



ADAPTOR

Significant Pictogram Description J02

Hydraulic Expansion Adaptor

BT-HYD Series J04
HSK-HYD Series J05

Shrink Fit Adaptor

BT-SFA Series J07
HSK-SFA Series J09

Power Milling Adaptor

BT-PMA Series J13

Er Collet Adaptor

BT-ER Series J15
HSK-ER Series J18

Face Mill Adaptor

BT-FMA Series J21
HSK-FMA Series J23

Side Lock Adaptor

BT-SLA Series J25
HSK-SLA Series J26

Morse Taper Adaptor

BT-MTA Series J29

Apu Drill Chuck

BT-APU Series J31



ADAPTOR



Significant Pictogram Description

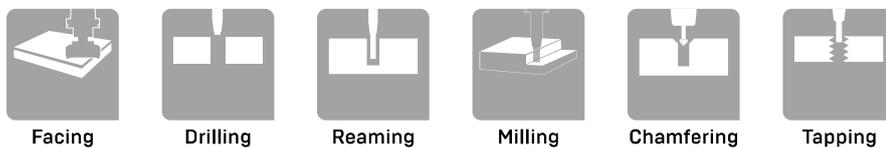
Common Pictogram

| | | | | | |
|--------------------------|--------------------------------|---|--------------------------|---------------------|---|
| G2.5 G value | Rotational Durability Diameter | 130 ~ 500 kgf · m Clamping Force | External Machining Force | C Coolant | Internal Coolant System Installed |
| 25,000 Max RPM | Allowable Rotation Value | 130 MIN Range | Min. Boring Diameter | C Coolant | Internal Coolant System is Optional |
| 5µm Run Out | Vibration Tolerance | 535 MAX Range | Max. Boring Diameter | C Coolant | This Product dose not support the internal coolant system |

ISO Shank Specifications

| | |
|-----------------------------|--|
| MAS 403-BT Shank | MAS403 Specifications BT Shank |
| DIN 69893-1 Shank | ISO 12164-1 : 2001 Specifications HSK Shank |

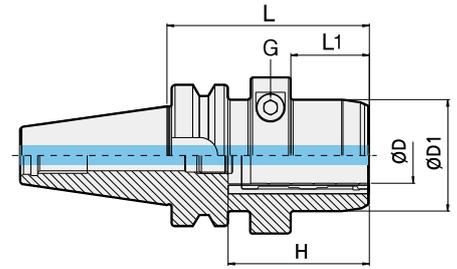
Recommended Machining Works by Products





HYDRAULIC EXPANSION ADAPTOR



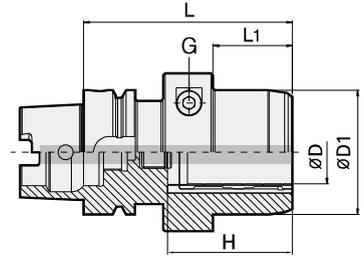


H : Depth of tool insertion (Min. ~ Max.)

Hydraulic Expansion Adaptor BT-HYD Series

| Description | Dimensions (mm) | | | | | | | Stock |
|----------------|-----------------|-----|-----|----|-----------|-----|--|-------|
| | ØD | ØD1 | L | L1 | H | G | | |
| BT30-HYD12-70 | 12 | 42 | 70 | 40 | 41 ~ 50.8 | M10 | | ● |
| BT30-HYD20-90 | 20 | 50 | 90 | 42 | 49 ~ 58.8 | M16 | | ● |
| BT40-HYD06-90 | 6 | 29 | 90 | 40 | 30 ~ 39.8 | M5 | | ● |
| BT40-HYD08-90 | 8 | 31 | 90 | 40 | 30 ~ 39.8 | M5 | | ● |
| BT40-HYD10-90 | 10 | 33 | 90 | 40 | 35 ~ 44.8 | M5 | | ● |
| BT40-HYD12-90 | 12 | 35 | 90 | 40 | 40 ~ 50.8 | M10 | | ● |
| BT40-HYD14-90 | 14 | 36 | 90 | 40 | 43 ~ 52.8 | M10 | | ● |
| BT40-HYD16-90 | 16 | 40 | 90 | 45 | 46 ~ 55.5 | M10 | | ● |
| BT40-HYD18-90 | 18 | 42 | 90 | 45 | 49 ~ 58.8 | M10 | | ● |
| BT40-HYD20-90 | 20 | 44 | 90 | 47 | 49 ~ 58.8 | M10 | | ● |
| BT40-HYD20-105 | 20 | 44 | 105 | 47 | 49 ~ 58.8 | M10 | | ● |
| BT40-HYD25-90 | 25 | 50 | 90 | 35 | 58 ~ 67.8 | M16 | | ● |
| BT40-HYD25-105 | 25 | 50 | 105 | 35 | 58 ~ 67.8 | M16 | | ● |
| BT40-HYD32-90 | 32 | 63 | 90 | 45 | 58 ~ 67.8 | M16 | | ● |
| BT40-HYD32-105 | 32 | 63 | 105 | 45 | 58 ~ 67.8 | M16 | | ● |
| BT50-HYD12-90 | 12 | 35 | 90 | 34 | 41 ~ 50.8 | M10 | | ● |
| BT50-HYD12-105 | 12 | 35 | 105 | 34 | 41 ~ 50.8 | M10 | | ● |
| BT50-HYD14-90 | 14 | 36 | 90 | 34 | 43 ~ 52.8 | M10 | | ● |
| BT50-HYD14-105 | 14 | 36 | 105 | 34 | 43 ~ 52.8 | M10 | | ● |
| BT50-HYD16-90 | 16 | 40 | 90 | 34 | 46 ~ 55.8 | M10 | | ● |
| BT50-HYD16-105 | 16 | 40 | 105 | 34 | 46 ~ 55.8 | M10 | | ● |
| BT50-HYD18-90 | 18 | 42 | 90 | 40 | 49 ~ 58.8 | M10 | | ● |
| BT50-HYD18-105 | 18 | 42 | 105 | 40 | 49 ~ 58.8 | M10 | | ● |
| BT50-HYD20-90 | 20 | 44 | 90 | 47 | 49 ~ 58.8 | M10 | | ● |
| BT50-HYD20-105 | 20 | 44 | 105 | 47 | 49 ~ 58.8 | M10 | | ● |
| BT50-HYD25-90 | 25 | 66 | 90 | 52 | 58 ~ 67.8 | M16 | | ● |
| BT50-HYD25-105 | 25 | 66 | 105 | 52 | 58 ~ 67.8 | M16 | | ● |
| BT50-HYD32-90 | 32 | 72 | 90 | 52 | 58 ~ 67.8 | M16 | | ● |
| BT50-HYD32-105 | 32 | 72 | 105 | 52 | 58 ~ 67.8 | M16 | | ● |

● - Always Stock Available ○ - Make to Order

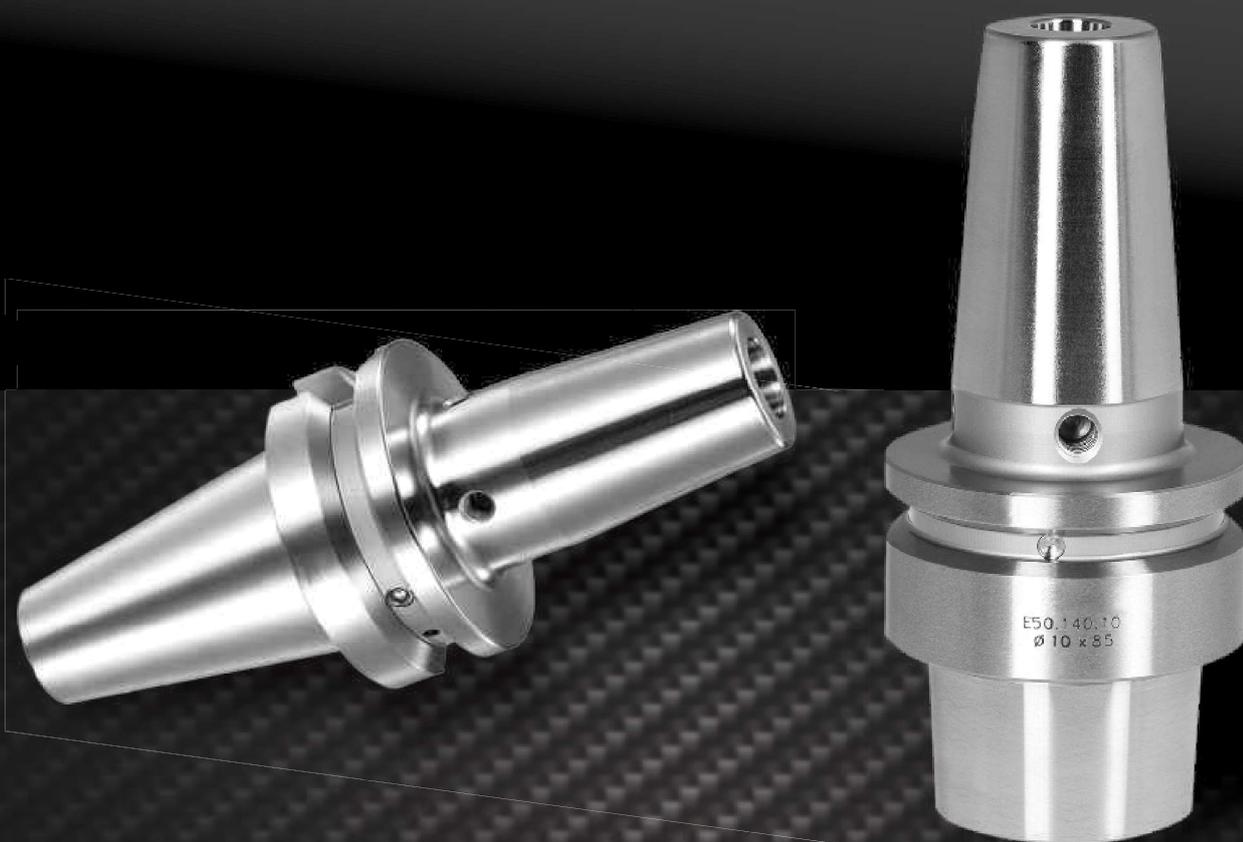


H : Depth of tool insertion (Min. ~ Max.)

Hydraulic Expansion Adaptor HSK-HYD Series

| Description | Dimensions (mm) | | | | | | | Stock |
|-------------------|-----------------|-----|-----|----|-----------|-----|--|-------|
| | ØD | ØD1 | L | L1 | H | G | | |
| HSK63A-HYD06-90 | 6 | 29 | 90 | 40 | 30 ~ 39.8 | M5 | | ● |
| HSK63A-HYD08-90 | 8 | 31 | 90 | 40 | 30 ~ 39.8 | M5 | | ● |
| HSK63A-HYD10-90 | 10 | 33 | 90 | 40 | 35 ~ 44.8 | M5 | | ● |
| HSK63A-HYD12-90 | 12 | 35 | 90 | 40 | 41 ~ 50.8 | M10 | | ● |
| HSK63A-HYD14-90 | 14 | 36 | 90 | 40 | 43 ~ 52.8 | M10 | | ● |
| HSK63A-HYD16-90 | 16 | 40 | 90 | 45 | 46 ~ 55.5 | M10 | | ● |
| HSK63A-HYD18-90 | 18 | 42 | 90 | 45 | 49 ~ 58.8 | M10 | | ● |
| HSK63A-HYD20-90 | 20 | 44 | 90 | 47 | 49 ~ 58.8 | M10 | | ● |
| HSK63A-HYD20-105 | 20 | 44 | 105 | 50 | 49 ~ 58.8 | M10 | | ● |
| HSK63A-HYD25-90 | 25 | 50 | 90 | 47 | 56 ~ 67.8 | M16 | | ● |
| HSK63A-HYD25-105 | 25 | 50 | 105 | 50 | 56 ~ 67.8 | M16 | | ● |
| HSK63A-HYD32-90 | 32 | 63 | 90 | 47 | 56 ~ 67.8 | M16 | | ● |
| HSK63A-HYD32-105 | 32 | 63 | 105 | 50 | 56 ~ 67.8 | M16 | | ● |
| HSK100A-HYD20-105 | 20 | 44 | 105 | 50 | 49 ~ 58.8 | M10 | | ● |
| HSK100A-HYD25-105 | 25 | 50 | 105 | 50 | 49 ~ 58.8 | M16 | | ● |
| HSK100A-HYD32-105 | 32 | 63 | 105 | 50 | 49 ~ 58.8 | M16 | | ● |

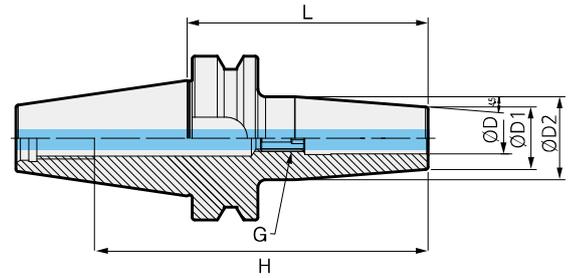
● - Always Stock Available ○ - Make to Order



SHRINK FIT ADAPTOR



| | | | | |
|-------------------|-----------------|----------------|-------------------|----------------|
| MAS 403-BT | G2.5 | 25,000 | 5µm | C |
| Shank | G value | Max RPM | Run Out | Coolant |
| | | | | |
| Milling | Drilling | Reaming | Chamfering | |



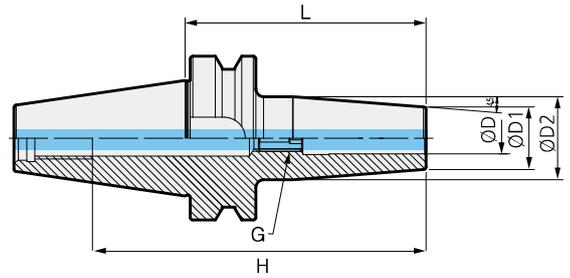
H : Depth of tool insertion

Shrink Fit Adaptor BT-SFA Series

| Description | Dimensions (mm) | | | | | | | Stock |
|----------------|-----------------|-----|-----|-----|----|-----|--|-------|
| | ØD | L | ØD1 | ØD2 | H | G | | |
| BT40-SFA6-90 | 6 | 90 | 21 | 27 | 36 | M5 | | ● |
| BT40-SFA6-120 | 6 | 120 | 21 | 27 | 36 | M5 | | ● |
| BT40-SFA6-160 | 6 | 160 | 21 | 27 | 36 | M5 | | ● |
| BT40-SFA8-90 | 8 | 90 | 21 | 27 | 36 | M5 | | ● |
| BT40-SFA8-120 | 8 | 120 | 21 | 27 | 36 | M5 | | ● |
| BT40-SFA8-160 | 8 | 160 | 21 | 27 | 36 | M5 | | ● |
| BT40-SFA10-90 | 10 | 90 | 24 | 32 | 42 | M8 | | ● |
| BT40-SFA10-120 | 10 | 120 | 24 | 32 | 42 | M8 | | ● |
| BT40-SFA10-160 | 10 | 160 | 24 | 32 | 42 | M8 | | ● |
| BT40-SFA12-90 | 12 | 90 | 24 | 32 | 47 | M8 | | ● |
| BT40-SFA12-120 | 12 | 120 | 24 | 32 | 47 | M8 | | ● |
| BT40-SFA12-160 | 12 | 160 | 24 | 32 | 47 | M8 | | ● |
| BT40-SFA14-90 | 14 | 90 | 27 | 34 | 47 | M10 | | ● |
| BT40-SFA14-120 | 14 | 120 | 27 | 34 | 47 | M10 | | ● |
| BT40-SFA14-160 | 14 | 160 | 27 | 34 | 47 | M10 | | ● |
| BT40-SFA16-90 | 16 | 90 | 27 | 34 | 50 | M12 | | ● |
| BT40-SFA16-120 | 16 | 120 | 27 | 34 | 50 | M12 | | ● |
| BT40-SFA16-160 | 16 | 160 | 27 | 34 | 50 | M12 | | ● |
| BT40-SFA18-90 | 18 | 90 | 33 | 42 | 50 | M12 | | ● |
| BT40-SFA18-120 | 18 | 120 | 33 | 42 | 50 | M12 | | ● |
| BT40-SFA18-160 | 18 | 160 | 33 | 42 | 50 | M12 | | ● |
| BT40-SFA20-90 | 20 | 90 | 33 | 42 | 52 | M16 | | ● |
| BT40-SFA20-120 | 20 | 120 | 33 | 42 | 52 | M16 | | ● |
| BT40-SFA20-160 | 20 | 160 | 33 | 42 | 52 | M16 | | ● |
| BT40-SFA25-100 | 25 | 100 | 44 | 53 | 58 | M16 | | ● |
| BT40-SFA25-120 | 25 | 120 | 44 | 53 | 58 | M16 | | ● |
| BT40-SFA25-160 | 25 | 160 | 44 | 53 | 58 | M16 | | ● |
| BT40-SFA32-100 | 32 | 100 | 44 | 53 | 58 | M16 | | ● |
| BT40-SFA32-120 | 32 | 120 | 44 | 53 | 58 | M16 | | ● |
| BT40-SFA32-160 | 32 | 160 | 44 | 53 | 58 | M16 | | ● |

● - Always Stock Available ○ - Make to Order

| | | | | |
|-------------------|-----------------|----------------|-------------------|----------------|
| MAS 403-BT | G2.5 | 25,000 | 5µm | C |
| Shank | G value | Max RPM | Run Out | Coolant |
| | | | | |
| Milling | Drilling | Reaming | Chamfering | |

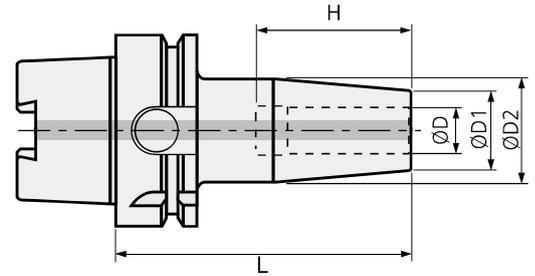


H: Depth of tool insertion

Shrink Fit Adaptor BT-SFA Series

| Description | Dimensions (mm) | | | | | | | Stock |
|----------------|-----------------|-----|-----|-----|----|-----|--|-------|
| | ØD | L | ØD1 | ØD2 | H | G | | |
| BT50-SFA6-100 | 6 | 100 | 21 | 27 | 36 | M5 | | ● |
| BT50-SFA6-120 | 6 | 120 | 21 | 27 | 36 | M5 | | ● |
| BT50-SFA6-160 | 6 | 160 | 21 | 27 | 36 | M5 | | ● |
| BT50-SFA8-100 | 8 | 100 | 21 | 27 | 36 | M5 | | ● |
| BT50-SFA8-120 | 8 | 120 | 21 | 27 | 36 | M5 | | ● |
| BT50-SFA8-160 | 8 | 160 | 21 | 27 | 36 | M5 | | ● |
| BT50-SFA10-100 | 10 | 100 | 24 | 32 | 42 | M8 | | ● |
| BT50-SFA10-120 | 10 | 120 | 24 | 32 | 42 | M8 | | ● |
| BT50-SFA10-160 | 10 | 160 | 24 | 32 | 42 | M8 | | ● |
| BT50-SFA12-100 | 12 | 100 | 24 | 32 | 47 | M8 | | ● |
| BT50-SFA12-120 | 12 | 120 | 24 | 32 | 47 | M8 | | ● |
| BT50-SFA12-160 | 12 | 160 | 24 | 32 | 47 | M8 | | ● |
| BT50-SFA14-100 | 14 | 100 | 27 | 34 | 47 | M10 | | ● |
| BT50-SFA14-120 | 14 | 120 | 27 | 34 | 47 | M10 | | ● |
| BT50-SFA14-160 | 14 | 160 | 27 | 34 | 47 | M10 | | ● |
| BT50-SFA16-100 | 16 | 100 | 27 | 34 | 50 | M12 | | ● |
| BT50-SFA16-120 | 16 | 120 | 27 | 34 | 50 | M12 | | ● |
| BT50-SFA16-160 | 16 | 160 | 27 | 34 | 50 | M12 | | ● |
| BT50-SFA18-100 | 18 | 100 | 33 | 42 | 50 | M12 | | ● |
| BT50-SFA18-120 | 18 | 120 | 33 | 42 | 50 | M12 | | ● |
| BT50-SFA18-160 | 18 | 160 | 33 | 42 | 50 | M12 | | ● |
| BT50-SFA20-100 | 20 | 100 | 33 | 42 | 52 | M16 | | ● |
| BT50-SFA20-120 | 20 | 120 | 33 | 42 | 52 | M16 | | ● |
| BT50-SFA20-160 | 20 | 160 | 33 | 42 | 52 | M16 | | ● |
| BT50-SFA25-100 | 25 | 100 | 44 | 53 | 58 | M16 | | ● |
| BT50-SFA25-120 | 25 | 120 | 44 | 53 | 58 | M16 | | ● |
| BT50-SFA25-160 | 25 | 160 | 44 | 53 | 58 | M16 | | ● |
| BT50-SFA32-100 | 32 | 100 | 44 | 53 | 58 | M16 | | ● |
| BT50-SFA32-120 | 32 | 120 | 44 | 53 | 58 | M16 | | ● |
| BT50-SFA32-160 | 32 | 160 | 44 | 53 | 58 | M16 | | ● |

● - Always Stock Available ○ - Make to Order



H : Depth of tool insertion

Shrink Fit Adaptor HSK-SFA Series

| Description | Dimensions (mm) | | | | | | | Stock |
|------------------|-----------------|-----|-----|-----|----|-----|--|-------|
| | ØD | L | ØD1 | ØD2 | H | G | | |
| HSK50A-SFA6-80 | 6 | 80 | 21 | 27 | 36 | M5 | | ● |
| HSK50A-SFA6-120 | 6 | 120 | 21 | 27 | 36 | M5 | | ● |
| HSK50A-SFA6-160 | 6 | 160 | 21 | 27 | 36 | M5 | | ● |
| HSK50A-SFA8-80 | 8 | 80 | 21 | 27 | 36 | M6 | | ● |
| HSK50A-SFA8-120 | 8 | 120 | 21 | 27 | 36 | M6 | | ● |
| HSK50A-SFA8-160 | 8 | 160 | 21 | 27 | 36 | M6 | | ● |
| HSK50A-SFA10-85 | 10 | 85 | 24 | 32 | 42 | M8 | | ● |
| HSK50A-SFA10-120 | 10 | 120 | 24 | 32 | 42 | M8 | | ● |
| HSK50A-SFA10-160 | 10 | 160 | 24 | 32 | 42 | M8 | | ● |
| HSK50A-SFA12-90 | 12 | 90 | 24 | 32 | 47 | M10 | | ● |
| HSK50A-SFA12-120 | 12 | 120 | 24 | 32 | 47 | M10 | | ● |
| HSK50A-SFA12-160 | 12 | 160 | 24 | 32 | 47 | M10 | | ● |
| HSK50A-SFA14-90 | 14 | 90 | 27 | 34 | 47 | M10 | | ● |
| HSK50A-SFA14-120 | 14 | 120 | 27 | 34 | 47 | M10 | | ● |
| HSK50A-SFA14-160 | 14 | 160 | 27 | 34 | 47 | M10 | | ● |
| HSK50A-SFA16-95 | 16 | 95 | 27 | 34 | 50 | M12 | | ● |
| HSK50A-SFA16-120 | 16 | 120 | 27 | 34 | 50 | M12 | | ● |
| HSK50A-SFA16-160 | 16 | 160 | 27 | 34 | 50 | M12 | | ● |
| HSK50A-SFA18-95 | 18 | 95 | 33 | 42 | 50 | M12 | | ● |
| HSK50A-SFA18-120 | 18 | 120 | 33 | 42 | 50 | M12 | | ● |
| HSK50A-SFA18-160 | 18 | 160 | 33 | 42 | 50 | M12 | | ● |
| HSK50A-SFA20-100 | 20 | 100 | 33 | 42 | 52 | M16 | | ● |
| HSK50A-SFA20-120 | 20 | 120 | 33 | 42 | 52 | M16 | | ● |
| HSK50A-SFA20-160 | 20 | 160 | 33 | 42 | 52 | M16 | | ● |

● - Always Stock Available ○ - Make to Order

DIN
69893-1

Shank



Milling

G2.5

G value



Drilling

25,000

Max RPM



Reaming

5µm

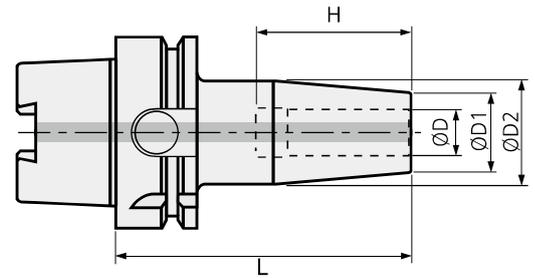
Run Out



Chamfering

C

Coolant



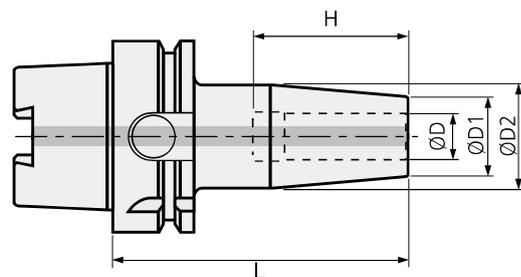
H: Depth of tool insertion

Shrink Fit Adaptor HSK-SFA Series

| Description | Dimensions (mm) | | | | | | | Stock |
|------------------|-----------------|-----|-----|-----|----|-----|--|-------|
| | ØD | L | ØD1 | ØD2 | H | G | | |
| HSK63A-SFA6-80 | 6 | 80 | 21 | 27 | 36 | M5 | | ● |
| HSK63A-SFA6-120 | 6 | 120 | 21 | 27 | 36 | M5 | | ● |
| HSK63A-SFA6-160 | 6 | 160 | 21 | 27 | 36 | M5 | | ● |
| HSK63A-SFA8-80 | 8 | 80 | 21 | 27 | 36 | M6 | | ● |
| HSK63A-SFA8-120 | 8 | 120 | 21 | 27 | 36 | M6 | | ● |
| HSK63A-SFA8-160 | 8 | 160 | 21 | 27 | 36 | M6 | | ● |
| HSK63A-SFA10-85 | 10 | 85 | 24 | 32 | 42 | M8 | | ● |
| HSK63A-SFA10-120 | 10 | 120 | 24 | 32 | 42 | M8 | | ● |
| HSK63A-SFA10-160 | 10 | 160 | 24 | 32 | 42 | M8 | | ● |
| HSK63A-SFA12-90 | 12 | 90 | 24 | 32 | 47 | M10 | | ● |
| HSK63A-SFA12-120 | 12 | 120 | 24 | 32 | 47 | M10 | | ● |
| HSK63A-SFA12-160 | 12 | 160 | 24 | 32 | 47 | M10 | | ● |
| HSK63A-SFA14-90 | 14 | 90 | 27 | 34 | 47 | M10 | | ● |
| HSK63A-SFA14-120 | 14 | 120 | 27 | 34 | 47 | M10 | | ● |
| HSK63A-SFA14-160 | 14 | 160 | 27 | 34 | 47 | M10 | | ● |
| HSK63A-SFA16-95 | 16 | 95 | 27 | 34 | 50 | M12 | | ● |
| HSK63A-SFA16-120 | 16 | 120 | 27 | 34 | 50 | M12 | | ● |
| HSK63A-SFA16-160 | 16 | 160 | 27 | 34 | 50 | M12 | | ● |
| HSK63A-SFA18-95 | 18 | 95 | 33 | 42 | 50 | M12 | | ● |
| HSK63A-SFA18-120 | 18 | 120 | 33 | 42 | 50 | M12 | | ● |
| HSK63A-SFA18-160 | 18 | 160 | 33 | 42 | 50 | M12 | | ● |
| HSK63A-SFA20-100 | 20 | 100 | 33 | 42 | 52 | M16 | | ● |
| HSK63A-SFA20-120 | 20 | 120 | 33 | 42 | 52 | M16 | | ● |
| HSK63A-SFA20-160 | 20 | 160 | 33 | 42 | 52 | M16 | | ● |
| HSK63A-SFA25-115 | 25 | 115 | 44 | 53 | 58 | M16 | | ● |
| HSK63A-SFA25-120 | 25 | 120 | 44 | 53 | 58 | M16 | | ● |
| HSK63A-SFA25-160 | 25 | 160 | 44 | 53 | 58 | M16 | | ● |
| HSK63A-SFA32-120 | 32 | 120 | 44 | 53 | 58 | M16 | | ● |
| HSK63A-SFA32-160 | 32 | 160 | 44 | 53 | 58 | M16 | | ● |

● - Always Stock Available ○ - Make to Order

| | | | | |
|--------------------|-----------------|----------------|-------------------|----------------|
| DIN 69893-1 | G2.5 | 25,000 | 5µm | C |
| Shank | G value | Max RPM | Run Out | Coolant |
| | | | | |
| Milling | Drilling | Reaming | Chamfering | |



H : Depth of tool insertion

Shrink Fit Adaptor HSK-SFA Series

| Description | Dimensions (mm) | | | | | | | Stock |
|-------------------|-----------------|-----|-----|-----|----|-----|---|-------|
| | ØD | L | ØD1 | ØD2 | H | G | | |
| HSK100A-SFA6-85 | 6 | 85 | 21 | 27 | 36 | M5 | ● | |
| HSK100A-SFA6-120 | 6 | 120 | 21 | 27 | 36 | M5 | ● | |
| HSK100A-SFA6-160 | 6 | 160 | 21 | 27 | 36 | M5 | ● | |
| HSK100A-SFA8-85 | 8 | 85 | 21 | 27 | 36 | M6 | ● | |
| HSK100A-SFA8-120 | 8 | 120 | 21 | 27 | 36 | M6 | ● | |
| HSK100A-SFA8-160 | 8 | 160 | 21 | 27 | 36 | M6 | ● | |
| HSK100A-SFA10-90 | 10 | 90 | 24 | 32 | 42 | M8 | ● | |
| HSK100A-SFA10-120 | 10 | 120 | 24 | 32 | 42 | M8 | ● | |
| HSK100A-SFA10-160 | 10 | 160 | 24 | 32 | 42 | M8 | ● | |
| HSK100A-SFA12-95 | 12 | 95 | 24 | 32 | 47 | M10 | ● | |
| HSK100A-SFA12-120 | 12 | 120 | 24 | 32 | 47 | M10 | ● | |
| HSK100A-SFA12-160 | 12 | 160 | 24 | 32 | 47 | M10 | ● | |
| HSK100A-SFA14-95 | 14 | 95 | 27 | 34 | 47 | M10 | ● | |
| HSK100A-SFA14-120 | 14 | 120 | 27 | 34 | 47 | M10 | ● | |
| HSK100A-SFA14-160 | 14 | 160 | 27 | 34 | 47 | M10 | ● | |
| HSK100A-SFA16-100 | 16 | 100 | 27 | 34 | 50 | M12 | ● | |
| HSK100A-SFA16-120 | 16 | 120 | 27 | 34 | 50 | M12 | ● | |
| HSK100A-SFA16-160 | 16 | 160 | 27 | 34 | 50 | M12 | ● | |
| HSK100A-SFA18-100 | 18 | 100 | 33 | 42 | 50 | M12 | ● | |
| HSK100A-SFA18-120 | 18 | 120 | 33 | 42 | 50 | M12 | ● | |
| HSK100A-SFA18-160 | 18 | 160 | 33 | 42 | 50 | M12 | ● | |
| HSK100A-SFA20-105 | 20 | 105 | 33 | 42 | 52 | M16 | ● | |
| HSK100A-SFA20-120 | 20 | 120 | 33 | 42 | 52 | M16 | ● | |
| HSK100A-SFA20-160 | 20 | 160 | 33 | 42 | 52 | M16 | ● | |
| HSK100A-SFA25-115 | 25 | 115 | 44 | 53 | 58 | M16 | ● | |
| HSK100A-SFA25-120 | 25 | 120 | 44 | 53 | 58 | M16 | ● | |
| HSK100A-SFA25-160 | 25 | 160 | 44 | 53 | 58 | M16 | ● | |
| HSK100A-SFA32-120 | 32 | 120 | 44 | 53 | 58 | M16 | ● | |
| HSK100A-SFA32-160 | 32 | 160 | 44 | 53 | 58 | M16 | ● | |

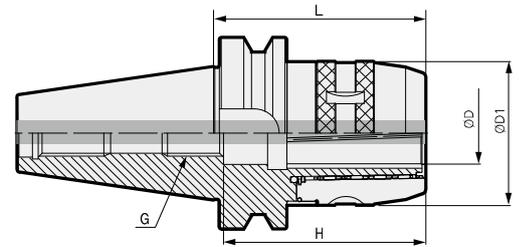
● - Always Stock Available ○ - Make to Order



POWER MILLING ADAPTOR



| | | | |
|----------------------------|--|--------------------------|------------------------|
| MAS 403-BT Shank | G6.3 G value | 15,000 Max RPM | 15µm Run Out |
| C Coolant | 130 ~ 500 kgf · m Clamping Force | Drilling | Milling |



H : Depth of tool insertion

Power Milling Adaptor BT-PMA Series

| Description | Dimensions (mm) | | | | | | Stock |
|----------------|-----------------|-----|-----|-----|-----|--------|-------|
| | ØD | L | ØD1 | H | G | COLLET | |
| BT30-PMA20-75 | 20 | 75 | 54 | 85 | M16 | MA20 | ● |
| BT30-PMA20-90 | 20 | 90 | 54 | 85 | M16 | MA20 | ● |
| BT40-PMA20-80 | 20 | 80 | 54 | 85 | M16 | MA20 | ● |
| BT40-PMA20-100 | 20 | 100 | 54 | 85 | M16 | MA20 | ● |
| BT40-PMA20-135 | 20 | 135 | 54 | 85 | M16 | MA20 | ● |
| BT40-PMA32-90 | 32 | 90 | 75 | 95 | M16 | MA32 | ● |
| BT40-PMA32-110 | 32 | 110 | 75 | 95 | M16 | MA32 | ● |
| BT40-PMA32-135 | 32 | 135 | 75 | 95 | M16 | MA32 | ● |
| BT50-PMA20-105 | 20 | 105 | 54 | 85 | M16 | MA20 | ● |
| BT50-PMA20-150 | 20 | 150 | 54 | 85 | M16 | MA20 | ● |
| BT50-PMA32-110 | 32 | 110 | 75 | 105 | M24 | MA32 | ● |
| BT50-PMA32-135 | 32 | 135 | 75 | 105 | M24 | MA32 | ● |
| BT50-PMA32-165 | 32 | 165 | 75 | 105 | M24 | MA32 | ● |
| BT50-PMA32-200 | 32 | 200 | 75 | 105 | M24 | MA32 | ● |
| BT50-PMA42-110 | 42 | 110 | 90 | 125 | M24 | MA42 | ● |
| BT50-PMA42-135 | 42 | 135 | 90 | 125 | M24 | MA42 | ● |
| BT50-PMA42-165 | 42 | 165 | 90 | 125 | M24 | MA42 | ● |

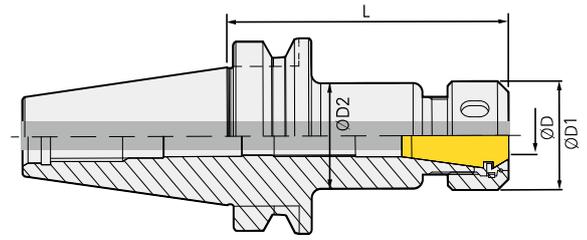
● - Always Stock Available ○ - Make to Order



ER COLLET ADAPTOR



| | | | |
|----------------------------|--|---|---|
| MAS 403-BT Shank | G2.5 G value | 25,000 Max RPM | 5µm Run Out |
| C Coolant |  Milling |  Drilling |  Chamfering |

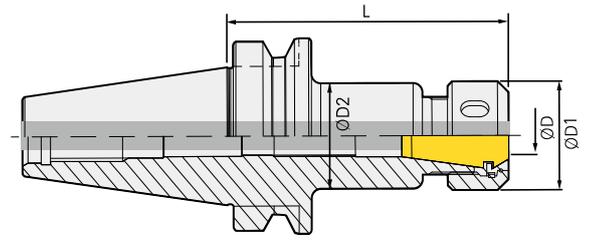


ER Collet Adaptor BT-ER Series

| Description | Dimensions (mm) | | | | | | | Stock |
|---------------|-----------------|-----|-----|-----|--------|--|--|-------|
| | ØD | ØD1 | ØD2 | L | COLLET | | | |
| BT30-ER16-60 | 16 | 28 | 27 | 60 | ER-16 | | | ● |
| BT30-ER16-100 | 16 | 28 | 27 | 100 | | | | ● |
| BT30-ER16-120 | 16 | 28 | 27 | 120 | | | | ● |
| BT30-ER16-160 | 16 | 28 | 27 | 160 | | | | ● |
| BT30-ER20-60 | 20 | 34 | 27 | 60 | ER-20 | | | ● |
| BT30-ER20-100 | 20 | 34 | 27 | 100 | | | | ● |
| BT30-ER20-120 | 20 | 34 | 27 | 120 | | | | ● |
| BT30-ER20-160 | 20 | 34 | 27 | 160 | | | | ● |
| BT30-ER25-60 | 25 | 42 | 41 | 60 | ER-25 | | | ● |
| BT30-ER25-100 | 25 | 42 | 41 | 100 | | | | ● |
| BT30-ER25-120 | 25 | 42 | 41 | 120 | | | | ● |
| BT30-ER25-160 | 25 | 42 | 41 | 160 | | | | ● |
| BT30-ER32-60 | 32 | 50 | 49 | 60 | ER-32 | | | ● |
| BT30-ER32-100 | 32 | 50 | 49 | 100 | | | | ● |
| BT30-ER32-120 | 32 | 50 | 49 | 120 | | | | ● |
| BT30-ER32-160 | 32 | 50 | 49 | 160 | | | | ● |

● - Always Stock Available ○ - Make to Order

| | | | |
|-------------------|----------------|-----------------|-------------------|
| MAS 403-BT | G2.5 | 25,000 | 5µm |
| Shank | G value | Max RPM | Run Out |
| C | | | |
| Coolant | Milling | Drilling | Chamfering |

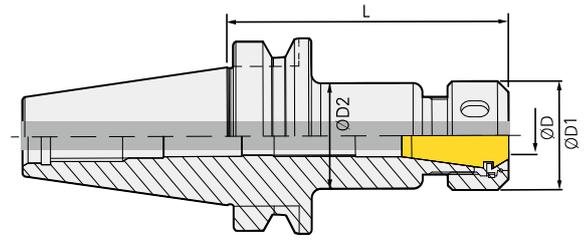


ER Collet Adaptor BT-ER Series

| Description | Dimensions (mm) | | | | | | | Stock |
|---------------|-----------------|-----|-----|-----|--------|--|--|-------|
| | ØD | ØD1 | ØD2 | L | COLLET | | | |
| BT40-ER16-70 | 16 | 28 | 27 | 70 | ER-16 | | | ● |
| BT40-ER16-100 | 16 | 28 | 27 | 100 | | | | ● |
| BT40-ER16-150 | 16 | 28 | 27 | 150 | | | | ● |
| BT40-ER16-200 | 16 | 28 | 27 | 200 | | | | ● |
| BT40-ER20-70 | 20 | 34 | 27 | 70 | ER-20 | | | ● |
| BT40-ER20-100 | 20 | 34 | 27 | 100 | | | | ● |
| BT40-ER20-150 | 20 | 34 | 27 | 150 | | | | ● |
| BT40-ER20-200 | 20 | 34 | 27 | 200 | | | | ● |
| BT40-ER25-70 | 25 | 42 | 41 | 70 | ER-25 | | | ● |
| BT40-ER25-100 | 25 | 42 | 41 | 100 | | | | ● |
| BT40-ER25-150 | 25 | 42 | 41 | 150 | | | | ● |
| BT40-ER25-200 | 25 | 42 | 41 | 200 | | | | ● |
| BT40-ER32-70 | 32 | 50 | 49 | 70 | ER-32 | | | ● |
| BT40-ER32-100 | 32 | 50 | 49 | 100 | | | | ● |
| BT40-ER32-150 | 32 | 50 | 49 | 150 | | | | ● |
| BT40-ER32-200 | 32 | 50 | 49 | 200 | | | | ● |
| BT40-ER40-80 | 40 | 63 | 62 | 80 | ER-40 | | | ● |
| BT40-ER40-120 | 40 | 63 | 62 | 120 | | | | ● |
| BT40-ER40-150 | 40 | 63 | 62 | 150 | | | | ● |
| BT40-ER40-200 | 40 | 63 | 62 | 200 | | | | ● |

● - Always Stock Available ○ - Make to Order

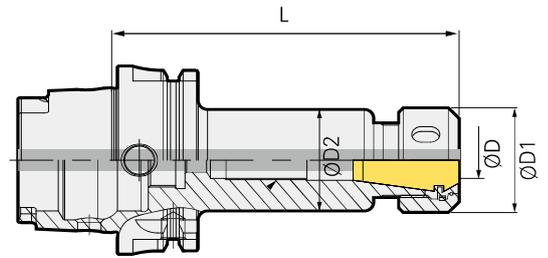
| | | | |
|----------------------------|--|---|---|
| MAS 403-BT Shank | G2.5 G value | 25,000 Max RPM | 5µm Run Out |
| C Coolant |  Milling |  Drilling |  Chamfering |



ER Collet Adaptor BT-ER Series

| Description | Dimensions (mm) | | | | | | | Stock |
|---------------|-----------------|-----|-----|-----|--------|--|--|-------|
| | ØD | ØD1 | ØD2 | L | COLLET | | | |
| BT50-ER16-80 | 16 | 28 | 27 | 80 | ER-16 | | | ● |
| BT50-ER16-120 | 16 | 28 | 27 | 120 | | | | ● |
| BT50-ER16-160 | 16 | 28 | 27 | 160 | | | | ● |
| BT50-ER16-220 | 16 | 28 | 27 | 220 | | | | ● |
| BT50-ER20-80 | 20 | 34 | 27 | 80 | ER-20 | | | ● |
| BT50-ER20-120 | 20 | 34 | 27 | 120 | | | | ● |
| BT50-ER20-160 | 20 | 34 | 27 | 160 | | | | ● |
| BT50-ER20-220 | 20 | 34 | 27 | 220 | | | | ● |
| BT50-ER25-80 | 25 | 42 | 41 | 80 | ER-25 | | | ● |
| BT50-ER25-120 | 25 | 42 | 41 | 120 | | | | ● |
| BT50-ER25-160 | 25 | 42 | 41 | 160 | | | | ● |
| BT50-ER25-220 | 25 | 42 | 41 | 220 | | | | ● |
| BT50-ER32-80 | 32 | 50 | 49 | 80 | ER-32 | | | ● |
| BT50-ER32-120 | 32 | 50 | 49 | 120 | | | | ● |
| BT50-ER32-160 | 32 | 50 | 49 | 160 | | | | ● |
| BT50-ER32-220 | 32 | 50 | 49 | 220 | | | | ● |
| BT50-ER40-80 | 40 | 63 | 62 | 80 | ER-40 | | | ● |
| BT50-ER40-120 | 40 | 63 | 62 | 120 | | | | ● |
| BT50-ER40-160 | 40 | 63 | 62 | 160 | | | | ● |
| BT50-ER40-220 | 40 | 63 | 62 | 220 | | | | ● |

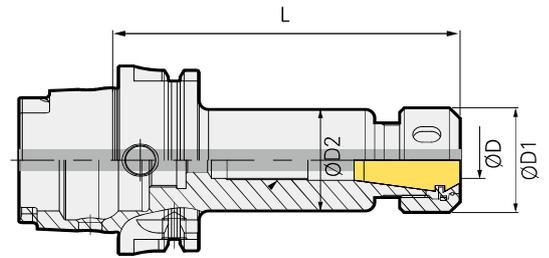
● - Always Stock Available ○ - Make to Order



ER Collet Adaptor HSK-ER Series

| Description | Dimensions (mm) | | | | | | | Stock |
|-----------------|-----------------|-----|-----|-----|--------|--|--|-------|
| | ØD | ØD1 | ØD2 | L | COLLET | | | |
| HSK50A-ER16-60 | 16 | 28 | 27 | 60 | ER-16 | | | ● |
| HSK50A-ER16-100 | 16 | 28 | 27 | 100 | | | | ● |
| HSK50A-ER20-70 | 20 | 34 | 27 | 70 | ER-20 | | | ● |
| HSK50A-ER20-100 | 20 | 34 | 27 | 100 | | | | ● |
| HSK50A-ER25-80 | 25 | 42 | 41 | 80 | ER-25 | | | ● |
| HSK50A-ER25-100 | 25 | 42 | 41 | 100 | | | | ● |
| HSK50A-ER32-80 | 32 | 50 | 49 | 80 | ER-32 | | | ● |
| HSK50A-ER32-100 | 32 | 50 | 49 | 100 | | | | ● |
| HSK50A-ER40-80 | 40 | 63 | 62 | 80 | ER-40 | | | ● |
| HSK50A-ER40-120 | 40 | 63 | 62 | 120 | | | | ● |
| HSK63A-ER16-75 | 16 | 28 | 27 | 75 | ER-16 | | | ● |
| HSK63A-ER16-100 | 16 | 28 | 27 | 100 | | | | ● |
| HSK63A-ER16-150 | 16 | 28 | 27 | 150 | | | | ● |
| HSK63A-ER20-75 | 20 | 34 | 27 | 75 | ER-20 | | | ● |
| HSK63A-ER20-100 | 20 | 34 | 27 | 100 | | | | ● |
| HSK63A-ER20-150 | 20 | 34 | 27 | 150 | | | | ● |
| HSK63A-ER25-75 | 25 | 42 | 41 | 75 | ER-25 | | | ● |
| HSK63A-ER25-100 | 25 | 42 | 41 | 100 | | | | ● |
| HSK63A-ER25-150 | 25 | 42 | 41 | 150 | | | | ● |
| HSK63A-ER32-75 | 32 | 50 | 49 | 75 | ER-32 | | | ● |
| HSK63A-ER32-100 | 32 | 50 | 49 | 100 | | | | ● |
| HSK63A-ER32-150 | 32 | 50 | 49 | 150 | | | | ● |
| HSK63A-ER40-100 | 40 | 63 | 62 | 100 | ER-40 | | | ● |
| HSK63A-ER40-120 | 40 | 63 | 62 | 120 | | | | ● |
| HSK63A-ER40-150 | 40 | 63 | 62 | 160 | | | | ● |

● - Always Stock Available ○ - Make to Order



ER Collet Adaptor HSK-ER Series

| Description | Dimensions (mm) | | | | | | | Stock |
|------------------|-----------------|-----|-----|-----|--------|--|--|-------|
| | ØD | ØD1 | ØD2 | L | COLLET | | | |
| HSK100A-ER16-75 | 16 | 28 | 27 | 75 | ER-16 | | | ● |
| HSK100A-ER16-100 | 16 | 28 | 27 | 100 | | | | ● |
| HSK100A-ER16-150 | 16 | 28 | 27 | 150 | | | | ● |
| HSK100A-ER20-75 | 20 | 34 | 27 | 75 | ER-20 | | | ● |
| HSK100A-ER20-100 | 20 | 34 | 27 | 100 | | | | ● |
| HSK100A-ER20-150 | 20 | 34 | 27 | 150 | | | | ● |
| HSK100A-ER25-75 | 25 | 42 | 41 | 75 | ER-25 | | | ● |
| HSK100A-ER25-100 | 25 | 42 | 41 | 100 | | | | ● |
| HSK100A-ER25-150 | 25 | 42 | 41 | 150 | | | | ● |
| HSK100A-ER32-75 | 32 | 50 | 49 | 75 | ER-32 | | | ● |
| HSK100A-ER32-100 | 32 | 50 | 49 | 100 | | | | ● |
| HSK100A-ER32-150 | 32 | 50 | 49 | 150 | | | | ● |
| HSK100A-ER40-100 | 40 | 63 | 62 | 100 | ER-40 | | | ● |
| HSK100A-ER40-120 | 40 | 63 | 62 | 120 | | | | ● |
| HSK100A-ER40-150 | 40 | 63 | 62 | 160 | | | | ● |

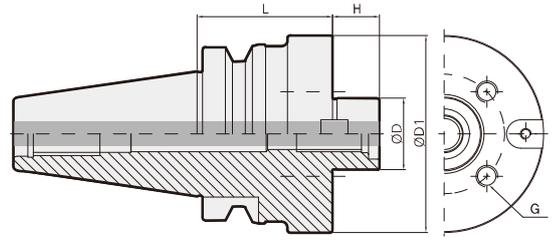
● - Always Stock Available ○ - Make to Order



FACE MILL ADAPTOR



| | | |
|----------------------------|------------------------|--------------------------|
| MAS 403-BT Shank | G2.5 G value | 25,000 Max RPM |
| 5µm Run Out | C Coolant | Facing |



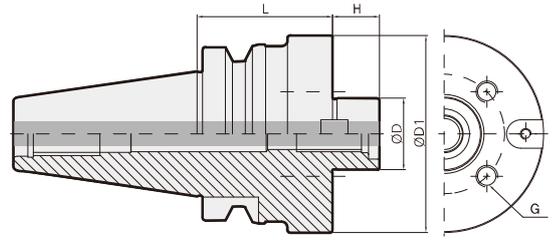
H : Depth of tool insertion

Face Mill Adaptor BT-FMA Series

| Description | Dimensions (mm) | | | | | SUITABLE CUTTER DIA. | | Stock |
|----------------|-----------------|-----|-----|----|-----|----------------------|--|-------|
| | ØD | ØD1 | L | H | G | | | |
| BT30-FMA16-30 | 16 | 38 | 30 | 17 | M8 | 40 | | ● |
| BT30-FMA16-45 | 16 | 38 | 45 | 17 | M8 | | | ● |
| BT30-FMA16-60 | 16 | 38 | 60 | 17 | M8 | | | ● |
| BT30-FMA22-30 | 22 | 48 | 30 | 19 | M10 | 50/63 | | ● |
| BT30-FMA22-45 | 22 | 48 | 45 | 19 | M10 | | | ● |
| BT30-FMA22-60 | 22 | 48 | 60 | 19 | M10 | | | ● |
| BT30-FMA27-45 | 27 | 60 | 45 | 21 | M12 | 80 | | ● |
| BT30-FMA27-60 | 27 | 60 | 60 | 21 | M12 | | | ● |
| BT30-FMA27-75 | 27 | 60 | 75 | 21 | M12 | | | ● |
| BT40-FMA16-45 | 16 | 38 | 45 | 17 | M8 | 40 | | ● |
| BT40-FMA16-100 | 16 | 38 | 100 | 17 | M8 | | | ● |
| BT40-FMA16-150 | 16 | 38 | 150 | 17 | M8 | | | ● |
| BT40-FMA22-45 | 22 | 48 | 45 | 19 | M10 | 50/63 | | ● |
| BT40-FMA22-100 | 22 | 48 | 100 | 19 | M10 | | | ● |
| BT40-FMA22-150 | 22 | 48 | 150 | 19 | M10 | | | ● |
| BT40-FMA27-45 | 27 | 60 | 45 | 21 | M12 | 80 | | ● |
| BT40-FMA27-100 | 27 | 60 | 100 | 21 | M12 | | | ● |
| BT40-FMA27-150 | 27 | 60 | 150 | 21 | M12 | | | ● |
| BT40-FMA32-60 | 32 | 78 | 45 | 24 | M16 | 100 | | ● |
| BT40-FMA32-100 | 32 | 78 | 100 | 24 | M16 | | | ● |
| BT40-FMA32-150 | 32 | 78 | 150 | 24 | M16 | | | ● |
| BT40-FMA40-60 | 40 | 89 | 60 | 27 | M20 | 125/160 | | ● |
| BT40-FMA40-100 | 40 | 89 | 100 | 27 | M20 | | | ● |
| BT40-FMA40-150 | 40 | 89 | 150 | 27 | M20 | | | ● |

● - Always Stock Available ○ - Make to Order

| | | |
|---------------|---------|---------|
| MAS 403-BT | G2.5 | 25,000 |
| Shank | G value | Max RPM |
| 5µm | C | |
| Run Out | Coolant | Facing |

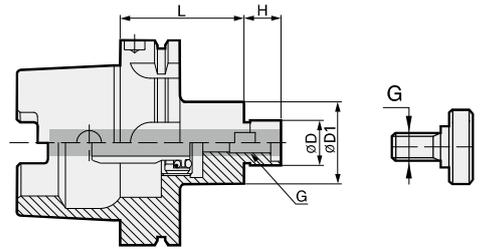
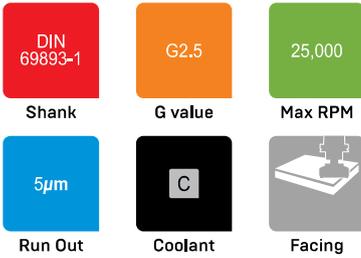


H : Depth of tool insertion

Face Mill Adaptor BT-FMA Series

| Description | Dimensions (mm) | | | | | SUITABLE CUTTER DIA. | | Stock |
|----------------|-----------------|-----|-----|----|-----|----------------------|--|-------|
| | ØD | ØD1 | L | H | G | | | |
| BT50-FMA16-60 | 16 | 38 | 60 | 17 | M8 | 40 | | ● |
| BT50-FMA16-120 | 16 | 38 | 120 | 17 | M8 | | | ● |
| BT50-FMA16-160 | 16 | 38 | 160 | 17 | M8 | | | ● |
| BT50-FMA22-60 | 22 | 48 | 60 | 19 | M10 | 50/63 | | ● |
| BT50-FMA22-120 | 22 | 48 | 120 | 19 | M10 | | | ● |
| BT50-FMA22-160 | 22 | 48 | 160 | 19 | M10 | | | ● |
| BT50-FMA27-60 | 27 | 60 | 60 | 21 | M12 | 80 | | ● |
| BT50-FMA27-120 | 27 | 60 | 120 | 21 | M12 | | | ● |
| BT50-FMA27-160 | 27 | 60 | 160 | 21 | M12 | | | ● |
| BT50-FMA32-60 | 32 | 78 | 60 | 24 | M16 | 100 | | ● |
| BT50-FMA32-120 | 32 | 78 | 120 | 24 | M16 | | | ● |
| BT50-FMA32-160 | 32 | 78 | 160 | 24 | M16 | | | ● |
| BT50-FMA40-60 | 40 | 89 | 60 | 27 | M20 | 125/160 | | ● |
| BT50-FMA40-120 | 40 | 89 | 120 | 27 | M20 | | | ● |
| BT50-FMA40-160 | 40 | 89 | 160 | 27 | M20 | | | ● |

● - Always Stock Available ○ - Make to Order



H: Depth of tool insertion

Face Mill Adaptor HSK-FMA Series

| Description | Dimensions (mm) | | | | | SUITABLE CUTTER DIA. | Stock |
|-------------------|-----------------|-----|-----|----|-----|----------------------|-------|
| | ØD | ØD1 | L | H | G | | |
| HSK50A-FMA16-45 | 16 | 38 | 45 | 17 | M8 | 40 | ● |
| HSK50A-FMA22-55 | 22 | 48 | 55 | 19 | M10 | 50/63 | ● |
| HSK50A-FMA27-55 | 27 | 60 | 55 | 21 | M12 | 80 | ● |
| HSK50A-FMA32-60 | 32 | 89 | 60 | 24 | M16 | 100 | ● |
| HSK63A-FMA16-50 | 16 | 38 | 50 | 17 | M8 | 40 | ● |
| HSK63A-FMA16-100 | 16 | 38 | 100 | 17 | M8 | | ● |
| HSK63A-FMA16-150 | 16 | 38 | 150 | 17 | M8 | | ● |
| HSK63A-FMA22-50 | 22 | 48 | 50 | 19 | M10 | 50/63 | ● |
| HSK63A-FMA22-100 | 22 | 48 | 100 | 19 | M10 | | ● |
| HSK63A-FMA22-150 | 22 | 48 | 150 | 19 | M10 | | ● |
| HSK63A-FMA27-50 | 27 | 60 | 50 | 21 | M12 | 80 | ● |
| HSK63A-FMA27-100 | 27 | 60 | 100 | 21 | M12 | | ● |
| HSK63A-FMA27-150 | 27 | 60 | 150 | 21 | M12 | | ● |
| HSK63A-FMA32-60 | 32 | 78 | 60 | 24 | M16 | 100 | ● |
| HSK63A-FMA32-100 | 32 | 78 | 100 | 24 | M16 | | ● |
| HSK63A-FMA32-150 | 32 | 78 | 150 | 24 | M16 | | ● |
| HSK63A-FMA40-65 | 40 | 89 | 65 | 27 | M20 | 125/160 | ● |
| HSK63A-FMA40-100 | 40 | 89 | 100 | 27 | M20 | | ● |
| HSK63A-FMA40-150 | 40 | 89 | 150 | 27 | M20 | | ● |
| HSK100A-FMA16-50 | 16 | 38 | 50 | 17 | M8 | 40 | ● |
| HSK100A-FMA16-100 | 16 | 38 | 100 | 17 | M8 | | ● |
| HSK100A-FMA16-150 | 16 | 38 | 150 | 17 | M8 | | ● |
| HSK100A-FMA22-50 | 22 | 48 | 50 | 19 | M10 | 50/63 | ● |
| HSK100A-FMA22-100 | 22 | 48 | 100 | 19 | M10 | | ● |
| HSK100A-FMA22-150 | 22 | 48 | 150 | 19 | M10 | | ● |
| HSK100A-FMA27-50 | 27 | 60 | 50 | 21 | M12 | 80 | ● |
| HSK100A-FMA27-100 | 27 | 60 | 100 | 21 | M12 | | ● |
| HSK100A-FMA27-150 | 27 | 60 | 150 | 21 | M12 | | ● |
| HSK100A-FMA32-60 | 32 | 78 | 60 | 24 | M16 | 100 | ● |
| HSK100A-FMA32-100 | 32 | 78 | 100 | 24 | M16 | | ● |
| HSK100A-FMA32-150 | 32 | 78 | 150 | 24 | M16 | | ● |
| HSK100A-FMA40-65 | 40 | 89 | 65 | 27 | M20 | 125/160 | ● |
| HSK100A-FMA40-100 | 40 | 89 | 100 | 27 | M20 | | ● |
| HSK100A-FMA40-150 | 40 | 89 | 150 | 27 | M20 | | ● |

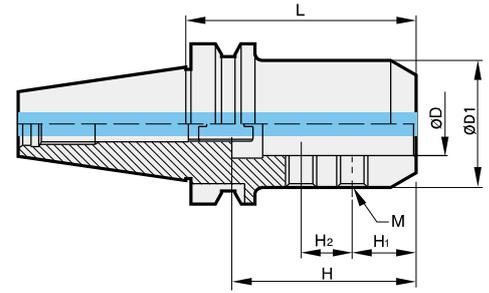
● - Always Stock Available ○ - Make to Order



SIDE LOCK ADAPTOR



| | | | |
|----------------------------|------------------------|--------------------------|-----------------------|
| MAS 403-BT Shank | G2.5 G value | 25,000 Max RPM | 5µm Run Out |
| C Coolant | Milling | Drilling | |

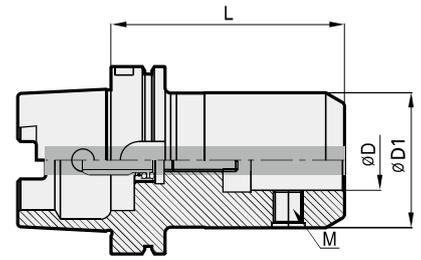


Side Lock Adaptor BT-SLA Series

| Description | Dimensions (mm) | | | | | | | Stock |
|----------------|-----------------|-----|-----|----|----|----|-----|-------|
| | ØD | ØD1 | L | H | H1 | H2 | M | |
| BT30-SLA06-65 | 6 | 20 | 65 | 35 | 15 | 20 | M6 | ● |
| BT30-SLA08-65 | 8 | 24 | 65 | 40 | 15 | 20 | M8 | ● |
| BT30-SLA10-65 | 10 | 30 | 65 | 44 | 16 | 20 | M10 | ● |
| BT30-SLA12-65 | 12 | 35 | 65 | 44 | 20 | 20 | M10 | ● |
| BT30-SLA16-90 | 16 | 40 | 90 | 52 | 23 | 20 | M10 | ● |
| BT30-SLA20-90 | 20 | 50 | 90 | 70 | 25 | 20 | M10 | ● |
| BT30-SLA25-90 | 25 | 50 | 90 | 70 | 25 | 20 | M10 | ● |
| BT30-SLA32-105 | 32 | 60 | 105 | 70 | 30 | 20 | M10 | ● |
| BT40-SLA06-65 | 6 | 20 | 65 | 35 | 15 | 20 | M6 | ● |
| BT40-SLA08-65 | 8 | 24 | 65 | 40 | 15 | 20 | M8 | ● |
| BT40-SLA10-65 | 10 | 30 | 65 | 44 | 16 | 20 | M10 | ● |
| BT40-SLA12-65 | 12 | 35 | 65 | 44 | 20 | 20 | M10 | ● |
| BT40-SLA16-90 | 16 | 40 | 90 | 52 | 23 | 20 | M10 | ● |
| BT40-SLA20-90 | 20 | 50 | 90 | 70 | 25 | 20 | M10 | ● |
| BT40-SLA25-90 | 25 | 50 | 90 | 70 | 25 | 20 | M10 | ● |
| BT40-SLA32-105 | 32 | 60 | 105 | 70 | 30 | 20 | M10 | ● |
| BT40-SLA40-105 | 40 | 60 | 105 | 70 | 30 | 20 | M10 | ● |
| BT50-SLA06-75 | 6 | 20 | 75 | 35 | 15 | 20 | M6 | ● |
| BT50-SLA08-75 | 8 | 24 | 75 | 40 | 15 | 20 | M8 | ● |
| BT50-SLA10-75 | 10 | 30 | 75 | 44 | 16 | 20 | M10 | ● |
| BT50-SLA12-75 | 12 | 35 | 75 | 44 | 20 | 20 | M10 | ● |
| BT50-SLA16-105 | 16 | 40 | 105 | 52 | 23 | 20 | M10 | ● |
| BT50-SLA20-105 | 20 | 50 | 105 | 70 | 25 | 20 | M10 | ● |
| BT50-SLA25-105 | 25 | 50 | 105 | 70 | 25 | 20 | M10 | ● |
| BT50-SLA32-105 | 32 | 60 | 105 | 70 | 30 | 20 | M10 | ● |
| BT50-SLA40-105 | 40 | 60 | 105 | 70 | 30 | 20 | M10 | ● |
| BT50-SLA50-105 | 50 | 90 | 105 | 70 | 40 | 20 | M12 | ● |
| BT50-SLA50-150 | 50 | 90 | 150 | 70 | 40 | 20 | M12 | ● |

● - Always Stock Available ○ - Make to Order

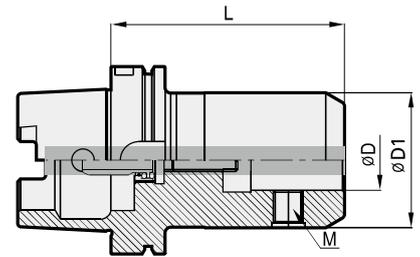
| | | | |
|-----------------------|----------------|-----------------|----------------|
| DIN 69893-1 | G2.5 | 25,000 | 5µm |
| Shank | G value | Max RPM | Run Out |
| C | | | |
| Coolant | Milling | Drilling | |



Side Lock Adaptor HSK-SLA Series

| Description | Dimensions (mm) | | | | | | Stock |
|------------------|-----------------|-----|-----|--------|--|--|-------|
| | ØD | ØD1 | L | M | | | |
| HSK50A-SLA06-65 | 6 | 25 | 65 | M6 | | | ● |
| HSK50A-SLA08-65 | 8 | 28 | 65 | M8 | | | ● |
| HSK50A-SLA10-65 | 10 | 35 | 65 | M10 | | | ● |
| HSK50A-SLA12-80 | 12 | 42 | 80 | M12 | | | ● |
| HSK50A-SLA14-80 | 14 | 44 | 80 | M12 | | | ● |
| HSK50A-SLA16-80 | 16 | 48 | 80 | M14 | | | ● |
| HSK50A-SLA18-80 | 18 | 50 | 80 | M14 | | | ● |
| HSK50A-SLA20-80 | 20 | 52 | 80 | M16 | | | ● |
| HSK50A-SLA25-100 | 25 | 50 | 100 | M10x2P | | | ● |
| HSK63A-SLA06-65 | 6 | 25 | 65 | M6 | | | ● |
| HSK63A-SLA06-100 | 6 | 25 | 100 | M6 | | | ● |
| HSK63A-SLA06-160 | 6 | 25 | 160 | M6 | | | ● |
| HSK63A-SLA08-65 | 8 | 28 | 65 | M8 | | | ● |
| HSK63A-SLA08-100 | 8 | 28 | 100 | M8 | | | ● |
| HSK63A-SLA08-160 | 8 | 28 | 160 | M8 | | | ● |
| HSK63A-SLA10-65 | 10 | 35 | 65 | M10 | | | ● |
| HSK63A-SLA10-100 | 10 | 35 | 100 | M10 | | | ● |
| HSK63A-SLA10-160 | 10 | 35 | 160 | M10 | | | ● |
| HSK63A-SLA12-80 | 12 | 42 | 80 | M12 | | | ● |
| HSK63A-SLA12-100 | 12 | 42 | 100 | M12 | | | ● |
| HSK63A-SLA12-160 | 12 | 42 | 160 | M12 | | | ● |
| HSK63A-SLA14-80 | 14 | 44 | 80 | M12 | | | ● |
| HSK63A-SLA14-100 | 14 | 44 | 100 | M12 | | | ● |
| HSK63A-SLA14-160 | 14 | 44 | 160 | M12 | | | ● |
| HSK63A-SLA16-80 | 16 | 48 | 80 | M14 | | | ● |
| HSK63A-SLA16-100 | 16 | 48 | 100 | M14 | | | ● |
| HSK63A-SLA16-160 | 16 | 48 | 160 | M14 | | | ● |
| HSK63A-SLA18-80 | 18 | 50 | 80 | M14 | | | ● |
| HSK63A-SLA18-100 | 18 | 50 | 100 | M14 | | | ● |
| HSK63A-SLA18-160 | 18 | 50 | 160 | M14 | | | ● |
| HSK63A-SLA20-80 | 20 | 52 | 80 | M16 | | | ● |
| HSK63A-SLA20-100 | 20 | 52 | 100 | M16 | | | ● |
| HSK63A-SLA20-160 | 20 | 52 | 160 | M16 | | | ● |
| HSK63A-SLA25-110 | 25 | 65 | 110 | M18x2P | | | ● |
| HSK63A-SLA32-110 | 32 | 72 | 110 | M18x2P | | | ● |
| HSK63A-SLA40-125 | 40 | 80 | 125 | M20x2P | | | ● |

● - Always Stock Available ○ - Make to Order



Side Lock Adaptor HSK-SLA Series

| Description | Dimensions (mm) | | | | | | Stock |
|-------------------|-----------------|-----|-----|--------|--|--|-------|
| | ØD | ØD1 | L | M | | | |
| HSK100A-SLA06-80 | 6 | 25 | 80 | M6 | | | ● |
| HSK100A-SLA06-160 | 6 | 25 | 160 | M6 | | | ● |
| HSK100A-SLA08-80 | 8 | 28 | 80 | M8 | | | ● |
| HSK100A-SLA08-160 | 8 | 28 | 160 | M8 | | | ● |
| HSK100A-SLA10-80 | 10 | 35 | 80 | M10 | | | ● |
| HSK100A-SLA10-160 | 10 | 35 | 160 | M10 | | | ● |
| HSK100A-SLA12-100 | 12 | 42 | 100 | M12 | | | ● |
| HSK100A-SLA12-160 | 12 | 42 | 160 | M12 | | | ● |
| HSK100A-SLA14-100 | 14 | 44 | 100 | M12 | | | ● |
| HSK100A-SLA14-160 | 14 | 44 | 160 | M12 | | | ● |
| HSK100A-SLA16-100 | 16 | 48 | 100 | M14 | | | ● |
| HSK100A-SLA16-160 | 16 | 48 | 160 | M14 | | | ● |
| HSK100A-SLA18-100 | 18 | 50 | 100 | M14 | | | ● |
| HSK100A-SLA18-160 | 18 | 50 | 160 | M14 | | | ● |
| HSK100A-SLA20-100 | 20 | 52 | 100 | M16 | | | ● |
| HSK100A-SLA20-160 | 20 | 52 | 160 | M16 | | | ● |
| HSK100A-SLA25-100 | 25 | 65 | 100 | M18x2P | | | ● |
| HSK100A-SLA25-160 | 25 | 65 | 160 | M18x2P | | | ● |
| HSK100A-SLA32-120 | 32 | 72 | 120 | M20x2P | | | ● |
| HSK100A-SLA32-160 | 32 | 72 | 160 | M20x2P | | | ● |
| HSK100A-SLA40-120 | 40 | 80 | 120 | M20x2P | | | ● |
| HSK100A-SLA50-130 | 50 | 100 | 130 | M20x2P | | | ● |

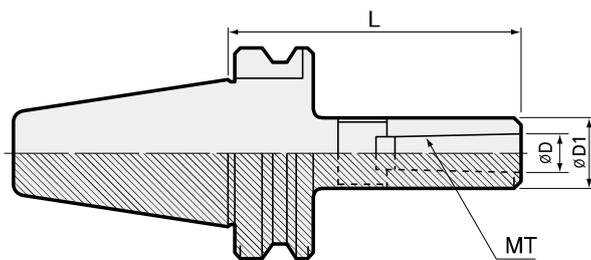
● - Always Stock Available ○ - Make to Order



MORSE TAPER ADAPTOR



| | | | |
|----------------------------|------------------------|--------------------------|-----------------------|
| MAS 403-BT Shank | G2.5 G value | 25,000 Max RPM | 5µm Run Out |
| C Coolant | Milling | Drilling | Reaming |



Morse Taper Adaptor BT-MTA Series

| Description | Dimensions (mm) | | | | | | Stock |
|----------------|-----------------|--------|-----|-----|--|--|-------|
| | MT | ØD | ØD1 | L | | | |
| BT30-MTA01-50 | 1 | 12.065 | 25 | 50 | | | ● |
| BT30-MTA01-110 | 1 | 12.065 | 25 | 110 | | | ● |
| BT30-MTA02-60 | 2 | 17.780 | 32 | 60 | | | ● |
| BT30-MTA02-120 | 2 | 17.780 | 32 | 120 | | | ● |
| BT30-MTA03-75 | 3 | 23.825 | 40 | 75 | | | ● |
| BT30-MTA03-140 | 3 | 23.825 | 40 | 140 | | | ● |
| BT40-MTA01-50 | 1 | 12.065 | 25 | 50 | | | ● |
| BT40-MTA01-115 | 1 | 12.065 | 25 | 115 | | | ● |
| BT40-MTA02-60 | 2 | 17.780 | 32 | 60 | | | ● |
| BT40-MTA02-125 | 2 | 17.780 | 32 | 125 | | | ● |
| BT40-MTA03-75 | 3 | 23.825 | 40 | 75 | | | ● |
| BT40-MTA03-140 | 3 | 23.825 | 40 | 140 | | | ● |
| BT40-MTA04-95 | 4 | 31.267 | 50 | 95 | | | ● |
| BT50-MTA01-50 | 1 | 12.065 | 25 | 50 | | | ● |
| BT50-MTA01-120 | 1 | 12.065 | 25 | 120 | | | ● |
| BT50-MTA02-60 | 2 | 17.780 | 32 | 60 | | | ● |
| BT50-MTA02-140 | 2 | 17.780 | 32 | 140 | | | ● |
| BT50-MTA03-75 | 3 | 23.825 | 40 | 75 | | | ● |
| BT50-MTA03-150 | 3 | 23.825 | 40 | 150 | | | ● |
| BT50-MTA04-95 | 4 | 31.267 | 50 | 95 | | | ● |
| BT50-MTA04-180 | 4 | 31.267 | 50 | 180 | | | ● |
| BT50-MTA05-120 | 5 | 44.399 | 63 | 120 | | | ● |
| BT50-MTA05-220 | 5 | 44.399 | 63 | 220 | | | ● |

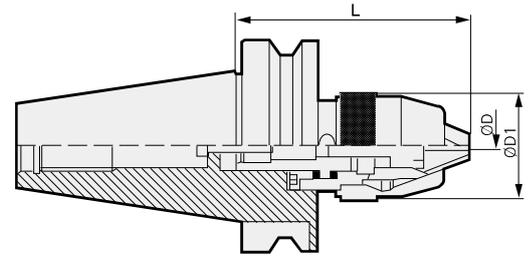
● - Always Stock Available ○ - Make to Order



APU DRILL CHUCK



| | | |
|---------------|---------|---|
| MAS 403-BT | G2.5 | 25,000 |
| Shank | G value | Max RPM |
| 5µm | C |  |
| Run Out | Coolant | Drilling |



APU Drill Chuck BT-APU Series

| Description | Dimensions (mm) | | | | | | | Stock |
|----------------|-----------------|-----|-----|--|--|--|--|-------|
| | ØD | ØD1 | L | | | | | |
| BT30-APU08-80 | 1 - 8 | 37 | 80 | | | | | ● |
| BT30-APU13-120 | 1 - 13 | 50 | 120 | | | | | ● |
| BT30-APU16-120 | 3 - 16 | 57 | 120 | | | | | ● |
| BT40-APU08-75 | 1 - 8 | 37 | 75 | | | | | ● |
| BT40-APU13-100 | 1 - 13 | 50 | 100 | | | | | ● |
| BT40-APU16-105 | 3 - 16 | 57 | 105 | | | | | ● |
| BT50-APU08-75 | 1 - 8 | 37 | 75 | | | | | ● |
| BT50-APU13-100 | 1 - 13 | 50 | 100 | | | | | ● |
| BT50-APU16-105 | 3 - 16 | 57 | 105 | | | | | ● |

● - Always Stock Available ○ - Make to Order