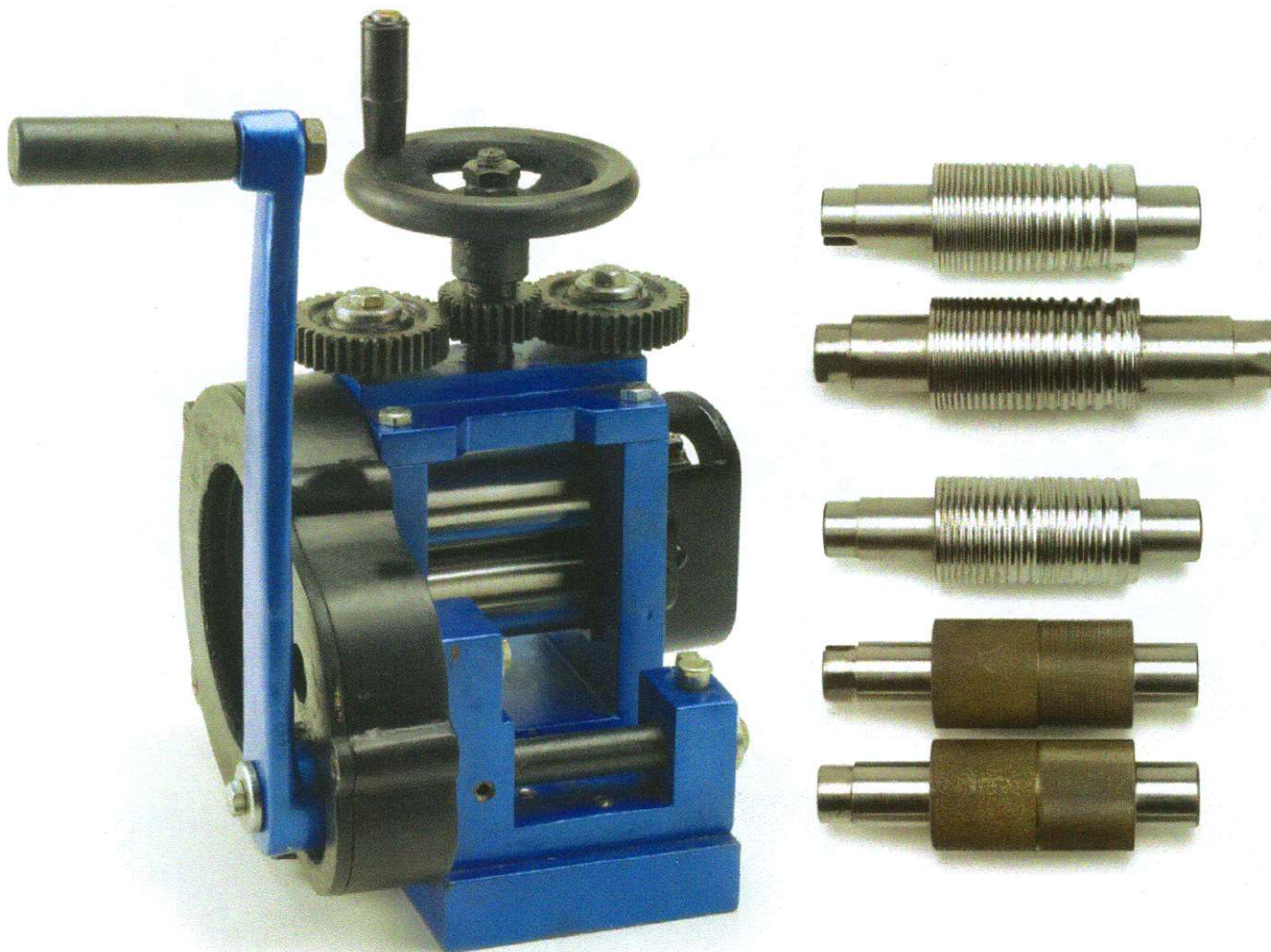


Otto Frei

Economy Rolling Mill

Part No. 128.200 (with 7 rolls)

Part No. 128.200FLAT (only with 2 rolls)



www.OttoFrei.com



Otto Frei

Quality Jewelry Tools & Findings Since 1930

Otto Frei Economy Rolling Mill Owners Manual

Part No. 128.200 (with 7 rolls)

Part No. 128.200FLAT (only with 2 rolls)

The Otto Frei Economy Rolling Mill is a light duty rolling mill suitable for rolling soft precious metal alloys like gold, silver and copper. To insure a long, useful service life, always make sure you anneal your metal often and refrain from making large reductions in metal thickness. The Otto Frei Economy Rolling Mill has a 12-month warranty from date of purchase. We will replace any part that fails at no charge during that period. Any modifications to this mill will void the warranty, including but not limited to attempting to motorize this unit.

The Otto Frei Economy Rolling Mill requires minimal assembly.

The carton contains:

- The Rolling Mill Main Assembly with 2 Flat Rollers Installed
- The Rolling Mill Large Handle
- The Rolling Mill Small Plastic Handle
- Mill Wheel with Speed Knob
- 4 Upper Rollers (short)(128.200 only)
- 1 Lower Wire Roller (long)(128.200 only)

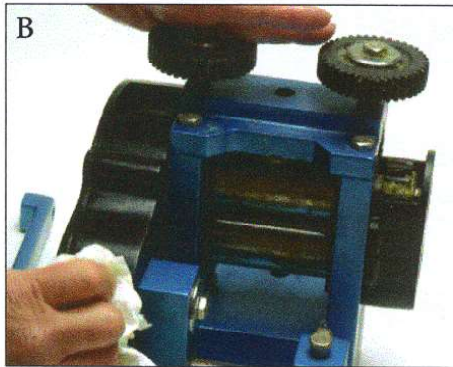


Tools you will need:
Screwdriver
Crescent Wrench



A) Remove the mill from the carton and inspect all parts for damage.

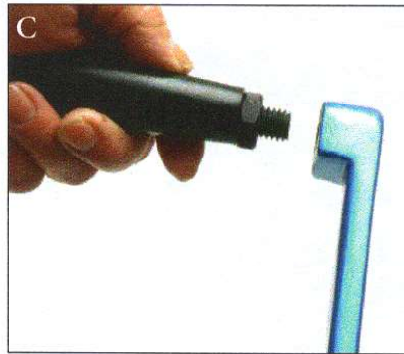
Basic Assembly Instructions



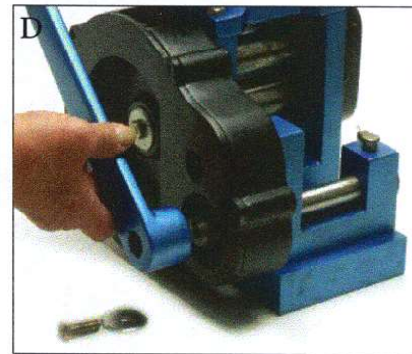
B) Your new rolling mill is covered with a coating of grease to protect it from rust. Wipe away the grease from the rolls and the roller frame and covers. Do not remove the grease from gears or any moving parts. (Please read the maintenance instructions for detailed information on the care and lubrication of your rolling mill).



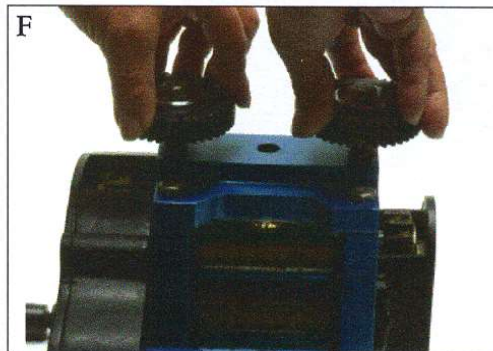
E) Mount the speed handle onto the mill wheel.



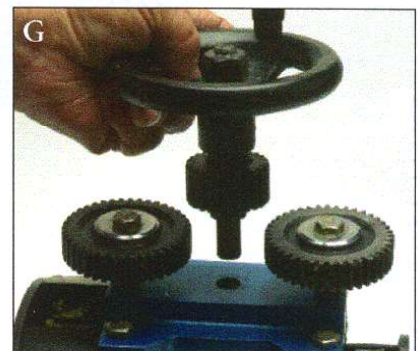
C) Screw the large handgrip handle into the large handle.



D) Using the bolt and washer supplied on the main assembly, install the large handle to the mill.



F) Before installing the Mill Wheel to the Top Gear Assembly, you will need to properly align the top gears. Make sure both gears on the top gear assembly are fully "screwed" down so that the top flat roller is in full contact with the lower flat roller.



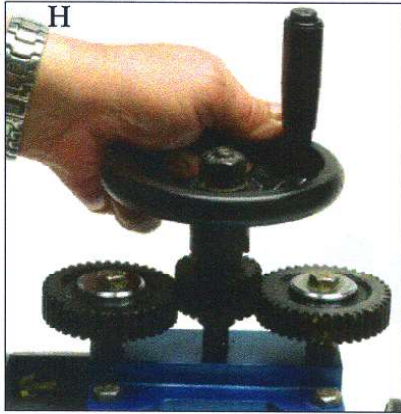
G) Once you have the top gears balanced install the Mill Wheel and Speed Knob.

Your rolling mill is now assembled. Before using, make sure you remove any excess grease from the surface of the rolls. After use, always re-apply a coating of oil or grease to the rolls. Unprotected dry rolls will rust. You can also cover the rolls with a soft cloth that has been lightly oiled to help protect the roll surface.

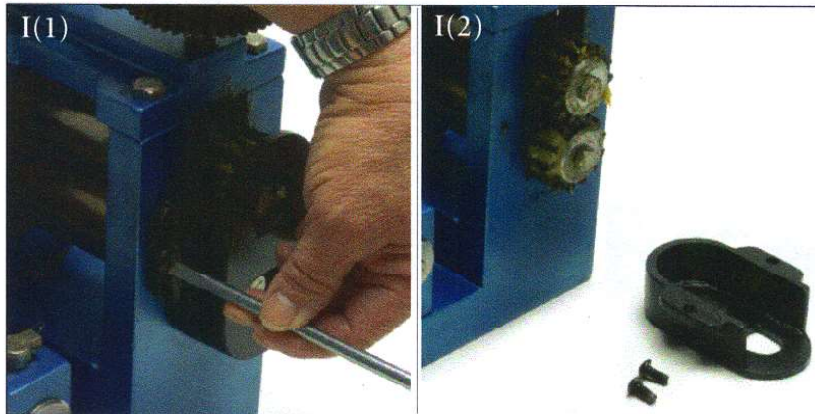
How to Change The Top Rollers

The Otto Frei Economy Rolling Mill comes with the upper and lower flat rolls installed. You can replace the upper flat roller with any of the 4 upper rollers. The upper rollers are as follows;

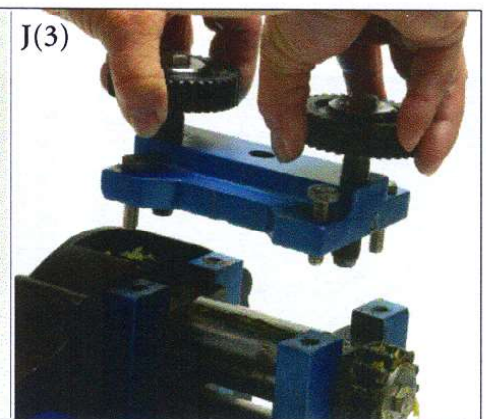
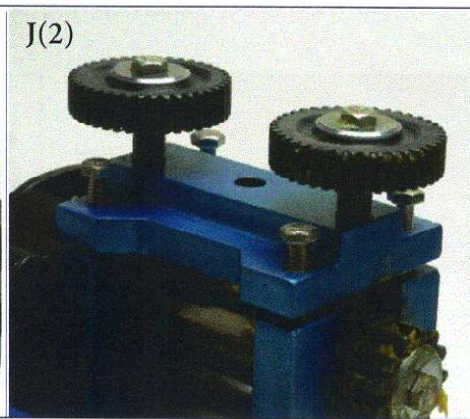
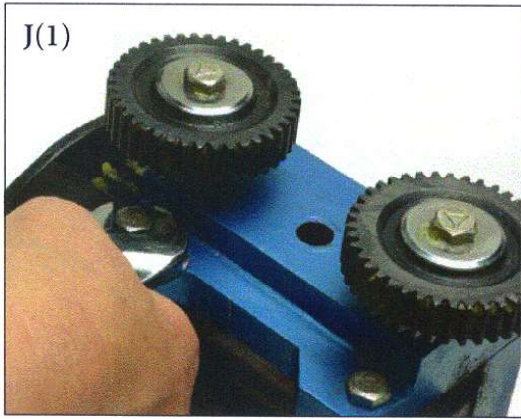
- Standard wire top (can be used with lower flat for special effects-more commonly used with standard wire bottom roll)
 - Half Round wire top-used with lower flat roll
 - Texture #1 top-used with lower flat roll
 - Texture #2 top-used with lower flat roll
- (The 5th extra roller is the Standard wire bottom. Please note that this roll differs from the others because it is longer.)



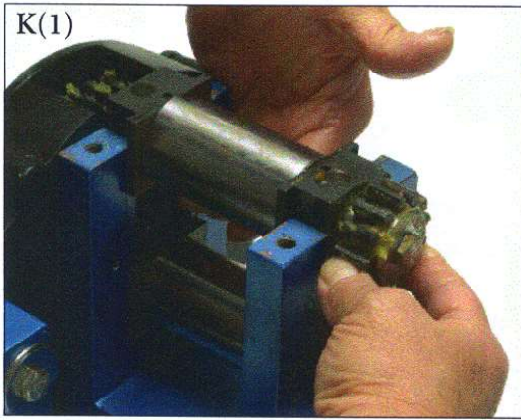
H) Remove Top Wheel Assembly.



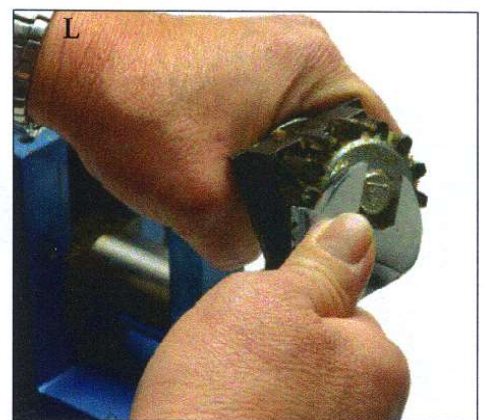
I)-1,2 Remove the Side Gear Cover that is secured with two screws.



J)-1, 2, 3 Remove the Top Gear Assembly by removing the four bolts on top of the mill.



K-1, 2) Remove top roller-Note: Be careful with the springs between upper and lower rollers, they provide tension and are very important. In order to prevent loss, put aside in a safe spot until reinstalling them.

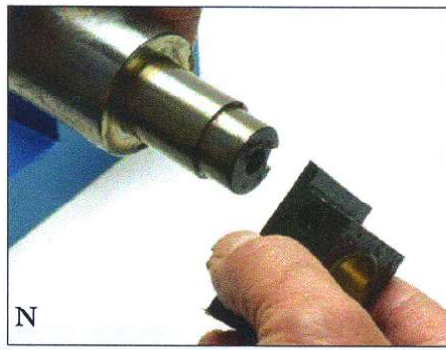


L) Remove the bolt that secures the gear and block to the upper roll.

How To Change the Lower Flat Roller with the Lower Wire Roller (Continuing from step Q.)



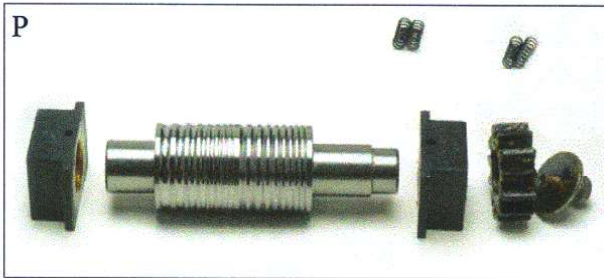
M) Remove the gear from the upper roll.



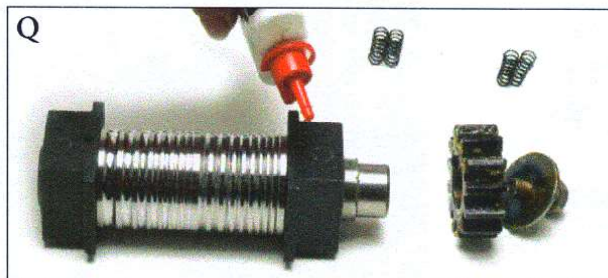
N) Remove the block from the upper roll.



O) You have now disassembled the upper roll.



P) Re-assemble the replacement upper roll with blocks and the gear.

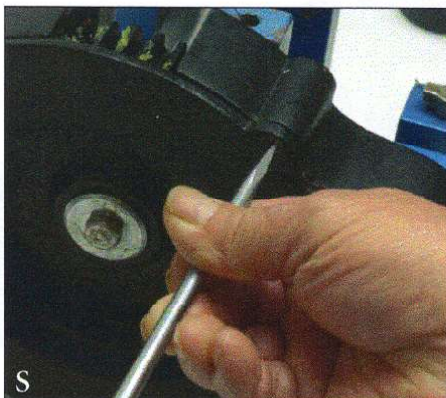


Q) Lubricate the flat surfaces or the blocks that bear the weight with oil

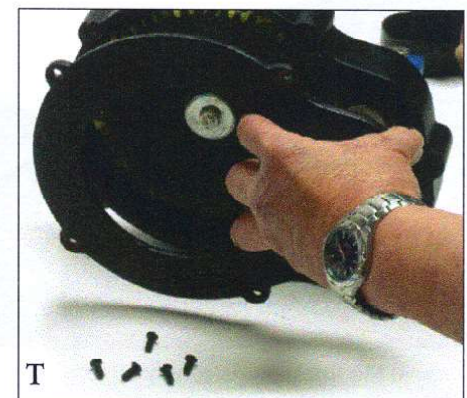
You are now ready to re-assemble the mill. Do so by following the directions in reverse. Or you may continue with the instructions to change the lower flat roller with lower wire roller.



R) Remove the handle from the mill.



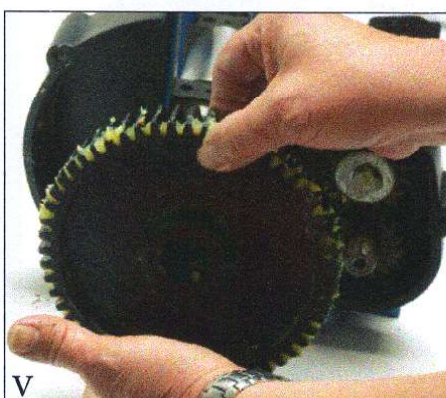
S) Remove the five screws that hold the outer reduction gear cover.



T) Remove the outer reduction gear cover.



U) Remove the bolt that holds the large reduction gear to the mill.



V) Remove the large reduction gear from the mill.



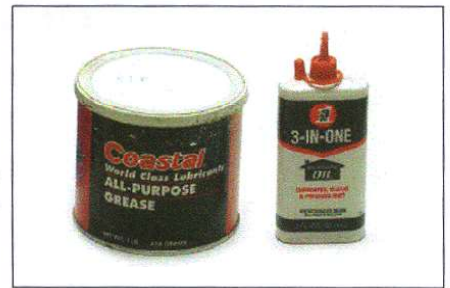
W) You can now access the lower roller and remove it from the mill.

Note that you treat this part just like the upper roller. See instructions above part L through Q. Re-assemble the lower wire roller and reverse the order of these instructions to re-assemble your mill.

Otto Frei Economy Rolling Mill Maintenance

Proper lubrication of all moving parts is essential for the maintenance of your rolling mill. You will need the following items:

All-purpose grease
Motor or Machine Oil

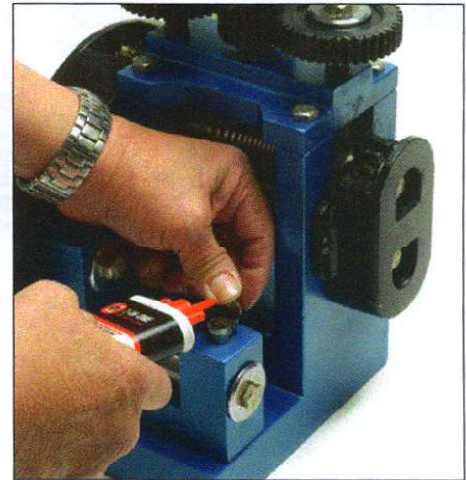


Any multi-purpose grease and machine or motor oil you can have will be sufficient. There is no particular recommended brand or grade.



Grease Points:

The current model Economy Rolling Mill has openings in the side gear and reduction gear covers. This allows easy access for greasing the gears. Before using your mill, make sure that the gears are well greased. If in doubt, lubricate. Every so often, place a tablespoon or so of grease on the side gears and the reduction gears right at the opening. Early models without the opening will require you to remove the covers and then grease the gears.



Oil Points:

There is an oil cap located on the bearing side of the reduction gear main shaft that will require a few drops of oil every week.

Before use, always clean the rolls to remove all lubricants. After use, re-lubricate the rolls with oil or grease. The rolls will rust if they are left un-lubricated. Check the tightness of all the nuts and bolts before use.

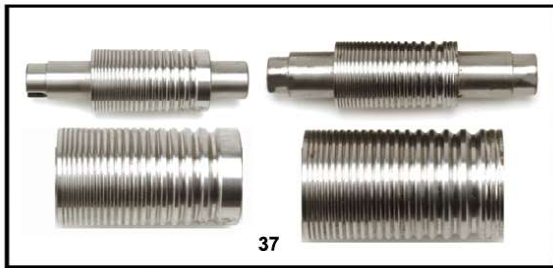
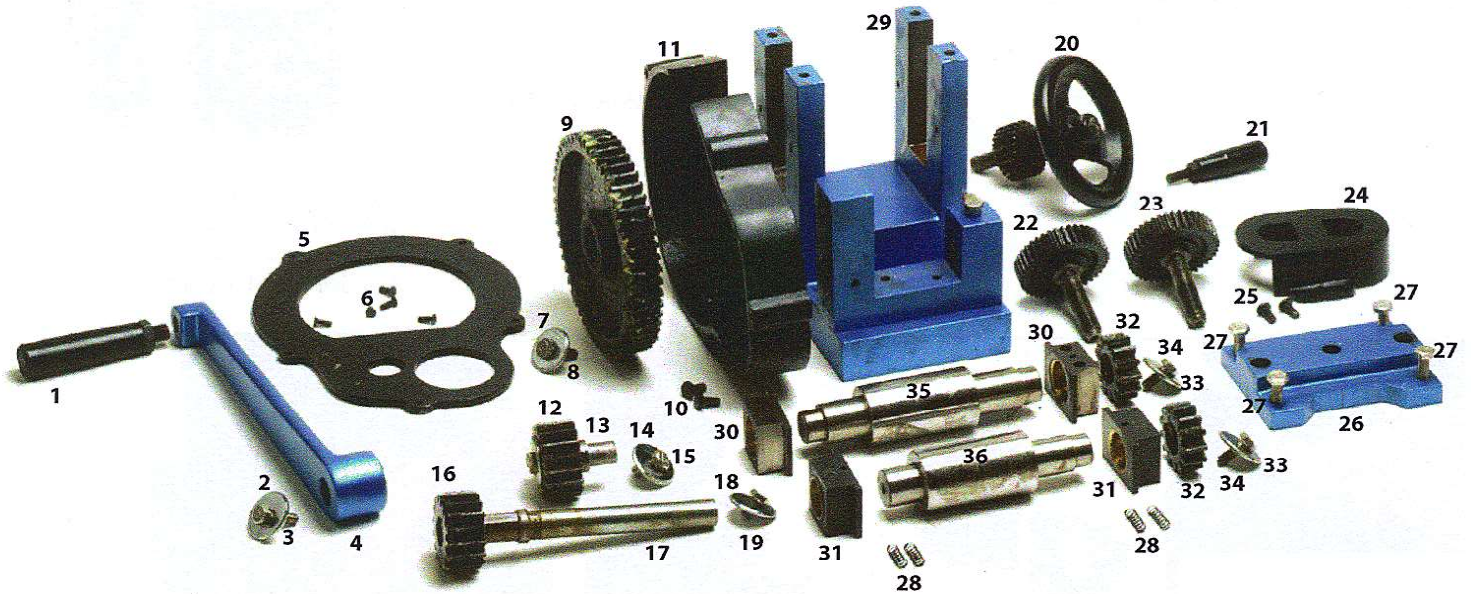
Do's and Don'ts

- Don't lift the mill by the center mill wheel-It is not attached to the mill.
- Don't put ferrous metals through your mill-They will ruin your rolls.
- Do oil or grease your rolls after each use.
- Do wipe the rolls clean of oil or grease before each use.
- Do cover your rolls with a lightly oiled cloth after each use.
- Do inspect your rolling mill before and after use for loose nuts.
- Do anneal your metal often.
- Don't make large reductions in metal thickness with your mill.
- Do make many small passes to reduce the thickness of your metal.
- Don't let uninformed people use your rolling mill.
- Do make sure your rolling mill is well lubricated.



Otto Frei Economy Rolling Mill Parts List

Part No. 128.200



Part Number	Description	Price	Part Number	Description	Price
1	128.2001 Small Plastic Handle	\$5.00	22	128.2016 Left roller adjusting wheel	\$15.00
2	128.2002 Washer	\$0.50	23	128.2017 Right roller adjusting wheel	\$15.00
3	128.2003 Nut	\$0.50	24	128.2018 Side gear cover	\$5.00
4	128.2004 Large handle	\$10.00	25	128.2019 Screws(2)for side gear cover	\$0.50
5	128.2005 Side reduction gear cover	\$12.00	26	128.2020 Mill-top	\$12.00
6	128.2006 Screws (5)	\$0.50	27	128.2021 Top nuts (4)	\$0.50
7	128.2002 Washer	\$0.50	28	128.2022 Adjusting springs (4)	\$1.00
8	128.2003 Nut	\$0.50	29	128.2023 Body	\$50.00
9	128.2007 Large reduction gear	\$20.00	30	128.2024 Lower bushing blocks(2)	\$25.00
10	128.2008 Screws(2)for inner reduction gear	\$0.50	31	128.2025 Upper bushing blocks(2)	\$25.00
11	128.2009 Inner reduction cover	\$20.00	32	128.2006 Side gears(2)	\$15.00
12	128.2010 Small reduction gear	\$15.00	33	128.2002 Washer	\$0.50
13	128.2011 Idler shaft	\$15.00	34	128.2003 Nut	\$0.50
14	128.2002 Washer	\$0.50	35	128.2027 Lowerflat roller	\$40.00
15	128.2003 Nut	\$0.50	36	128.2028 Upperflat roller	\$40.00
16	128.2034 Drive shaft gear	\$20.00	37	128.2029 Upper & Lower matching wirerollers(pair)	\$60.00
17	128.2013 Drive shaft	\$20.00	38	128.2031 Upper 1/2 round wireroller	\$40.00
18	128.2002 Washer	\$0.50	39	128.2032 Upper pattern roller #1	\$40.00
19	128.2003 Nut	\$0.50	40	128.2033 Upper pattern roller #2	\$40.00
20	128.2014 Mill wheel	\$20.00	*Optional with Part No. 128.200FLAT		
21	128.2015 Speedknob for mill wheel	\$5.00	-Prices subject to change without notice-		

For up to date pricing visit www.OttoFrei.com or call 800.832.0355.

Optional Upper Rolls for Otto Frei Economy Rolling Mills

Deep Cut Bangle \$130.00 Each



128.2035 #4 Deep cut special bangle design



128.2036 #67 Deep cut special bangle design



128.2037 #64 Deep cut special bangle design



Standard Bangle \$50.00 Each



128.2038 #52 Bangle design



128.2039 #54 Bangle design



128.2040 #55 Bangle design



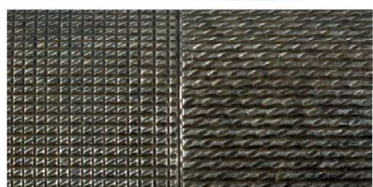
128.2041 #59 Bangle design



128.2042 #60 Bangle design \$50.00



Texturing Designs \$24.00 Each



128.2034A #4 Design pattern



128.2034B #5 Design pattern



128.2034C #6 Design pattern



128.2034D #7 Design pattern



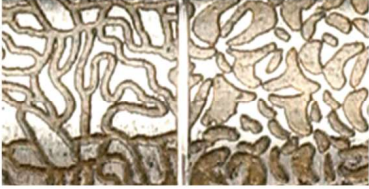
128.2034E #8 Design pattern



128.2034F #9 Design pattern

Optional Upper Rolls for Otto Frei Economy Rolling Mills

Etched Designs \$39.00 Each



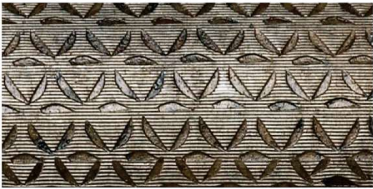
128.2043 #48 Design pattern



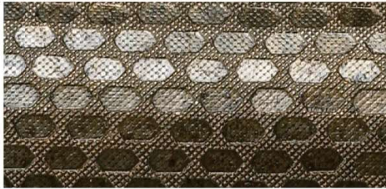
128.2050 #10 Design pattern



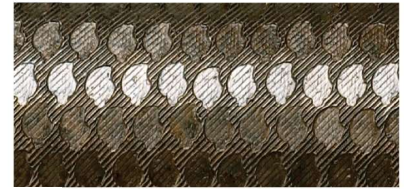
128.2051 #11 Design pattern



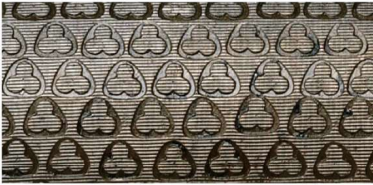
128.2052 #12 Design pattern



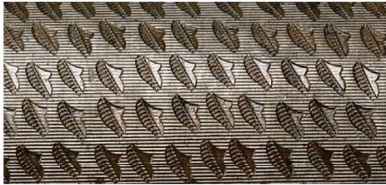
128.2055 #25 Design pattern



128.2056 #26 Design pattern



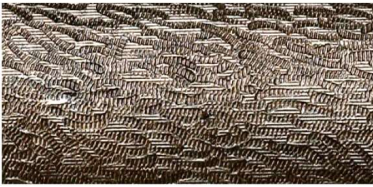
128.2057 #27 Design pattern



128.2058 #28 Design pattern



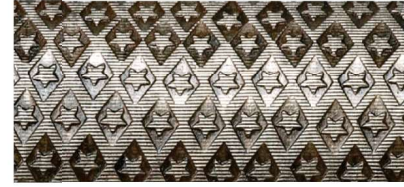
128.2059 #29 Design pattern



128.2060 #30 Design pattern



128.2061 #31 Design pattern



128.2062 #32 Design pattern



128.2063 #33 Design pattern



128.2064 #34 Design pattern



128.2065 #35 Design pattern



128.2066 #36 Design pattern