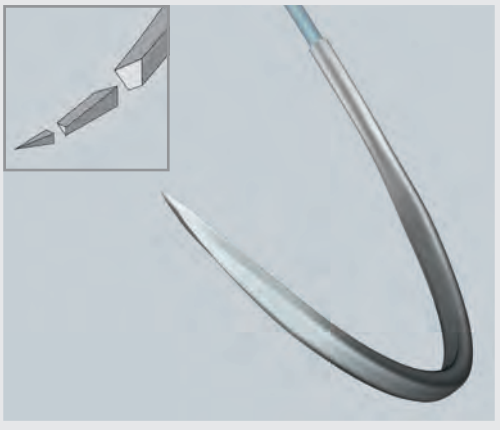
Taper needle with sternum point ▲	Typical applications:	Sets:
Needle with tapered body which gradually changes to a three cutting edge point. This needle is specially designed for sternum closure. 	■ Sternum closure	■ Sternum-Set

B. Braun needle types

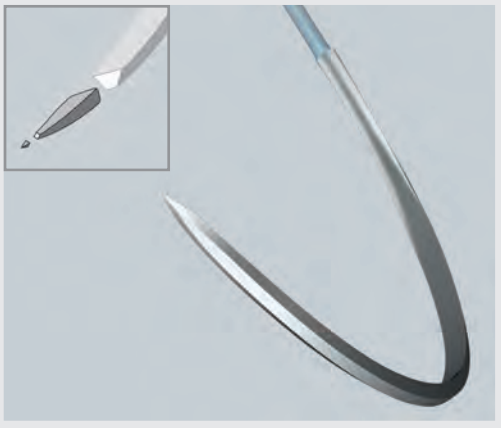
Taper needle with blunt point ◯	Typical applications / indications:	Threads:	Sets:
Needle with a tapered body and a rounded blunt point that does not cut through the tissue; recommended for parenchymal tissue to avoid tissue damage in surrounding structures. 	■ Blunt dissection through friable tissue ■ Parenchyma organs ■ Sternum (peristernal)	**Absorbable sutures** ■ Safil® Quick ■ Safil® ■ Novosyn® ■ Monosyn® ■ MonoPlus® ■ MonoMax® **Non-absorbable sutures** ■ Premilene® ■ Dafilon® ■ Virgin silk / Silkam®	■ Safil® Parenchyma-Set ■ Dermaset ■ Cervix-Set ■ Surgical Loop ■ Sternum-Set

Taper needle with protection point ◯	Typical applications / indications:	Threads:
Needle specially designed to minimize needle stitch injury. The needle allows penetration of the fascia but reducing the risk of accidental needle stitch injuries. 	■ Membranes (dura, peritoneum, pericardium) ■ Muscular layer (facia and aponeurosis)	**Absorbable sutures** ■ Safil® Quick ■ Safil® ■ Novosyn® ■ Monosyn® ■ MonoPlus®

Reverse cutting ▼	Typical applications / indications:	Threads:	Sets:
Needle with a triangular cross section and an apex cutting edge on the outside of the needle curvature. Designed to penetrate through tissue. 	■ Skin (dermal and intradermic) ■ Tendon (intra and peritendinous suture) ■ Muscular layer ■ Aponeurosis ■ Ligaments	**Absorbable sutures** ■ Safil® Quick ■ Safil® ■ Novosyn® ■ Monosyn® Quick ■ Monosyn® ■ MonoPlus® **Non-absorbable sutures** ■ Premilene® ■ PremiCron® ■ Dafilon® ■ Trelon® ■ Supramid ■ Dagrofil® ■ Virgin silk / Silkam® ■ Steelex® ■ Linatrix®	■ Episio-Set ■ Securex® ■ Dermaset ■ Ear-Set ■ Patella-Set ■ Tendofil® ■ Ventrofil® ■ Surgical Loop ■ Steelex® Electrode-Set

Reverse cutting with precision point ▼	Typical applications / indications:	Threads:	Sets:
Needle with a specific thin tip geometry and an apex cutting edge on the outside. The body is slowly flattened after the needle tip for greater stability of the needleholder. The ideal needle for plastic surgery where the cosmetic result is important. 	■ Skin (dermal and intradermic) ■ Tendon (intra and peritendinous suture)	**Absorbable sutures** ■ Safil® Quick ■ Safil® ■ Novosyn® ■ Monosyn® Quick ■ Monosyn® ■ MonoPlus® **Non-absorbable sutures** ■ Premilene® ■ PremiCron® ■ Dafilon® ■ Trelon® ■ Supramid ■ Dagrofil® ■ Virgin silk / Silkam®	■ Episio-Set ■ Securex®

B. Braun needle types

Lancet needle  Micro-point	Typical applications:	Threads:
Special needle tip designed to pass through ophthalmic structures without damaging the upper and lower layer of stroma. 	■ Ophthalmology	**Absorbable sutures** ■ Safil® Quick ■ Safil® ■ Novosyn® **Non-absorbable sutures** ■ Premilene® ■ PremiCron® ■ Dafilon® ■ Supramid ■ Dagrofil® ■ Virgin silk / Silkam®

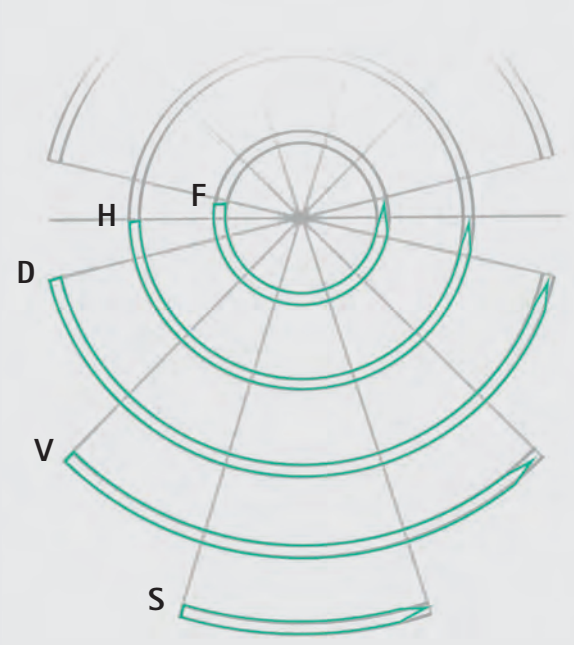
B. Braun needle nomenclature

To identify the different types of needles, B. Braun uses the following nomenclature:

A	B	C	12	D
Needle angle of curvature	Body type	Point type	Needle length	Wire size
S 1/8 circle	**R** round body	**T** trocar point	This refers to the distance between the needle point and the needle end, measured along the length of the needle in mm	**f** thin bodied needle
V 1/4 circle	**S** cutting needle	**N** blunt point		**s** heavy bodied needle
D 3/8 circle	**L** lancet needle	**S** sternum point		**ss** extra heavy bodied needle
H 1/2 circle		**C** short cutting point		**v** break-off needle
F 5/8 circle		**M** micro-point		**b** black needle
G straight		**MP** precision point		
P progressive curved		**m** micro needle		
J hook		**mV** micro vascular		
SK ski needle		**B** protection point		
Example:				
H	**R**	**C**	**26**	

HRC 26→1/2 circle round bodied needle with short cutting point, 26 mm long.

Needle angle of curvature

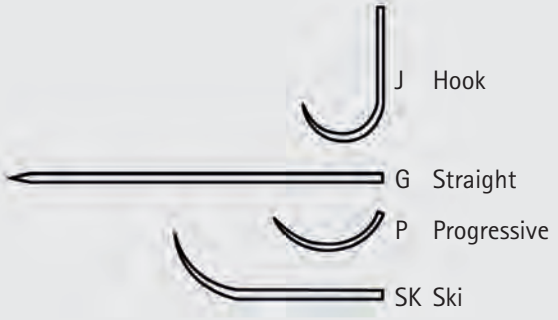


S 1/8 circle
V 1/4 circle
D 3/8 circle
H 1/2 circle
F 5/8 circle

"Take off" removable needle

In order to remove the needle from the suture without the aid of scissors, one must pull the suture taut and secure and grasp the needle in the needleholder. A straight tug of the needle-holder will then release the needle from the suture.

Others



B. Braun needles

Taper needle (micro vascular needle) ●

Micro vascular needle taper point

3/8 circle

	angle	length mm	diameter microns			angle	length mm	diameter microns	
DRmV 6b CV Pass	135°	6,4	140µ		**DRmV 10b** CV Pass	135°	9,3	200µ	
DRmV 8b CV Pass	135°	7,9	140µ		**DRmV 13b** CV Pass				

Progressive curved

	angle	length mm	diameter microns			angle	length mm	diameter microns	
PRmV 8b CV Pass	85° / 101°	7,9	200µ		**PRmV 10b** CV Pass	95° / 90°	9,3	200µ	

Taper needle (micro needle) ●

Micro-needle taper point

1/2 circle

	angle	length mm	diameter microns			angle	length mm	diameter microns	
HRm 4	180°	4,0	70µ		**HRm 8**	180°	7,8	140µ	
HRm 6	180°	6,5	200µ						

3/8 circle

	angle	length mm	diameter microns			angle	length mm	diameter microns	
DRm 3	135°	3,8	50µ		**DRm 6**	135°	6,4	140µ	
DRm 4	135°	4,0	70µ		**DRm 8**	135°	7,9	140µ	
DRm 4s	135°	4,0	140µ		**DRm 10b** CV Pass	135°	9,3	200µ	
DRm 5	135°	5,0	100µ						

Progressive curved

	angle	length mm	diameter microns			angle	length mm	diameter microns	
PRm 4	95° / 100°	4,0	70µ		**PRm 6**	100° / 95°	6,4	140µ	
PRm 5	100° / 90°	5,0	100µ						

Taper needle ●
Round bodied needle

1/2 circle

HR 6	
HR 8	
HR 10f	
HR 10	
HR 13f	
HR 13 **HR 13** "Take off"	
HR 13b CV Pass	
HR 13ss	
HR 17f	
HR 17 **HR 17** "Take off"	
HR 17b CV Pass	
HR 17s	
HR 18	
HR 20 **HR 20** "Take off"	
HR 20b CV Pass	
HR 22 **HR 22** "Take off"	
HR 22b CV Pass	
HR 22s **HR 22s** "Take off"	
HR 22ss **HR 22ss** "Take off"	
HR 23	
HR 26f	
HR 26 **HR 26** "Take off"	
HR 26b CV Pass	
HR 26s **HR 26s** "Take off"	
HR 26ss **HR 26ss** "Take off"	
HR 27	
HR 30 **HR 30** "Take off"	
HR 30s **HR 30s** "Take off"	
HR 30ss **HR 30ss** "Take off"	
HR 37 **HR 37** "Take off"	

B. Braun needles

Taper needle ●
Round bodied needle

1/2 circle

HR 37s
HR 37s "Take off"



HR 37ss
HR 37ss "Take off"



HR 40



HR 40s
HR 40s "Take off"



HR 40ss



HR 43
HR 43 "Take off"



HR 43s



HR 48
HR 48 "Take off"



HR 60



HR 65
HR 65 "Take off"



HR 70



HR 76



Taper needle ●
Round bodied needle

3/8 circle

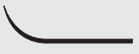
DR 6		DR 18	
DR 6s		DR 18b CV Pass	
DR 8f		DR 22	
DR 8		DR 26	
DR 10f		DR 32	
DR 10		DR 39	
DR 10s		DR 48 DR 48 "Take off"	
DR 12			
DR 13			
DR 13s			
DR 15			

5/8 circle

FR 10		FR 36	
FR 13		FR 40	
FR 17		FR 110	
FR 22			
FR 26			
FR 26s			

B. Braun needles

Taper needle ●
Round bodied needle

Hook			
JR 30		**JR 36ss**	
JR 30s			
JR 30ss		**JR 40s**	
Ski			
SKR 19		**SKR 26** **SKR 26** "Take off"	
Progressive curved			
PR 24			
Straight			
GR 19		**GR 65**	
GR 35		**GR 70**	
GR 51		**GR 75**	

Taper needle with short cutting point (micro vascular)
Round bodied micro vascular needle with short cutting point

3/8 circle

	angle	length mm	diameter microns	
DRCmV 10b CV Pass	135°	9,3	200µ	

Progressive curved

	angle	length mm	diameter microns	
PRCmV 10b CV Pass	95° / 90°	9,3	200µ	

Taper needle with short cutting point (micro)
Round bodied micro needle with short cutting point

3/8 circle

	angle	length mm	diameter microns			angle	length mm	diameter microns	
DRCm 3	135°	3,5	100µ		**DRCm 6**	135°	6,4	140µ	
DRCm 4	135°	4,2	140µ		**DRCm 8**	135°	7,9	140µ	
DRCm 5	135°	5,0	100µ		**DRCm 10b** CV Pass	135°	9,3	200µ	

Progressive curved

	angle	length mm	diameter microns			angle	length mm	diameter microns	
PRCm 4	95° / 110°	4,0	70µ		**PRCm 6**	100° / 95°	6,4	140µ	
PRCm 5	100° / 95°	5,1	100µ		**PRCm 10b** CV Pass	95° / 90°	9,3	200µ	

B. Braun needles

Taper needle with short cutting point
Round bodied needle with short cutting point

1/2 circle

HRC 10	
HRC 13	
HRC 17 **HRC 17** "Take off"	
HRC 17b CV Pass	
HRC 18	
HRC 18b CV Pass	
HRC 20	
HRC 20s	
HRC 22	
HRC 22b CV Pass	
HRC 26 **HRC 26** "Take off"	
HRC 26b CV Pass	
HRC 26s	
HRC 27	
HRC 27b CV Pass	

HRC 30	
HRC 30s	
HRC 37 **HRC 37** "Take off"	
HRC 37s	
HRC 37ss	
HRC 40	
HRC 40s	
HRC 43 **HRC 43** "Take off"	
HRC 43s **HRC 43s** "Take off"	

Taper needle with short cutting point

Round bodied needle with short cutting point

1/2 circle

HRC 48	
HRC 55	
HRC 80	

3/8 circle

DRC 6	
DRC 8	
DRC 10	
DRC 10s	
DRC 12	
DRC 13	
DRC 13s	
DRC 15	
DRC 18	
DRC 18b CV Pass	
DRC 22	
DRC 26	

B. Braun needles

Taper needle with short cutting point Round bodied needle with short cutting point			
5/8 circle			
FRC 10			
Hook			
JRC 30s			
Progressive curved			
PRC 10		**PRC 24**	
PRC 13			
Straight			
GRC 24			

Trocar needle ⊕
Round bodied needle with trocar point

1/2 circle

HRT 13	
HRT 17f	
HRT 17	
HRT 20s	
HRT 22	
HRT 26	
HRT 26s	
HRT 30	
HRT 30s	
HRT 37 HRT 37 "Take off"	
HRT 37s	
HRT 40	
HRT 40s	
HRT 43 HRT 43 "Take off"	
HRT 43s	
HRT 48	
HRT 55	
HRT 80	

B. Braun needles

Trocar needle ⊕
Round bodied needle with trocar point

3/8 circle			
DRT 10		**DRT 22**	
DRT 12		**DRT 26**	
DRT 15		**DRT 32**	
DRT 18			
5/8 circle			
FRT 17		**FRT 65**	
Straight			
GRT 40			

Trocar needle with micro point ⊕

Round bodied needle with trocar and micro point

3/8 circle

DRTM 8		**DRTM 12**	

Taper needle with sternum point ◬

Round bodied needle with sternum point

1/2 circle

HRS 40		**HRS 55**	
HRS 48		**HRS 60**	

B. Braun needles

Taper needle with blunt point ○
Round bodied needle with blunt point

1/2 circle

HRN 30	
HRN 35 HRN 35 "Take off"	
HRN 40	
HRN 45	
HRN 48	
HRN 50 HRN 50 "Take off"	
HRN 50s	
HRN 60	
HRN 65	
HRN 75	
HRN 85	

3/8 circle

DRN 16	
DRN 25	
DRN 64	

Straight

GRN 12	

Taper needle with protection point ○
Round bodied needle with protection point

1/2 circle

HRB 26
HRB 26 "Take off"



HRB 37s
HRB 37s "Take off"



HRB 40s
HRB 40s "Take off"



HRB 48
HRB 48 "Take off"



HRB 65



B. Braun needles

Reverse cutting needle ▼

1/2 circle

HS 9	
HS 15	
HS 17s "Take off"	
HS 17ss "Take off"	
HS 18	
HS 21 **HS 21** "Take off"	
HS 23 **HS 23** "Take off"	
HS 23ss **HS 23ss** "Take off"	
HS 26	
HS 26s **HS 26s** "Take off"	
HS 26ss **HS 26ss** "Take off"	
HS 30 **HS 30** "Take off"	
HS 37	
HS 37s	
HS 37ss **HS 37ss** "Take off"	

HS 40	
HS40s **HS40s** "Take off"	
HS 40ss **HS 40ss** "Take off"	
HS 48f	
HS 48 **HS 48** "Take off"	
HS 55	
HS 60	
HS 120	

Reverse cutting needle ▼

3/8 circle

DS 9	
DS 12	
DS 16f	
DS 16	
DS 19f	
DS 19	
DS 24 **DS 24** "Take off"	
DS 30 **DS 30** "Take off"	
DS 35	
DS 39	

DS 45	
DS 48	
DS 60	
DS 76	
DS 90	
DS 100	

5/8 circle

FS 25	

B. Braun needles

Reverse cutting needle ▼

Straight

GS 13		GS 60	
GS 20		GS 65	
GS 25		GS 65v	
GS 40		GS 75	
GS 45		GS 81	
GS 51		GS 90v	
GS 51v			

Reverse cutting needle with precision point ▽			
1/2 circle			
HSMP 7		HSMP 18	
HSMP 9		HSMP 23	
HSMP 12			
HSMP 15			
3/8 circle			
DSMP 6		DSMP 19	
DSMP 7		DSMP 24	
DSMP 9		DSMP 24s	
DSMP 11		DSMP 30	
DSMP 13		DSMP 35	
DSMP 15		DSMP 39	
DSMP 16			
DSMP 16s			
Progressive curved			
PSMP 16			

B. Braun needles

Lancet needle (micro)
Micro-lancet needle

1/2 circle

	angle	length mm	diameter microns			angle	length mm	diameter microns	
HLm 6	160°	5,6	150µ		**HLm 8**	175°	8,0	200µ	
HLm 6s	175°	6,0	200µ						

3/8 circle

	angle	length mm	diameter microns			angle	length mm	diameter microns	
DLm 4	135°	4,0	125µ		**DLm 6**	140°	6,1	150µ	
DLm 5	140°	4,9	150µ		**DLm 6s**	137°	6,6	200µ	

1/4 circle

	angle	length mm	diameter microns	
VLm 6s	97°	6,6	200µ	

1/8 circle

	angle	length mm	diameter microns	
SLm 6	44°	6,2	150µ	

Progressive curved

	angle	length mm	diameter microns	
PLm 5	90° / 55°	4,8	150µ	

Straight

	angle	length mm	diameter microns	
GLm 16	-	16,0	150µ	

Lancet needle with micro point ▽			
1/2 circle			
HLM 6		**HLM 8**	
1/4 circle			
VLM 6		**VLM 10**	
VLM 8			