

SHOWA

SHRINKINGTOOL SYSTEM



高周波加熱装置

Shrink Fit Heating Machine



| 定格電圧 | 定格電力 | 電流 |
|-------|------|-----|
| AC220 | 6KW | 16A |

| 型番 | タイプ | サイズ(W×D×H) | 把握径 | コイル内径 | KG | 価格 |
|------------|--------|----------------|--------|-------|----|-------|
| SF-DRU-6K | 小径用 | 540×400×780 mm | φ 4~20 | 50mm | 25 | 65万円 |
| SF-DRU-6K2 | コイル交換式 | 540×400×780 mm | φ 4~32 | 68mm | 25 | 105万円 |

SF-DRU-6K2用 交換コイル



| 型番 | 径範囲 | コイル高さ (mm) | コイル内径 (mm) | コイル外径 (mm) | 黒線高さ (mm) | 赤線高さ (mm) | 青線高さ (mm) |
|------|---------|---------------|---------------|---------------|--------------|--------------|--------------|
| H325 | 4-12mm | 42 | 35 | 128 | 24 | 32 | / |
| H655 | 12-25mm | 62 | 55 | 135 | 30 | 37 | 47 |
| H668 | 25-32mm | 62 | 68 | 144 | / | / | 48 |



装置付属品

| 機種 | セット内容 | 数量 |
|------------|--|-----|
| 6K タイプ | プリセットリング φ4, φ6, φ8, φ10, φ12, φ16, φ20 | 各1個 |
| | 耐熱てぶくろ | 1個 |
| | プライヤー (刃先傷防止) | 1個 |
| 6K2 タイプ | プリセットリング φ4, φ6, φ8, φ10, φ12, φ16, φ20, φ25, φ32 | 各1個 |
| | 耐熱てぶくろ | 1個 |
| | プライヤー (刃先傷防止) | 1個 |

追加オプション



プリセットリング

| 型式 | φD |
|--------|----|
| HP-K4 | 4 |
| HP-K6 | 6 |
| HP-K8 | 8 |
| HP-K10 | 10 |
| HP-K12 | 12 |
| HP-K16 | 16 |
| HP-K20 | 20 |
| HP-K25 | 25 |
| HP-K32 | 32 |



ロッキング
アダプター

| テーパー | 型式 |
|------|----------|
| BT用 | SH-BT30 |
| | SH-BT40 |
| HSK用 | SH-HSK25 |
| | SH-HSK32 |
| | SH-HSK40 |
| | SH-HSK50 |
| | SH-HSK63 |



ヒートリング

| 型式 | 対応コイル | 対応径 |
|-------------|-------|---------|
| HG55SR1216 | H655 | φ12-φ16 |
| HG55SR1825 | H655 | φ18-φ25 |
| HG68SRC2532 | H655 | φ25-φ32 |

加熱時間を更に短縮可能

SHOWAのシュリンクホルダシリーズ一覧

NSタイプ



3° 勾配でスリム形状。
高精度加工・仕上加工に最適。

TYタイプ



5° 勾配金型加工用。
ワーク治具への干渉をクリア。

Nタイプ



高剛性・把握力により重切削加工に
威力を発揮。

ジョイントタイプ



本体と先端の組み合わせ式。
長さや径を自由にレイアウト変更可能。

※SBT30とSBT40は引きネジ式プルスタッド仕様（別売り）
仕様お問い合わせ下さい。

STタイプ



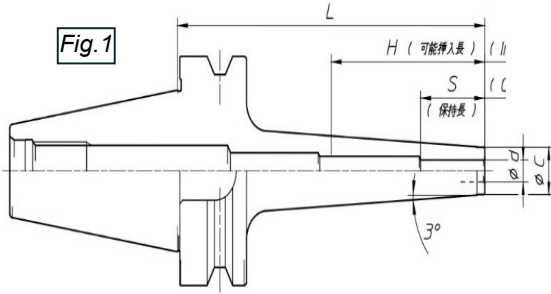
立壁などの干渉除けに。
既存のミーリングチャックで把握可能。

SBT30シャンク (BT30二面拘束仕様)

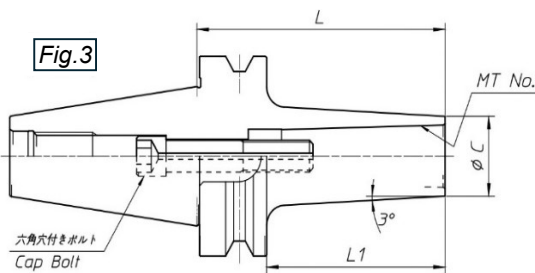
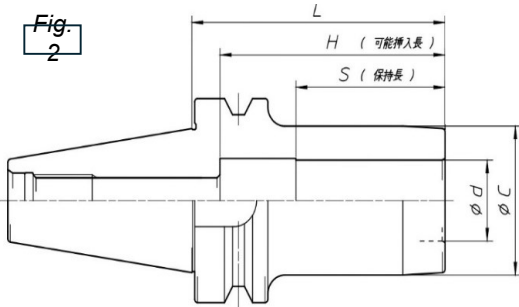
センタースルー対応
Thru-the-tool Coolant Available



NSタイプ



Nタイプ



| TYPE | MODEL | Fig. | φ d | L | φ C | S | H | N/W(kg) |
|-----------|-------|-------|-----|--------------|-----|----|----|---------|
| NS タイプ | SBT30 | Fig.1 | 4 | 75 | 11 | 12 | 45 | 0.5 |
| | | | | 90 | | | | 0.5 |
| | | | | 120 | | | | 0.6 |
| | | | 6 | 75 | 13 | 25 | 60 | 0.5 |
| | | | | 90 | | | | 0.5 |
| | | | | 120 | | | | 0.6 |
| | | | 8 | 75 | 15 | 25 | 60 | 0.5 |
| | | | | 90 | | | | 0.5 |
| | | | | 120 | | | | 0.6 |
| | | | 10 | 75 | 17 | 30 | 60 | 0.6 |
| | | | | 90 | | | | 0.6 |
| | | | | 120 | | | | 0.7 |
| | | | 12 | 75 | 19 | 30 | 60 | 0.5 |
| | | | | 90 | | | | 0.6 |
| | | | | 120 | | | | 0.7 |
| | | | 16 | -SF16-080-NS | | 16 | 80 | 23 |
| 20 | 80 | 27 | | | | | | |

| TYPE | MODEL | Fig. | φ d | L | φ C | S | H | N/W(kg) | | | |
|----------|-------|-------|-----|-------------|-----|----|----|---------|----|----|-----|
| N タイプ | SBT30 | Fig.2 | 4 | 70 | 16 | 12 | 45 | 0.5 | | | |
| | | | | 6 | | | | 70 | 25 | 25 | 0.6 |
| | | | | 8 | | | | 70 | 27 | 25 | 0.6 |
| | | | 10 | -SF10-070-N | | 10 | 70 | 29 | 30 | 60 | 0.7 |
| | | | | | | | | | | | 12 |
| | | | 16 | -SF16-080-N | | 16 | 80 | 35 | 40 | 70 | 0.8 |
| | | | | | | | | | | | 20 |

| TYPE | MODEL | Fig. | MT NO. | L | L1 | φ C | N/W(kg) |
|--------------|-------|-------|--------|-----|----|-----|---------|
| ジョイント タイプ | SBT30 | Fig.3 | MT2 | 45 | 23 | 25 | 0.4 |
| | | | | 75 | 53 | | 0.6 |
| | | | MT3 | 90 | 68 | 32 | 0.7 |
| | | | | 120 | 98 | | 1.0 |

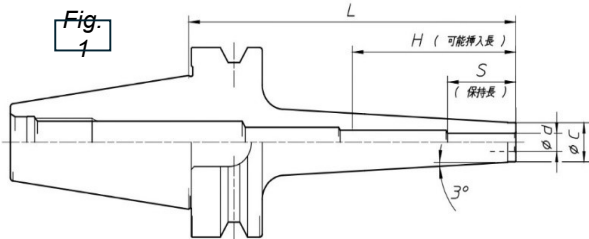
※ジョイントタイプの先端についてはP.16にてご確認ください。
※ジョイントタイプは引きネジ式プルスタッド仕様（別売り）仕様お問い合わせ下さい。

SBT40シャンク (BT40二面拘束仕様)

センタースルー対応
Thru-the-tool Coolant Available



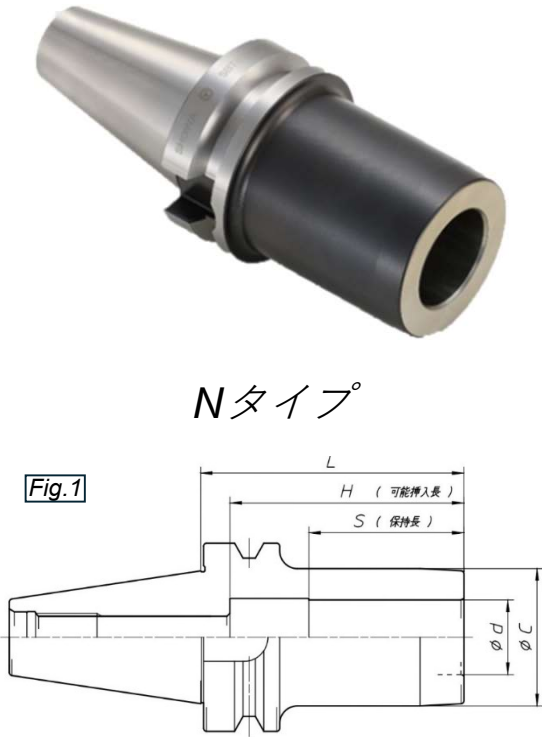
NSタイプ



| TYPE | MODEL | Fig. | ϕd | L | ϕC | S | H | N/W(kg) |
|-----------|--------------|-------|----------|-----|----------|----|-----|---------|
| NS タイプ | -SF04-075-NS | Fig.1 | 4 | 75 | 11 | 12 | 45 | 1.1 |
| | -090-NS | | | 90 | | | | 1.1 |
| | -120-NS | | | 120 | | | | 1.2 |
| | -150-NS | | | 150 | | | | 1.3 |
| | -200-NS | | | 200 | | | | 1.5 |
| | -250-NS | | | 250 | | | | 1.8 |
| | -SF06-075-NS | | 6 | 75 | 13 | 25 | 60 | 1.1 |
| | -090-NS | | | 90 | | | | 1.1 |
| | -120-NS | | | 120 | | | | 1.2 |
| | -150-NS | | | 150 | | | | 1.3 |
| | -200-NS | | | 200 | | | | 1.5 |
| | -250-NS | | | 250 | | | | 1.9 |
| | -SF08-075-NS | | 8 | 75 | 15 | 25 | 60 | 1.1 |
| | -090-NS | | | 90 | | | | 1.2 |
| | -120-NS | | | 120 | | | | 1.3 |
| | -150-NS | | | 150 | | | | 1.4 |
| | -200-NS | | | 200 | | | | 1.6 |
| | -250-NS | | | 250 | | | | 2.0 |
| | -SF10-075-NS | | 10 | 75 | 17 | 30 | 60 | 1.1 |
| | -090-NS | | | 90 | | | | 1.2 |
| | -120-NS | | | 120 | | | | 1.3 |
| | -150-NS | | | 150 | | | | 1.4 |
| | -200-NS | | | 200 | | | | 1.7 |
| | -250-NS | | | 250 | | | | 2.1 |
| | -SF12-075-NS | | 12 | 75 | 19 | 30 | 60 | 1.1 |
| | -090-NS | | | 90 | | | | 1.1 |
| | -120-NS | | | 120 | | | | 1.3 |
| | -150-NS | | | 150 | | | | 1.4 |
| | -200-NS | | | 200 | | | | 1.7 |
| | -250-NS | | | 250 | | | | 2.2 |
| | -SF16-075-NS | | 16 | 75 | 23 | 44 | 80 | 1.1 |
| | -090-NS | | | 90 | | | | 1.2 |
| | -120-NS | | | 120 | | | | 1.3 |
| | -150-NS | | | 150 | | | | 1.5 |
| | -200-NS | | | 200 | | | | 1.9 |
| | -250-NS | | | 250 | | | | 2.4 |
| | -SF20-075-NS | | 20 | 75 | 27 | 46 | 80 | 1.1 |
| | -090-NS | | | 90 | | | 1.2 | |
| | -120-NS | | | 120 | | | 1.3 | |
| | -150-NS | | | 150 | | | 1.6 | |
| | -200-NS | | | 200 | | | 2.1 | |
| | -250-NS | | | 250 | | | 2.7 | |

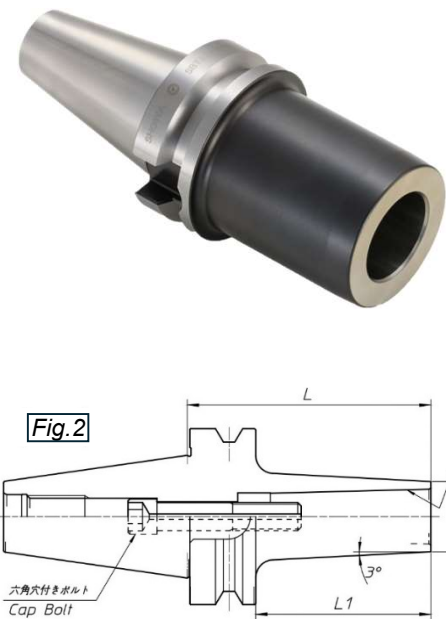
SBT40シャンク (BT40二面拘束仕様)

センタースルー対応
Thru-the-tool Coolant Available



Nタイプ

| TYPE | MODEL | Fig. | φ d | L | φ C | S | H | N/W(kg) |
|-------------|-------------|-------|-----|-----|-----|----|----|---------|
| N タイプ | -SF04-075-N | Fig.1 | 4 | 75 | 16 | 12 | 45 | 1.1 |
| | -150-N | | | 150 | | | | 1.2 |
| | -200-N | | | 200 | | | | 1.3 |
| | -SF06-075-N | | 6 | 75 | 25 | 25 | 60 | 1.2 |
| | -150-N | | | 150 | | | | 1.5 |
| | -200-N | | | 200 | | | | 1.7 |
| | -SF08-075-N | | 8 | 75 | 27 | 25 | 60 | 1.3 |
| | -150-N | | | 150 | | | | 1.6 |
| | -200-N | | | 200 | | | | 1.8 |
| | -SF10-075-N | | 10 | 75 | 29 | 30 | 60 | 1.3 |
| | -150-N | | | 150 | | | | 1.6 |
| | -200-N | | | 200 | | | | 1.9 |
| | -SF12-075-N | | 12 | 75 | 31 | 30 | 60 | 1.6 |
| | -150-N | | | 150 | | | | 1.7 |
| | -200-N | | | 200 | | | | 2 |
| | -SF16-090-N | | 16 | 90 | 35 | 40 | 80 | 1.5 |
| | -SF20-090-N | | 20 | 90 | 39 | 48 | | 1.5 |
| | -SF25-090-N | | 25 | 90 | 46 | 53 | | 1.6 |
| -SF32-090-N | 32 | 90 | 53 | 55 | 1.8 | | | |



| TYPE | MODEL | Fig. | MT NO. | L | L1 | φ C | N/W(kg) |
|--------------|----------------|-------|--------|-----|----|-----|---------|
| ジョイント タイプ | -SF-MT3-040-A3 | Fig.1 | MT3 | 40 | 13 | 32 | 0.9 |
| | -070-A3 | | | 70 | 43 | | 1.1 |
| | -SF-MT4-090-A3 | | MT4 | 90 | 63 | 40 | 1.2 |
| | -120-A3 | | | 120 | 93 | | 1.6 |

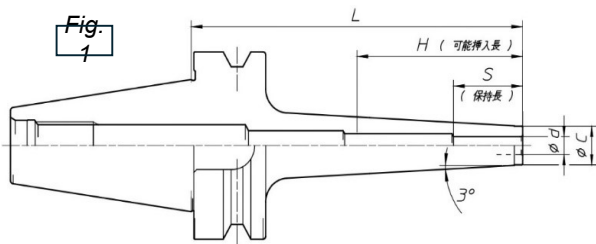
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SBT50シャンク (BT50二面拘束仕様)

センタースルー対応
Thru-the-tool Coolant Available



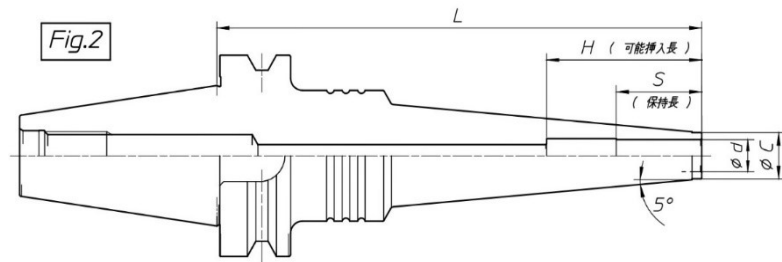
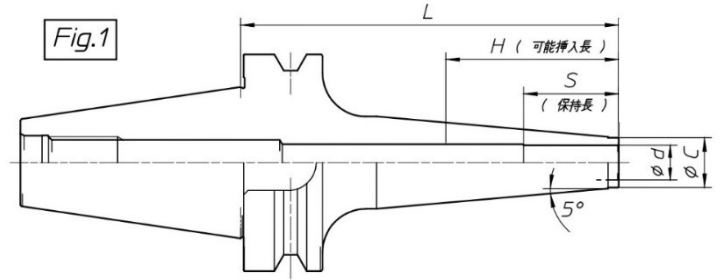
NSタイプ



| TYPE | MODEL | Fig. | ϕd | L | ϕC | S | H | N/W(kg) |
|-----------|--------------|-------|----------|-----|----------|----|-----|---------|
| NS タイプ | -SF04-105-NS | Fig.1 | 4 | 105 | 11 | 12 | 45 | 3.7 |
| | -120-NS | | | 120 | | | | 3.7 |
| | -150-NS | | | 150 | | | | 3.8 |
| | -200-NS | | | 200 | | | | 4.0 |
| | -250-NS | | | 250 | | | | 4.3 |
| | -300-NS | | | 300 | | | | 4.7 |
| | -SF06-105-NS | | 6 | 105 | 13 | 25 | 60 | 3.7 |
| | -120-NS | | | 120 | | | | 3.8 |
| | -150-NS | | | 150 | | | | 3.9 |
| | -200-NS | | | 200 | | | | 4.1 |
| | -250-NS | | | 250 | | | | 4.4 |
| | -300-NS | | | 300 | | | | 4.8 |
| | -SF08-105-NS | | 8 | 105 | 15 | 25 | 60 | 3.7 |
| | -120-NS | | | 120 | | | | 3.8 |
| | -150-NS | | | 150 | | | | 3.9 |
| | -200-NS | | | 200 | | | | 4.1 |
| | -250-NS | | | 250 | | | | 4.5 |
| | -300-NS | | | 300 | | | | 5.0 |
| | -SF10-105-NS | | 10 | 105 | 17 | 30 | 60 | 3.8 |
| | -120-NS | | | 120 | | | | 3.8 |
| | -150-NS | | | 150 | | | | 3.9 |
| | -200-NS | | | 200 | | | | 4.2 |
| | -250-NS | | | 250 | | | | 4.6 |
| | -300-NS | | | 300 | | | | 5.1 |
| | -SF12-105-NS | | 12 | 105 | 19 | 30 | 60 | 3.8 |
| | -120-NS | | | 120 | | | | 3.8 |
| | -150-NS | | | 150 | | | | 4.0 |
| | -200-NS | | | 200 | | | | 4.2 |
| | -250-NS | | | 250 | | | | 4.7 |
| | -300-NS | | | 300 | | | | 5.2 |
| | -SF16-105-NS | | 16 | 105 | 23 | 44 | 80 | 3.8 |
| | -120-NS | | | 120 | | | | 3.9 |
| | -150-NS | | | 150 | | | | 4.0 |
| | -200-NS | | | 200 | | | | 4.3 |
| | -250-NS | | | 250 | | | | 4.8 |
| | -300-NS | | | 300 | | | | 5.4 |
| | -SF20-105-NS | | 20 | 105 | 27 | 46 | 100 | 3.8 |
| | -120-NS | | | 120 | | | | 3.9 |
| | -150-NS | | | 150 | | | | 4.1 |
| | -200-NS | | | 200 | | | | 4.5 |
| | -250-NS | | | 250 | | | | 5.0 |
| | -300-NS | | | 300 | | | | 5.7 |

SBT50シャンク (BT50二面拘束仕様)

センタースルー対応
Thru-the-tool Coolant Available



| TYPE | MODEL | Fig. | ϕd | L | ϕC | S | H | N/W(kg) |
|-----------|----------------|-------|----------|-----|----------|----|-----|---------|
| TY タイプ | -SF04-175-N-TY | FIG.1 | 4 | 175 | 11 | 12 | 45 | 4.1 |
| | -250-N-TY | FIG.2 | | 250 | | | | 5.5 |
| | -SF06-175-N-TY | FIG.1 | 6 | 175 | 13 | 29 | 50 | 4.3 |
| | -250-N-TY | FIG.2 | | 250 | | | | 5.8 |
| | -SF08-175-N-TY | FIG.1 | 8 | 175 | 15 | 29 | 50 | 4.4 |
| | -250-N-TY | FIG.2 | | 250 | | | | 5.9 |
| | -SF10-175-N-TY | FIG.1 | 10 | 175 | 17 | 35 | 60 | 4.5 |
| | -250-N-TY | FIG.2 | | 250 | | | | 6.0 |
| | -SF12-175-N-TY | FIG.1 | 12 | 175 | 19 | 36 | 60 | 4.6 |
| | -250-N-TY | FIG.2 | | 250 | | | | 6.0 |
| | -SF16-175-N-TY | FIG.1 | 16 | 175 | 23 | 44 | 80 | 4.7 |
| | -250-N-TY | FIG.2 | | 250 | | | | 6.2 |
| | -SF20-175-N-TY | FIG.1 | 20 | 175 | 27 | 46 | 100 | 4.9 |
| | -250-N-TY | FIG.2 | | 250 | | | | 6.5 |
| | -SF25-175-N-TY | FIG.1 | 25 | 175 | 32 | 55 | 100 | 5.0 |
| | -250-N-TY | FIG.2 | | 250 | | | | 6.5 |
| | -SF32-175-N-TY | FIG.1 | 32 | 175 | 39 | 66 | 120 | 5.7 |
| | -250-N-TY | FIG.2 | | 250 | | | | 6.9 |

SBT50シャンク (BT50二面拘束仕様)

センタースルー対応
Thru-the-tool Coolant Available



Nタイプ

Fig.1

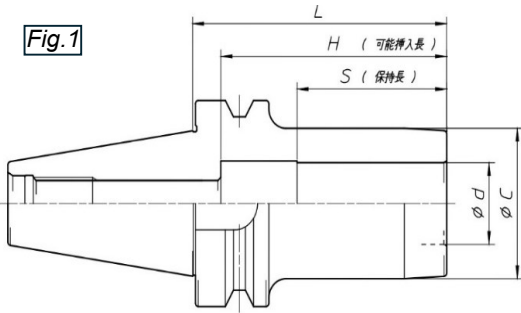
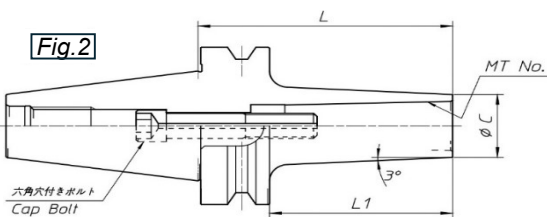


Fig.2



| TYPE | MODEL | Fig. | φd | L | φC | S | H | N/W(kg) |
|---------------|-------------|-------|----|-----|-----|-----|----|---------|
| N タイプ | -SF04-090-N | Fig.1 | 4 | 90 | 16 | 12 | 45 | 3.7 |
| | -150-N | | | 150 | | | | 3.8 |
| | -200-N | | | 200 | | | | 3.9 |
| | -250-N | | | 250 | | | | 3.9 |
| | -SF06-090-N | | 6 | 90 | 25 | 25 | 60 | 4.1 |
| | -150-N | | | 150 | | | | 4.3 |
| | -200-N | | | 200 | | | | 4.5 |
| | -250-N | | | 250 | | | | 4.7 |
| | -SF08-090-N | | 8 | 90 | 27 | 25 | 60 | 4.2 |
| | -150-N | | | 150 | | | | 4.4 |
| | -200-N | | | 200 | | | | 4.6 |
| | -250-N | | | 250 | | | | 4.8 |
| | -SF10-090-N | | 10 | 90 | 29 | 30 | 80 | 4.2 |
| | -150-N | | | 150 | | | | 4.5 |
| | -200-N | | | 200 | | | | 4.7 |
| | -250-N | | | 250 | | | | 4.9 |
| | -SF12-090-N | | 12 | 90 | 31 | 30 | 80 | 4.2 |
| | -150-N | | | 150 | | | | 4.5 |
| | -200-N | | | 200 | | | | 4.8 |
| | -250-N | | | 250 | | | | 5.0 |
| | -SF16-105-N | | 16 | 105 | 35 | 40 | 80 | 4.3 |
| | -150-N | | | 150 | | | | 4.6 |
| | -200-N | | | 200 | | | | 4.7 |
| | -250-N | | | 250 | | | | 5.2 |
| -SF20-105-N | 20 | 105 | 39 | 48 | 100 | 4.4 | | |
| -150-N | | 150 | | | | 4.7 | | |
| -200-N | | 200 | | | | 5 | | |
| -250-N | | 250 | | | | 5.4 | | |
| -SF25-105-N | 25 | 105 | 46 | 53 | 100 | 4.5 | | |
| -SF32-105-N | 32 | 105 | 53 | 55 | 100 | 4.7 | | |
| -SF42-120-N | 42 | 120 | 65 | 70 | 110 | 5.0 | | |
| -SF50.8-115-N | 50.8 | 115 | 75 | 70 | 100 | 5.4 | | |

| TYPE | MODEL | Fig. | MT NO. | L | L1 | φC | N/W(kg) |
|--------------|----------------|-------|--------|-----|-----|----|---------|
| ジョイント タイプ | -SF-MT4-075-A3 | Fig.1 | MT4 | 75 | 37 | 40 | 3.6 |
| | -105-A3 | | | 105 | 67 | | 4.0 |
| | -135-A3 | | | 135 | 97 | | 4.3 |
| | -200-A3 | | | 200 | 162 | | 5.4 |

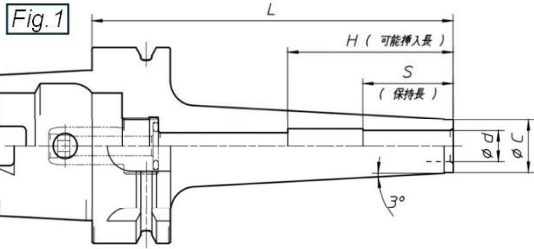
※ジョイントタイプの先端についてはP.16にてご確認ください。

HSKA50シャンク

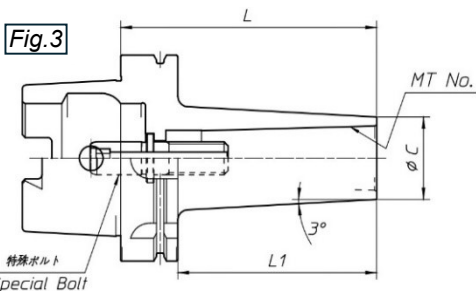
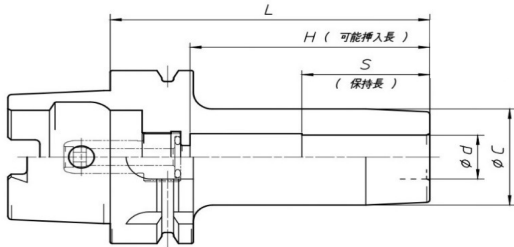
センタースルー対応
Thru-the-tool Coolant Available



NSタイプ



Nタイプ



| TYPE | MODEL | Fig. | φd | L | φC | S | H | N/W(kg) | | |
|-----------|--------------|-------|----|--------------|-----|-----|-----|---------|-----|-----|
| NS タイプ | HSKA50 | Fig.1 | 4 | -SF04-080-NS | 80 | | | | 0.5 | |
| | | | | -100-NS | 100 | 11 | 12 | 45 | 0.5 | |
| | | | | -120-NS | 120 | | | | 0.6 | |
| | | | 6 | -SF06-080-NS | 80 | | | | | 0.5 |
| | | | | -100-NS | 100 | 13 | 25 | 55 | 0.6 | |
| | | | | -120-NS | 120 | | | | 0.6 | |
| | | | 8 | -SF08-080-NS | 80 | | | | | 0.5 |
| | | | | -100-NS | 100 | 15 | 25 | 55 | 0.6 | |
| | | | | -120-NS | 120 | | | | 0.7 | |
| | | | 10 | -SF10-080-NS | 80 | | | | | 0.5 |
| | | | | -100-NS | 100 | 17 | 30 | 55 | 0.6 | |
| | | | | -120-NS | 120 | | | | 0.7 | |
| | | | 12 | -SF12-080-NS | 80 | | | | | 0.6 |
| | | | | -100-NS | 100 | 19 | 30 | 55 | 0.6 | |
| | | | | -120-NS | 120 | | | | 0.7 | |
| | | | 16 | -SF16-080-NS | 80 | | | | 57 | 0.6 |
| | | | | -100-NS | 100 | 23 | 44 | 75 | 0.7 | |
| | | | | -120-NS | 120 | | | 80 | 0.8 | |
| 20 | -SF20-080-NS | 80 | | | | 57 | 0.6 | | | |
| | -100-NS | 100 | 27 | 46 | 75 | 0.7 | | | | |
| | -120-NS | 120 | | | 95 | 0.8 | | | | |

| TYPE | MODEL | Fig. | φd | L | φC | S | H | N/W(kg) | |
|----------|--------|-------|-------------|----|-----|----|----|---------|-----|
| N タイプ | HSKA50 | Fig.2 | -SF04-070-N | 4 | 70 | 16 | 12 | 45 | 0.5 |
| | | | -SF06-080-N | 6 | 80 | 25 | 25 | 55 | 0.6 |
| | | | -SF08-080-N | 8 | 80 | 27 | 25 | 55 | 0.7 |
| | | | -SF10-085-N | 10 | 85 | 29 | 30 | 60 | 0.7 |
| | | | -SF12-090-N | 12 | 90 | 31 | 30 | 65 | 0.8 |
| | | | -SF16-100-N | 16 | 100 | 35 | 40 | 75 | 0.9 |
| | | | -SF20-100-N | 20 | 100 | 39 | 48 | 75 | 0.9 |

| TYPE | MODEL | Fig. | MT NO. | L | L1 | φC | N/W(kg) | |
|--------------|--------|-------|----------------|-----|-----|----|---------|-----|
| ジョイント タイプ | HSKA50 | Fig.3 | -SF-MT2-090-A3 | MT2 | 90 | 64 | 25 | 0.6 |
| | | | -SF-MT3-105-A3 | MT3 | 105 | 79 | 32 | 0.8 |

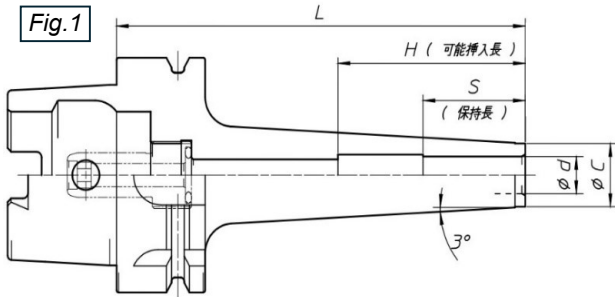
※ジョイントタイプの先端についてはP.16にてご確認ください。

HSKA63シャンク

センタースルー対応
Thru-the-tool Coolant Available



NSタイプ



| TYPE | MODEL | Fig. | ϕd | L | ϕC | S | H | N/W(kg) | | | |
|-----------|--------------|-------|----------|--------------|----------|----|-----|---------|--|--|--|
| NS タイプ | HSKA63 | Fig.1 | 4 | 80 | 11 | 12 | 45 | 0.8 | | | |
| | | | | 100 | | | | 0.8 | | | |
| | | | | 120 | | | | 0.8 | | | |
| | | | | 150 | | | | 0.9 | | | |
| | | | | 200 | | | | 1.1 | | | |
| | | | | 250 | | | | 1.4 | | | |
| | | | 6 | 80 | 13 | 25 | 55 | 0.8 | | | |
| | | | | 100 | | | | 0.8 | | | |
| | | | | 120 | | | | 0.9 | | | |
| | | | | 150 | | | | 1.0 | | | |
| | | | | 200 | | | | 1.2 | | | |
| | | | | 250 | | | | 1.5 | | | |
| | | | 8 | 80 | 15 | 25 | 55 | 0.8 | | | |
| | | | | 100 | | | | 0.8 | | | |
| | | | | 120 | | | | 0.9 | | | |
| | | | | 150 | | | | 1.0 | | | |
| | | | | 200 | | | | 1.3 | | | |
| | | | | 250 | | | | 1.7 | | | |
| | | | 10 | 80 | 17 | 30 | 55 | 0.8 | | | |
| | | | | 100 | | | | 0.9 | | | |
| | | | | 120 | | | | 0.9 | | | |
| | | | | 150 | | | | 1.1 | | | |
| | | | | 200 | | | | 1.4 | | | |
| | | | | 250 | | | | 1.8 | | | |
| | | | 12 | 80 | 19 | 30 | 55 | 0.8 | | | |
| | | | | 100 | | | 0.9 | | | | |
| | | | | 120 | | | 1.0 | | | | |
| | | | | 150 | | | 1.1 | | | | |
| | | | | 200 | | | 1.5 | | | | |
| | | | | 250 | | | 2.0 | | | | |
| | | | 16 | 80 | 23 | 44 | 55 | 0.8 | | | |
| | | | | 100 | | | 0.9 | | | | |
| | | | | 120 | | | 1.0 | | | | |
| | | | | 150 | | | 1.2 | | | | |
| | | | | 200 | | | 1.7 | | | | |
| | | | | 250 | | | 2.2 | | | | |
| | | | 20 | 80 | 27 | 46 | 55 | 0.9 | | | |
| | | | | 100 | | | 0.9 | | | | |
| | | | | 120 | | | 1.1 | | | | |
| | | | | 150 | | | 1.3 | | | | |
| | | | | 200 | | | 1.9 | | | | |
| | | | | 250 | | | 2.6 | | | | |
| | | | | -SF04-080-NS | | | | | | | |
| | | | | -100-NS | | | | | | | |
| | | | | -120-NS | | | | | | | |
| | | | | -150-NS | | | | | | | |
| | | | | -200-NS | | | | | | | |
| | | | | -250-NS | | | | | | | |
| | -SF06-080-NS | | | | | | | | | | |
| | -100-NS | | | | | | | | | | |
| | -120-NS | | | | | | | | | | |
| | -150-NS | | | | | | | | | | |
| | -200-NS | | | | | | | | | | |
| | -250-NS | | | | | | | | | | |
| | -SF08-080-NS | | | | | | | | | | |
| | -100-NS | | | | | | | | | | |
| | -120-NS | | | | | | | | | | |
| | -150-NS | | | | | | | | | | |
| | -200-NS | | | | | | | | | | |
| | -250-NS | | | | | | | | | | |
| | -SF10-080-NS | | | | | | | | | | |
| | -100-NS | | | | | | | | | | |
| | -120-NS | | | | | | | | | | |
| | -150-NS | | | | | | | | | | |
| | -200-NS | | | | | | | | | | |
| | -250-NS | | | | | | | | | | |
| | -SF12-080-NS | | | | | | | | | | |
| | -100-NS | | | | | | | | | | |
| | -120-NS | | | | | | | | | | |
| | -150-NS | | | | | | | | | | |
| | -200-NS | | | | | | | | | | |
| | -250-NS | | | | | | | | | | |
| | -SF16-080-NS | | | | | | | | | | |
| | -100-NS | | | | | | | | | | |
| | -120-NS | | | | | | | | | | |
| | -150-NS | | | | | | | | | | |
| | -200-NS | | | | | | | | | | |
| | -250-NS | | | | | | | | | | |
| | -SF20-080-NS | | | | | | | | | | |
| | -100-NS | | | | | | | | | | |
| | -120-NS | | | | | | | | | | |
| | -150-NS | | | | | | | | | | |
| | -200-NS | | | | | | | | | | |
| | -250-NS | | | | | | | | | | |

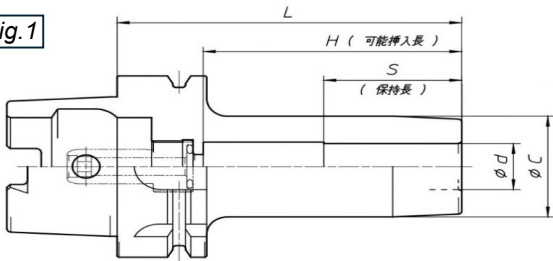
HSKA63シャンク

センタースルー対応
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Nタイプ

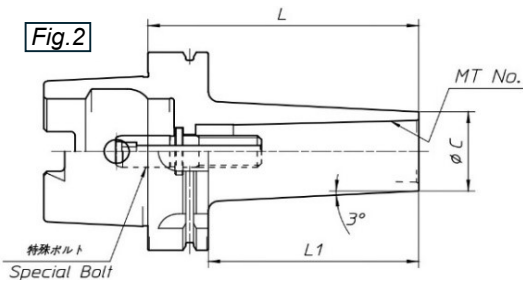
Fig.1



| TYPE | MODEL | Fig. | φ d | L | φ C | S | H | N/W(kg) |
|----------|--------------------|-------|-----|-----|-----|----|----|---------|
| N タイプ | HSKA63 -SF04-080-N | Fig.1 | 4 | 80 | 16 | 12 | 45 | 0.8 |
| | -SF06-080-N | | 6 | 80 | 25 | 25 | 55 | 0.9 |
| | -SF08-080-N | | 8 | 80 | 27 | 25 | 55 | 0.9 |
| | -SF10-085-N | | 10 | 85 | 29 | 30 | 60 | 1.0 |
| | -SF12-090-N | | 12 | 90 | 31 | 30 | 65 | 1.0 |
| | -SF16-100-N | | 16 | 100 | 35 | 40 | 75 | 1.1 |
| | -SF20-100-N | | 20 | 100 | 39 | 48 | 75 | 1.2 |
| | -SF25-110-N | | 25 | 110 | 46 | 53 | 80 | 1.4 |
| | -SF32-115-N | | 32 | 115 | 53 | 55 | 80 | 1.6 |



Fig.2



| TYPE | MODEL | Fig. | MT NO. | L | L1 | φ C | N/W(kg) |
|--------------|-----------------------|-------|--------|-----|-----|-----|---------|
| ジョイント タイプ | HSKA63 -SF-MT3-105-A3 | Fig.2 | MT3 | 105 | 79 | 32 | 1.1 |
| | -135-A3 | | | 135 | 109 | | 1.4 |
| | -SF-MT4-130-A3 | | MT4 | 130 | 104 | 40 | 1.5 |
| | -160-A3 | | | 160 | 134 | | 2.0 |
| | -190-A3 | | | 190 | 164 | | 2.5 |
| | | | | | | | |

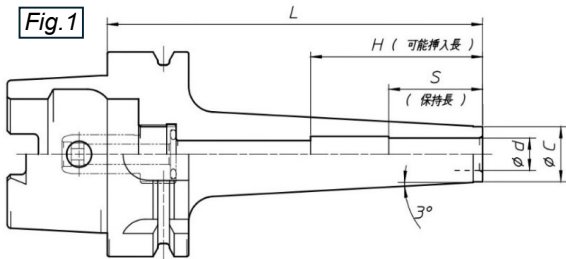
※ジョイントタイプの先端についてはP.16にてご確認ください。

HSKA100シャンク

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NSタイプ



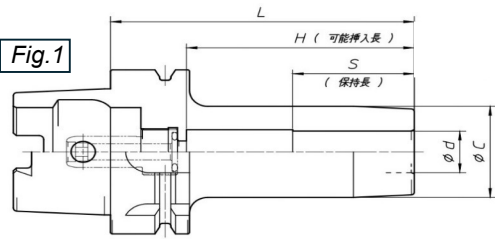
| TYPE | MODEL | Fig. | φ d | L | φ C | S | H | N/W(kg) | |
|-----------|---------|-------|-----|--------------|-----|----|----|---------|-----|
| NS タイプ | HSKA100 | Fig.1 | | -SF04-105-NS | 105 | 11 | 12 | 45 | 2.2 |
| | | | | -120-NS | 120 | | | | 2.2 |
| | | | | -135-NS | 135 | | | | 2.3 |
| | | | | -150-NS | 150 | | | | 2.3 |
| | | | | -200-NS | 200 | | | | 2.5 |
| | | | | -250-NS | 250 | | | | 2.8 |
| | | | | -300-NS | 300 | | | | 3.3 |
| | | | | -SF06-105-NS | 105 | 13 | 25 | 60 | 2.2 |
| | | | | -120-NS | 120 | | | | 2.3 |
| | | | | -135-NS | 135 | | | | 2.3 |
| | | | | -150-NS | 150 | | | | 2.4 |
| | | | | -200-NS | 200 | | | | 2.6 |
| | | | | -250-NS | 250 | | | | 3.0 |
| | | | | -300-NS | 300 | | | | 3.4 |
| | | | | -SF08-105-NS | 105 | 15 | 25 | 60 | 2.3 |
| | | | | -120-NS | 120 | | | | 2.3 |
| | | | | -135-NS | 135 | | | | 2.4 |
| | | | | -150-NS | 150 | | | | 2.4 |
| | | | | -200-NS | 200 | | | | 2.7 |
| | | | | -250-NS | 250 | | | | 3.1 |
| | | | | -300-NS | 300 | | | | 3.6 |
| | | | | -SF10-105-NS | 105 | 17 | 30 | 60 | 2.3 |
| | | | | -120-NS | 120 | | | | 2.3 |
| | | | | -135-NS | 135 | | | | 2.4 |
| | | | | -150-NS | 150 | | | | 2.5 |
| | | | | -200-NS | 200 | | | | 2.8 |
| | | | | -250-NS | 250 | | | | 3.2 |
| | | | | -300-NS | 300 | | | | 3.7 |
| | | | | -SF12-105-NS | 105 | 19 | 30 | 60 | 2.3 |
| | | | | -120-NS | 120 | | | | 2.4 |
| | | | | -135-NS | 135 | | | | 2.5 |
| | | | | -150-NS | 150 | | | | 2.5 |
| | | | | -200-NS | 200 | | | | 2.9 |
| | | | | -250-NS | 250 | | | | 3.4 |
| | | | | -300-NS | 300 | | | | 4.0 |
| | | | | -SF16-105-NS | 105 | 23 | 44 | 73 | 2.3 |
| | | | | -120-NS | 120 | | | 2.4 | |
| | | | | -135-NS | 135 | | | 2.5 | |
| | | | | -150-NS | 150 | | | 2.6 | |
| | | | | -200-NS | 200 | | | 3.1 | |
| | | | | -250-NS | 250 | | | 3.6 | |
| | | | | -300-NS | 300 | | | 4.3 | |
| | | | | -SF20-105-NS | 105 | 27 | 46 | 73 | 2.4 |
| | | | | -120-NS | 120 | | | 88 | 2.4 |
| | | | | -135-NS | 135 | | | 2.5 | |
| | | | | -150-NS | 150 | | | 2.7 | |
| | | | | -200-NS | 200 | | | 100 | 3.2 |
| | | | | -250-NS | 250 | | | 3.9 | |
| -300-NS | 300 | 4.7 | | | | | | | |

HSKA100シャンク

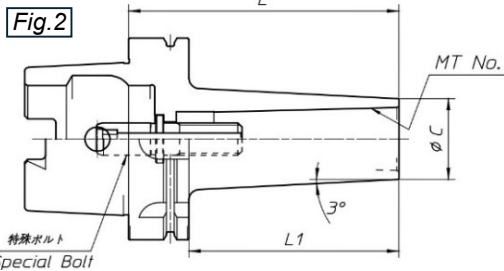
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Thru-the-tool Coolant Available



Nタイプ



| TYPE | MODEL | Fig. | φ d | L | φ C | S | H | N/W(kg) | |
|----------|---------|-------|-------------|----|-----|----|----|---------|-----|
| N タイプ | HSKA100 | Fig.1 | -SF04-090-N | 4 | 90 | 16 | 12 | 45 | 2.2 |
| | | | -SF06-090-N | 6 | 90 | 25 | 25 | 55 | 2.1 |
| | | | -SF08-090-N | 8 | 90 | 27 | 25 | 55 | 2.2 |
| | | | -SF10-095-N | 10 | 95 | 29 | 30 | 60 | 2.2 |
| | | | -SF12-100-N | 12 | 100 | 31 | 30 | 65 | 2.3 |
| | | | -SF16-105-N | 16 | 105 | 35 | 40 | 73 | 2.4 |
| | | | -SF20-110-N | 20 | 110 | 39 | 48 | 78 | 2.4 |
| | | | -SF25-115-N | 25 | 115 | 46 | 53 | 83 | 2.6 |
| | | | -SF32-120-N | 32 | 120 | 53 | 55 | 88 | 2.8 |
| | | | -SF42-135-N | 42 | 135 | 65 | 70 | 100 | 3.3 |

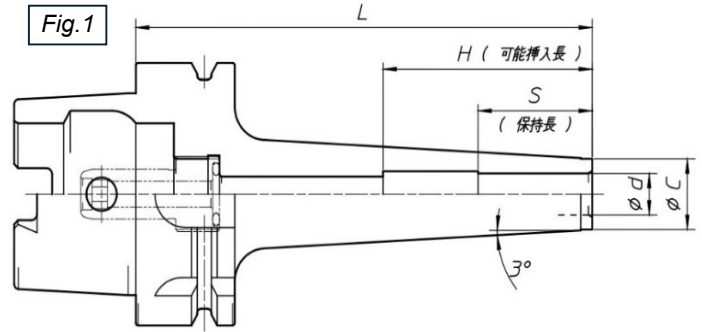


| TYPE | MODEL | Fig. | MT NO. | L | L1 | φ C | N/W(kg) | |
|--------------|---------|-------|--------|----------------|-----|-----|---------|-----|
| ジョイント タイプ | HSKA100 | Fig.2 | MT4 | -SF-MT4-130-A3 | 130 | 101 | 2.8 | |
| | | | | -160-A3 | 160 | 131 | 40 | 3.3 |
| | | | | -190-A3 | 190 | 161 | 3.8 | |

※ジョイントタイプの先端についてはP.16にてご確認ください。

HSKEタイプシャンク

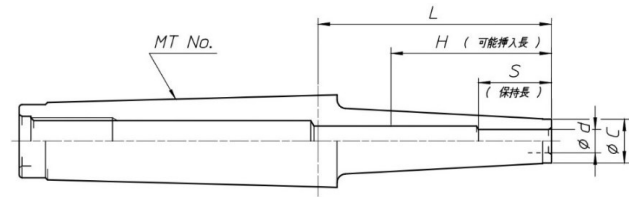
センタースルー対応
Thru-the-tool Coolant Available



| TYPE | MODEL | Fig. | ϕd | L | ϕC | S | H | N/W(kg) |
|-----------|--------|-------|----------|----|----------|------|------|---------|
| NS タイプ | HSKE25 | Fig.1 | 4 | 50 | 11 | 12 | 30 | 0.18 |
| | | | 6 | | 13 | 25 | 40 | 0.18 |
| | | | 8 | | 15 | 25 | 40 | 0.18 |
| | HSKE32 | | 4 | 70 | 11 | 12 | 35 | 0.25 |
| | | | 4 | 90 | 11 | 12 | 35 | 0.40 |
| | | | 6 | 70 | 13 | 25 | 55 | 0.25 |
| | | | 6 | 90 | 13 | 25 | 55 | 0.40 |
| | | | 8 | 70 | 15 | 25 | 55 | 0.25 |
| | | | 8 | 90 | 15 | 25 | 55 | 0.40 |
| | | | 10 | 70 | 17 | 30 | 55 | 0.25 |
| | | | 10 | 90 | 17 | 30 | 55 | 0.40 |
| | | | 12 | 70 | 19 | 30 | 55 | 0.25 |
| | 12 | | 90 | 19 | 30 | 55 | 0.40 | |
| | HSKE40 | | 4 | 75 | 11 | 12 | 45 | 0.27 |
| | | | 6 | | 13 | 25 | 55 | 0.27 |
| | | | 8 | | 15 | 25 | 55 | 0.29 |
| | | | 10 | | 17 | 30 | 55 | 0.30 |
| | | | 12 | | 19 | 30 | 55 | 0.30 |
| | HSKE50 | | 4 | 80 | 11 | 12 | 45 | 0.43 |
| | | | 6 | | 13 | 25 | 55 | 0.44 |
| 8 | | 15 | 25 | | 55 | 0.45 | | |
| 10 | | 17 | 30 | | 55 | 0.47 | | |
| 12 | | 19 | 30 | | 55 | 0.48 | | |

ジョイントタイプ(先端)

センタースルー対応
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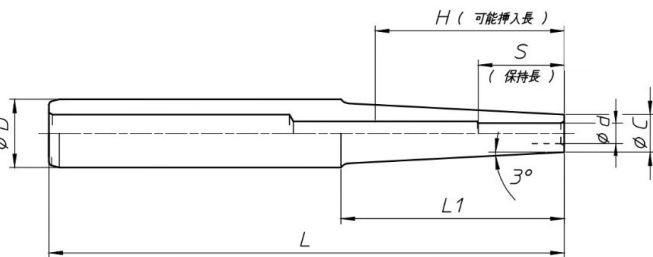


| MODEL | ϕd | L | ϕC | S | H | N/W(kg) | |
|---------|--------------|----|----------|----|----|---------|------|
| MT2 | -SF04-020-NS | 4 | 20 | 11 | 12 | 45 | 0.11 |
| | -035-NS | | 35 | | | | 0.12 |
| | -050-NS | | 50 | | | | 0.14 |
| | -SF06-035-NS | 6 | 35 | 13 | 25 | 55 | 0.12 |
| | -050-NS | | 50 | | | | 0.14 |
| | -065-NS | | 65 | | | | 0.16 |
| | -SF08-035-NS | 8 | 35 | 15 | 25 | 55 | 0.13 |
| | -050-NS | | 50 | | | | 0.15 |
| | -065-NS | | 65 | | | | 0.19 |
| | -SF10-065-NS | 10 | 65 | 17 | 30 | 55 | 0.20 |
| | -080-NS | | 80 | | | | 0.25 |
| -095-NS | 95 | | 0.30 | | | | |
| MT3 | -SF04-025-NS | 4 | 25 | 11 | 12 | 45 | 0.23 |
| | -045-NS | | 45 | | | | 0.25 |
| | -065-NS | | 65 | | | | 0.28 |
| | -SF06-035-NS | 6 | 35 | 13 | 25 | 55 | 0.23 |
| | -050-NS | | 50 | | | | 0.25 |
| | -065-NS | | 65 | | | | 0.27 |
| | -SF08-035-NS | 8 | 35 | 15 | 25 | 55 | 0.24 |
| | -050-NS | | 50 | | | | 0.27 |
| | -065-NS | | 65 | | | | 0.29 |
| | -SF10-040-NS | 10 | 40 | 17 | 30 | 55 | 0.26 |
| | -060-NS | | 60 | | | | 0.30 |
| | -080-NS | | 80 | | | | 0.36 |
| | -SF12-040-NS | 12 | 40 | 19 | 30 | 55 | 0.26 |
| | -060-NS | | 60 | | | | 0.31 |
| -080-NS | 80 | | 0.38 | | | | |
| MT4 | -SF04-035-NS | 4 | 35 | 11 | 12 | 45 | 0.48 |
| | -055-NS | | 55 | | | | 0.51 |
| | -080-NS | | 80 | | | | 0.55 |
| | -SF06-035-NS | 6 | 35 | 13 | 25 | 55 | 0.48 |
| | -055-NS | | 55 | | | | 0.51 |
| | -080-NS | | 80 | | | | 0.56 |
| | -SF08-035-NS | 8 | 35 | 15 | 25 | 55 | 0.48 |
| | -055-NS | | 55 | | | | 0.52 |
| | -080-NS | | 80 | | | | 0.58 |
| | -SF10-040-NS | 10 | 40 | 17 | 30 | 55 | 0.48 |
| | -060-NS | | 60 | | | | 0.53 |
| | -080-NS | | 80 | | | | 0.59 |
| | -SF12-040-NS | 12 | 40 | 19 | 30 | 55 | 0.49 |
| | -060-NS | | 60 | | | | 0.53 |
| -080-NS | 80 | | 0.59 | | | | |

STシャンク

センタースルー対応

Thru-the-tool Coolant Available

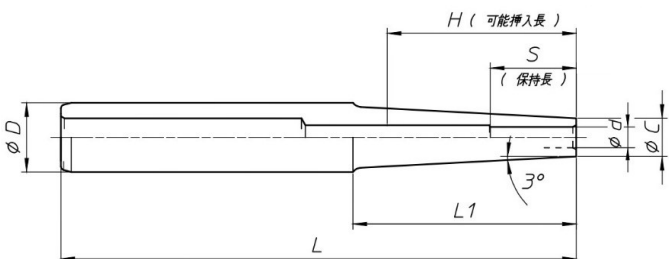


| MODEL | ϕd | ϕD | L | L1 | ϕC | S | H | N/W(kg) | | | | | | | | | | |
|-----------------------------------|-----------------------------------|----------|------|-------|----------|------|-----|---------|------|----|----|------|----|----|------|----|----|------|
| ST16 | -SF04-090 -120 -150 | 4 | 16 | 90 | 25 | 9 | 12 | 45 | 0.11 | | | | | | | | | |
| | | | | 120 | 50 | | | | 0.14 | | | | | | | | | |
| | | | | 150 | 65 | | | | 0.15 | | | | | | | | | |
| | -SF06-090 -120 -150 | | | 90 | 25 | | | | 11 | 25 | 55 | 0.10 | | | | | | |
| | | | | 120 | 40 | | | | | | | 0.14 | | | | | | |
| | | | | 150 | (47) | | | | | | | 0.16 | | | | | | |
| | -SF08-090 -120 -150 | | | 90 | 25 | | | | | | | 13 | 25 | 55 | 0.10 | | | |
| | | | | 120 | (28) | | | | | | | | | | 0.13 | | | |
| | | | | 150 | (28) | | | | | | | | | | 0.17 | | | |
| ST20 | -SF04-120 -150 -175 200 | 4 | 20 | 120 | 40 | 9 | 12 | 45 | | | | | | | 0.17 | | | |
| | | | | 150 | 65 | | | | | | | | | | 0.21 | | | |
| | | | | 175 | 80 | | | | | | | | | | 0.25 | | | |
| | | | | 200 | (104) | | | | 0.32 | | | | | | | | | |
| | -SF06-120 -150 -175 -200 | | | 120 | 40 | | | | 11 | 25 | 55 | | | | 0.18 | | | |
| | | | | 150 | 65 | | | | | | | | | | 0.22 | | | |
| | | | | 175 | (85) | | | | | | | 0.26 | | | | | | |
| | | | | 200 | (85) | | | | | | | 0.32 | | | | | | |
| | -SF08-120 -150 -175 -200 | | | 120 | 40 | | | | | | | 13 | 25 | 55 | 0.18 | | | |
| | | | | 150 | 65 | | | | | | | | | | 0.23 | | | |
| | | | | 175 | (66) | | | | | | | | | | 0.28 | | | |
| | | | | 200 | (66) | | | | | | | | | | 0.33 | | | |
| | -SF10-120 -150 -175 -200 | | | 120 | 40 | | | | | | | | | | 15 | 30 | 60 | 0.19 |
| | | | | 150 | (47) | | | | | | | | | | | | | 0.23 |
| | | | | 175 | (47) | | | | | | | | | | | | | 0.28 |
| 200 | | (47) | 0.32 | | | | | | | | | | | | | | | |
| -SF12-120 -150 -175 -200 | 120 | | 17 | 30 | 65 | 0.18 | | | | | | | | | | | | |
| | 150 | (28) | | | | 0.25 | | | | | | | | | | | | |
| | 175 | | | | | 0.28 | | | | | | | | | | | | |
| | 200 | | | | | 0.32 | | | | | | | | | | | | |
| ST25 | -SF04-150 -200 -250 -300 | 4 | | | | 25 | 150 | 70 | 9 | 12 | 45 | | | | | | | 0.32 |
| | | | | | | | 200 | 100 | | | | | | | | | | 0.49 |
| | | | | | | | 250 | 125 | | | | | | | | | | 0.57 |
| | | | | | | | 300 | (152) | | | | 0.73 | | | | | | |
| | -SF06-150 -200 -250 -300 | | | | | | 150 | 70 | | | | 11 | 25 | 55 | | | | 0.33 |
| | | | | | | | 200 | 100 | | | | | | | | | | 0.45 |
| | | | | | | | 250 | (133) | | | | | | | | | | 0.60 |
| | | | | | | | 300 | (133) | | | | | | | 0.77 | | | |
| | -SF08-150 -200 -250 -300 | | | | | | 150 | 70 | | | | | | | 13 | 25 | 55 | 0.34 |
| | | | | | | | 200 | 100 | | | | | | | | | | 0.48 |
| | | | | | | | 250 | (114) | | | | | | | | | | 0.64 |
| | | | 300 | (114) | 0.80 | | | | | | | | | | | | | |
| -SF10-150 -200 -250 -300 | 150 | 70 | 15 | 30 | 60 | 0.36 | | | | | | | | | | | | |
| | 200 | (95) | | | | 0.50 | | | | | | | | | | | | |
| | 250 | (95) | | | | 0.66 | | | | | | | | | | | | |
| | 300 | (95) | | | | 0.81 | | | | | | | | | | | | |
| -SF12-150 -200 -250 -300 | 150 | 70 | | | | 17 | 30 | 65 | 0.35 | | | | | | | | | |
| | 200 | (76) | | | | | | | 0.49 | | | | | | | | | |
| | 250 | (76) | | | | | | | 0.63 | | | | | | | | | |
| | 300 | (76) | | | | | | | 0.77 | | | | | | | | | |

STシャンク

センタースルー対応

Thru-the-tool Coolant Available



| MODEL | ϕd | ϕD | L | L1 | ϕC | S | H | N/W(kg) | |
|-------|-----------|----------|-----------|------|----------|-----|------|---------|------|
| ST32 | 4 | 32 | -SF04-250 | 250 | 130 | 9 | 12 | 45 | 0.89 |
| | | | -300 | 300 | 180 | | | | 1.10 |
| | | | -350 | 350 | 180 | | | | 1.36 |
| | 6 | | -SF06-250 | 250 | 130 | 11 | 25 | 55 | 0.94 |
| | | | -300 | 300 | 180 | | | | 1.15 |
| | | | -350 | 350 | (200) | | | | 1.44 |
| | 8 | | -SF08-250 | 250 | 130 | 13 | 25 | 55 | 0.97 |
| | | | -300 | 300 | (181) | | | | 1.20 |
| | | | -350 | 350 | (181) | | | | 1.50 |
| | 10 | | -SF10-250 | 250 | 130 | 15 | 30 | 60 | 0.95 |
| | | | -300 | 300 | (162) | | | | 1.30 |
| | | | -350 | 350 | (162) | | | | 1.47 |
| | 12 | | -SF12-150 | 150 | 65 | 17 | 30 | 65 | 0.60 |
| | | | -200 | 200 | 115 | | | | 0.79 |
| | | | -250 | 250 | (143) | | | | 1.07 |
| | | | -300 | 300 | (143) | | | | 1.35 |
| -350 | | 350 | (143) | 1.66 | | | | | |
| 16 | -SF16-150 | 150 | 65 | 21 | 44 | 80 | 0.62 | | |
| | -200 | 200 | (104) | | | | 0.88 | | |
| | -250 | 250 | (104) | | | | 1.17 | | |
| | -300 | 300 | (104) | | | | 1.46 | | |
| 20 | -SF20-150 | 150 | 65 | 25 | 48 | 100 | 0.58 | | |
| | -200 | 200 | (66) | | | | 0.88 | | |
| | -350 | 350 | (104) | | | | 1.66 | | |
| ST42 | 10 | 42 | -SF10-350 | 350 | 200 | 15 | 30 | 60 | 2.31 |
| | | | -400 | 400 | 220 | | | | 2.78 |
| | | | -450 | 450 | (257) | | | | 3.27 |
| | 12 | | -SF12-350 | 350 | 200 | 17 | 30 | 65 | 2.41 |
| | | | -400 | 400 | 220 | | | | 2.90 |
| | | | -450 | 450 | (238) | | | | 3.42 |
| | 16 | | -SF16-350 | 350 | (200) | 21 | 44 | 80 | 2.65 |
| | | | -400 | 400 | (200) | | | | 3.17 |
| | | | -450 | 450 | (200) | | | | 3.69 |
| | 20 | | -SF20-150 | 150 | 65 | 25 | 48 | 100 | 0.97 |
| | | | -200 | 200 | 100 | | | | 1.36 |
| | | | -250 | 250 | 130 | | | | 1.81 |
| | | | -300 | 300 | (162) | | | | 2.30 |
| | | | -350 | 350 | (162) | | | | 2.82 |
| | | | -400 | 400 | (162) | | | | 3.34 |
| | 25 | | -SF25-150 | 150 | 65 | 30 | 60 | 100 | 0.96 |
| -200 | | 200 | (114) | 1.42 | | | | | |
| -250 | | 250 | (114) | 1.94 | | | | | |
| -300 | | 300 | (114) | 2.46 | | | | | |

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