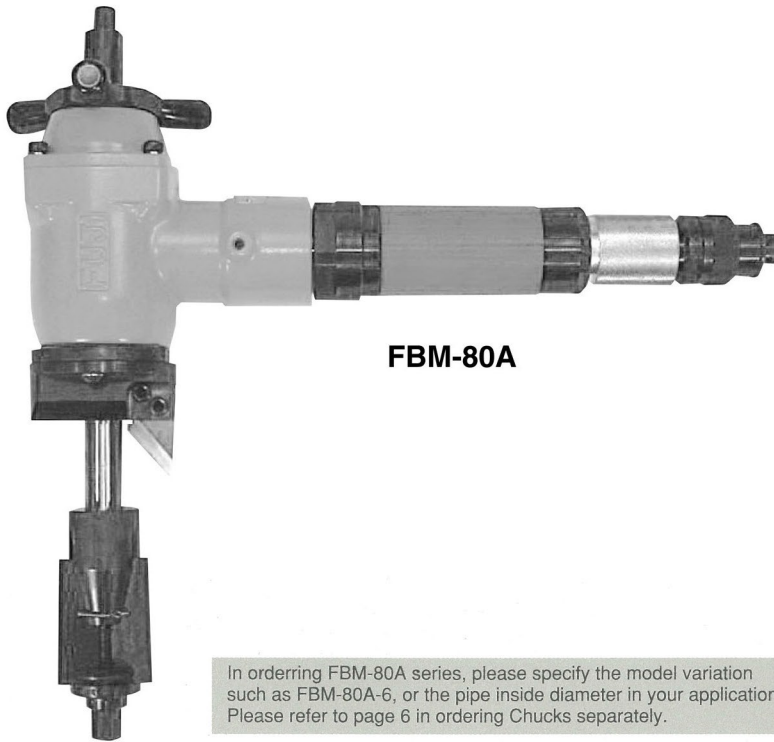


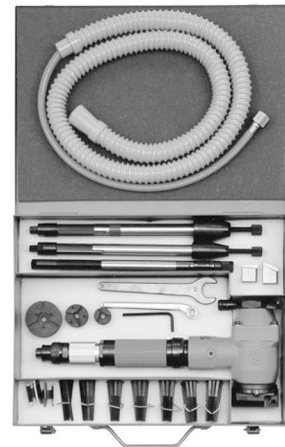
Fuji USER MANUAL

PIPE BEVELLING MACHINE (PORTABLE TYPE)

MODELS : FBM-80A



FBM-80A



In ordering FBM-80A series, please specify the model variation such as FBM-80A-6, or the pipe inside diameter in your application. Please refer to page 6 in ordering Chucks separately.

The Self-Return Handle is prepared for all models. Each model name has Suffix "S" such as FBM-80A-2S

SPECIFICATIONS

Model	Model Variation	Capacity (Pipe inside Dia.)		Recommended Torque Range			Rotational Frequency	Feed Length		Spindle Offset		Overall Length		Mass		Max. Air Consumption		
		mm	in	N.m	kgf.m	ft.lb		min ⁻¹	mm	in	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min
FBM-80A	-2 (S)	30~40	1 3/16~1 9/16	113.0	11.5	83.2	100	30	1 3/16	39	1 35/64	403	15 7/8	6.5	14.3	0.6	21.2	
	-3 (S)	40~80	1 9/16~3 1/8	113.0	11.5	83.2	100	30	1 3/16	39	1 35/64	403	15 7/8	6.7	14.8	0.6	21.2	
	-4 (S)	30~80	1 3/16~3 1/8	FBM-80A-4 (S) is supplied with the Chuck Assemblies attached to FBM-80A-2 (S) and FBM-80A-3 (S).														
	-5 (S)	20~29	25/32~1 5/32	113.0	11.5	83.2	100	30	1 3/16	39	1 35/64	403	15 7/8	6.0	13.0	0.6	21.2	
	-6 (S)	20~80	25/32~3 1/8	FBM-80A-6 (S) is supplied with a full range of Chuck Assemblies and Tool Holder Assemblies.														

* Air Inlet Thread Size : Rc or NPT 1/4".

* Air Hose Size : 8mm(5/16").

The performance figures are at 0.63MPa (6.3 bar).



Refer to "The Instructions and Warning for Safety Use" enclosed in each tool box.

Specifications are subjects to change without notice.

ASSEMBLY TOOLS

ABRASIVE TOOLS

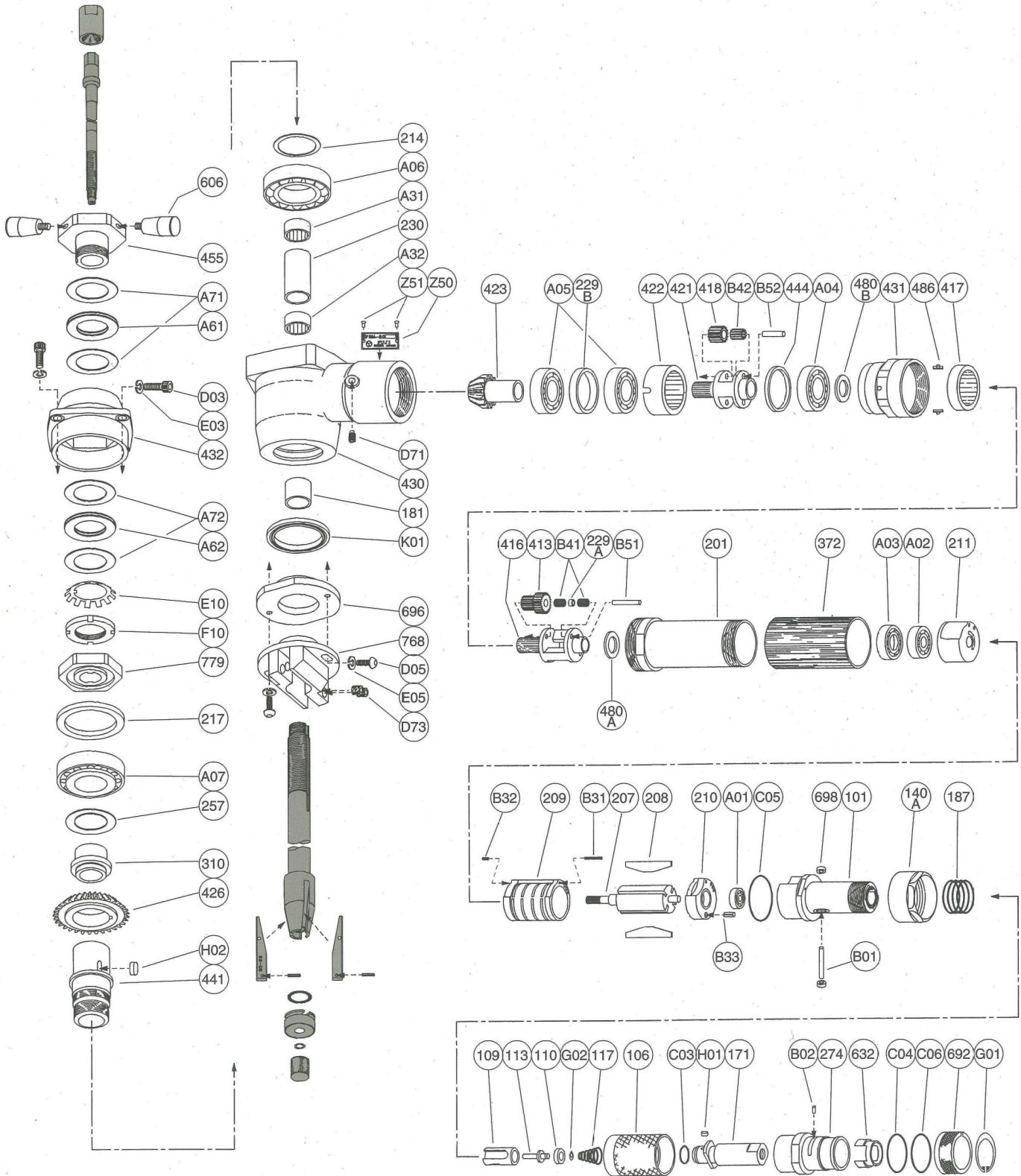
DRILLS/TAPPERS

PERCUSSIVE TOOLS

AIR MOTORS

OTHER PRODUCTS

EXPLODED VIEW



※ Please refer page 4 and 5 on the Chuck Assemblies shadowed to draw your attention.

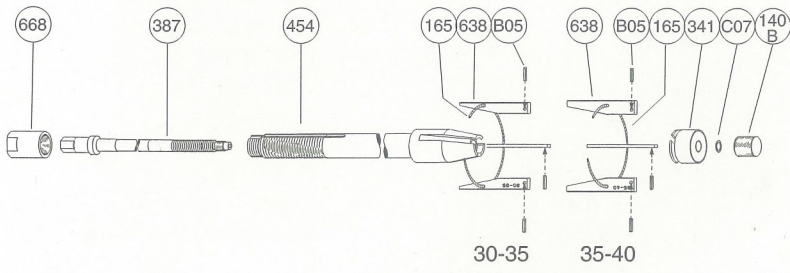
PARTS LIST

Index No.	Parts No.	Parts Name	Qt.	Index No.	Parts No.	Parts Name	Qt.
Roll Handle Type							
-	S-116001-00	Housing Cover Ass'y		217	S-121217-00	Bearing Cover	1
101	S-116101-00	Housing Cover	1	229A	D-004229-00	Bearing Spacer	2
106	S-077106-00	Throttle Valve Handle	1	229B	S-077229-00	Bearing Spacer	1
109	S-077109-00	Throttle Valve Bushing	1	230	S-121230-00	Bearing Spacer (B)	1
110	S-116110-00	Throttle Valve	1	257	S-121257-00	Washer (T=0.2)	1
113	S-116113-00	Throttle Valve Rod	1		S-121257-01	Washer (T=0.3)	1
117	S-077117-00	Throttle Valve Spring	1		S-121257-02	Washer (T=0.5)	1
171	S-116171-00	Inlet Bushing	1	310	S-077310-00	Spindle Arbor	1
187	A-086187-00	Throttle Valve Handle Spring	1	372	S-107372-00	Plastic Cover	1
274	S-116274-00	Exhaust Hose Nipple	1	413	D-004413-00	No.1 Planet Gear	2
632	S-077632-00	Regulator	1	B41	NR-19.5	Needle Roller	60
692	S-116692-00	Regulator Knob	1	416	S-107416-00	No.1 Planet Gear Frame	1
698	S-077698-00	Guide Roller	2	417	D-004417-00	No.1 Internal Gear	1
B01	NR-432	Needle Roller	1	418	S-030418-00	No.2 Planet Gear	2
B02	NR-36.8	Needle Roller	1	(B42)	NR-1.512.5	Needle Roller	26
C03	O-S30	"O" Ring	1	421	S-077421-00	No.2 Planet Gear Frame	1
C04	O-S32	"O" Ring	1	422	S-077422-00	No.2 Internal Gear	1
C06	O-S12.5	"O" Ring	1	423	S-077423-00	Bevel Pinion	1
G01	SR-SA30	Snap Ring	1	426	S-077426-00	Bevel Gear	1
G02	SR-E4	Snap Ring	1	430	S-121430-00	No.1 Gear Case	1
H01	K-336	Key	1	431	S-107431-00	No.2 Gear Case	1
Self-return Roll Handle Type							
-	S-116001-01	Housing Cover Ass'y		432	S-121432-00	Gear Case Cover	1
101	S-116101-00	Housing Cover	1	441	S-121441-00	Spindle (B)	1
106	S-077106-00	Throttle Valve Handle	1	444	S-077444-00	Internal Gear Washer	1
109	S-077109-00	Throttle Valve Bushing	1	455	S-121455-00	Feed Sleeve	1
110	S-116110-00	Throttle Valve	1	480A	D-004480-00	Thrust Washer (B)	1
113	S-116113-00	Throttle Valve Rod	1	480B	D-004480-00	Thrust Washer (B)	1
117	S-077117-00	Throttle Valve Spring	1	486	D-004486-00	Internal Gear Knock	2
171	S-116171-00	Inlet Bushing	1	606	S-121606-00	Handle Grip	3
187	S-077187-00	Throttle Valve Handle Spring	1	696	S-121696-00	Joint Nut	1
274	S-116274-00	Exhaust Hose Nipple	1	779	S-121779-00	Locking Clutch Holder	1
632	S-077632-00	Regulator	1	A01	BB-626	Ball Bearing	1
692	S-116692-00	Regulator Knob	1	A02	BB-6200	Ball Bearing	1
698	S-077698-00	Guide Roller	2	A03	BB-6002	Ball Bearing	1
B01	NR-432	Needle Roller	1	A04	BB-SC0409	Ball Bearing	1
B02	NR-36.8	Needle Roller	1	A05	BB-6004	Ball Bearing	2
C03	O-S30	"O" Ring	1	A06	BB-6007	Ball Bearing	1
C04	O-S32	"O" Ring	1	A07	RB-30206	Tapered Roller Bearing	1
C06	O-S12.5	"O" Ring	1	A31	NB-K202413	Needle Bearing	1
G01	SR-SA30	Snap Ring	1	A32	NB-K202413	Needle Bearing	1
G02	SR-E4	Snap Ring	1	A61	NB-AXK1106	Needle Bearing	1
H01	K-336	Key	1	A62	NB-AXK1106	Needle Bearing	1
-	S-121018-00	Tool Holder Ass'y		A71	TW-AS1106	Thrust Washer	2
181	S-077181-00	Bushing (B)	1	A72	TW-AS1106	Thrust Washer	2
768	S-121768-00	Tool Holder	1	B33	SP-410	Spring Pin	1
D73	SS-1012	Set Screw	4	B51	NR-430	Needle Roller	2
140A	S-116140-00	Cup Nut	1	B52	NR-522.5	Needle Roller	2
201	S-107201-00	Housing	1	C05	O-S38	"O" Ring	1
207	D-004207-00	Rotor	1	D03	CS-620	Cap Screw	4
208	G-042208-00	Rotor Blade	4	D05	CS-614B	Cap Screw	2
209	S-077209-00	Cylinder	1	D71	SS-610D	Set Screw	2
(B31)	SP-218	Spring Pin	1	E03	SW-6	Spring Washer	4
(B32)	SP-26	Spring Pin	1	E05	SW-6	Spring Washer	2
210	S-077210-00	Cylinder Upper Plate	1	E10	W-AW06X	Washer	1
211	M-067211-00	Cylinder Lower Plate	1	F10	N-AN06	Nut	1
214	S-121214-00	Adjusting Washer (T=0.2)	1	H02	K-5512	Key	1
	S-121214-01	Adjusting Washer (T=0.5)	1	K01	OS-ZF10	Oil Seal	1
	S-121214-02	Adjusting Washer (T=0.3)	1	Z50	NP-2058	Name Plate	1
				Z51	NPN-0X3.2	Screw Rivet	2

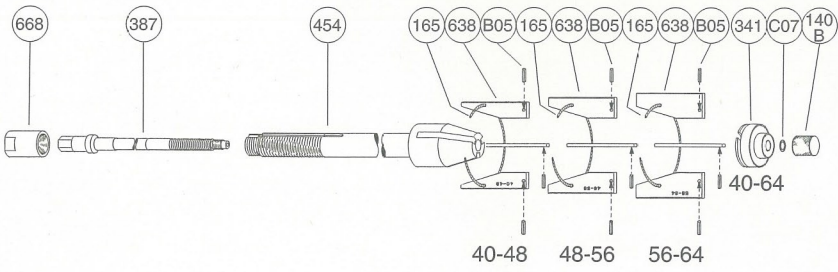
Please refer to page 5 on the parts for Chuck Assemblies.

- The related parts are shown in the thick frame.
- #209 and 418 are supplied together with parts shown in ().
- Specify parts number and quantity in ordering.

CHUCK ASS'Y

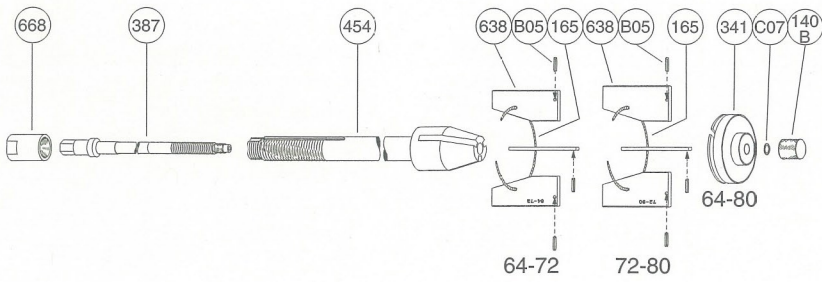


FBM-80A-2
(30mm~40mm)
Ass'y No.S-162016-02

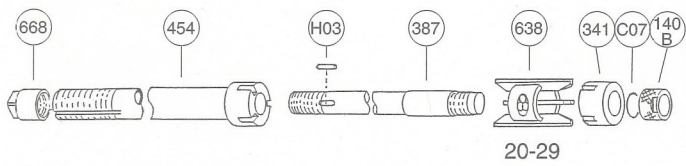


FBM-80A-4
(30mm~80mm)

FBM-80A-3
(40mm~80mm)
Ass'y No.S-162016-03



FBM-80A-6
FULL SET
(20mm~80mm)



FBM-80A-5
(20mm~29mm)
Ass'y No.S-121016-00

PARTS LIST CHUCK ASSEMBLIES

Index No.	Parts No.	Parts Name	Qt.
FBM-80A-2, -2S <30mm~40mm>			
-	S-162016-02	Chuck Ass'y <30~40>	
140B	S-162140-00	Cup Nut	1
341	S-162341-03	Chuck Collar (30~40)	1
387	S-162387-02	Locking Bolt	1
454	S-162454-02	Feed Screw (30~40)	1
668	S-162668-00	Nut	1
C07	O-P6	"O" Ring	1
FBM-80A-3, -3S <40mm~80mm>			
-	S-162016-03	Chuck Ass'y <40~80>	
140B	S-162140-00	Cup Nut	1
341	S-162341-04	Chuck Collar (40~64)	1
	S-162341-05	Chuck Collar (64~80)	1
387	S-162387-02	Locking Bolt	1
454	S-162454-03	Feed Screw (40~80)	1
668	S-162668-00	Nut	1
C07	O-P6	"O" Ring	1
FBM-80A-4, -4S <30mm~40mm>			
-	S-162040-00	Chuck Blade Ass'y <30~35>	
165	S-162165-00	Stop Ring	1
638	S-162638-00	Chuck (30~35)	3
(B05)	SP-2.512	Spring Pin	3
FBM-80A-5, -5S <20mm~29mm>			
-	S-162040-01	Chuck Blade Ass'y <35~40>	
165	S-162165-00	Stop Ring	1
638	S-162638-01	Chuck (35~40)	3
(B05)	SP-2.512	Spring Pin	3
FBM-80A-6, -6S <20mm~80mm> FULL SET			
-	S-162040-02	Chuck Blade Ass'y <40~48>	
165	S-162165-01	Stop Ring	1
638	S-162638-02	Chuck (40~48)	3
(B05)	SP-2.512	Spring Pin	3
FBM-80A-6, -6S <20mm~80mm> FULL SET			
-	S-162040-03	Chuck Blade Ass'y <48~56>	
165	S-162165-01	Stop Ring	1
638	S-162638-03	Chuck (48~56)	3
(B05)	SP-2.512	Spring Pin	3

Index No.	Parts No.	Parts Name	Qt.
-	S-162040-04	Chuck Blade Ass'y <56~64>	
165	S-162165-01	Stop Ring	1
638	S-162638-04	Chuck (56~64)	3
(B05)	SP-2.512	Spring Pin	3
FBM-80A-4, -4S <30mm~40mm>			
-	S-162040-05	Chuck Blade Ass'y <64~72>	
165	S-162165-01	Stop Ring	1
638	S-162638-05	Chuck (64~72)	3
(B05)	SP-2.512	Spring Pin	3
FBM-80A-5, -5S <20mm~29mm>			
-	S-121016-00	Chuck Ass'y <20~29>	
140B	S-121140-00	Cup Nut (B)	1
341	S-121341-00	Chuck Collar	1
387	S-121387-00	Locking Bolt	1
454	S-121454-00	Feed Screw	1
638	S-121638-00	Chuck (20~23)	1
	S-121638-01	Chuck (23~26)	1
	S-121638-02	Chuck (26~29)	1
668	S-121668-00	Nut	1
C07	O-P9	"O" Ring	1
H03	K-33.58(H)	Key	1
FBM-80A-6, -6S <20mm~80mm> FULL SET			
FBM-80A-6, -6S are supplied with a full range of Chucks attached to FBM-80A-2, -2S, -3, -3S, -4, -4S, -5, -5S.			

- The related parts are shown in the thick frame.
- #638 is supplied together with parts shown in ().
- Specify parts number and quantity when ordering.

Chuck Variation

The capacity of each Chuck is shown in the list below.

Please choose the Chuck suitable for the inside diameter of the pipe to be used in your application.

Chuck Variation and Capacity

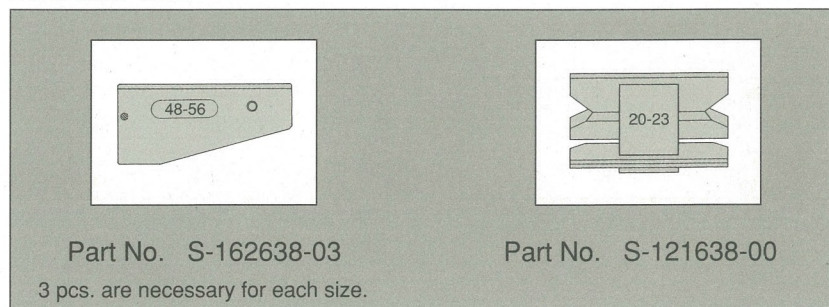
Part No.	S-162638	S-162638	S-162638	S-162638	S-162638	S-162638	S-162638	S-121638	S-121638	S-121638
Variation	-00	-01	-02	-03	-04	-05	-06	-00	-01	-02
-2 (30~40mm)	30~35	35~40	—	—	—	—	—	—	—	—
-3 (40~80mm)	—	—	40~48	48~56	56~64	64~72	72~80	—	—	—
-4 (30~80mm)	30~35	35~40	40~48	48~56	56~64	64~72	72~80	—	—	—
-5 (20~29mm)	—	—	—	—	—	—	—	20~23	23~26	26~29

How to read figure on Chuck

The figure, which is shown on the Chuck, specifies the chucking capacity. As illustrated below, for instance, the figure 48-56 denotes 48mm-56mm chucking capacity and also the figure 20-23 is required to be understood in the same way.

Please refer to the illustrations below in ordering the Chucks.

EXAMPLE



STANDARD BIT TOOL

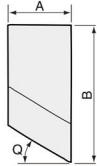
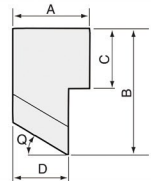
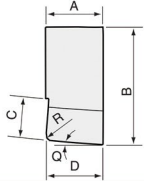
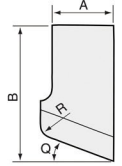
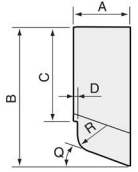
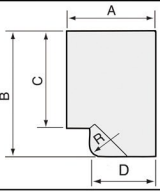
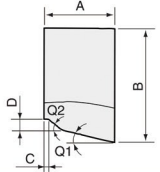
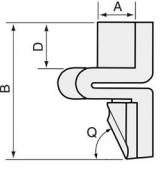
Bit Tool Shape	Parts No.	Angle (Q)	Dimensions (mm)				
			A	B	C	D	Thickness
FOR EXTERIOR BEVELLING 	BIT-042E06	30°	25	40	—	—	11.5
	BIT-042E02	37.5°	35	56			
	BIT-042E03	45°	25	50			
FOR EXTERIOR BEVELLING 	BIT-042E04	30°	35	50	23	7	11.5
FOR INTERIOR BEVELLING 	BIT-042B01	30°	25	40	—	—	11.5
	BIT-042B02	45°	25	50			
FOR SURFACE BEVELLING 	BIT-042F02	—	25	30	—	—	11.5

※ Standard Accessories : Bit-042E06, BIT-042F02

OPTIONAL BIT TOOL

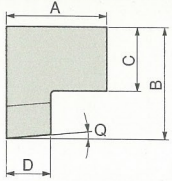
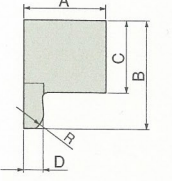
E-SERIES

FOR EXTERIOR BEVELLING

Bit Tool Shape	Type	Parts No.	Angle (Q)		Dimensions (mm)					
					A	B	C	D	R	Thickness
	1	BIT-042E01	30°		35	50	—	—	—	11.5
		BIT-042E08	35°		25	45	—	—	—	
		BIT-042E19	50°		25	50	—	—	—	
	2	BIT-042E05	30°		25	40	19	18	—	11.5
		BIT-042E07	30°		30	41	20	15	—	
		BIT-042E09	72°		25	47	20	13	—	
		BIT-042E17	25°		25	28	16	11	—	
	3	BIT-042E12	30°		35	50	10	35	R1	11.5
		BIT-042E14	4°		30	43	10	17	R1.5	
		BIT-042E15	4°		30	44	10	30	R1.5	
		BIT-042E16	4°		30	43	10	23	R1.5	
	4	BIT-042E25	20°		25	45	—	—	R4	11.5
	5	BIT-042E13	20°		25	38	23	5	R4	11.5
		BIT-042E18	20°		30	49.5	35	2	R6	
	6	BIT-042E10	—		31	44	34	23	R4	11.5
		BIT-042E11	—		41	44	34	10	R4	
	7	BIT-042E21	Q1	Q2	25	40	1.5	3.5	—	11.5
			13°	37.5°						
		BIT-042E24	Q1	Q2	25	40	6	5	—	11.5
			13°	37.5°						
	8	BIT-042E22	30°		35	75	—	25	—	11.5

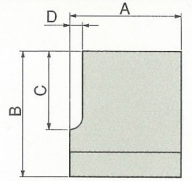
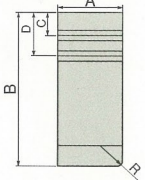
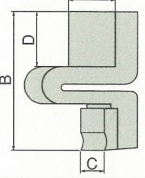
B-SERIES

FOR INTERIOR BEVELLING

Bit Tool Shape	Type	Part No.	Angle (Q)	Dimensions(mm)					
				A	B	C	D	R	Thickness
	1	BIT-042B06	5°	25	28	16	11	—	11.5
	2	BIT-042B05	—	27	36	24	6.5	R6	11.5

F-SERIES

FOR SURFACE BEVELLING

Bit Tool Shape	Type	Part No.	Angle (Q)	Dimensions(mm)					
				A	B	C	D	R	Thickness
	1	BIT-042F01	—	35	40	25	4	—	11.5
		BIT-042F03	—	35	40	25	7	—	
	2	BIT-042F05	—	25	60	9	17	R2	11.5
	3	BIT-042F06	—	35	63	37	25	—	11.5

※ Minimum 10 pcs. per order is required for optional bit tools.

Chuck Exchanging Method

Pipe Inside Dia. < 30mm~80mm >

■ Chuck Mounting

1. Each Chuck variation consists of 3 Chucks (638) and a Stop Ring (165).
2. Set the Chucks (638) into 3 grooves on the Chuck Collar (341).
3. Slide the Chucks (638) into 3 slots in the Chuck Body (346).
4. Turn the hex. part of the Locking Bolt (387) right for firm fixing of chuck-to-chuck body until the thread part of the Locking Bolt (387) comes up by about 5 mm from the surface of the Chuck Collar (341).
5. Fix with the Cup Nut (140B) the end of the Locking Bolt (387). This is the completion of Chuck fixing to the tool.

■ Chuck Dismounting

1. Turn the Cup Nut (140B) left for removing. After the removal, be careful not to miss an "O" Ring inserted in the Cup Nut (140B).
2. Turn left the 11mm hex. head of the Locking Bolt (387) until you feel free from the retention of the Stop Ring (165). Then, pull back the Chucks (638) and the Chuck Collar (341).

Pipe Inside Dia. < 20mm~29mm >

■ Chuck Mounting

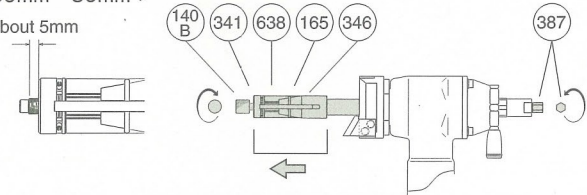
3 Chucks (638) are deposited with rubber.

1. Set the Chucks (638) in 3 grooves on the Chuck Collar (341).
2. Slide the Chucks (638) (opposite side) into 3 slots in the Chuck Body (346).
3. Fix with the Cup Nut (140B) the end of the Locking Bolt (387).

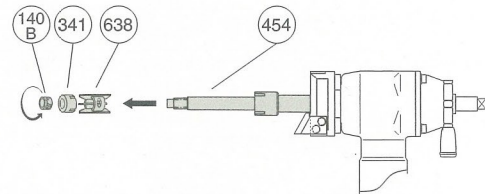
■ Chuck Dismounting

1. Turn the Cup Nut (140B) left for the removal. Be careful not to miss an "O" Ring inserted in the Cup Nut (140B).
2. Pull the Chucks (638) and the Chuck Collar (341) out to the arrow direction.

< 30mm~80mm >
about 5mm



< 20mm~29mm >

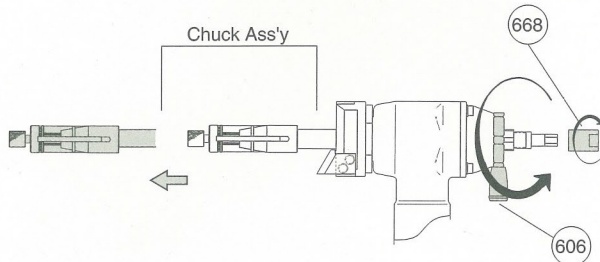


Detaching and Setting of Chuck Assembly

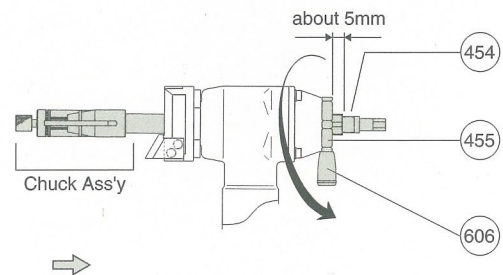
Pipe Inside Dia. < 30mm~80mm >

■ Detaching of Chuck Assembly from Tool

1. Unfasten the Nut (668) by turning it left.
2. Turn the Handle Grip (606) left until the Chuck Assembly, feeded out to the arrow direction, separates from the tool.

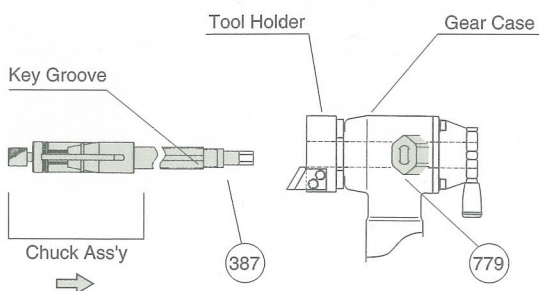


3. Pushing the Chuck Assembly against the Gear Case, turn the Handle Grip (606) right for pulling up the Chuck Assembly.
4. Keep on turning the Handle Grip (606) until the thread part of the Feed Screw (454) comes up by about 5 mm from the surface of the Feed Sleeve (455).

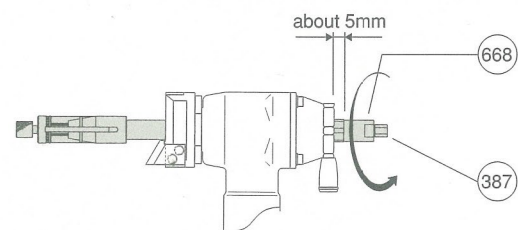


■ Setting of Chuck Assembly to Tool

1. Insert the Locking Bolt (387) of the Chuck Assembly into the Gear Case (430) until it contacts the Locking Clutch Holder (779).
2. 2 locking keys are machined in the Locking Clutch Holder (779). While, 2 grooves are machined on the Locking Bolt (387). When the head of the Locking Bolt (387) contacts the Locking Clutch Holder (779), rotate left or right the Locking Bolt (387) for mating the grooves with the locking keys.



5. Fix the Locking Bolt (387) with the Nut (668).

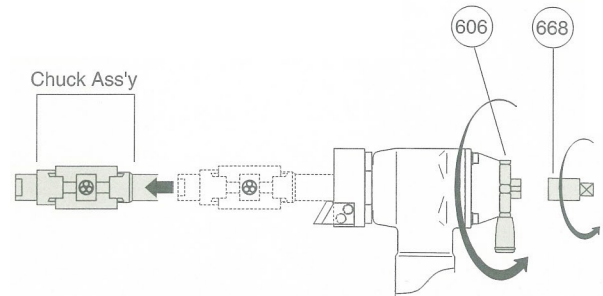


Detaching and Setting of Chuck Assembly

Pipe Inside Dia. < 20mm~29mm >

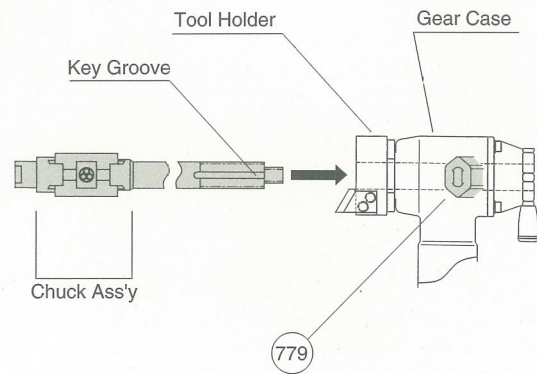
■ Detaching of Chuck Assembly from Tool

1. Loosen the Nut (668) by turning it left.
2. Turn the Handle Grip (606) left until the Chuck Assembly separates from the tool.

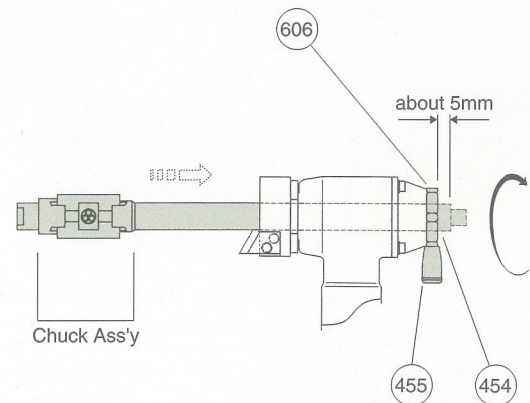


■ Setting of Chuck Assembly to Tool

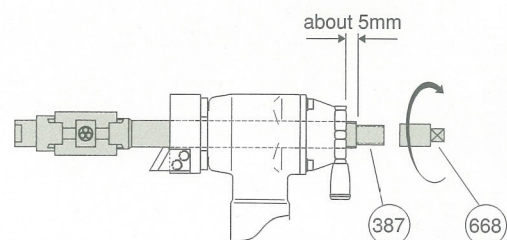
1. Insert the Locking Bolt of the Chuck Assembly into the Gear Case until it contacts the Locking Clutch Holder (779).
2. 2 locking keys are machined in the Locking Clutch Holder (779). 2 grooves are machined on the Feed Screw. When the head of the Locking Bolt contacts the Locking Clutch Holder (779), rotate left or right the Locking Bolt for mating the grooves with the locking keys.



3. Pushing the Chuck Assembly against the Gear Case, turn the Handle Grip (606) right for pulling the Chuck Assembly up.
4. Keep on turning the Handle Grip (606) until the thread part of the Feed Screw (454) comes up by about 5 mm from the surface of the Feed Sleeve (455).



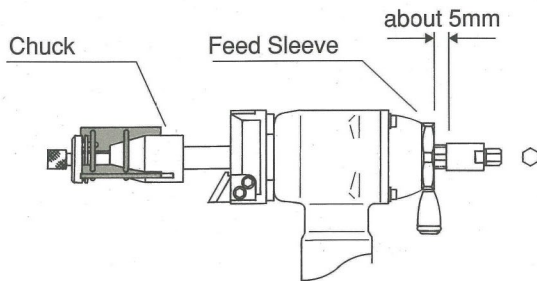
5. Fix the Locking Bolt (387) with the Nut (668). This is the completion of the Chuck fixing to the tool.



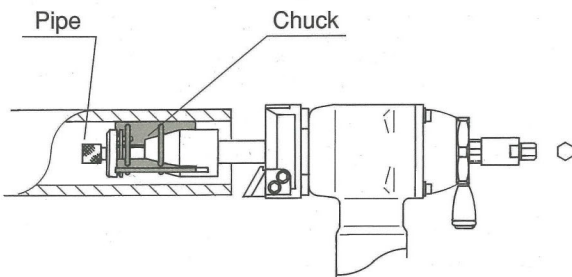
Tool Setting to Pipe

Pipe Inside Dia. < 30mm~80mm >

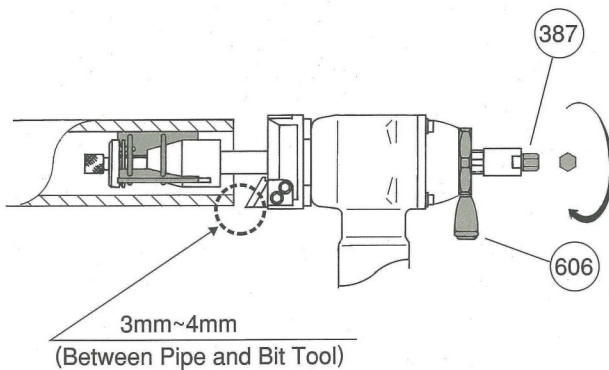
1. Furnish the tool with the Chuck suitable for the pipe inside diameter.



2. Set the Chuck part into the pipe. 3 Chucks are required to be positioned in good balance.

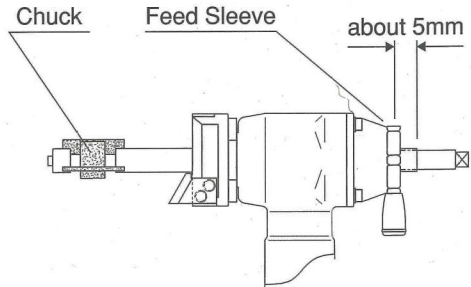


3. Make a 3-4mm space between the pipe and the bit tool. Check to see that the tool is concentrically mounted in the pipe. Expand the Chuck part against the pipe wall by turning the 11mm hex. of the Locking Bolt (387) right.

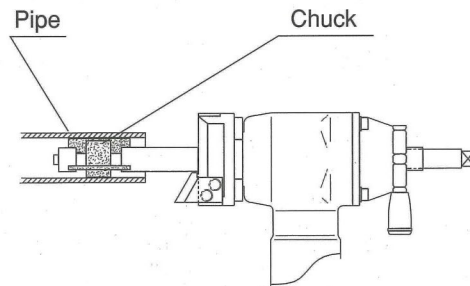


Pipe Inside Dia. < 20mm~29mm >

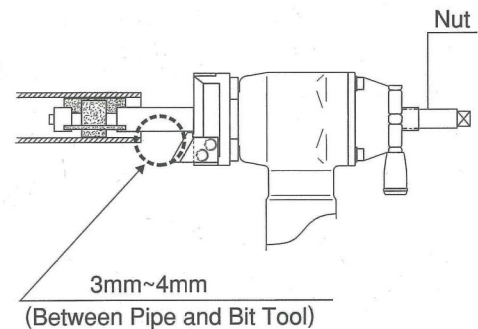
1. Furnish the tool with the Chuck suitable for the pipe inside diameter.



2. Set the Chuck part into the pipe. The Chuck is required to be positioned in good balance.



3. Make a 3-4mm space between the pipe and the bit tool. Expand the Chuck part by turning the 11mm hex. head of the Locking Bolt right.



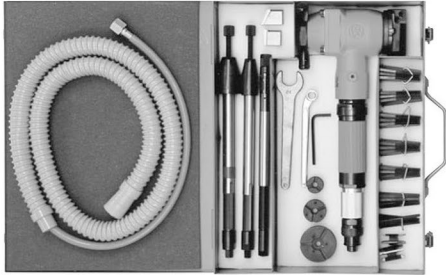
■ Chuck Detaching from Pipe

After completion of the bevelling operation, turn the Handle Grip (606) left to extend the pipe-to-bit tool space to about 10 mm. Turn the 11mm hex. head of the Locking Bolt (387) left to separate the Chuck part from the pipe wall.

■ Beveling Operation

Push the Throttle Valve Handle (106) and turn it left for the motor start. Turn the Handle Grip (606) right to feed the Bit Tool for beveling operation. Keep the best operation status by adjusting the Regulator and the feeding speed of the Bit Tool.

FULL SET (20mm~80mm)



STANDARD ACCESSORIES

AC No.	Description	QTY
BIT-042E06	Bit Tool <FOR 30° EXTERIOR BEVELLING>	1
BIT-042F02	Bit Tool <FOR FLAT SURFACE BEVELLING>	1
IH-8	Air Hose	1
EH-151	Exhaust Hose	1
F-705	Hex. Pin Wrench (5mm)	1
F-107	Open-End Wrench (19mm)	1
F-324	Hex. Wrench (11mm)	1
CASE-42	Metal Case	1
IB-303N01	Inlet Bushing (for NPT only)	1

NECESSARY QUANTITY OF CHUCK AND STOP RINGS

FULL SET (20mm~80mm)

A Full Set of Chucks with Stop Rings attached to FBM-80A-2, -3, -4, & -5

Model	FBM-80A-2		FBM-80A-3		FBM-80A-4		FBM-80A-5		FBM-80A-6	
Chuck Capacity Part Name	30-40mm	Q'ty	40-80mm	Q'ty	30-80mm	Q'ty	20-29mm	Q'ty	20-80mm	Q'ty
Chuck	30-35	3	40-48	3	30-35	3	20-23	1	20-23	1
	35-40	3	48-56	3	35-40	3	23-26	1	23-26	1
			56-64	3	40-48	3	26-29	1	26-29	1
			64-72	3	48-56	3			30-35	3
			72-80	3	56-64	3			35-40	3
					64-72	3			40-48	3
					72-80	3			48-56	3
									56-64	3
									64-72	3
Stop Ring	30-40	1	40-80	1	30-40	1	—	—	30-40	1
					40-80	1			40-80	1

ATTENTION TO USAGE OF FBM-80A SERIES

1. In prior to operation, check to see if the Bit Tool, the Nut (668) and the Cup Nut (140B) are fixed firmly.
2. Use the specified air hose enough to make the sufficient air supply for the optimum tool operation. The performance figures are at 0.63MPa (6.3bar).
3. Blow out drain and dust from the air hose before connecting the tool.
4. Install an air line unit (Oiler, Filter and Regulator) at the end of the pipe line leading to an air hose for automatic lubrication and stable tool operation. The turbine oil #VG32 is recommended.

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