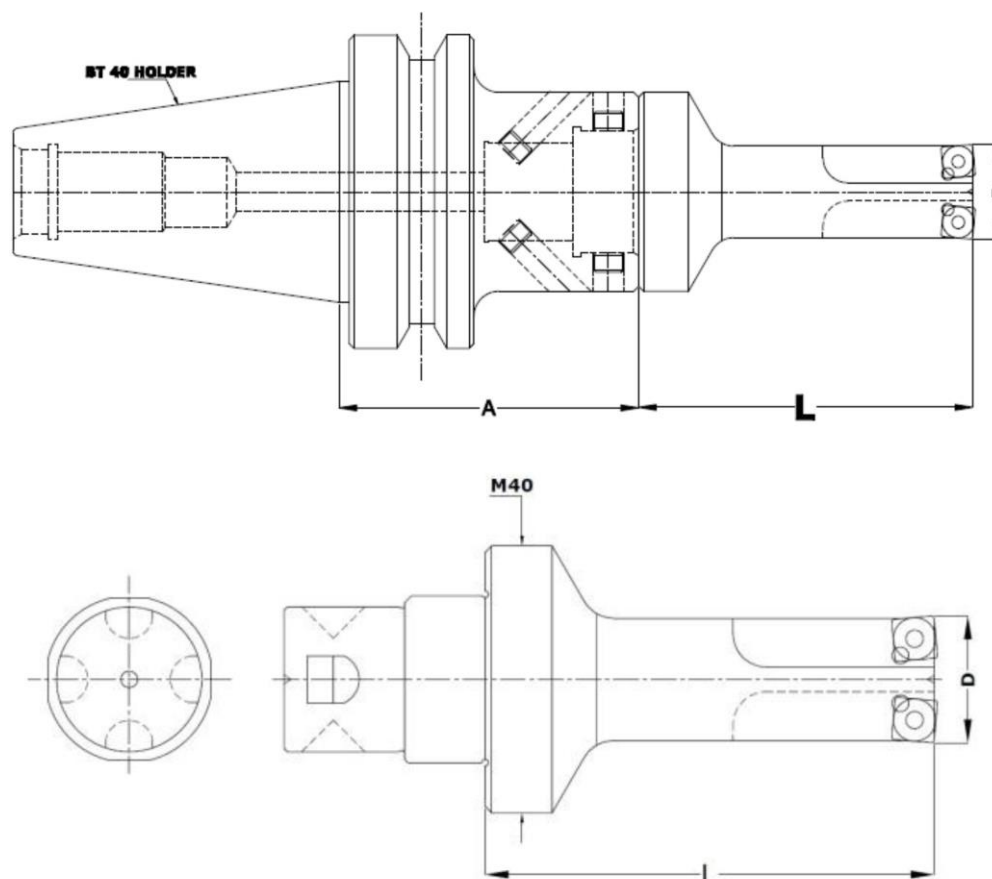


8.a. Twin Cutting Edge ID Boring Bar

Twin Cutting Edge ID Semi-finish/Rough Boring



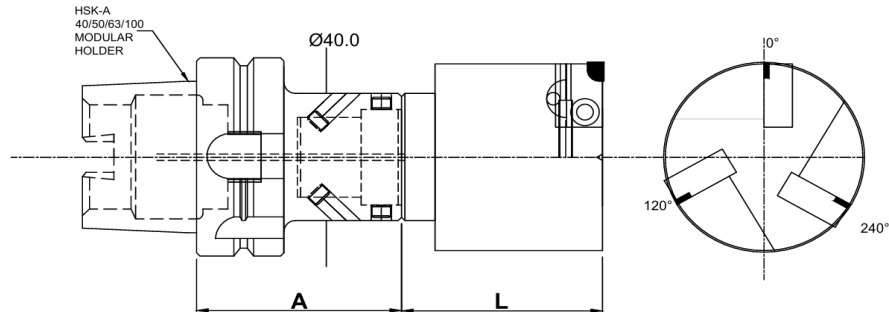
Twin Cutting Edge ID Boring Bar(mm)		
Taper Size	Designation	OD (D)
SP-TCBR-M40-S1-120-18	80	18
SP-TCBR-M40-S1-120-20	120	20
SP-TCBR-M40-S1-120-25	120	25
SP-TCBR-M40-S1-120-30	120	30
SP-TCBR-M40-S1-120-32	120	32
SP-TCBR-M40-S1-120-36	120	36
- Customized size can be done as per the customer requirement. - Holder can be BT/HSK/SK. - Holder is as per Spectra standard modular as per catalogue.		Insert Detail S1- SXMT060204 S2- SXMT09T304

ORDERING INSTRUCTIONS

SP - TCBR - M40 - S1 - 120 - 18
 Spectra Tools Modular 40 Type Length (A) Diameter (D)
 Twin Cutting Rough Boring Insert Type

8.b. PCD Type Face Mounting Rough Boring Bar

PCD Brezed Face Mounting Semi/Rough Boring Bar

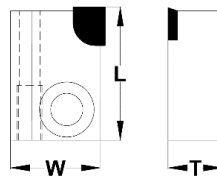


PCD Type Rough Boring Bar (mm)

Designation	Length (L)	Diameter (D)	Z	Cartridge Type
SP-PCD-FM-RBB-50-30	50	30	3	SP-PCD-FM-RBBC-15-12-7
SP-PCD-FM-RBB-50-40	50	40	3	SP-PCD-FM-RBBC-15-12-7
SP-PCD-FM-RBB-60-50	60	50	3	SP-PCD-FM-RBBC-15-12-7
SP-PCD-FM-RBB-60-60	60	60	3	SP-PCD-FM-RBBC-15-12-7
SP-PCD-FM-RBB-60-80	60	80	5	SP-PCD-FM-RBBC-20-14-9
SP-PCD-FM-RBB-80-100	80	100	5	SP-PCD-FM-RBBC-20-14-9
SP-PCD-FM-RBB-100-120	100	120	5	SP-PCD-FM-RBBC-25-16-11
SP-PCD-FM-RBB-100-140	100	140	5	SP-PCD-FM-RBBC-25-16-11

• Customized size can be done as per the customer requirement. • Holder Can be BT/HSK/SK

Cartridge Details



PCD Type Rough Boring Bar Cartridges (mm)

Designation	Length (L)	Width (W)	Thickness (T)
SP-PCD-FM-RBBC-15-12-7	50	30	7
SP-PCD-FM-RBBC-20-14-9	50	40	9
SP-PCD-FM-RBBC-25-16-11	60	50	11

• Customized size can be done as per the customer requirement.

TOOL ORDERING INSTRUCTIONS

SP - PCD - FM - RBB - 60 - 50

Spectra Tools
 ↓ Face Mounting
 ↓ Length (L)
 ↓ Diameter (D)
 Brazing Material Rough Boring Bar

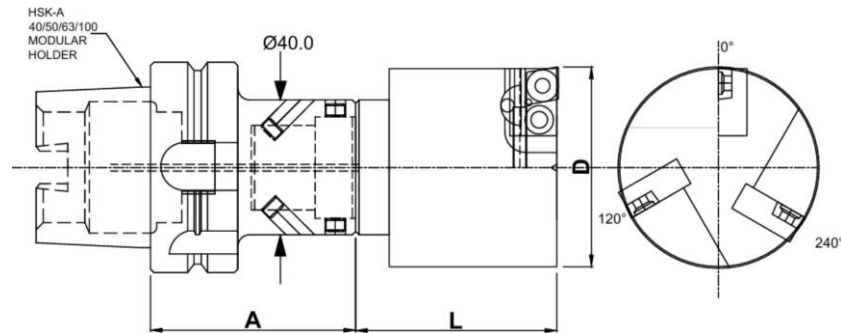
CARTRIDGE ORDERING INSTRUCTIONS

SP - PCD - FM - RBBC - 15 - 12 - 7

Spectra Tools
 ↓ Face Mounting
 ↓ Length (L)
 ↓ Thickness (T)
 ↓ Width (W)
 Brazing Material Rough Boring Bar Cartridge

8.c. Insert Type Face Mounting Rough Boring Bar

Insert Type Face Mounting Semi/Rough Boring Bar



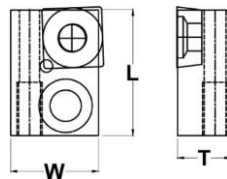
Insert Type Rough Boring Bar (mm)

Designation	Length (L)	Diameter (D)	Z	Cartridge Type
SP-IT-FM-RBB-50-30	50	30	3	SP-IT-FM-RBBC-15-12-7
SP-IT-FM-RBB-50-40	50	40	3	SP-IT-FM-RBBC-15-12-7
SP-IT-FM-RBB-60-50	60	50	3	SP-IT-FM-RBBC-15-12-7
SP-IT-FM-RBB-60-60	60	60	3	SP-IT-FM-RBBC-15-12-7
SP-IT-FM-RBB-60-80	60	80	5	SP-IT-FM-RBBC-20-14-9
SP-IT-FM-RBB-80-100	80	100	5	SP-IT-FM-RBBC-20-14-9
SP-IT-FM-RBB-100-120	100	120	5	SP-IT-FM-RBBC-25-16-11
SP-IT-FM-RBB-100-140	100	140	5	SP-IT-FM-RBBC-25-16-11

• Customized size can be done as per the customer requirement.

• Holder Can be BT/HSK/SK

Cartridge Details



Insert Type Rough Boring Bar Cartridge (mm)

Designation	Length (L)	Width (W)	Thickness (T)
SP-IT-FM-RBBC-15-12-7	15	12	7
SP-IT-FM-RBBC-20-14-9	20	14	9
SP-IT-FM-RBBC-25-16-11	25	16	11

• Customized size can be done as per the customer requirement.

TOOL ORDERING INSTRUCTIONS

SP - IT - FM - RBB - 60 - 50

Spectra Tools Face Mounting Length (L) Diameter (D)
Insert Type Rough Boring Bar

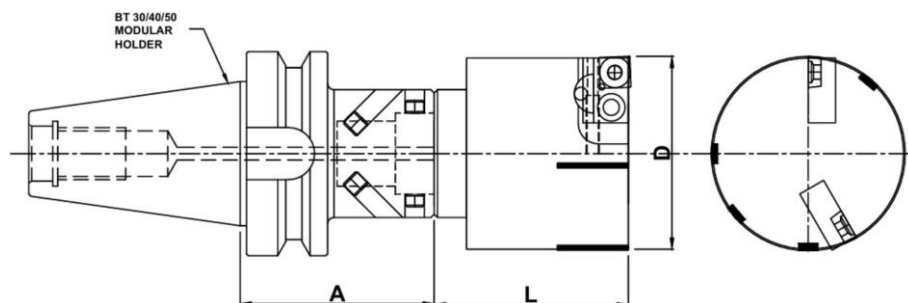
CARTRIDGE ORDERING INSTRUCTIONS

SP - IT - FM - RBBC - 15 - 12 - 7

Spectra Tools Face Mounting Length (L) Thickness (T)
Insert Type Rough Boring Bar Cartridge Width (W)

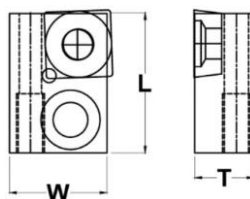
8.d. Insert Type Face Mounting Fine Boring Bar

Insert Type Face Mounting Fine Finish With Guide Pads Boring Bar



Insert Type Fine Boring Bar (mm)				
Designation	Length (L)	Diameter (D)	Z	Cartridge Type
SP-IT-FM-FBB-50-30	50	30	3	SP-IT-FM-FBBC-15-12-7
SP-IT-FM-FBB-50-40	50	40	3	SP-IT-FM-FBBC-15-12-7
SP-IT-FM-FBB-60-50	60	50	3	SP-IT-FM-FBBC-15-12-7
SP-IT-FM-FBB-60-60	60	60	3	SP-IT-FM-FBBC-15-12-7
SP-IT-FM-FBB-60-80	60	80	5	SP-IT-FM-FBBC-20-14-9
SP-IT-FM-FBB-80-100	80	100	5	SP-IT-FM-FBBC-20-14-9
SP-IT-FM-FBB-100-120	100	120	5	SP-IT-FM-FBBC-25-16-11
SP-IT-FM-FBB-100-140	100	140	5	SP-IT-FM-FBBC-25-16-11
• Customized size can be done as per the customer requirement. • Holder Can be BT/HSK/SK				

Cartridge Details



Insert Type Fine Boring Bar Cartridge (mm)				
Designation	Length (L)	Width (W)	Thickness (T)	Insert Type
SP-IT-FM-FBBC-15-12-7	15	12	7	SCMT09T304
SP-IT-FM-FBBC-20-14-9	20	14	9	SCMT09T304
SP-IT-FM-FBBC-25-16-11	25	16	11	SCMT09T304
• Customized size can be done as per the customer requirement.				

TOOL ORDERING INSTRUCTIONS

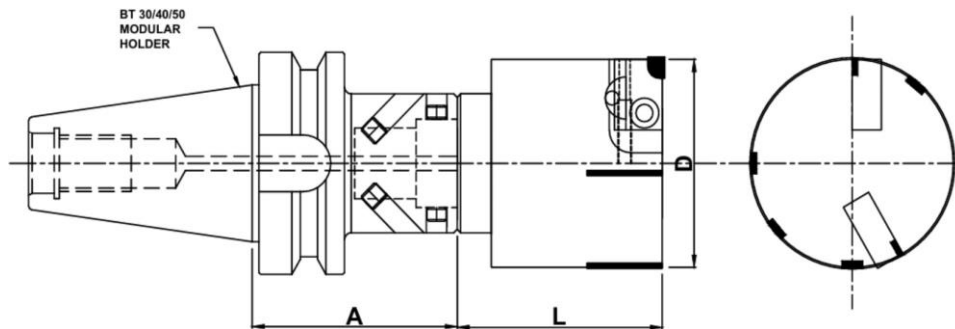
SP - **IT** - **FM** - **FBB** - **60** - **50**
 Spectra Tools Insert Type Face Mounting Fine Boring Bar Length (L) Diameter (D)

CARTRIDGE ORDERING INSTRUCTIONS

SP - **IT** - **FM** - **FBBC** - **15** - **12** - **7**
 Spectra Tools Insert Type Face Mounting Fine Boring Bar Cartridge Length (L) Thickness (T) Width (W)

8.e. PCD Brezed Face Mounting Type Fine Boring Bar

PCD Brezed Type Face Mounting Fine Finish With Guide Pads Boring Bar

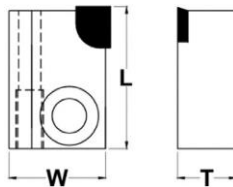


PCD Brezed Type Face Fine Boring Bar (mm)

Designation	Length (L)	Diameter (D)	Z	Cartridge Type
SP-PCD-FM-FBB-50-30	50	30	3	SP-PCD-FM-FBBC-15-12-7
SP-PCD- FM -FBB-50-40	50	40	3	SP-PCD-FM-FBBC-15-12-7
SP-PCD- FM -FBB-60-50	60	50	3	SP-PCD-FM-FBBC-15-12-7
SP-PCD- FM -FBB-60-60	60	60	3	SP-PCD-FM-FBBC-15-12-7
SP-PCD- FM -FBB-60-80	60	80	5	SP-PCD-FM-FBBC-20-14-9
SP-PCD- FM -FBB-80-100	80	100	5	SP-PCD-FM-FBBC-20-14-9
SP-PCD- FM -FBB-100-120	100	120	5	SP-PCD-FM-FBBC-25-16-11
SP-PCD- FM -FBB-100-140	100	140	5	SP-PCD-FM-FBBC-25-16-11

• Customized size can be done as per the customer requirement. • Holder Can be BT/HSK/SK

Cartridge Details



PCD Brezed Type Fine Face Boring Bar Cartridge (mm)

Designation	Length (L)	Width (W)	Thickness (T)
SP-PCD-FM-FBBC-15-12-7	15	12	7
SP-PCD-FM-FBBC-20-14-9	20	14	9
SP-PCD-FM-FBBC-25-16-11	25	16	11

• Customized size can be done as per the customer requirement.

TOOL ORDERING INSTRUCTIONS

SP - PCD - FM - FBB - 60 - 50

Spectra Tools Face Mounting Length (L) Diameter (D)

Brazing Material Fine Boring Bar

CARTRIDGE ORDERING INSTRUCTIONS

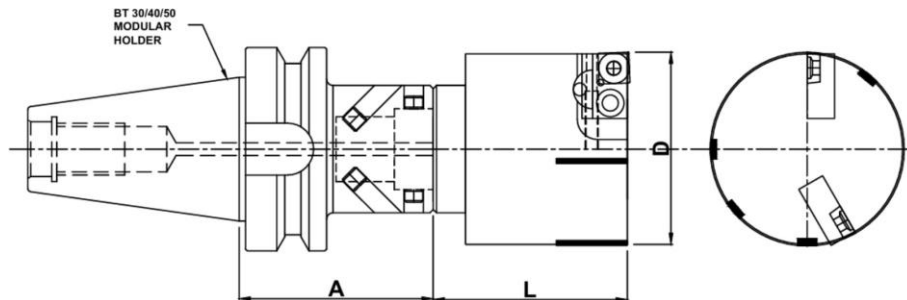
SP - PCD- FM-FBBC - 15 - 12 - 7

Spectra Tool Face Mounting Length (L) Thickness (T)

Brazing Material Fine Boring Bar Cartridge Width(W)

8.f. Insert Type Parallel Mounting Fine Boring Bar

Insert Type Parallel Mounting Fine Finish With Guide Pads Boring Bar

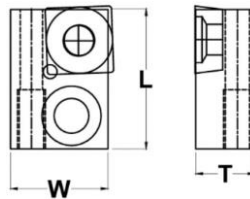


Insert Type Face Fine Boring Bar (mm)

Designation	Length (L)	Diameter (D)	Z	Cartridge Type
SP-IT-PM-FBB-50-30	50	30	3	SP-IT-PM-FBBC-15-12-7
SP-IT-PM-FBB-50-40	50	40	3	SP-IT-PM-FBBC-15-12-7
SP-IT-PM-FBB-60-50	60	50	3	SP-IT-PM-FBBC-15-12-7
SP-IT-PM-FBB-60-60	60	60	3	SP-IT-PM-FBBC-15-12-7
SP-IT-PM-FBB-60-80	60	80	5	SP-IT-PM-FBBC-20-14-9
SP-IT-PM-FBB-80-100	80	100	5	SP-IT-PM-FBBC-20-14-9
SP-IT-PM-FBB-100-120	100	120	5	SP-IT-PM-FBBC-25-16-11
SP-IT-PM-FBB-100-140	100	140	5	SP-IT-PM-FBBC-25-16-11

• Customized size can be done as per the customer requirement. • Holder Can be BT/HSK/SK

Cartridge Details



Insert Type Face Fine Boring Bar Cartridge (mm)

Designation	Length (L)	Width (W)	Thickness (T)	Insert Type
SP-IT-PM-FBBC-15-12-7	15	12	7	SCMT09T304
SP-IT-PM-FBBC-20-14-9	20	14	9	SCMT09T304
SP-IT-PM-FBBC-25-16-11	25	16	11	SCMT09T304

• Customized size can be done as per the customer requirement.

TOOL ORDERING INSTRUCTIONS

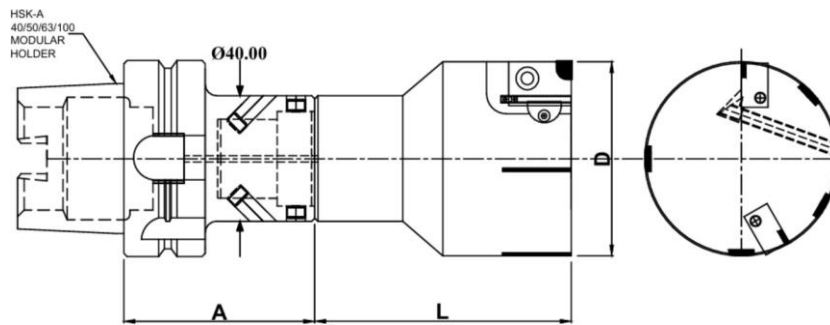
SP - **IT** - **PM** - **FBB** - **60** - **50**
 Spectra Tools Parallel Mounting Length (L) Diameter (D)
 Insert Type Fine Boring Bar

CARTRIDGE ORDERING INSTRUCTIONS

SP - **IT** - **PM** - **FBBC** - **15** - **12** - **7**
 Spectra Tools Parallel Mounting Length (L) Thickness
 Insert Type Fine Boring Bar Cartridge Width (W)

8.g. PCD Brezed Type Parallel Mounting Fine Boring Bar

PCD Brezed Type Parallel Mounting Fine Finish With Guide Pads Boring Bar

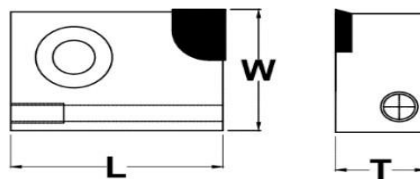


PCD Brezed Type Face Fine Boring Bar (mm)

Designation	Length (L)	Diameter (D)	Z	Cartridge Type
SP-PCD-PM-FBB-50-30	50	30	3	SP-PCD-PM-FBBC-15-12-7
SP-PCD-PM-FBB-50-40	50	40	3	SP-PCD-PM-FBBC-15-12-7
SP-PCD-PM-FBB-60-50	60	50	3	SP-PCD-PM-FBBC-15-12-7
SP-PCD-PM-FBB-60-60	60	60	3	SP-PCD-PM-FBBC-15-12-7
SP-PCD-PM-FBB-60-80	60	80	5	SP-PCD-PM-FBBC-20-14-9
SP-PCD-PM-FBB-80-100	80	100	5	SP-PCD-PM-FBBC-20-14-9
SP-PCD-PM-FBB-100-120	100	120	5	SP-PCD-PM-FBBC-25-16-11
SP-PCD-PM-FBB-100-140	100	140	5	SP-PCD-PM-FBBC-25-16-11

• Customized size can be done as per the customer requirement. • Holder Can be BT/HSK/SK

Cartridge Details



PCD Brezed Type Face Fine Boring Bar Cartridge (mm)

Designation	Length (L)	Width (W)	Thickness (T)
SP-PCD-PM-FBBC-15-12-7	15	12	7
SP-PCD-PM-FBBC-20-14-9	20	14	9
SP-PCD-PM-FBBC-25-16-11	25	16	11

• Customized size can be done as per the customer requirement.

TOOL ORDERING INSTRUCTIONS

SP - PCD - PM - FBB - 60 - 50

Spectra Tools
Parallel Mounting
Fine Boring Bar
Length (L)
Diameter (D)

CARTRIDGE ORDERING INSTRUCTIONS

SP - PCD - PM - FBBC - 15 - 12 - 7

Spectra Tool
Parallel Mounting
Fine Boring Bar Cartridge
Length (L)
Thickness (T)
Width (W)