

HYBRID SHRINK FIT HOLDER

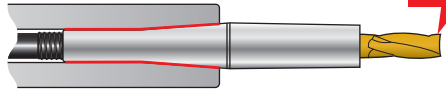
NEW



Nikken Hybrid Shrink Fit Holder

The composite structure moderately reduces vibration during machining.

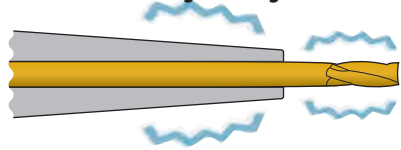
Stable



Solid Type Conventional Shrink Fit Holders

It is often difficult to eliminate vibration during machining with monoblock design tooling.

Vibration



Possible to adjust unbalance after clamping the cutting tool



Unbalancing adjusting screws(Optional)

※Set Code : MMSF-B for prebalancing adjusting screws
G2.5 30,000mir⁻¹

Hybrid Shrink Fit Holder

Hybrid Shrink Fit Holder can achieve High Speed, High Accuracy, Heavy Milling

High Accuracy & Rigidity Shrink Fit Adaptor

Mini Mini Master Chuck



+



Easy to fit VMK-SF shrink fit adaptor using a wrench

VMK-SF

MMC-ATB

MMSF-B



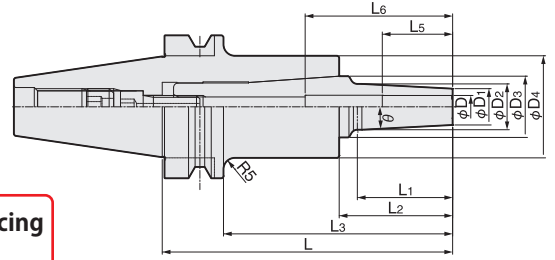
NIKKEN KOSAKUSHO WORKS, LTD.
5-1, 1-chome, Minamishinden, Daito-shi, Osaka-fu, Japan

Web: www.nikken-kosakusho.co.jp/en
Tel: +81-(0)72-869-5820 Fax: +81-(0)72-869-6220
e-mail: export@nikken-kosakusho.co.jp

NBT Hybrid Shrink Fit Holder (Set Code)



MMSF-B



※Set Code : MMSF-B for prebalancing adjusting screws
G2.5 30,000min⁻¹

Standard Type

| Taper | Code No. | φD | φD1 | φD2 | φD3 | φD4 | φD5 | θ | L | L1 | L2 | L3 | L4 | L5 | L6 | Weight (kg) | | | | | | | | | | | | | | | | | | |
|---------------|--------------------|--------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-------------|-----|-----|-----|-----|-----|----|-----|-----|------|-----|-----|-----|----|-----|-----|------|-----|-----|
| NBT40 | NBT40-MMSF 3S-128B | 3 | 7.5 | 11.7 | 27 | 45 | - | 3° | 128 | 42 | 50 | 101 | - | 10 | - | 1.7 | | | | | | | | | | | | | | | | | | |
| | -MMSF 4S-128B | 4 | 10 | 14.2 | | | | | | | | | | 13 | | | | | | | | | | | | | | | | | | | | |
| | -MMSF 6S-128B | 6 | 15 | 19.2 | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | | | | |
| | -MMSF 8S-128B | 8 | 18 | 22.2 | | | | | | | | | | 25 | | | | | | | | | | | | | | | | | | | | |
| | -MMSF10S-128B | | | 20.2 | | | | | | | | | | 31 | | | 65 | | | | | | | | | | | | | | | | | |
| | -158B | 10 | 16 | 23.4 | | | | | | | | | | | | | | 158 | 72 | 80 | 131 | | | | | | | | | | | | | |
| | -188B | | | 27 | | | | | | | | | | | | | | 188 | 105 | 110 | 161 | | | | | | | | | | | | | |
| | -MMSF12S-128B | | | 23.2 | | | | | | | | | | 50 | | | 128 | 42 | 50 | 101 | - | 31 | 1.7 | | | | | | | | | | | |
| | -158B | 12 | 19 | | | | | | | | | | | | | | | | | | | | | 158 | 76.4 | 80 | 131 | | | | | | | |
| | -188B | | | | | | | | | | | | | | | | | | | | | | | 188 | | 110 | 161 | | | | | | | |
| | -MMSF16S-128B | | | 27 | | | | | | | | | | | | | | | | | | | | 33 | 128 | 50 | 101 | - | 33 | 1.8 | | | | |
| | -158B | 16 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 158 | 28.7 | 80 | 131 |
| | -188B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 188 | | 110 | 161 |
| | NBT50 | NBT50-MMSF 3S-128B | 3 | 7.5 | | | | | | | | | | 11.7 | | | 27 | 45 | - | 3° | 128 | 42 | 50 | 90 | - | 10 | - | 4.2 | | | | | | |
| -MMSF 4S-128B | | 4 | 10 | 14.2 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -MMSF 6S-128B | | 6 | 15 | 19.2 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -MMSF 8S-128B | | 8 | 18 | 22.2 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -MMSF10S-128B | | | | 20.2 | 31 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -158B | | 10 | 16 | 23.4 | | | 158 | 72 | 80 | 120 | | | | | | | | | | | | | | | | | | | | | | | | |
| -188B | | | | 27 | | | 188 | 105 | 110 | 150 | | | | | | | | | | | | | | | | | | | | | | | | |
| -MMSF12S-128B | | | | 23.2 | 50 | 128 | 42 | 50 | 90 | - | 31 | 4.2 | | | | | | | | | | | | | | | | | | | | | | |
| -158B | | 12 | 19 | | | | | | | | | | 158 | 76.4 | 80 | 120 | | | | | | | | | | | | | | | | | | |
| -188B | | | | | | | | | | | | | 188 | | 110 | 150 | | | | | | | | | | | | | | | | | | |
| -MMSF16S-128B | | | | 27 | | | | | | | | | 33 | 128 | 50 | 90 | | | | | | | | | | - | | | 33 | 4.3 | | | | |
| -158B | | 16 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 158 | 28.7 | 80 | 120 |
| -188B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 188 | | 110 | 150 |
| | | | | | 33 | 128 | 50 | 90 | - | 33 | 4.4 | | | | | | | | | | | | | | | | | | | | | | | |
| -158B | 16 | 24 | | 158 | | | | | | | | 28.7 | 80 | 120 | | | | | | | | | | | | | | | | | | | | |
| -188B | | | | 188 | | | | | | | | | 110 | 150 | | | | | | | | | | | | | | | | | | | | |

High Rigid Type

| Taper | Code No. | φD | φD1 | φD2 | φD3 | φD4 | φD5 | θ | L | L1 | L2 | L3 | L4 | L5 | L6 | Weight (kg) | | | | | | |
|-------|--------------------|----|-----|------|-----|-----|-----|----|-----|------|-----|-----|----|----|------|-------------|-----|-----|---|----|----|-----|
| NBT40 | NBT40-MMSF10R-133B | 10 | 22 | 26.2 | 32 | 50 | - | 3° | 133 | 42 | 50 | 106 | - | 31 | 65 | 2.0 | | | | | | |
| | -163B | | | 29.4 | | | | | 163 | 72 | 80 | 136 | | | | 2.1 | | | | | | |
| | -193B | | | 32 | | | | | 193 | 95.4 | 110 | 166 | | | | 2.3 | | | | | | |
| | -MMSF12R-133B | 12 | 26 | 30.2 | | | | | 32 | 50 | - | 3° | | | 133 | 42 | 50 | 106 | - | 31 | 80 | 2.0 |
| | -163B | | | 163 | | | | | | | | | | | 57.3 | 80 | 136 | 2.2 | | | | |
| | -193B | | | 193 | | | | | | | | | | | 110 | 166 | 2.4 | | | | | |
| | -MMSF16R-133B | 16 | 32 | 32 | | | | | 32 | 50 | - | - | | | 133 | 50 | 50 | 106 | - | 33 | 50 | 2.1 |
| | -163B | | | 163 | | | | | | | | | | | 80 | 80 | 136 | 2.2 | | | | |
| | -193B | | | 193 | | | | | | | | | | | 110 | 166 | 2.4 | | | | | |
| NBT50 | NBT50-MMSF10R-133B | 10 | 22 | 26.2 | 32 | 50 | - | 3° | 133 | 42 | 50 | 95 | - | 31 | 65 | 4.5 | | | | | | |
| | -163B | | | 29.4 | | | | | 163 | 72 | 80 | 125 | | | | 4.6 | | | | | | |
| | -193B | | | 32 | | | | | 193 | 95.4 | 110 | 155 | | | | 4.8 | | | | | | |
| | -MMSF12R-133B | 12 | 26 | 30.2 | | | | | 32 | 50 | - | 3° | | | 133 | 42 | 50 | 95 | - | 31 | 80 | 4.5 |
| | -163B | | | 163 | | | | | | | | | | | 57.3 | 80 | 125 | 4.7 | | | | |
| | -193B | | | 193 | | | | | | | | | | | 110 | 155 | 4.9 | | | | | |
| | -MMSF16R-133B | 16 | 32 | 32 | | | | | 32 | 50 | - | - | | | 133 | 50 | 50 | 95 | - | 33 | 50 | 4.6 |
| | -163B | | | 163 | | | | | | | | | | | 80 | 80 | 125 | 4.7 | | | | |
| | -193B | | | 193 | | | | | | | | | | | 110 | 155 | 4.9 | | | | | |

★Hybride Shrink Fit Holder can be built by Mini-Mini Chuck Master and VMK-SF Shrink Fit Hold

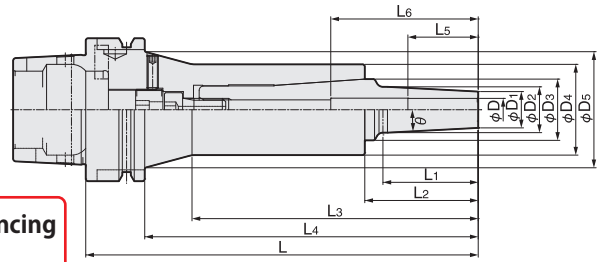
HSK Hybrid Shrink Fit Holder (Set Code)

NIKKEN



MMSF-B

※Set Code : MMSF-B for prebalancing adjusting screws
62.5 30,000min⁻¹



Standard Type

| Taper | Code No. | φD | φD1 | φD2 | φD3 | φD4 | φD5 | θ | L | L1 | L2 | L3 | L4 | L5 | L6 | Weight (kg) | | | | | | |
|---------|----------------------|----|-----|------|-----|-----|------|----|-------|-----|----|-------|-----|----|----|-------------|-----|------|-------|-------|-------|-----|
| HSK63A | HSK 63A-MMSF 3S-173B | 3 | 7.5 | 11.7 | 27 | 40 | 51.2 | 3° | 173 | 42 | 50 | 126 | 147 | 10 | - | 1.7 | | | | | | |
| | -MMSF 4S-173B | 4 | 10 | 14.2 | | | | | | | | | | 13 | | | | | | | | |
| | -MMSF 6S-173B | 6 | 15 | 19.2 | | | | | | | | | | 19 | | | | | | | | |
| | -MMSF 8S-173B | 8 | 18 | 22.2 | | | | | | | | | | 25 | | | | | | | | |
| | -MMSF10S-173B | 10 | 16 | 20.2 | | | | | | | | | | 31 | | | 65 | | | | | |
| | -203B | | | 23.4 | | | | | | | | | | | | | | | | | | |
| | -233B | | | 27 | | | | | | | | | | | | | | | | | | |
| | -MMSF12S-173B | 12 | 19 | 23.2 | | | | | | | | | | 50 | | | 1.8 | | | | | |
| | -203B | | | 203 | | | | | | | | | | | | | | 76.4 | 80 | 156 | 177 | |
| | -233B | | | 233 | | | | | | | | | | | | | | 105 | 110 | 186 | 207 | |
| | -MMSF16S-173B | | | 173 | | | | | | | | | | | | | | 42 | 50 | 126 | 147 | |
| | -203B | 16 | 24 | 27 | | | | | | | | | | 33 | | | 1.8 | | | | | |
| | -233B | | | | | | | | | | | | | | | | | 203 | 76.4 | 80 | 156 | 177 |
| | -MMSF16S-173B | | | | | | | | | | | | | | | | | 173 | 42 | 50 | 126 | 147 |
| -203B | 16 | 24 | 27 | 33 | 1.9 | | | | | | | | | | | | | | | | | |
| -233B | | | | | | 203 | 28.7 | 80 | 156 | 177 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 2.0 | | | | | | |
| HSK100A | HSK100A-MMSF 3S-180B | 3 | 7.5 | 11.7 | 27 | 40 | 55.5 | 3° | 180 | 42 | 50 | 123.5 | 151 | 10 | - | 3.1 | | | | | | |
| | -MMSF 4S-180B | 4 | 10 | 14.2 | | | | | | | | | | 13 | | | | | | | | |
| | -MMSF 6S-180B | 6 | 18 | 19.2 | | | | | | | | | | 19 | | | | | | | | |
| | -MMSF 8S-180B | 8 | 18 | 22.2 | | | | | | | | | | 25 | | | | | | | | |
| | -MMSF10S-180B | 10 | 16 | 20.2 | | | | | | | | | | 31 | | | 65 | | | | | |
| | -210B | | | 23.4 | | | | | | | | | | | | | | | | | | |
| | -240B | | | 27 | | | | | | | | | | | | | | | | | | |
| | -MMSF12S-180B | 12 | 19 | 23.2 | | | | | | | | | | 50 | | | 3.1 | | | | | |
| | -210B | | | 180 | | | | | | | | | | | | | | 42 | 50 | 123.5 | 151 | |
| | -240B | | | 210 | | | | | | | | | | | | | | 76.4 | 80 | 153.5 | 181 | |
| | -MMSF16S-180B | | | 240 | | | | | | | | | | | | | | 110 | 183.5 | 211 | | |
| | -210B | 16 | 24 | 27 | | | | | | | | | | 33 | | | 3.2 | | | | | |
| | -240B | | | | | | | | | | | | | | | | | 180 | 42 | 50 | 123.5 | 151 |
| | -MMSF16S-180B | | | | | | | | | | | | | | | | | 210 | 76.4 | 80 | 153.5 | 181 |
| -210B | 16 | 24 | 27 | 33 | 3.3 | | | | | | | | | | | | | | | | | |
| -240B | | | | | | 210 | 28.7 | 80 | 153.5 | 181 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 3.4 | | | | | | |

High Rigid Type

| Taper | Code No. | φD | φD1 | φD2 | φD3 | φD4 | φD5 | θ | L | L1 | L2 | L3 | L4 | L5 | L6 | Weight (kg) | | | | | | | | | | | | | | | |
|---------|----------------------|----|-----|------|-----|-----|------|----|-----|----|----|-------|-----|----|----|-------------|------|------|-------|-----|-----|----|-------|-----|----|----|------|-------|-------|-----|-----|
| HSK63A | HSK 63A-MMSF10R-173B | 10 | 22 | 26.2 | 32 | 47 | 52.9 | 3° | 173 | 42 | 50 | 139 | 147 | 31 | 65 | 2.1 | | | | | | | | | | | | | | | |
| | -203B | | | 29.4 | | | | | | | | | | | | 203 | 72 | 80 | 169 | 177 | 2.2 | | | | | | | | | | |
| | -233B | | | 32 | | | | | | | | | | | | 233 | 95.4 | 110 | 199 | 207 | 2.4 | | | | | | | | | | |
| | -MMSF12R-173B | 12 | 26 | 30.2 | | | | | | | | | | | | 32 | 47 | 52.9 | 3° | 173 | 42 | 50 | 139 | 147 | 31 | 80 | 2.1 | | | | |
| | -203B | | | 203 | | | | | | | | | | | | | | | | | | | | | | | 57.3 | 80 | 169 | 177 | 2.3 |
| | -233B | | | 233 | | | | | | | | | | | | | | | | | | | | | | | 110 | 199 | 207 | 2.5 | |
| | -MMSF16R-173B | 16 | 32 | 32 | | | | | | | | | | | | 32 | 47 | 52.9 | - | 173 | 50 | 50 | 139 | 147 | 33 | 50 | 2.2 | | | | |
| | -203B | | | 203 | | | | | | | | | | | | | | | | | | | | | | | 80 | 80 | 169 | 177 | 2.3 |
| | -233B | | | 233 | | | | | | | | | | | | | | | | | | | | | | | 110 | 110 | 199 | 207 | 2.5 |
| HSK100A | HSK100A-MMSF10R-180B | 10 | 22 | 26.2 | 32 | 47 | 70.8 | 3° | 180 | 42 | 50 | 133.5 | 151 | 31 | 65 | 3.5 | | | | | | | | | | | | | | | |
| | -210B | | | 29.4 | | | | | | | | | | | | 210 | 72 | 80 | 163.5 | 181 | 3.6 | | | | | | | | | | |
| | -240B | | | 32 | | | | | | | | | | | | 240 | 95.4 | 110 | 193.5 | 211 | 3.8 | | | | | | | | | | |
| | -MMSF12R-180B | 12 | 26 | 30.2 | | | | | | | | | | | | 32 | 47 | 70.8 | 3° | 180 | 42 | 50 | 133.5 | 151 | 31 | 80 | 3.5 | | | | |
| | -210B | | | 210 | | | | | | | | | | | | | | | | | | | | | | | 57.3 | 80 | 163.5 | 181 | 3.7 |
| | -240B | | | 240 | | | | | | | | | | | | | | | | | | | | | | | 110 | 193.5 | 211 | 3.9 | |
| | -MMSF16R-180B | 16 | 32 | 32 | | | | | | | | | | | | 32 | 47 | 70.8 | - | 180 | 50 | 50 | 133.5 | 151 | 33 | 50 | 3.6 | | | | |
| | -210B | | | 210 | | | | | | | | | | | | | | | | | | | | | | | 80 | 80 | 163.5 | 181 | 3.7 |
| | -240B | | | 240 | | | | | | | | | | | | | | | | | | | | | | | 110 | 110 | 193.5 | 211 | 3.9 |

★Hibride Shrink Fit Holder can be built by Mini-Mini Chuck Master and VMK-SF Shrink Fit Holder.

Hybrid Shrink Fit Holder (Unit Code)



Mini Mini Master Chuck



MMC-ATB

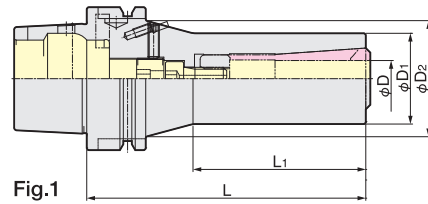


Fig.1

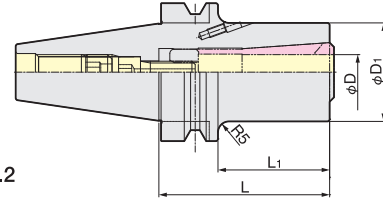


Fig.2

HSK Fig.1

| Taper | Code No. | φD | L | φD1 | φD2 | L1 | Shrink Fit Holder | Weight (Kg) |
|---------|------------------------|-------|-----|-----|------|------|---------------------|-------------|
| HSK63A | HSK 63A-MMC16C-125-ATB | 10~16 | 123 | 40 | 52.7 | 76 | VMK16-SF VMK16-H | 1.4 |
| | -MMC20C-125-ATB | 12~20 | | 47 | 52.9 | 89 | VMK20-SF VMK20-H | 1.6 |
| HSK100A | HSK100A-MMC16C-132-ATB | 10~16 | 130 | 40 | 70.8 | 73.5 | VMK16-SF VMK16-H | 2.8 |
| | -MMC20C-132-ATB | 12~20 | | 47 | 70.8 | 85.3 | VMK20-SF VMK20-H | 3.0 |

NBT Fig.2

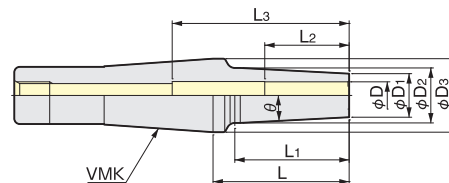
| Taper | Code No. | φD | L | φD1 | L1 | Shrink Fit Holder | Weight (Kg) |
|-------|---------------------|-------|----|-----|----|---------------------|-------------|
| NBT40 | NBT40-MMC16C-80-ATB | 10~16 | 78 | 45 | 51 | VMK16-SF VMK16-H | 1.4 |
| | -MMC20C-85-ATB | 12~20 | 83 | 50 | 56 | VMK20-SF VMK20-H | 1.5 |
| NBT50 | NBT50-MMC16C-80-ATB | 10~16 | 78 | 45 | 40 | VMK16-SF VMK16-H | 3.9 |
| | -MMC20C-85-ATB | 12~20 | 83 | 50 | 45 | VMK20-SF VMK20-H | 4.0 |

- ★Wrench is attached as standard.
- ★Balance adjustment screw is available as an option. The Code No. of the screw is 9SFB-ASC-M4-3, 4, 6
- ★Mounting handle is available as an option. The Code No. of the handle is 9SFB-AL-M2
- ★Set Code for handle and all screws are S.9SFB-ASC-M4

VMK-SF Shrink Fit Holder



VMK-SF



Standard Type

| Taper | Code No. | φD | φD1 | φD2 | φD3 | θ | L | L1 | L2 | L3 | Weight (Kg) | | | |
|-------|-------------------|----|-----|----------------|-----|----|----|----|-------------|----------------|-------------|----|----|---------------|
| VMK16 | VMK16-SF 3S- 50 | 3 | 7.5 | 11.7 | 27 | 3° | 50 | 42 | 10 | - | 0.3 | | | |
| | -SF 4S- 50 | 4 | 10 | 14.2 | | | | | 13 | | | | | |
| | -SF 6S- 50 | 6 | 15 | 19.2 | | | | | 19 | | | | | |
| | -SF 8S- 50 | 8 | 18 | 22.2 | | | | | 25 | | | | | |
| | -SF10S- 50,80,110 | 10 | 16 | 20.2, 23.4, 27 | | | | | 50, 80, 110 | 42, 72, 105 | | 31 | 65 | 0.3, 0.4, 0.5 |
| | -SF12S- 50,80,110 | 12 | 19 | 23.2, 27, 27 | | | | | 50, 80, 110 | 42, 76.4, 76.4 | | 33 | 50 | 0.3, 0.4, 0.5 |
| | -SF16S- 50,80,110 | 16 | 24 | 27 | | | | | 50, 80, 110 | 28.7 | | | | 0.4, 0.5, 0.6 |

High Rigid Type

| Taper | Code No. | φD | φD1 | φD2 | φD3 | θ | L | L1 | L2 | L3 | Weight (Kg) |
|-------|------------------------|----|-----|----------------|-----|----|-------------|--------------|----|-------------|---------------|
| VMK20 | VMK20-SF10R- 50,80,110 | 10 | 22 | 26.2, 29.4, 32 | 32 | 3° | 50, 80, 110 | 42, 72, 95.4 | 31 | 65 | 0.5, 0.6, 0.8 |
| | -SF12R- 50,80,110 | 12 | 26 | 30.2, 32, 32 | | | | | | 80 | 0.5, 0.7, 0.9 |
| | -SF16R- 50,80,110 | 16 | 32 | 32 | | | | | | 50, 80, 110 | 50, 80, 110 |

- ★Hybride Shrink Fit Holder can be built by Mini-Mini Chuck Master and VMK-SF Shrink Fit Holder.