

Pipe Shaver

Fiberglass Pipe Tapering

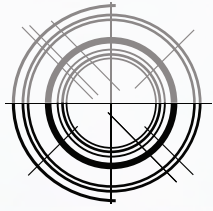


The OTA Fiberglass Pipe Shaver is a precision-engineered set designed for accurate end preparation of GRE, and RTR pipes. It ensures perfectly machined spigot tapers, square ends, and smooth bonding surfaces—critical for high-performance adhesive joints and butt & wrap lamination joints. Built for rugged site conditions, the pipe shaver delivers repeatable accuracy, reduced preparation time, and superior joint geometry.

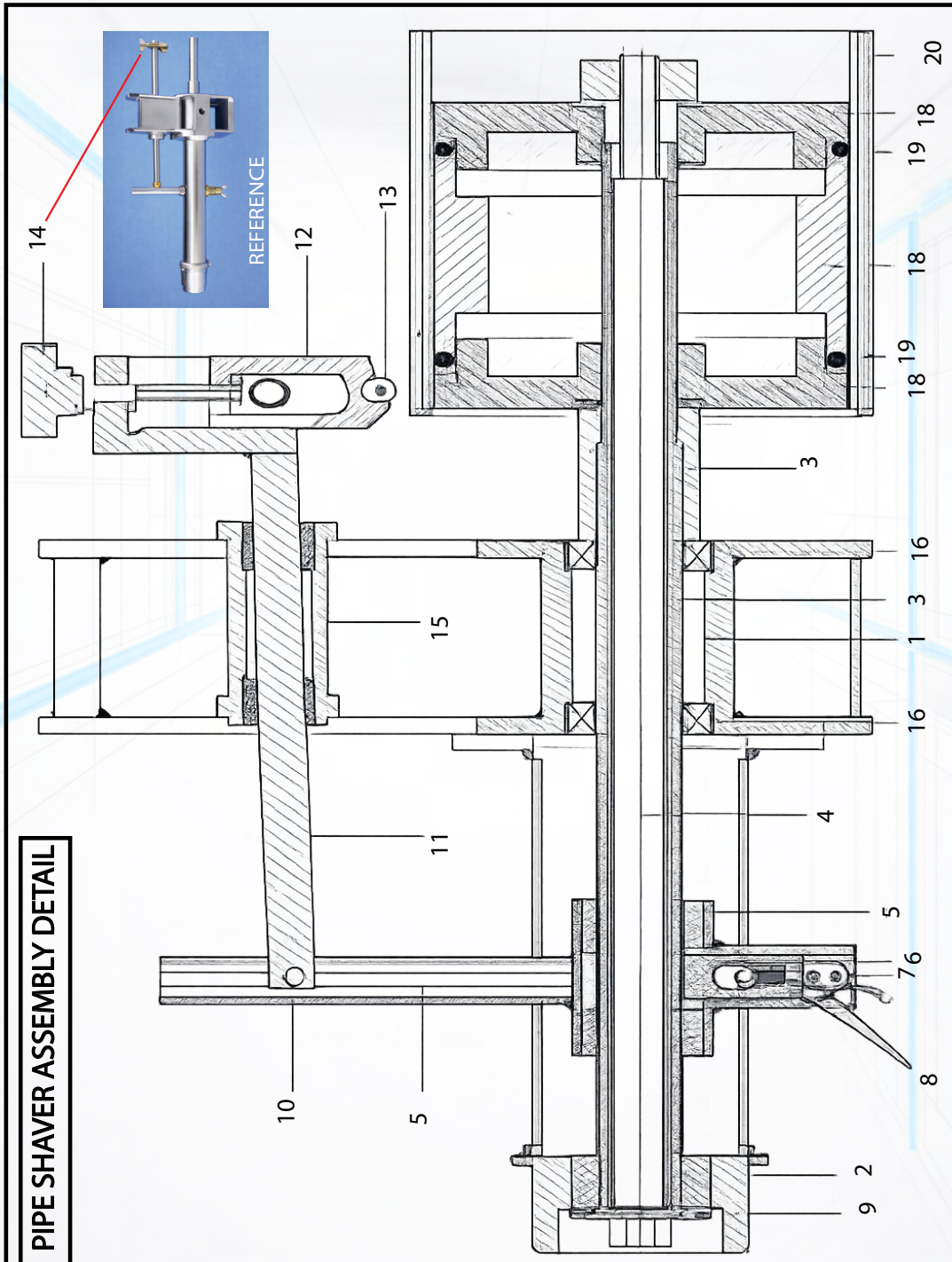


INDEX

Assembly Detail & Design	3 & 4
Packing	5
Pipe Shaver Set	6&7
Included Tools	8
Safety Precautions & Operational Safety	9
Taper Per Manufacturer	10
Resetting Taper Angle Degree°	11&12
Arbors & Powerdrive Specifications	13
Pipe Inner Diameters	14
Operation Manual	15&16
Lifetime Warranty Letter	17
Videos & Guides	18
Contact us	19



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Design

SRL	QUANTITY	NAME
1	1	Main Body
2	1	Powerdrive Holder
3	1	Spindle
4	1	Arbor Bar
5	1	Guide Bush
6	1	Spindle Nut
7	1	Shaver Lock
8	1	Spring
9	1	Washer
10	1	Pin
11	1	Chrome Shaft
12	1	Cutting Blade Holder
13	1	Cutting Blade
14	1	Adjuster
15	1	Taper Degree
16/17	1	Bearing
18	1	Arbor
19	1	Rubber O-Ring
20	1	Pipe



Packing

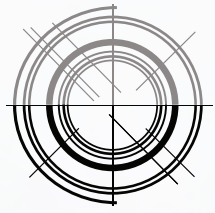
OTA Fiberglass Pipe Shaving Machine is supplied in a seamless protective Aluminum Tool Case. OTA Fiberglass Aluminum Tool Case provides superior protection through light weight, dust and water proof powerful casing.

Shaving Diameter Range

A		
No.	Product Name	Pipe Size (inch)
1	OTA Fiberglass Pipe Shaver	1"-1.5"
2	OTA Fiberglass Pipe Shaver	2"-6"
3	OTA Fiberglass Pipe Shaver	2"-10"
4	OTA Fiberglass Pipe Shaver	6"-16"
5	OTA Fiberglass Pipe Shaver	2"-16"
6	OTA Fiberglass Pipe Shaver	16"-24"
7	OTA Fiberglass Pipe Shaver	24"-40"

B		
No.	Product Name	Pipe Size (mm)
1	OTA Fiberglass Pipe Shaver	25mm-150mm
2	OTA Fiberglass Pipe Shaver	200mm-600mm
3	OTA Fiberglass Pipe Shaver	700mm-1000mm

Sizes can also be modified to request



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Pipe Shaver Set



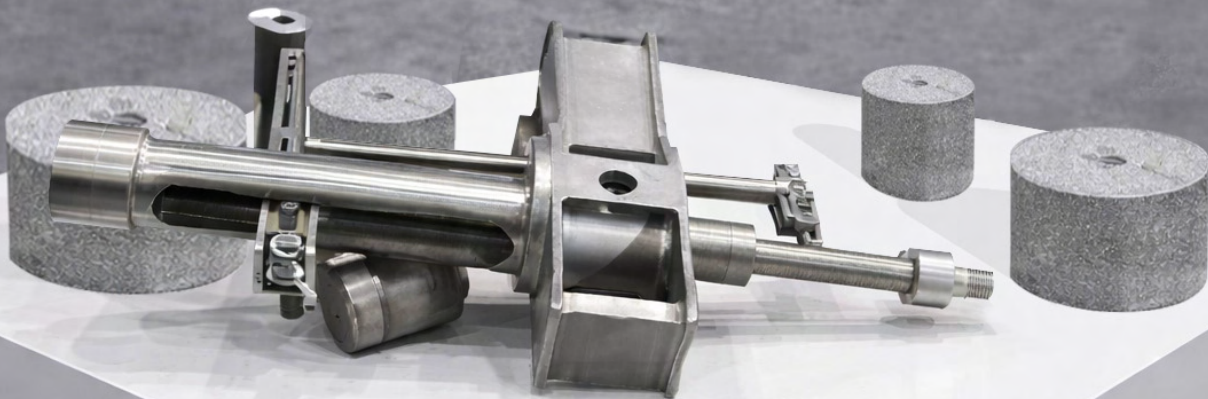
Arbor



Powerdrive



Pipe Shaver





Pipe Shaver Set

Rubber O-ring Arbors/Mandrels:

The centered fitted part to the end of the pipe. Arbors act as holders connecting the shaver to the pipe by mounting to the end of the pipe being shaved.

Motor/Powerdrive:

Automates the rotation of the shaving part on the pipe shaver body to process/shave pipe ends.

Taper Angle Tool:

Sets the degree angle at which the shaver operates. Also known as tapering degree. OTA Fiberglass standard is 1.75° – with custom taper angles made to order From 0 to 5° .





Included Tools

- Pipe Shaver
- Arbors
- OToAworks Powerdrive
- Spare Parts and Tool Kit
- Sliding T Bar
- 27 mm Spanner
- Pouch for tool storage
- Half Round Spanner
- Allen Key 3/4"
- Allen Key 3/8"
- Allen Key 1/8"
- 2 Steel pipes for ergonomic handling of pipe shaver
- Screwdriver
- Spare Shaving Parts
- Additionally ordered Taper Parts

Not Included

- Measuring tape
- Marker to mark pipe shave length
- Band Clamp



Taper 1.75°





Safety Precautions & Operational Safety

- Safety shoes
- Work gloves (GRE material can be very sharp and may cause cuts or splinters);
- Safety hat, well fitting, buttoned up protective clothing must be worn when operating the shaver;
- A hair net must be worn, if applicable, when shaving, cutting, grinding, etc;
- An appropriate dust mask is to be used when cutting, shaving, grinding and sanding.

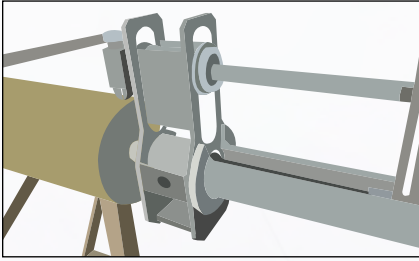
Operational safety

For safe operation of the shaving tool, the following rules must be followed:

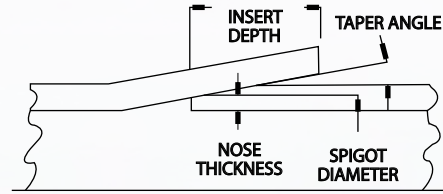
- Use one hand to hold the grip of power drive and the other hand to operate the power switch.
- Release power switch immediately if not in operation to avoid injury.
- The optional power drive support arm must never be used for safety reasons.
- Pipe vise must be at ergonomic height to allow operator to maintain proper posture.
- Before starting the power drive, ensure that the shaver will run free from pipe bench, table or support;
- Shaving area must be clearly marked as such.



TAPER PER MANUFACTURER:



BONDSTRAND



SHAVER COMPATIBLY: FULL COMPATIBLE
✓ ON ALL FRP PIPE MANUFACTURERS

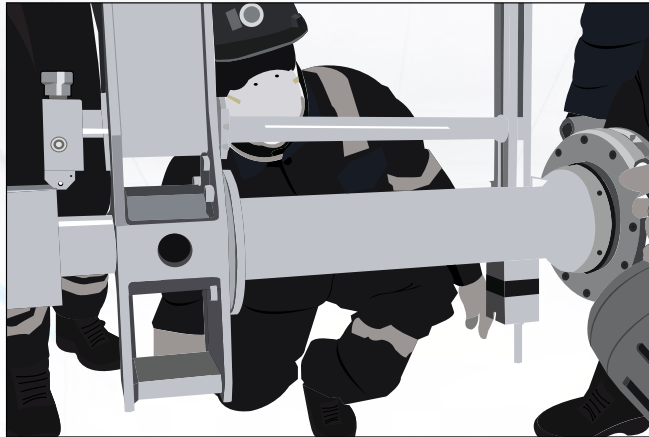
BONDSTRAND SIZES BELOW: FPI & OTHER PIPE
MANUFACTURER SIZES AVAILABLE UPON REQUEST

Taper Angle Degrees Available Range From 0° to 5° As Well As Per Custom Requirement

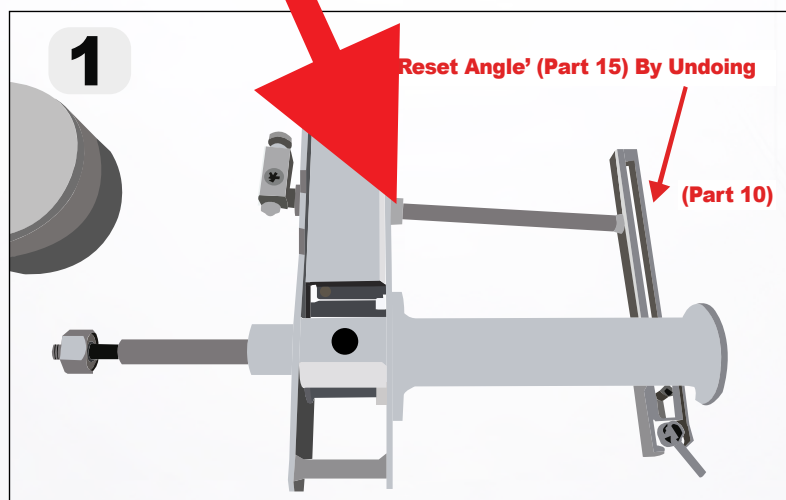
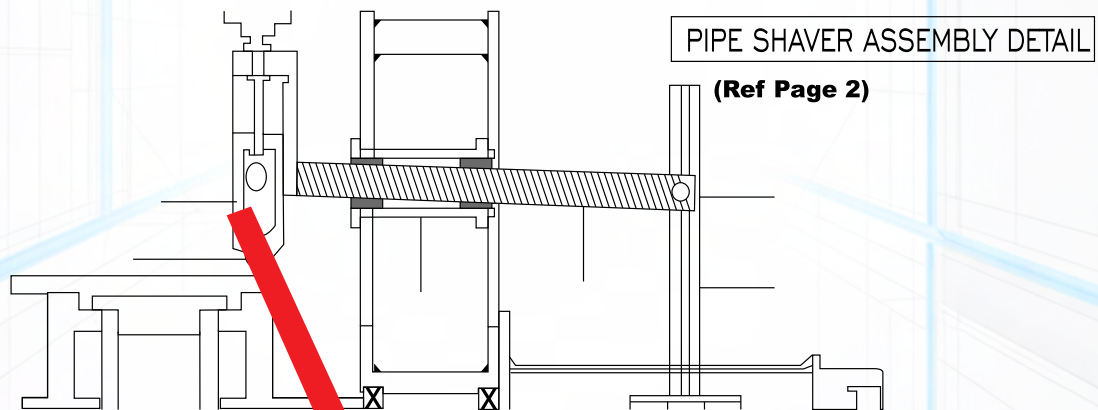
Pipe	Size	Taper angle	Insert depth	Nose thick.	Spigot diam.	Insert depth	Nose thick.	Spigot diam.	Insert depth	Nose thick.	Spigot diam.
mm	Inch	degr	mm	mm	mm	mm	mm	mm	mm	mm	mm
10 bar					12 bar			14 bar			
50	2	1½°	50	1.0	55.2	50	1.0	55.2	50	1.0	55.2
80	3	1½°	50	1.0	83.8	50	1.0	83.8	50	1.0	83.8
100	4	1½°	50	1.0	107.2	50	1.0	107.2	50	1.0	107.2
150	6	2½°	50	1.0	161.0	50	1.0	161.0	50	1.0	161.0
200	8	2½°	80	1.0	210.8	80	1.0	210.8	80	1.0	210.8
250	10	2½°	80	1.0	264.9	80	1.0	264.9	110	1.0	264.9
300	12	2½°	80	1.0	315.7	80	1.0	315.7	140	1.0	315.7
350	14	2½°	80	1.5	347.4	80	1.5	347.4	140	1.5	347.4
400	16	2½°	110	1.5	396.7	110	1.5	396.7	170	1.5	396.7
450	18	2½°	110	1.5	436.8	110	1.5	436.8	170	1.5	436.8
500	20	2½°	110	2.0	486.1	140	2.0	486.1	140	2.0	486.1
600	24	2½°	110	2.0	582.6	170	2.0	582.6	170	2.0	582.6
700	28	1½°	140	4.0	708.0	170	4.0	708.0	230	4.0	708.0
750	30	1½°	140	4.0	758.0	200	4.0	758.0	260	4.0	758.0
800	32	1½°	170	4.0	808.0	230	4.0	808.0	230	5.5	811.0
900	36	1½°	200	4.0	908.0	260	4.0	908.0	280	6.0	912.0
1000	40	1½°	200	4.5	1000.0	280/290	4.5	1000.0	290	6.5	1013
16 bar					20bar			26 bar			
50	2	1½°	50	1	55.2	50	1	55.2	50	1	55.2
80	3	1½°	50	1	83.8	50	1	83.8	80	1	83.8
100	4	1½°	80	1	107.2	50	1	107.2	80	1	107.2
150	6	2½°	50	1	161	80	1	161	110	1	161
200	8	2½°	80	1	210.8	80	1	210.8	140	1	210.8
250	10	2½°	110	1	264.9	110	1	264.9	170	1.5	265.9
300	12	2½°	140	1	315.7	140	1	315.7	200	1.5	316.7
350	14	2½°	140	1.5	347.4	140	1.5	347.4	170	2	348.4
400	16	2½°	170	1.5	396.7	170	1.5	396.7	230	2.5	398.7
450	18	2½°	170	1.5	436.8	170	1.5	436.8	200	2.5	438.8
500	20	2½°	200	2	486.1	200	2	486.1	230	3	488.1
600	24	2½°	230	2.5	583.6	230	2.5	583.6	260	3.5	585.6
700	28	1½°	230	5.5	711	290	5.5	711	280/350	7	714
750	30	1½°	260	6	762	230/320	6	762	290/380	8	766
800	32	1½°	290	5.5	811	320	5.5	813	290/410	8.5	817
900	36	1½°	280/350	6	912	280/350	6	915	—	—	—
1000	40	1½°	230/320	8	1016	—	—	—	—	—	—



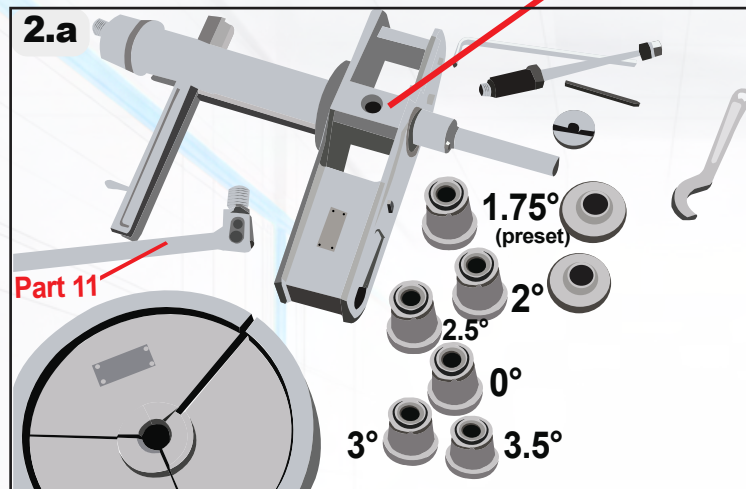
Resetting Taper Angle Degree°



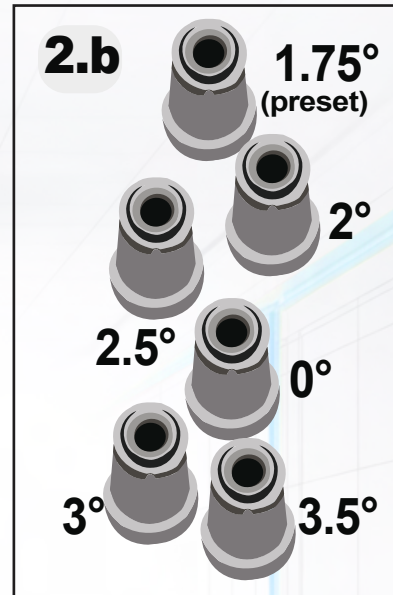
Taper Angle Degree Preset To $1\frac{3}{4}$



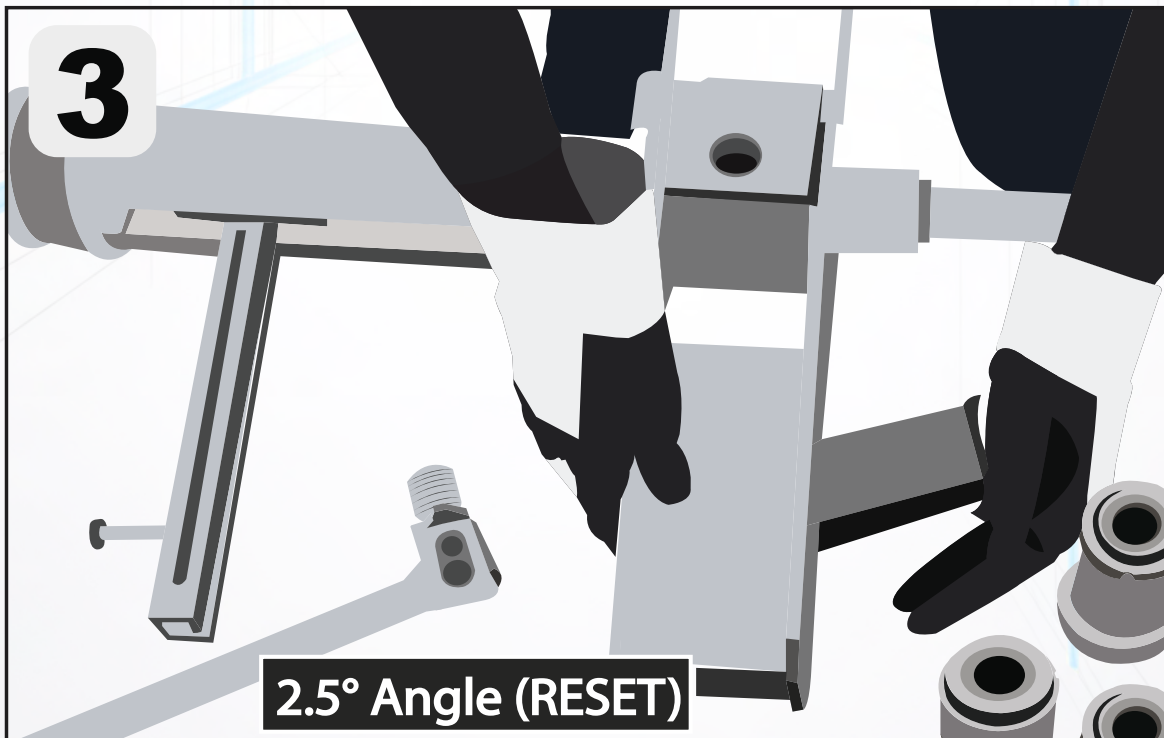
Resetting Taper Angle Degree°



Unlock And Remove The Chrome Shaft (Part 11)
Then Remove The Present Angle (Part 15)



Choose The Required
Taper Angle Degree



In This Example Case, We Reset The Taper Angle To 2.5° By Choosing This
Replacement Taper Angle Degree Part



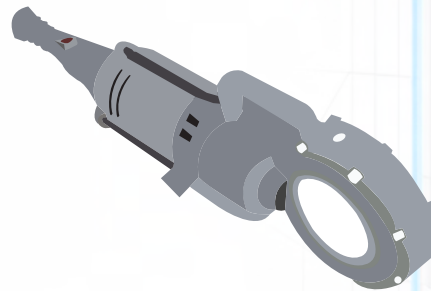
Arbors & Powerdrive Specifications

Arbors



Pipe Size	
mm	inch
50	2
80	3
100	4
150	6
200	8
250	10
300	12
350	14
400	16
450	18
500	20
600	24
700	28
750	30
800	32
900	36
1000	40

Powerdrive



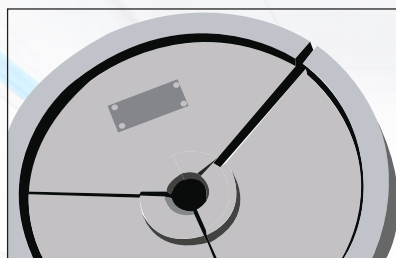
Separate Datasheet upon request

For More OTA Fiberglass Pipe Shaver Resources:

How To Video: <https://youtu.be/a01RbM-HmrA>
<https://www.otaest.com/frp/shaving-machine/>



Pipe Inner Diameters



Adjustable arbor with oring

NOV



ARBOR COMPATIBILITY: FULLY COMPATIBLE
✓ ON ALL FRP PIPE MANUFACTURERS

NOV Pipe SIZES BELOW: Future Pipes & OTHER PIPE
MANUFACTURER SIZES AVAILABLE UPON REQUEST

Expandable, rubber oring arbors adjustable to pipe inner diameters varying from 2mm to over 20mm designated nominal diameters

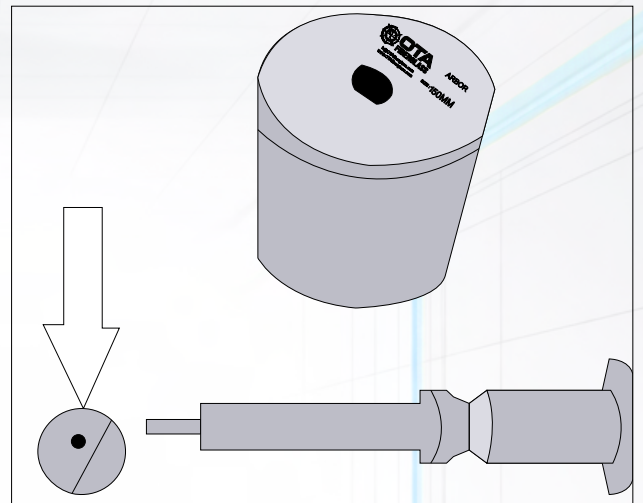
MATL . CODE	NOM. DIA .	I . D . (M I N .)	O . D . (M I N .)
13000032	ND 50 mm (2")	52.9	57.5
13000040	ND 80 mm (3")	81.5	86.1
13000048	ND 100 mm (4")	104.9	109.5
13000056	ND 150 mm (6")	158.7	163.7
13000064	ND 200 mm (8")	208.5	214.7
13000072	ND 250 mm (10")	262.6	269.6
13000080	ND 300 mm (12")	313.4	321.2
13000088	ND 350 mm (14")	344.1	352.3
13000096	ND 400 mm (16")	393.4	402.4
13000104	ND 450 mm (18")	433.5	443.3
13000112	ND 500 mm (20")	481.8	492.6
13000120	ND 600 mm (24")	578.3	590.9
13000128	ND 700 mm (28")	700.0	714.8
13000136	ND 750 mm (30")	749.7	765.5
13000144	ND 800 mm (32")	799.3	816.1
13000152	ND 900 mm (36")	896.5	915.1
13000160	ND 1000 mm (40")	999.9	1020.5



Operation Manual

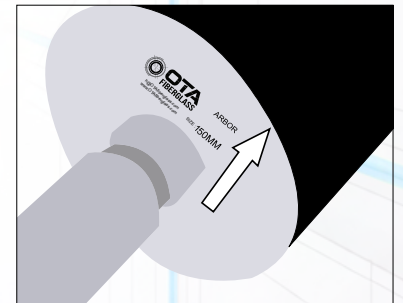
1. FIT THE ARBOR

- Remove the round nut from the tensioning bolt.
- Mount the correct size arbor on the shaft.
- Replace The nut is taking care that the protrusions on the nut and on the shaver.
- Shaft do engage in the slots. The nut and tensioning bolt are not tightened.
- Until the arbor has been fitted into the pipe to be shaved.



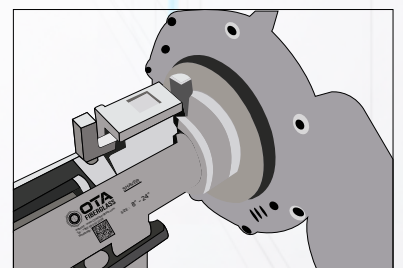
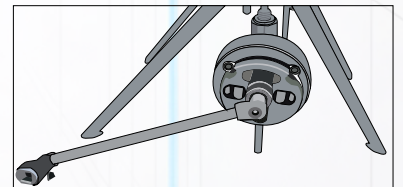
2. THE TAPER CUTTING ANGLE

According to the pipe manufacturer, make sure you have the right angle ranging from 0-5 Set angle according to pipe manufacturer's standard.



3. INSERT THE SHAVER TO THE PIPE

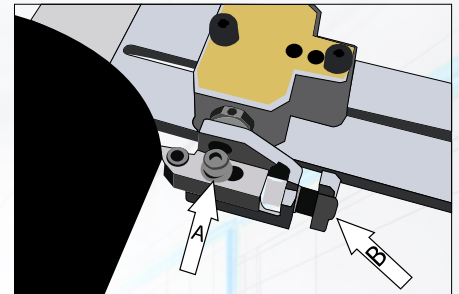
- Slid The shaver with the appropriate fitted arbor is in to the pipe so the arbor is completely in the pipe and flush with the cut pipe end.
- Lift the shaver whilst the central tensioning bolt is firmly tightened.
- After positioning the shaver on the pipe and tightening the tensioning bolt, the power-drive is fitted on to the powerdrive adapter end of the shaver. Turn the shaver - powerdrive key to lock together.





4. ADJUST THE CUTTING TOOL

Loosen the toolholder clamping bolt (part A, photo 6) in order to turn the adjusting screw on the back of the cutting tool for changing the cutting depth.



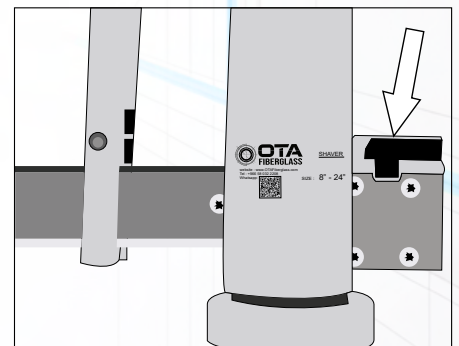
The cutting tool should be adjusted to give a cut of max. 2 mm depth.

One turn of the adjusting screw on the back of the cutting tool changes the cutting depth by 1 mm.

So, maximum of 2 mm cutting depth by two clockwise turns reduces the pipe spigot diameter by 4 mm.

5. Start the shaving process.

6. Retract the cutting tool and release the central bolt to finish off



Shaving Joint Dimensions

OTA Fiberglass Shaving Machine is suitable to shave Fiberglass Pipes from any / all pipe manufacturer. Reference your pipe manufacturer's own operation manual.



Full Lifetime Warranty

What is covered

OTA Fiberglass Pipe Shavers are warranted to be free of defects in workmanship and material.

How long coverage lasts

This warranty lasts for the lifetime of the tool.

Warranty coverage ends when the product becomes unusable for reasons other than defects in workmanship or material.

Maintenance / Service

We will offer free spare tool case spare parts for on-site maintenance, or service the pipe shaver at no charge in our factory.

In addition to this manual, every Pipe Shaver comes equipped with a tool case that also includes spare shaving parts (ref page 8).

OTA Fiberglass Guarantee

Warranted Pipe Shavers will be repaired or replaced, and returned free of charge.

What is not covered

Failures due to misuse, abuse, or normal wear and tear are not covered by this warranty.

No other express warranty applies

This Full Lifetime Warranty is the sole and exclusive warranty for OTA Fiberglass products.



Video & Guides



<https://youtu.be/mtmwMEgFpKU>



<https://youtu.be/a01RbM-HmrA>



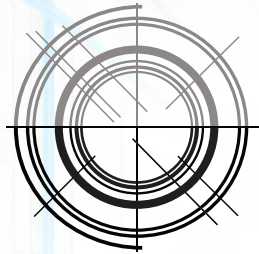
https://youtu.be/1s0ek_BE0I4

Taper° varies with pipe specifications. Custom Taper° On Order



Taper Angle Change

<https://youtu.be/HgOZAGVwVLQ>



OTA FIBERGLASS

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Warehouse Map



Listed Global Distributors