

F63

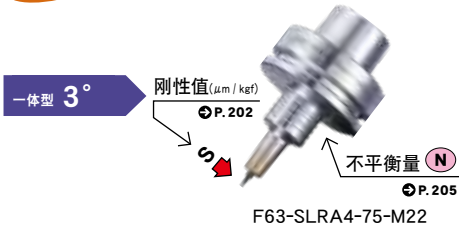
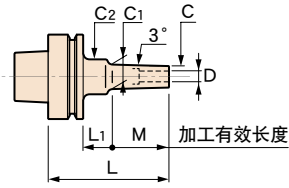


Fig. 1



■ 注意事项

- 无附带冷却液导管。需要使用的客户，请与敝司联系。
- 刀具安装…插入刀具时，请务必将刀具插入比安全记号更深的位置。

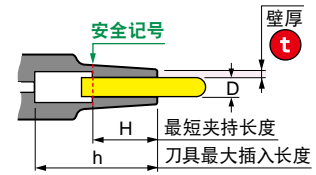
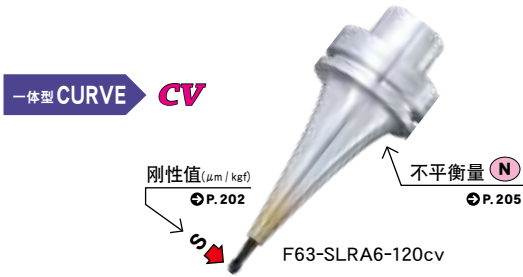
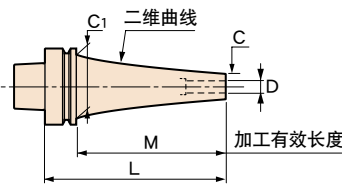


Fig. 2



HEATROBO电磁 1200S (HRD-01S-230AS) 电磁式加热器对应表

[○] 可加热 [×] 不可加热
[▲] 垫高加热器后可进行加热 →P.201
[★] 使用线圈和标准时不同 请使用2号加热线圈

| 型号 | Fig. | φD | φC | t | L | M | L1 | φC1 | φC2 | H | h | Kg | N | S | 缩略图 | | | |
|--------------------------|------|----|-----|------|-----|-----|------|------|-----|----|-----|-----|-----|-----|-----|----|-----|------|
| F63-SLSA3- 95-M42 | 1 | 3 | 6 | 1.5 | 95 | 42 | 27 | 10.4 | 25 | 9 | 78 | 0.7 | 1.8 | 9.1 | ○ | 2 | | |
| -SLRA3- 75-M22 | 1 | 3 | 7.5 | 2.25 | 75 | 22 | 27 | 9.8 | 25 | 9 | 54 | 0.7 | 1.8 | 2.8 | ○ | 4 | | |
| - 95-M42 | | | | | 95 | 42 | 11.9 | 78 | | | 1.9 | | | | | | 5.3 | |
| -SLFB3- 75-M22 | 1 | 3 | 9.5 | 3.25 | 75 | 22 | 27 | 11.8 | 25 | 9 | 58 | 0.7 | 1.9 | 1.9 | ○ | 6 | | |
| - 95-M42 | | | | | 95 | 42 | 13.9 | 78 | | | 0.8 | | | | | | 2 | 3.2 |
| -120-M67 | | | | | 120 | 67 | 16.5 | 103 | | | | | | | | | 5.4 | |
| -120-M67 | | | | | 120 | 67 | 16.5 | 103 | | | | | | | | | 5.4 | |
| F63-SLSA4- 95-M42 | 1 | 4 | 7 | 1.5 | 95 | 42 | 27 | 11.4 | 25 | 12 | 78 | 0.7 | 1.9 | 7.2 | ○ | 9 | | |
| -SLRA4- 75-M22 | 1 | 4 | 10 | 3 | 75 | 22 | 27 | 12.3 | 25 | 12 | 58 | 0.7 | 1.8 | 1.7 | ○ | 10 | | |
| - 95-M42 | | | | | 95 | 42 | 14.4 | 78 | | | 0.8 | | | | | | 1.9 | 3.1 |
| -SLFB4- 75-M22 | 1 | 4 | 12 | 4 | 75 | 22 | 27 | 14.3 | 25 | 12 | 58 | 0.7 | 2 | 1.3 | ○ | 12 | | |
| - 95-M42 | | | | | 95 | 42 | 16.4 | 78 | | | 0.8 | | | | | | 2.2 | |
| -120-M67 | | | | | 120 | 67 | 19 | 103 | | | | | | | | | 2.1 | 3.6 |
| -120-M67 | | | | | 120 | 67 | 19 | 103 | | | | | | | | | 2.1 | 3.6 |
| -SLSA4- 90 CV | 2 | 4 | 7 | 1.5 | 90 | 64 | — | 53 | — | 12 | 65 | 0.9 | 2.7 | 1.8 | ○ | 15 | | |
| -120 CV | | | | | 120 | 94 | 95 | | | | 1 | | | | | | 3.6 | 2.7 |
| -150 CV | | | | | 150 | 124 | 125 | | | | 1.2 | | | | | | 4.4 | 4 |
| -180 CV | | | | | 180 | 154 | 154 | | | | 1.3 | | | | | | 5 | 6.6 |
| -210 CV | | | | | 210 | 184 | 185 | | | | | | | | | | 5.3 | 11.6 |
| -240 CV | | | | | 240 | 214 | 214 | | | | 1.6 | | | | | | 6.5 | 14 |
| -270 CV | | | | | 270 | 244 | 245 | | | | 1.9 | | | | | | 8.8 | 11.9 |
| -300 CV | | | | | 300 | 274 | 275 | | | | 2 | | | | | | 9.7 | 15.9 |
| -SLRA4-120 CV | 2 | 4 | 10 | 3 | 120 | 94 | — | 53 | — | 12 | 95 | 1 | 3.6 | 1.9 | ○ | 23 | | |
| -150 CV | | | | | 150 | 124 | 125 | | | | 1.1 | | | | | | 4.4 | 2.9 |
| -180 CV | | | | | 180 | 154 | 155 | | | | 1.4 | | | | | | 6 | 3.3 |
| -210 CV | | | | | 210 | 184 | 185 | | | | 1.5 | | | | | | 6.2 | 5.6 |
| -210 CV | | | | | 210 | 184 | 185 | | | | 1.5 | | | | | | 6.2 | 5.6 |
| F63-SLSA6- 95-M42 | 1 | 6 | 9 | 1.5 | 95 | 42 | 27 | 13.4 | 25 | 18 | 78 | 0.7 | 1.9 | 4.8 | ○ | 28 | | |
| -SLSB6- 95-M42 | 1 | 6 | 10 | 2 | 95 | 42 | 27 | 14.4 | 25 | 18 | 78 | 0.7 | 1.9 | 3.7 | ○ | 29 | | |
| -SLRA6- 75-M22 | 1 | 6 | 12 | 3 | 75 | 22 | 27 | 14.3 | 25 | 18 | 58 | 0.7 | 1.8 | 1.3 | ○ | 30 | | |
| - 95-M42 | | | | | 95 | 42 | 16.4 | 78 | | | 0.8 | | | | | | 1.9 | 2.4 |
| -SLFB6- 75-M22 | 1 | 6 | 14 | 4 | 75 | 22 | 27 | 16.3 | 32 | 18 | 58 | 0.8 | 2.2 | 1 | ○ | 32 | | |



特点
加热装置
一体型 3°
一体型 CURVE
一体型系列
2 体型系列
UNO
强力型 热敏刀嘴
Z
直柄延长杆
相关商品
周边机器
参考资料

| 型号 | Fig. | φD | φC | t | L | M | L ₁ | φC ₁ | φC ₂ | H | h | Kg | N | S | | |
|---------------------------|------|----|----|-----|-----|-----|----------------|-----------------|-----------------|----|-----|-----|------|------|---|----|
| F63-SLSA 6- 90 CV | 2 | 6 | 9 | 1.5 | 90 | 64 | — | 53 | — | 18 | 65 | 0.9 | 2.8 | 1.6 | ○ | 33 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1 | 3.6 | 2.3 | | 34 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.2 | 4.4 | 3.6 | | 35 |
| -180 CV | | | | | 180 | 154 | | | | | 154 | 1.3 | 5.2 | 5.7 | | 36 |
| F63 -210 CV | | | | | 210 | 184 | | | | | 184 | 1.5 | 6.4 | 7.3 | | 37 |
| -240 CV | | | | | 240 | 214 | | | | | 214 | 1.6 | 6.7 | 12 | | 38 |
| -270 CV | | | | | 270 | 244 | | | | | 245 | 2 | 9.7 | 8.5 | ▲ | 39 |
| -300 CV | | | | | 300 | 274 | | | | | 275 | 2.2 | 10.6 | 11.7 | | 40 |
| -SLRA 6- 90 CV | 2 | 6 | 13 | 3.5 | 90 | 64 | — | 53 | — | 18 | 65 | 1 | 3.4 | 0.8 | ★ | 41 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1.2 | 4.3 | 1.2 | | 42 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.3 | 5.2 | 1.9 | ○ | 43 |
| -180 CV | | | | | 180 | 154 | | | | | 155 | 1.4 | 6.1 | 2.8 | | 44 |
| -210 CV | | | | | 210 | 184 | | | | | 185 | 1.5 | 6.6 | 4.8 | | 45 |
| -SLFA 6- 90 CV | 2 | 6 | 13 | 3.5 | 90 | 64 | — | 53 | — | 18 | 65 | 1 | 3.4 | 0.8 | ★ | 46 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1.2 | 4.3 | 1.2 | | 47 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.3 | 5.2 | 1.9 | ○ | 48 |
| -180 CV | | | | | 180 | 154 | | | | | 155 | 1.4 | 6.1 | 2.8 | | 49 |
| -210 CV | | | | | 210 | 184 | | | | | 185 | 1.5 | 6.6 | 4.8 | | 50 |
| F63-SLSA 8- 95-M42 | 1 | 8 | 11 | 1.5 | 95 | 42 | 27 | 15.4 | 25 | 24 | 78 | 0.7 | 1.9 | 3.4 | ○ | 51 |
| -SLSB 8- 95-M42 | 1 | 8 | 13 | 2.5 | 95 | 42 | 27 | 17.4 | 32 | 24 | 78 | 0.8 | 2.3 | 2.1 | ○ | 52 |
| -SLRA 8- 75-M22 | 1 | 8 | 14 | 3 | 75 | 22 | 27 | 16.3 | 25 | 24 | 58 | 0.7 | 1.9 | 1.1 | ○ | 53 |
| - 95-M42 | | | | | 95 | 42 | | 18.4 | | | 78 | 0.8 | | 2 | | 54 |
| -SLFB 8- 75-M22 | 1 | 8 | 18 | 5 | 75 | 22 | 27 | 20.3 | 32 | 24 | 58 | 0.8 | 2.2 | 0.7 | × | 55 |
| -SLSA 8- 90 CV | 2 | 8 | 11 | 1.5 | 90 | 64 | — | 53 | — | 24 | 65 | 0.9 | 2.9 | 1.4 | ○ | 56 |
| -120 CV | | | | | 120 | 94 | | | | | 94 | 1.1 | 3.8 | 2 | | 57 |
| -150 CV | | | | | 150 | 124 | | | | | 124 | 1.3 | 5 | 2.7 | | 58 |
| -180 CV | | | | | 180 | 154 | | | | | 155 | | 5.2 | 5 | | 59 |
| -210 CV | | | | | 210 | 184 | | | | | 184 | 1.5 | 6.6 | 6.6 | ▲ | 60 |
| -240 CV | | | | | 240 | 214 | | | | | 214 | 1.8 | 7.8 | 8.3 | | 61 |
| -270 CV | | | | | 270 | 244 | | | | | 244 | 2.1 | 10.7 | 6.9 | | 62 |
| -300 CV | | | | | 300 | 274 | | | | | 274 | 2.3 | 11.9 | 8.9 | | 63 |
| -SLRA 8- 90 CV | 2 | 8 | 16 | 4 | 90 | 64 | — | 53 | — | 24 | 65 | 1 | 3.4 | 0.7 | ○ | 64 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1.2 | 4.6 | 1 | | 65 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.4 | 5.9 | 1.4 | | 66 |
| -180 CV | | | | | 180 | 154 | | | | | 155 | 1.6 | 7 | 2 | | 67 |
| -210 CV | | | | | 210 | 184 | | | | | 185 | | 7.6 | 3.5 | | 68 |
| -SLFA 8- 90 CV | 2 | 8 | 16 | 4 | 90 | 64 | — | 53 | — | 24 | 65 | 1 | 3.4 | 0.7 | ○ | 69 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1.2 | 4.6 | 1 | | 70 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.4 | 5.9 | 1.4 | | 71 |
| -180 CV | | | | | 180 | 154 | | | | | 155 | 1.6 | 7 | 2 | | 72 |
| -210 CV | | | | | 210 | 184 | | | | | 185 | | 7.6 | 3.5 | | 73 |
| F63-SLSA10- 95-M42 | 1 | 10 | 13 | 1.5 | 95 | 42 | 27 | 17.4 | 25 | 30 | 74 | 0.8 | 2 | 2.6 | ○ | 74 |
| -SLSB10- 95-M42 | 1 | 10 | 16 | 3 | 95 | 42 | 27 | 20.4 | 32 | 30 | 74 | 0.8 | 2.3 | 1.4 | ○ | 75 |
| -SLRA10- 75-M22 | 1 | 10 | 16 | 3 | 75 | 22 | 27 | 18.3 | 25 | 30 | 54 | 0.8 | 1.9 | 1 | ○ | 76 |
| -SLFB10- 75-M22 | 1 | 10 | 22 | 6 | 75 | 22 | 27 | 24.3 | 32 | 30 | 54 | 0.8 | 2.3 | 0.6 | × | 77 |
| F63-SLSA10- 90 CV | 2 | 10 | 13 | 1.5 | 90 | 64 | — | 53 | — | 30 | 65 | 0.9 | 2.9 | 1.3 | ○ | 78 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1.2 | 4.4 | | | 79 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.3 | 5.2 | 2.2 | | 80 |
| -180 CV | | | | | 180 | 154 | | | | | 154 | 1.5 | 6.3 | 3.4 | | 81 |
| -210 CV | | | | | 210 | 184 | | | | | 184 | 1.6 | 6.8 | 6 | | 82 |
| -240 CV | | | | | 240 | 214 | | | | | 212 | 2 | 9.4 | 5.8 | ▲ | 83 |
| -270 CV | | | | | 270 | 244 | | | | | 244 | 2.1 | 10.9 | 6.6 | | 84 |
| -300 CV | | | | | 300 | 274 | | | | | 274 | 2.3 | 12.2 | 8.5 | | 85 |



| 型号 | Fig. | φD | φC | t | L | M | L ₁ | φC ₁ | φC ₂ | H | h | Kg | N | S | HRD-01S | 缩略图 |
|----------------------------|------|-----|-----|-----|------|-----|----------------|-----------------|-----------------|----|-----|------|------|-----|---------|-----|
| F63-SLRA10- 90 CV | 2 | 10 | 19 | 4.5 | 90 | 64 | — | 53 | — | 30 | 65 | 1 | 3.5 | 0.6 | × | 86 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1.2 | 4.6 | 0.9 | ○ | 87 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.4 | 5.8 | 1.4 | ○ | 88 |
| -180 CV | | | | | 180 | 154 | | | | | 155 | 1.6 | 7.2 | 2 | ○ | 89 |
| -210 CV | | | | | 210 | 184 | | | | | 185 | | 8 | 3.1 | ○ | 90 |
| -SLFA10- 90 CV | 2 | 10 | 19 | 4.5 | 90 | 64 | — | 53 | — | 30 | 65 | 1 | 3.5 | 0.6 | × | 91 |
| -120 CV | | | | | 120 | 94 | | | | | 95 | 1.2 | 4.6 | 0.9 | ○ | 92 |
| -150 CV | | | | | 150 | 124 | | | | | 125 | 1.4 | 5.8 | 1.4 | ○ | 93 |
| -180 CV | | | | | 180 | 154 | | | | | 155 | 1.6 | 7.2 | 2 | ○ | 94 |
| -210 CV | | | | | 210 | 184 | | | | | 185 | | 8 | 3.1 | ○ | 95 |
| F63-SLSA12- 95-M42 | 1 | 12 | 15 | 1.5 | 95 | 42 | 27 | 19.4 | 32 | 30 | 74 | 0.8 | 2.3 | 1.8 | ○ | 96 |
| -SLSB12- 95-M42 | 1 | 12 | 19 | 3.5 | 95 | 42 | 27 | 23.4 | 32 | 30 | 74 | 0.8 | 2.4 | 1.1 | ○ | 97 |
| -SLRA12- 75-M22 | 1 | 12 | 20 | 4 | 75 | 22 | 27 | 22.3 | 25 | 30 | 54 | 0.9 | 2.1 | 0.8 | ○ | 98 |
| -SLFB12- 75-M22 | 1 | 12 | 26 | 7 | 75 | 22 | 27 | 28.3 | 42 | 30 | 54 | 0.9 | 3 | 0.4 | × | 99 |
| -SLSA12- 90 CV | 2 | 12 | 15 | 1.5 | 90 | 64 | — | 53 | — | 30 | 64 | 1 | 3.4 | 0.9 | ○ | 100 |
| -120 CV | | | | | 120 | 94 | | | | | 94 | 1.2 | 4.7 | 1.2 | ○ | 101 |
| -150 CV | | | | | 150 | 124 | | | | | 124 | 1.3 | 5.2 | 2.4 | ○ | 102 |
| -180 CV | | | | | 180 | 154 | | | | | 154 | 1.5 | 6.5 | 3.3 | ○ | 103 |
| -210 CV | | | | | 210 | 184 | | | | | 184 | 1.7 | 7.7 | 4.6 | ○ | 104 |
| -240 CV | | | | | 240 | 214 | | | | | 212 | 2 | 9.6 | 5.5 | ▲ | 105 |
| -270 CV | | | | | 270 | 244 | | | | | 244 | 2.2 | 11.8 | 5.4 | ▲ | 106 |
| -SLRA12- 90 CV | 2 | 12 | 22 | 5 | 90 | 64 | — | 53 | — | 30 | 64 | 1 | 3.6 | 0.6 | × | 107 |
| -120 CV | | | | | 120 | 94 | | | | | 94 | 1.3 | 5.5 | 0.7 | × | 108 |
| -150 CV | | | | | 150 | 124 | | | | | 124 | 1.5 | 6.7 | 1.1 | ○ | 109 |
| -180 CV | | | | | 180 | 154 | | | | | 154 | 1.6 | 7.5 | 1.8 | ○ | 110 |
| -210 CV | | | | | 210 | 184 | | | | | 184 | 1.7 | 8.5 | 2.8 | ○ | 111 |
| F63-SLFA12- 90 CV | 2 | 12 | 22 | 5 | 90 | 64 | — | 53 | — | 30 | 64 | 1 | 3.6 | 0.6 | × | 112 |
| -120 CV | | | | | 120 | 94 | | | | | 94 | 1.3 | 5.5 | 0.7 | × | 113 |
| -150 CV | | | | | 150 | 124 | | | | | 124 | 1.5 | 6.7 | 1.1 | ○ | 114 |
| -180 CV | | | | | 180 | 154 | | | | | 154 | 1.6 | 7.5 | 1.8 | ○ | 115 |
| -210 CV | | | | | 210 | 184 | | | | | 184 | 1.7 | 8.5 | 2.8 | ○ | 116 |
| F63-SLFB16- 75-M22 | 1 | 16 | 32 | 8 | 75 | 22 | 27 | 34.3 | 42 | 32 | 54 | 1 | 3.1 | 0.3 | ○ | 117 |
| -SLSB16- 90 CV | 2 | 16 | 21 | 2.5 | 90 | 64 | — | 53 | — | 32 | 62 | 1.1 | 3.9 | 0.6 | ○ | 118 |
| -120 CV | | | | | 120 | 94 | | | | | 92 | 1.4 | 5.8 | 0.8 | ○ | 119 |
| -150 CV | | | | | 150 | 124 | | | | | 122 | 1.5 | 6.9 | 1.5 | ○ | 120 |
| -180 CV | | | | | 180 | 154 | | | | | 152 | 1.9 | 8.8 | 1.9 | ○ | 121 |
| -210 CV | | | | | 210 | 184 | | | | | 182 | 2 | 9.9 | 3 | ○ | 122 |
| -240 CV | | | | | 240 | 214 | | | | | 212 | 2.3 | 11.8 | 3.7 | ○ | 123 |
| -270 CV | | | | | 270 | 244 | | | | | 242 | 2.7 | 13.7 | 4.6 | ○ | 124 |
| F63-SLFB20- 75-M22* | 1 | 20 | 38 | 9 | 75 | 22 | 27 | 40.3 | 50 | 40 | 53 | 1.1 | 3.6 | 0.3 | ○ | 125 |
| -SLSB20- 90 CV | 2 | 20 | 26 | 3 | 90 | 64 | — | 51 | — | 40 | 62 | 1.1 | 4.2 | 0.5 | ○ | 126 |
| -120 CV | | | | | 120 | 94 | | 53 | | | 92 | 1.4 | 6.2 | 0.8 | ○ | 127 |
| -150 CV | | | | | 150 | 124 | | 122 | | | 1.6 | 7.6 | 1.3 | ○ | 128 | |
| -180 CV | | | | | 180 | 154 | | 152 | | | 2 | 9.6 | 1.8 | ○ | 129 | |
| -210 CV | | | | | 210 | 184 | | 182 | | | 2.3 | 11.6 | 2.3 | ○ | 130 | |
| -240 CV | | | | | 240 | 214 | | 212 | | | 2.6 | 13.7 | 3 | ○ | 131 | |
| -270 CV | 270 | 244 | 242 | 3.1 | 16.3 | 3.4 | ○ | 132 | | | | | | | | |
| F63-SLFB25- 75-M22 | 1 | 25 | 45 | 10 | 75 | 22 | 27 | 47.3 | 50 | 45 | 53 | 1.1 | 3.7 | 0.2 | ○ | 133 |



※1 使用电磁5000S加热器对SLFB20加热时，所使用加热线圈号码不同。请使用加热线圈No.4进行加热。

■ 主轴锥孔用 清洁工具
STAR DUST

型号
CLT-F63-G2

◎ P.194



DMG MORI NVD4000 DCG
NV4000 DCG

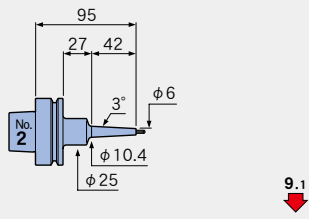
MAKINO

V33i / V56i

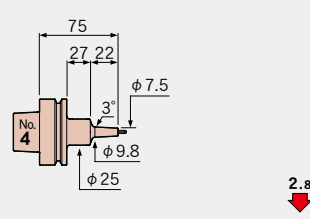


φ3

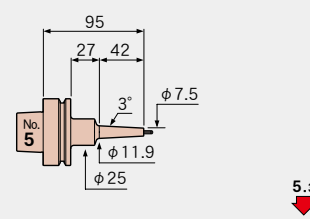
F63-SLSA3-95-M42



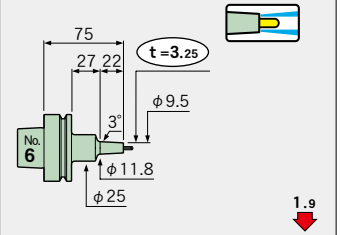
F63-SLRA3-75-M22



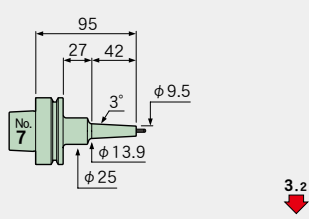
F63-SLRA3-95-M42



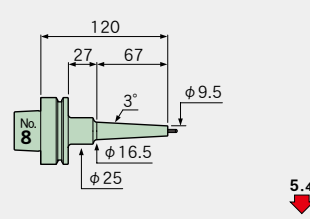
F63-SLFB3-75-M22



F63-SLFB3-95-M42

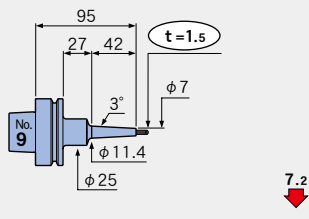


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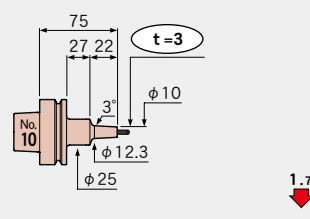


φ4

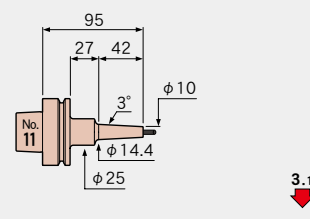
F63-SLSA4-95-M42



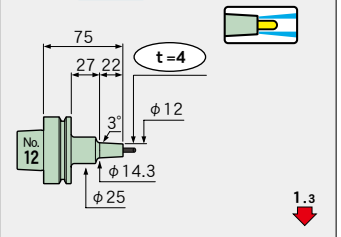
F63-SLRA4-75-M22



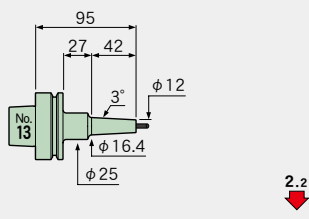
F63-SLRA4-95-M42



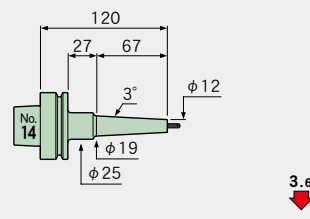
F63-SLFB4-75-M22



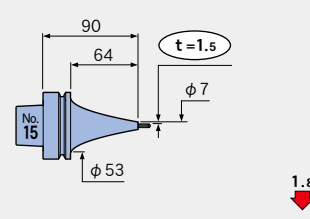
F63-SLFB4-95-M42



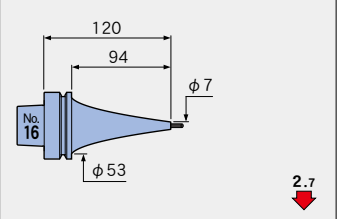
F63-SLFB4-120-M67



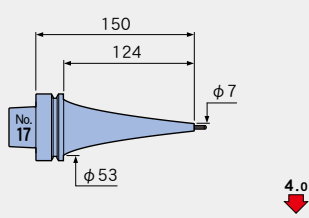
F63-SLSA4-90 CV



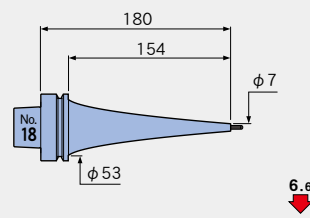
F63-SLSA4-120 CV



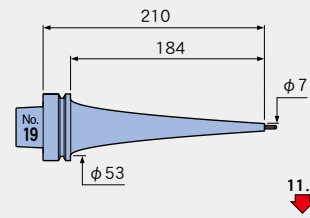
F63-SLSA4-150 CV



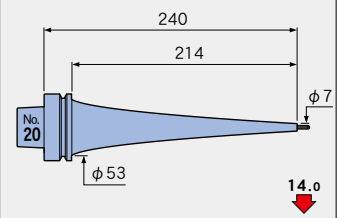
F63-SLSA4-180 CV



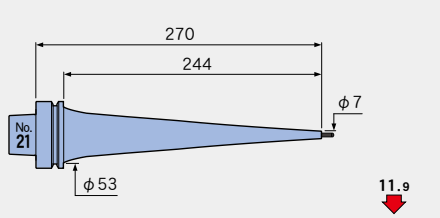
F63-SLSA4-210 CV



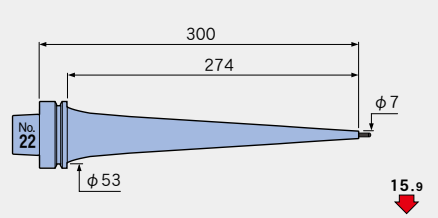
F63-SLSA4-240 CV



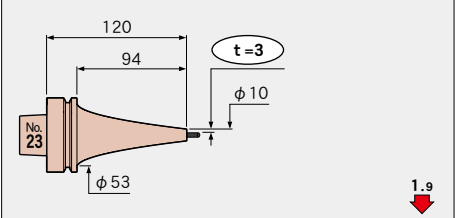
F63-SLSA4-270 CV

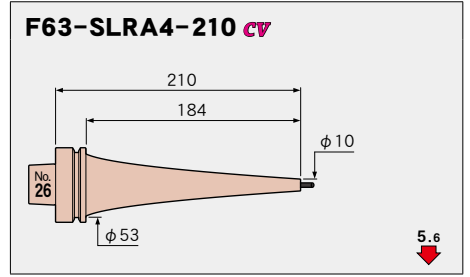
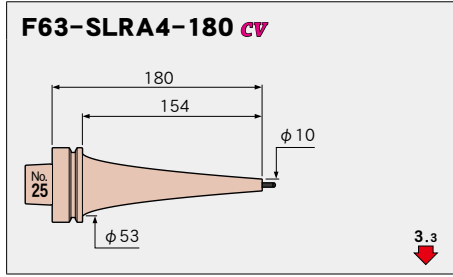
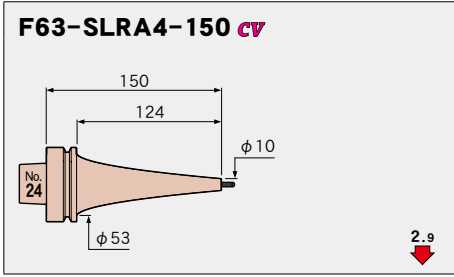


F63-SLSA4-300 CV

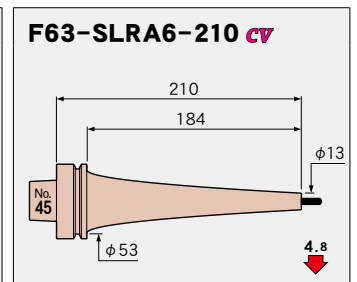
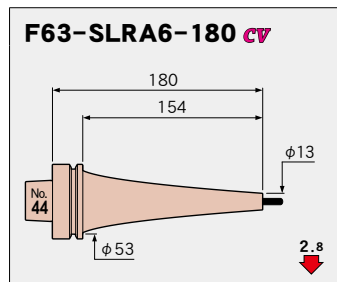
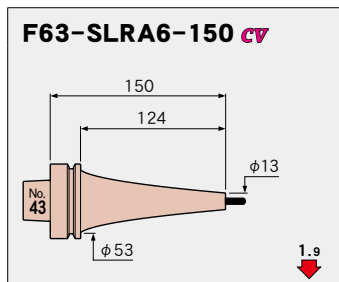
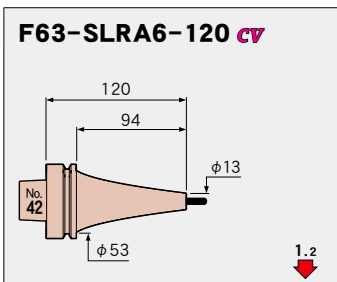
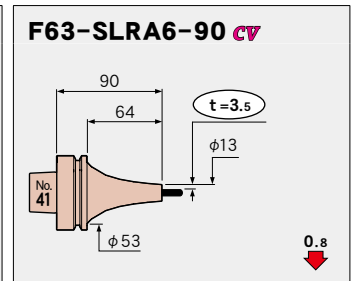
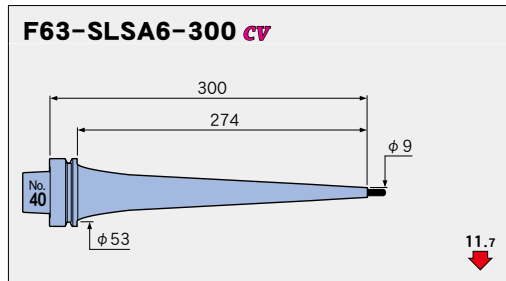
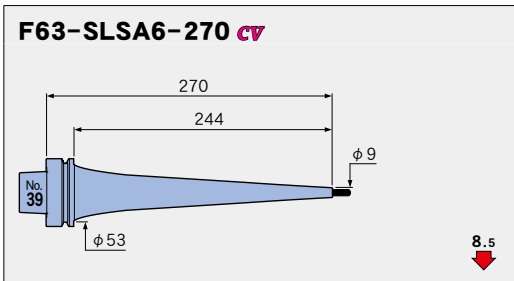
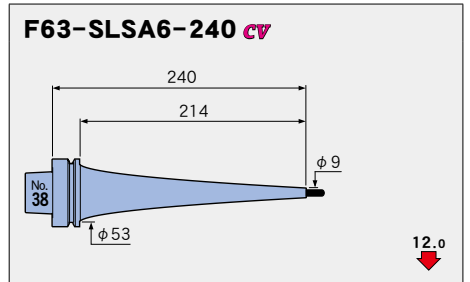
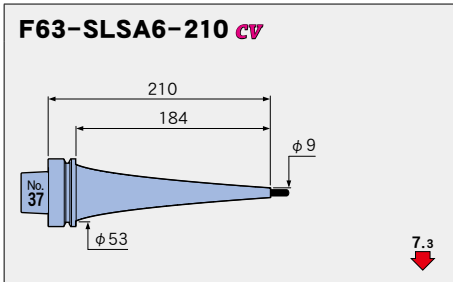
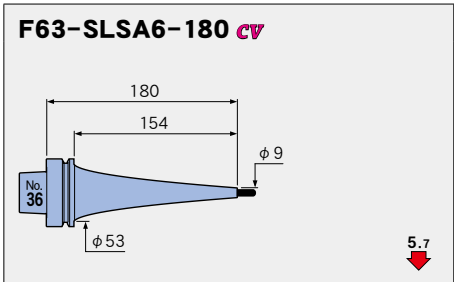
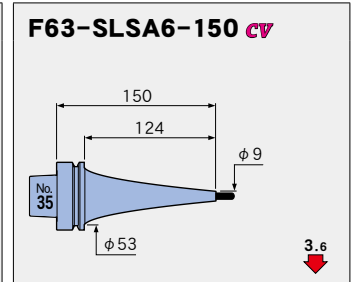
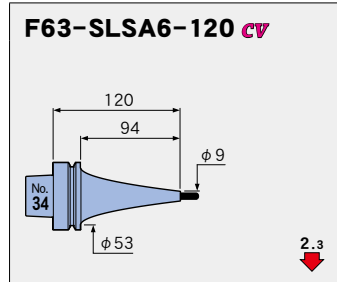
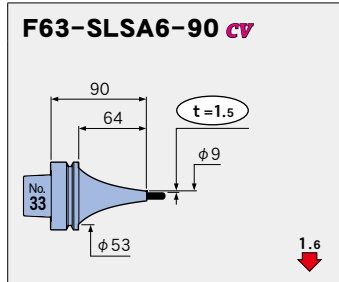
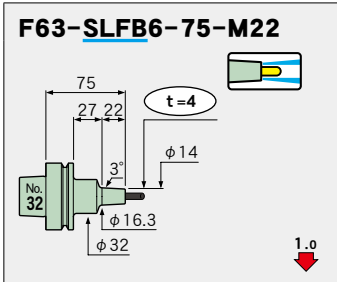
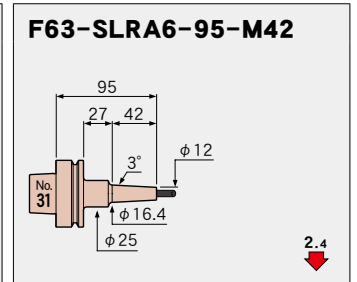
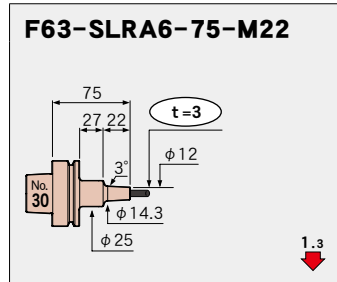
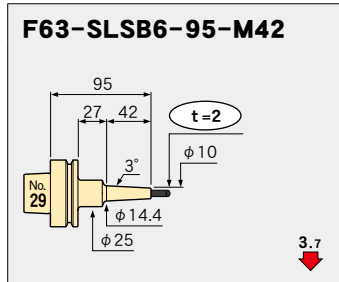
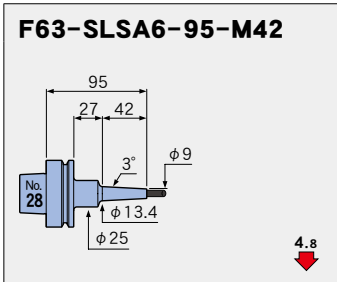


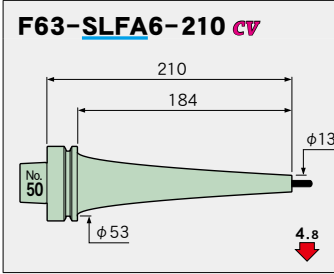
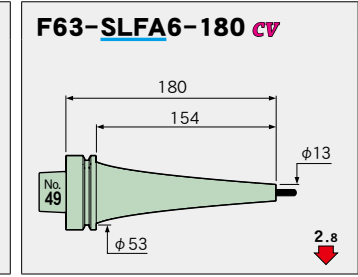
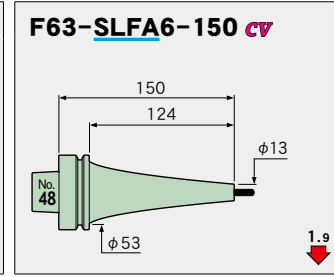
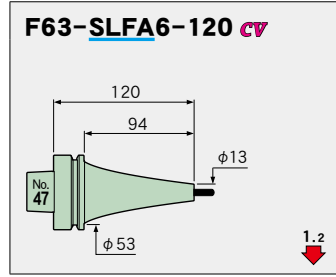
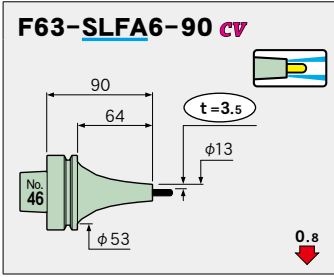
F63-SLRA4-120 CV



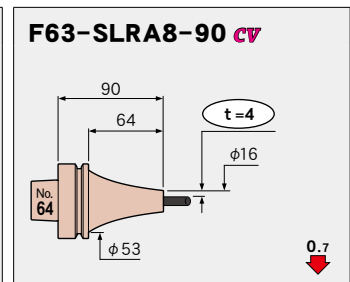
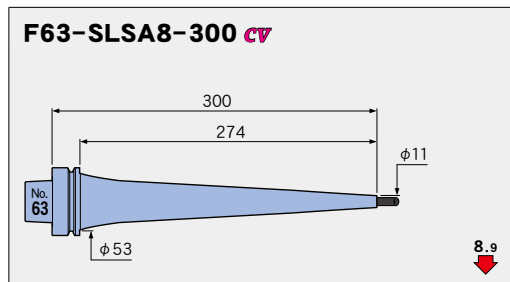
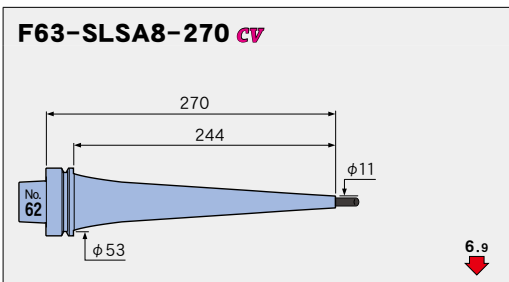
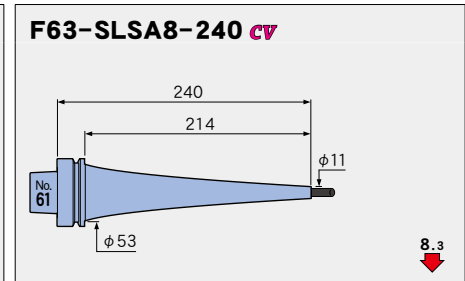
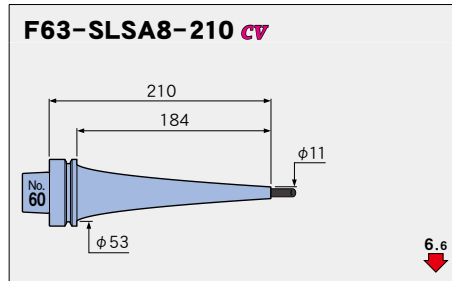
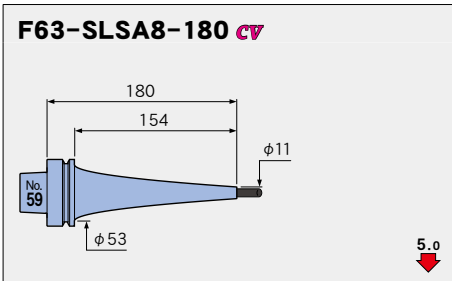
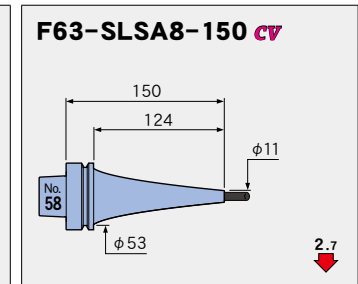
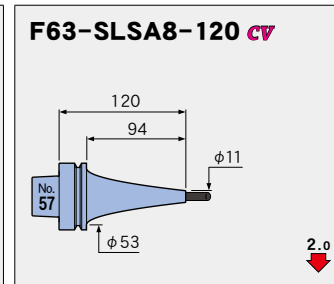
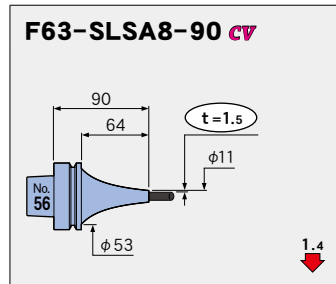
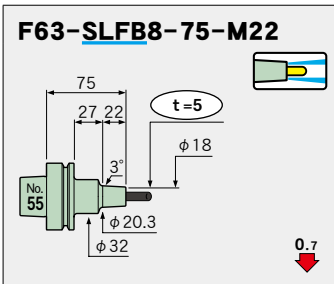
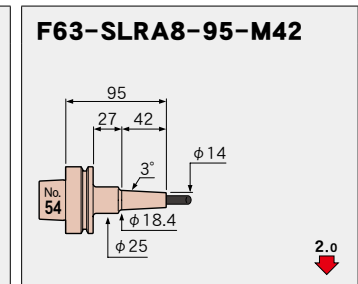
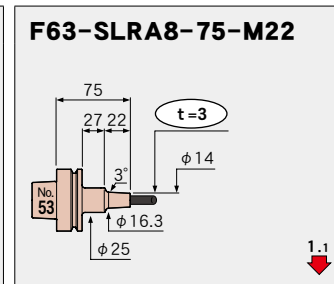
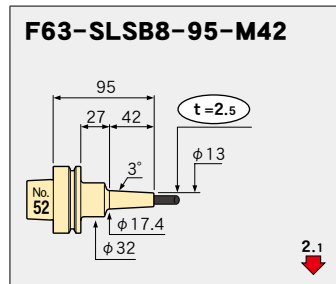
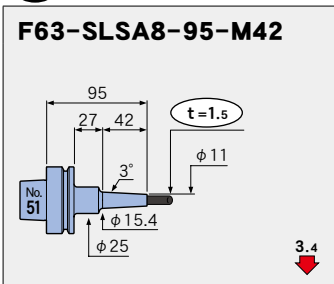


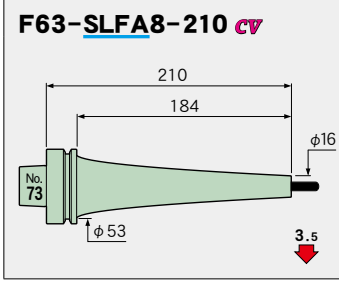
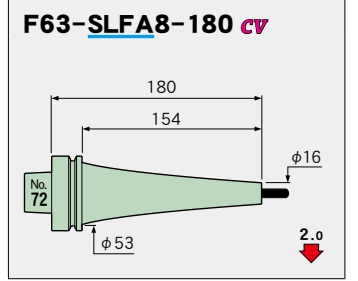
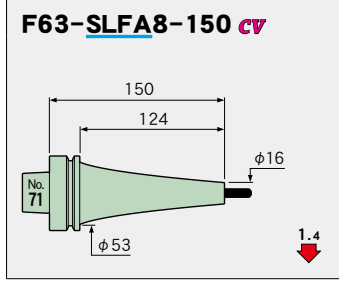
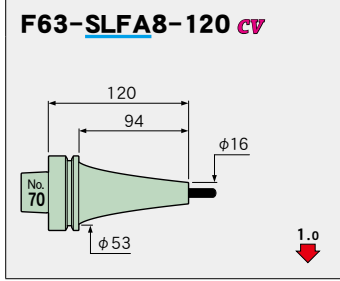
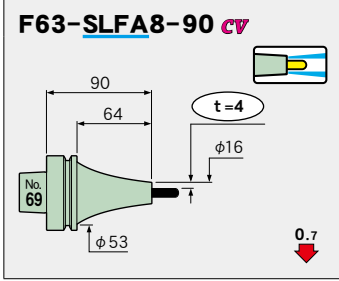
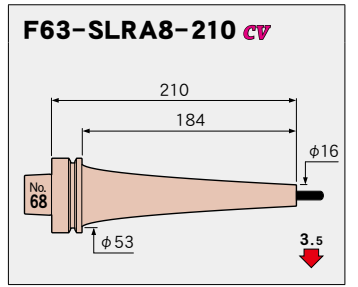
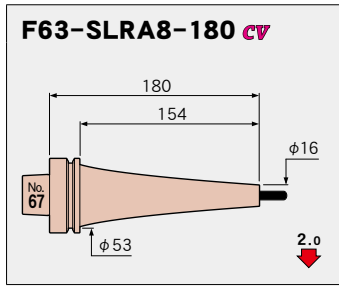
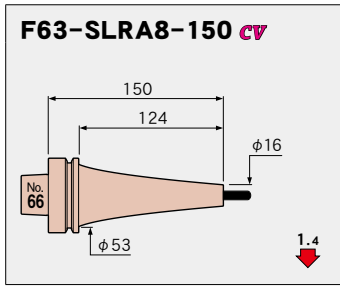
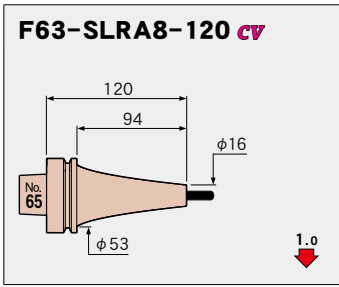
φ6



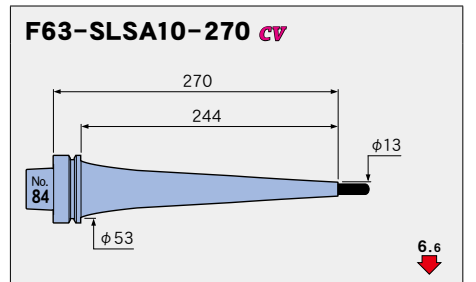
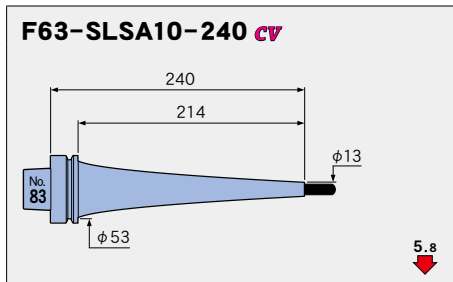
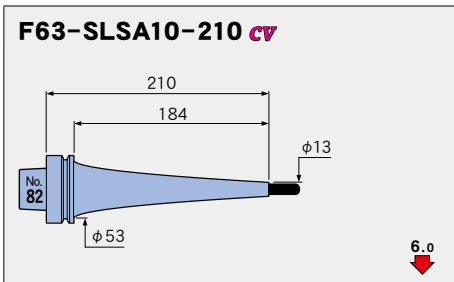
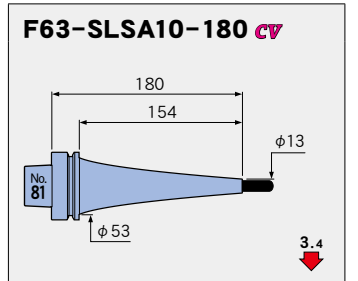
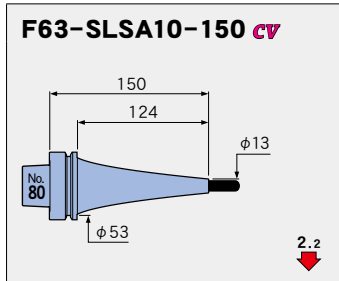
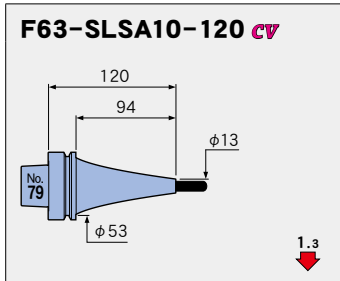
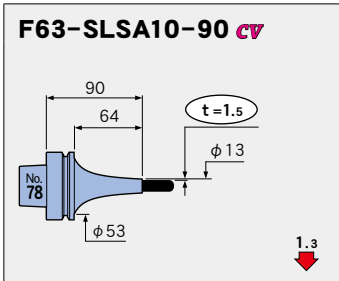
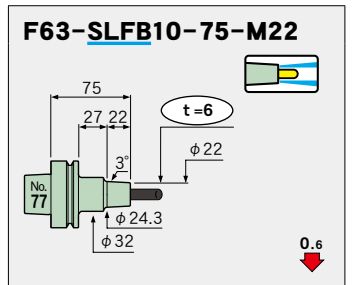
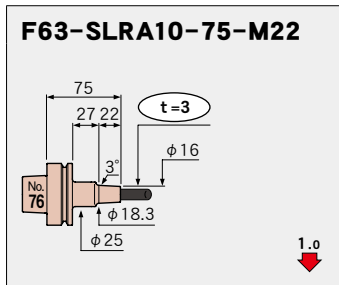
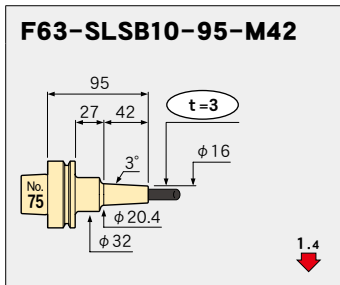
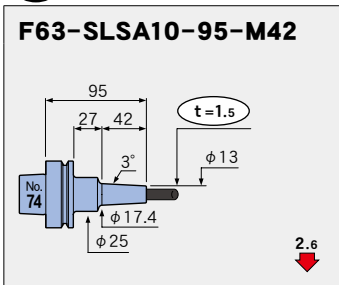


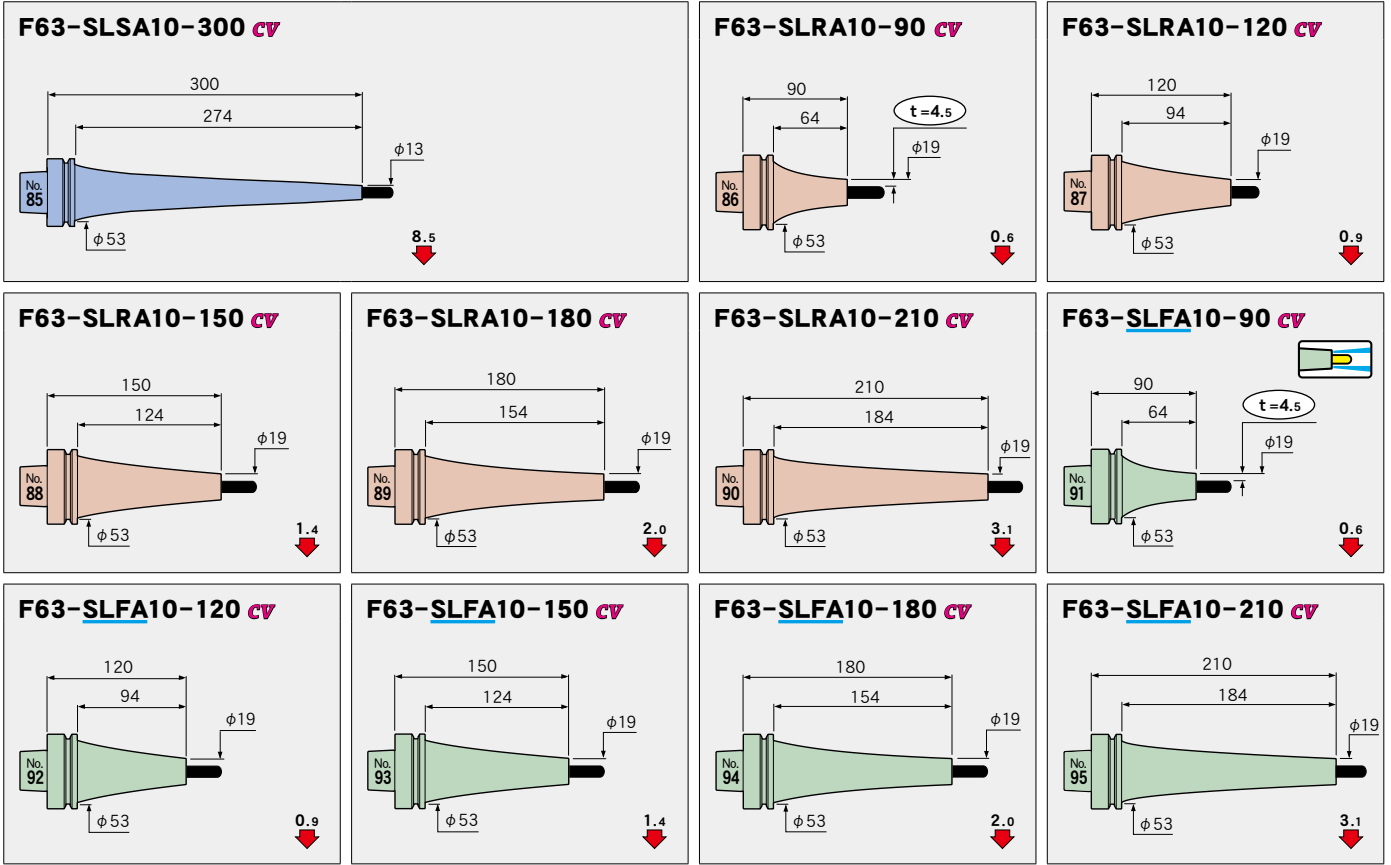
φ 8



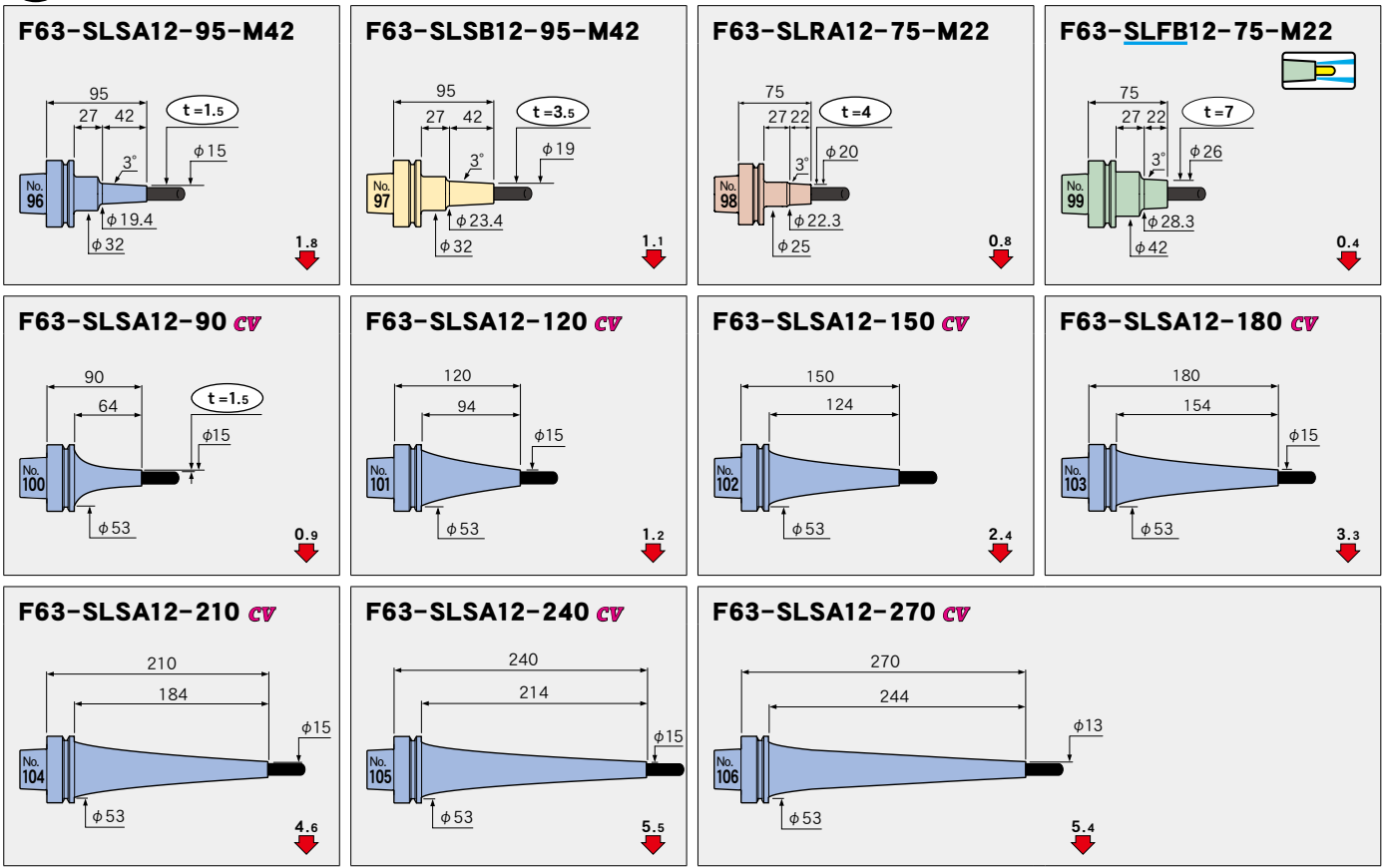


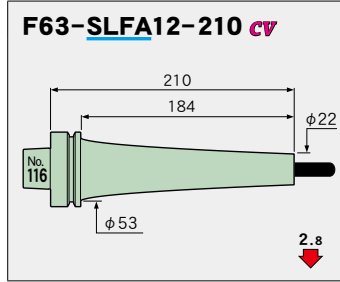
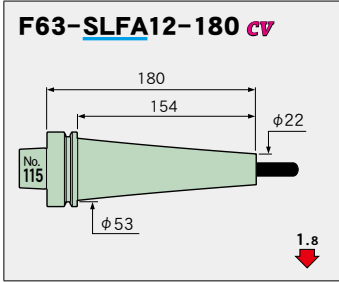
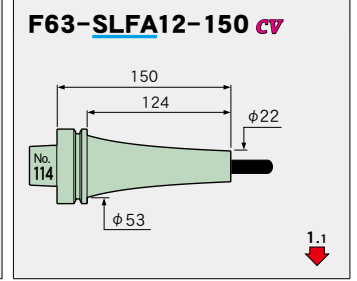
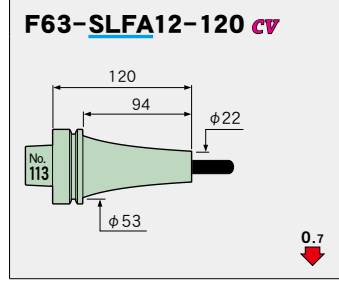
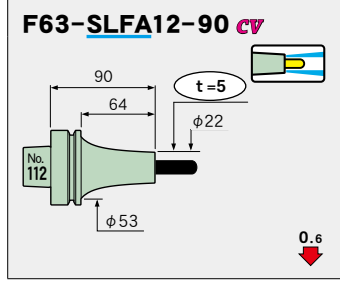
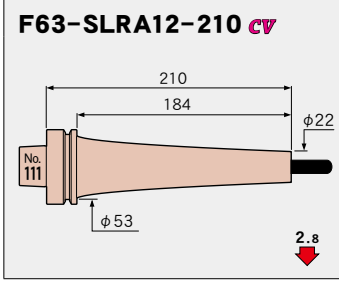
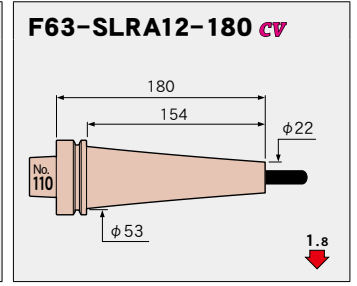
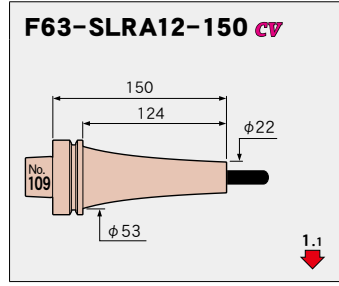
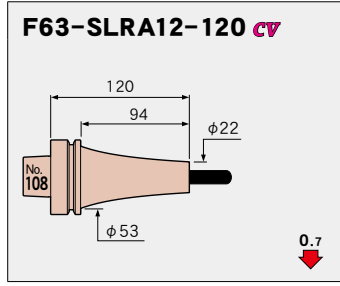
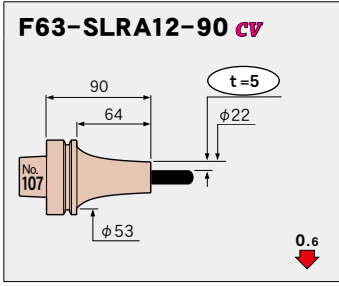
φ10



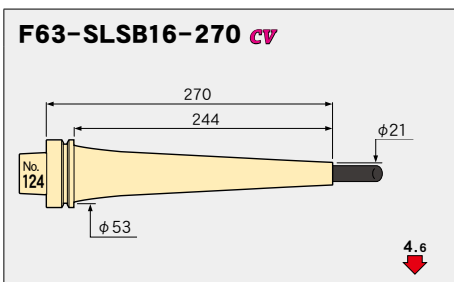
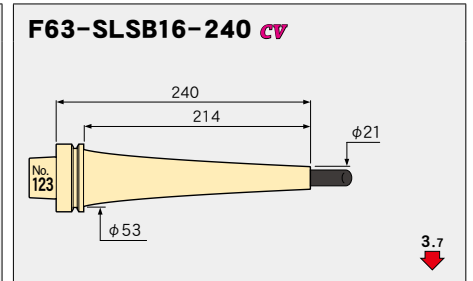
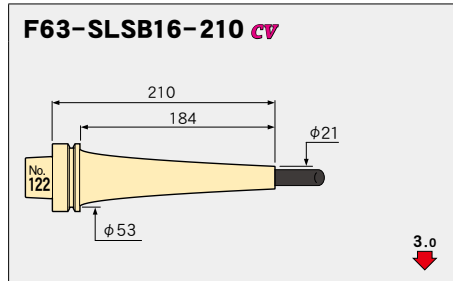
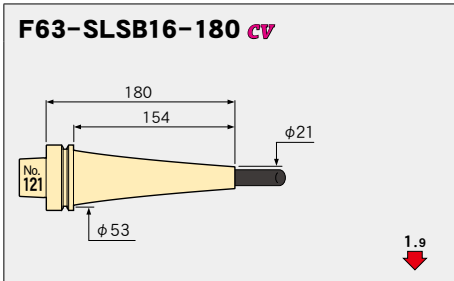
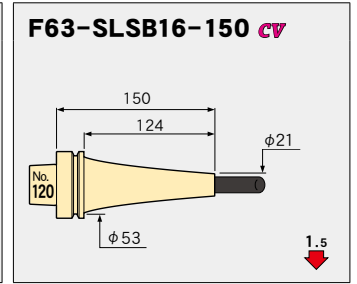
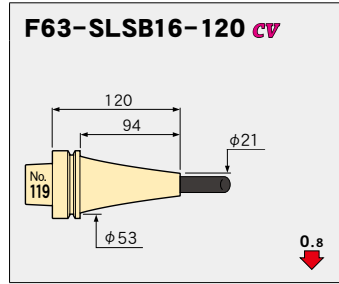
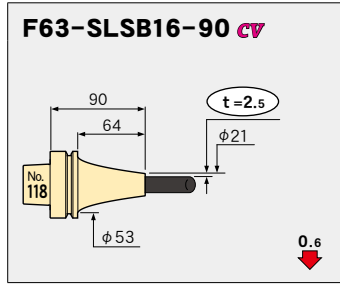
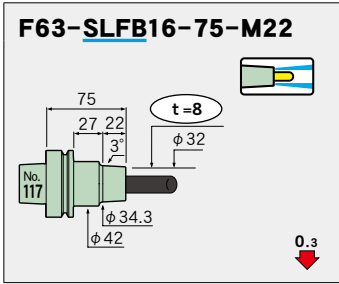


$\phi 12$

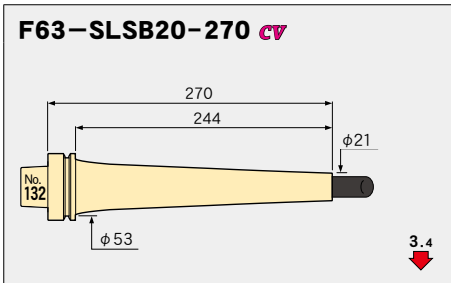
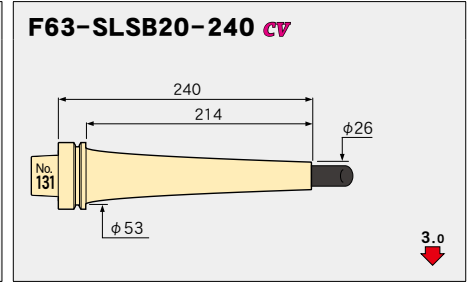
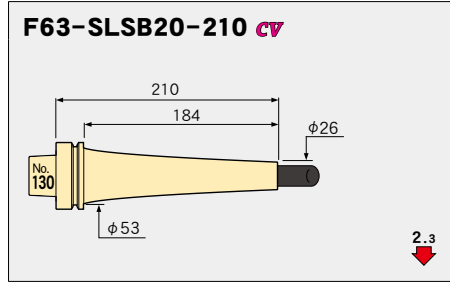
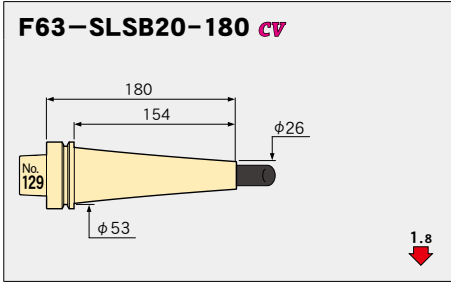
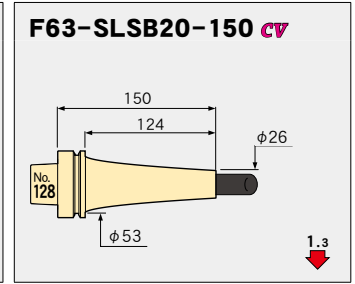
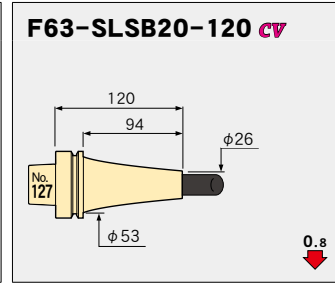
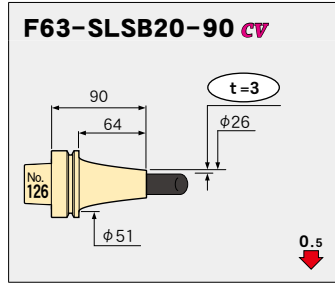
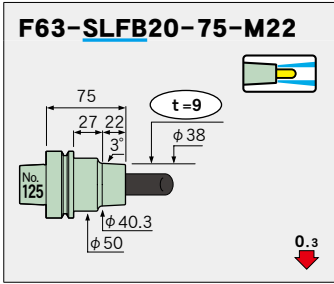




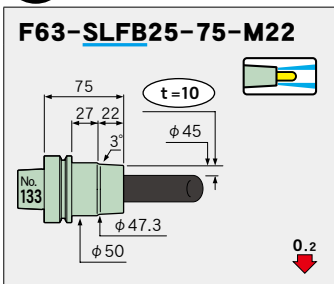
φ16



φ20



φ25



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电话/Tel: 0769-22186189

网址/Web: www.sczy.com

邮箱/E-mail: sales@sczy.com

地址/Adr: 广东省东莞市长安镇长青南路1号万科中心1906



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