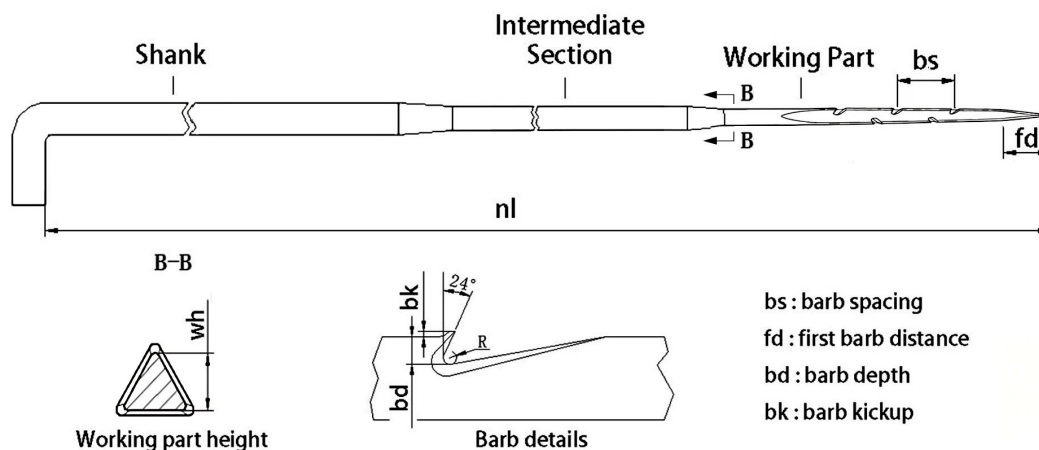


Conical Needle Ordering Code



Needle Code: 15X16X32X3.5 M332 D53384

Code	Description	Value
15	Shank diameter	15G=1.83mm
16	Intermediate section diameter	16G=1.55mm
32	Working part height (wh)	32G=0.70mm
3.5	Needle length (nl)	3.5 inch=88.9mm
M	Barb spacing (bs)	M=4.80mm
3	Barb quantity on the 1st edge	3 barbs
3	Barb quantity on the 2nd edge	3 barbs
2	Barb quantity on the 3rd edge	2 barbs
D	Manufacturer Brand	Doer
5	Needle type	Conical needle
3	Barb style	style 3
3	First barb distance (fd)	6.36mm
8	Barb depth (bd)	0.08/0.11/0.12mm
4	Barb kickup (bk)	0.02/0.02/0.02mm

Needle Type Code List: 15X16X32X3.5 M332 D53384

Code	Needle Type	Code	Needle Type
4	Cross-Star needle	7	Tri-Star needle
5	Conical needle	8	Vario barb needle
6	Teardrop needle	9	Paper machine felt needle
K	Open-Style barb needle		

Conical Needle List

Conical needle is developed from standard triangular needle. The working part cross-section is also an equilateral triangle. The triangle height is gradually bigger from the point to the end of the working part.

Conical needle is stronger and suitable in the pre-needling. They are perfect for needling of natural and regenerated fibers, high-tenacity fibers such as para-aramid fibers. The gauge could be 18G to 43G.

No.	Item No.	Needle Category	fd (mm)	bd (mm)	bk (mm)
1	15X16X32X3 M332 D53381	Conical Needle, 3.0 inch	6.36	0.08/0.11/0.12	0.005/0.005/0.005
2	15X16X36X3 R222 D53362	Conical Needle, 3.0 inch	6.36	0.06/0.08	0.01/0.02
3	15X16X36X3 M222 D52182	Conical Needle, 3.0 inch	3.18	0.08/0.11/0.12	0.01/0.02/0.03
4	15X16X36X3 M332 D53312	Conical Needle, 3.0 inch	6.36	0.11/0.12/0.13	0.01/0.01/0.01
5	15X17X36X3 C111 D53150	Conical Needle, 3.0 inch	3.18	0.05	0
6	15X30X36X3 R222 D53163	Conical Needle, 3.0 inch	3.18	0.06/0.08	0.015/0.02
7	15X16X25X3.5 M332 D53311	Conical Needle, 3.5 inch	6.36	0.11/0.14/0.15	0.005/0.005/0.005
8	15X16X32X3.5 M332 D53384	Conical Needle, 3.5 inch	6.36	0.08/0.11/0.12	0.02/0.02/0.02
9	15X16X32X3.5 R222 D53174	Conical Needle, 3.5 inch	3.18	0.07/0.08	0.02/0.02
10	15X16X36X3.5 M332 D53382	Conical Needle, 3.5 inch	6.36	0.08/0.11/0.12	0.01/0.02/0.03
11	15X17X36X3.5 R222 D53163	Conical Needle, 3.5 inch	3.18	0.06/0.08	0.015/0.02
12	15X17X40X3.5 M222 D53152	Conical Needle, 3.5 inch	3.18	0.05/0.06	0.01/0.015
13	15X16X40X3.5 R222 D53353	Conical Needle, 3.5 inch	6.36	0.05/0.06	0.015/0.02
14	15X16X36X3.5 M333 D52294	Conical Needle, 3.5 inch	4.8	0.09/0.10/0.11	0.02/0.03/0.04