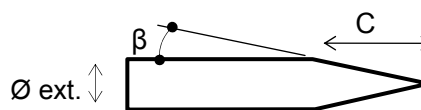
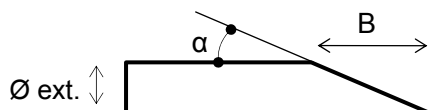
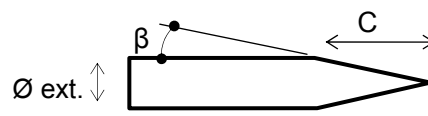
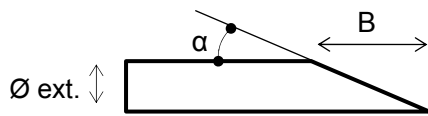




LONGUEURS DES POINTES DE NOS AIGUILLES A INJECTION
POINT LENGTHS OF OUR INJECTION NEEDLES
SPITZEN-LÄNGEN UNSERER INJEKTIONS-KANÜLEN



| Ø ext. [mm] | Biseau moyen Regular bevel Normale Spitze | | Biseau court Short bevel Kurze Spitze | | Biseau extra-court Very short bevel Extrakurze Spitze | | Trocart & crayon Trocar & pencil point Trokar & konische | |
|----------------|---|-----------------|---|-----------------|---|-----------------|--|----------------|
| | B [mm] | α [~] | B [mm] | α [~] | B [mm] | α [~] | C [mm] | β [~] |
| 0.20 | 0.8 | 14° | 0.6 | 18° | 0.3 | 34° | 0.6 | 9° |
| 0.25 | 1.0 | 14° | 0.7 | 20° | 0.4 | 32° | 0.7 | 10° |
| 0.30 | 1.2 | 14° | 0.9 | 18° | 0.5 | 31° | 0.9 | 9° |
| 0.35 | 1.4 | 14° | 1.0 | 19° | 0.6 | 30° | 1.0 | 10° |
| 0.40 | 1.6 | 14° | 1.2 | 18° | 0.7 | 30° | 1.2 | 9° |
| 0.45 | 1.8 | 14° | 1.3 | 19° | 0.8 | 29° | 1.3 | 10° |
| 0.50 | 2.0 | 14° | 1.5 | 18° | 0.9 | 29° | 1.5 | 9° |
| 0.55 | 2.2 | 14° | 1.6 | 19° | 1.0 | 29° | 1.6 | 10° |
| 0.60 | 2.4 | 14° | 1.8 | 18° | 1.0 | 31° | 1.8 | 9° |
| 0.65 | 2.6 | 14° | 2.0 | 18° | 1.1 | 31° | 2.0 | 9° |
| 0.70 | 2.8 | 14° | 2.2 | 18° | 1.2 | 30° | 2.2 | 9° |
| 0.80 | 3.2 | 14° | 2.4 | 18° | 1.3 | 32° | 2.4 | 9° |
| 0.90 | 3.6 | 14° | 2.7 | 18° | 1.5 | 31° | 2.7 | 9° |
| 1.00 | 4.0 | 14° | 3.0 | 18° | 1.7 | 30° | 3.0 | 9° |
| 1.10 | 4.4 | 14° | 3.3 | 18° | 1.9 | 30° | 3.3 | 9° |
| 1.20 | 4.8 | 14° | 3.3 | 20° | 2.0 | 31° | 3.3 | 10° |
| 1.30 | 5.2 | 14° | 3.5 | 20° | 2.2 | 31° | 3.5 | 11° |
| 1.40 | 5.6 | 14° | 3.8 | 20° | 2.4 | 30° | 3.8 | 10° |
| 1.50 | 5.6 | 15° | 3.8 | 22° | 2.6 | 30° | 3.8 | 11° |



| $\varnothing \text{ ext.}$ [mm] | Biseau moyen Regular bevel Normale Spitze | | Biseau court Short bevel Kurze Spitze | | Biseau extra-court Very short bevel Extrakurze Spitze | | Trocart & crayon Trocar & pencil point Trokar & konische | |
|------------------------------------|---|-----------------|---|-----------------|---|-----------------|--|----------------|
| | B [mm] | α [~] | B [mm] | α [~] | B [mm] | α [~] | C [mm] | β [~] |
| 1.60 | 5.9 | 15° | 4.0 | 22° | 2.6 | 32° | 4.0 | 11° |
| 1.70 | 5.9 | 16° | 4.0 | 23° | 2.7 | 32° | 7.5 | 12° |
| 1.80 | 6.2 | 16° | 4.2 | 23° | 2.8 | 33° | 4.2 | 12° |
| 1.90 | 6.2 | 17° | 4.2 | 24° | 3.0 | 32° | 7.8 | 13° |
| 2.00 | 6.5 | 17° | 4.4 | 24° | 3.0 | 34° | 8.0 | 13° |
| 2.10 | 6.5 | 18° | 4.7 | 24° | 3.1 | 34° | 4.7 | 13° |
| 2.20 | 6.8 | 18° | 4.9 | 24° | 3.2 | 35° | 4.9 | 13° |
| 2.30 | 7.1 | 18° | 5.1 | 24° | 3.4 | 34° | 5.1 | 13° |
| 2.40 | 7.3 | 18° | 5.3 | 24° | 3.5 | 34° | 5.3 | 13° |
| 2.50 | 7.6 | 18° | 5.6 | 24° | 3.7 | 34° | 5.6 | 13° |
| 2.60 | 8.0 | 18° | 5.8 | 24° | 3.8 | 34° | 5.8 | 13° |
| 2.80 | 8.6 | 18° | 6.2 | 24° | 4.1 | 34° | 6.2 | 13° |
| 3.00 | 9.2 | 18° | 6.7 | 24° | 4.4 | 34° | 6.7 | 13° |
| 3.50 | 10.0 | 19° | 7.9 | 24° | 5.2 | 34° | 7.9 | 12° |
| 4.00 | 11.0 | 20° | 9.0 | 24° | 5.9 | 34° | 9.0 | 13° |
| 4.50 | 12.1 | 20° | 9.8 | 25° | 6.5 | 35° | 9.8 | 13° |
| 5.00 | 13.2 | 21° | 10.5 | 25° | 7.1 | 35° | 10.5 | 13° |
| 5.50 | 14.3 | 21° | 11.2 | 26° | 7.7 | 36° | 11.2 | 14° |
| 6.00 | 15.3 | 21° | 11.8 | 27° | 8.3 | 36° | 11.8 | 14° |
| 6.50 | 16.2 | 22° | 12.4 | 28° | 8.8 | 36° | 12.4 | 15° |
| 7.00 | 17.1 | 22° | 12.9 | 28° | 9.3 | 37° | 12.9 | 15° |
| 7.50 | 18.0 | 23° | 13.4 | 29° | 9.8 | 37° | 13.4 | 16° |
| 8.00 | 18.8 | 23° | 13.9 | 30° | 10.2 | 38° | 13.9 | 16° |