

[www.ws-mc.co.kr](http://www.ws-mc.co.kr)

# WOOSUNG





## Message from the CEO ●●●●●●

To our valued business partners:

Taking this opportunity, I would like to extend our appreciation for your continued cooperation and support.

WOOSUNG MACHINE INDUSTRIAL CO., LTD. has been trying to be one of the leading companies since we established in 1980 by taking specialty of manufacturing Steel Pipe Manufacturing Equipments of ERW mills along with the facility process including Straighter, Polishing, Pipe and Tube Roller, etc.

As we continue to take Research and Development(R&D) process on manufacturing technologies, we have obtained various licenses for Steel Pipe manufacturing Equipments of ERW mills and this allows us to supply good quality of machineries not only to our domestic customers but also it gives us a lot of opportunities to deal with our overseas customers.

Sine we have developed our product competitive power by having innovations in techniques and quality controls, we had a great honor to make Automated Manufacturing Line for As-welded Steel Pipe to be made up to 216.30mm O.D. as a first runner in Korea to make a first supplying record in this business field.

As the front runners of Steel Pipe Manufacturing Equipments of ERW mills, we are trying to do our best to have product differentiation between our competitors and we always try to make the best quality of products by taking this as our business goal.

We hope to have your continued cooperation and support in advance.  
Sincerely yours.

President Je-rin, Woo





W O O S U N G M A C H I N E I N D U S T R I A L



We are the best  
**TUBE Mill Machine**



ISO 9001:2008  
Approval on Management  
System of Quality



Award for  
Million-Dollar Export

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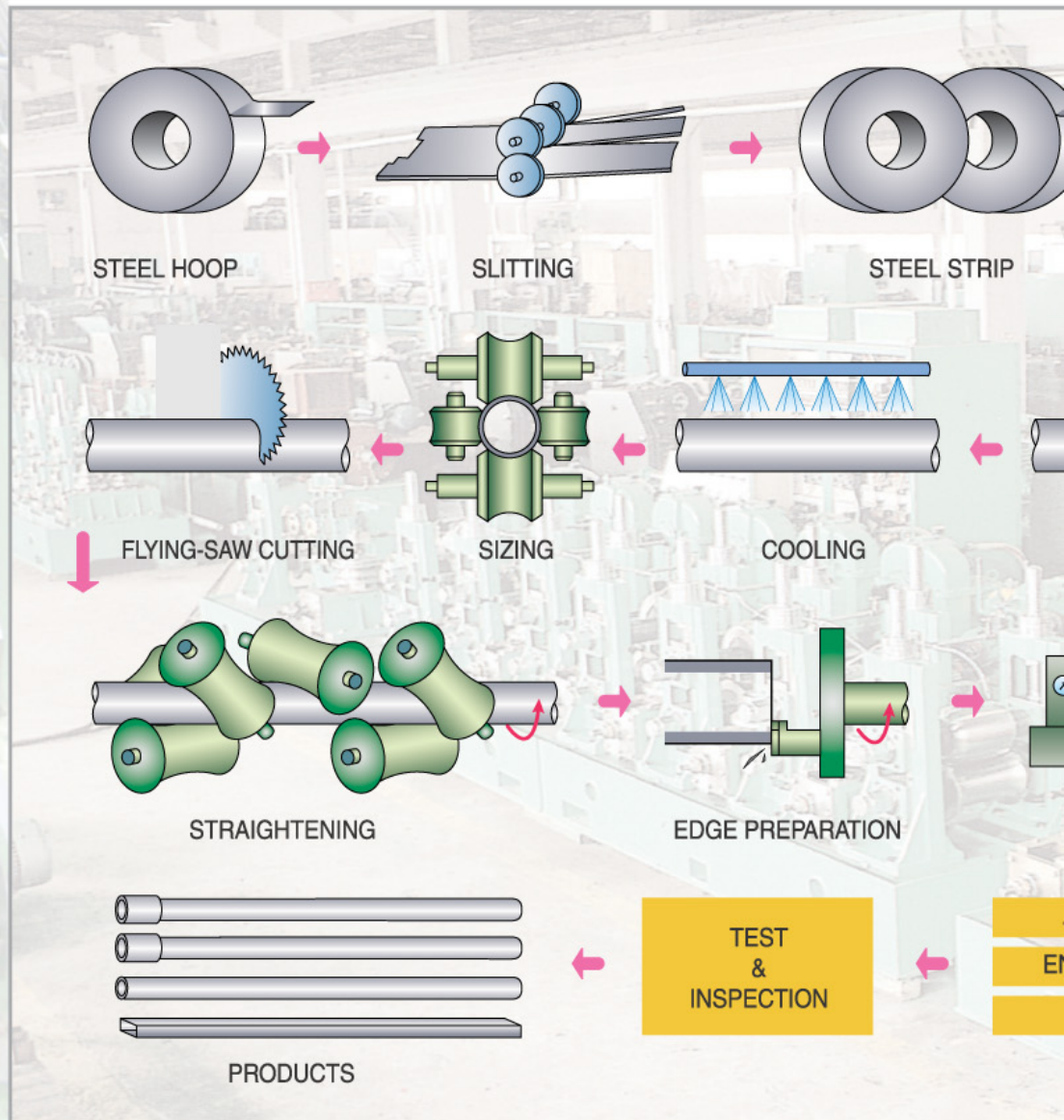
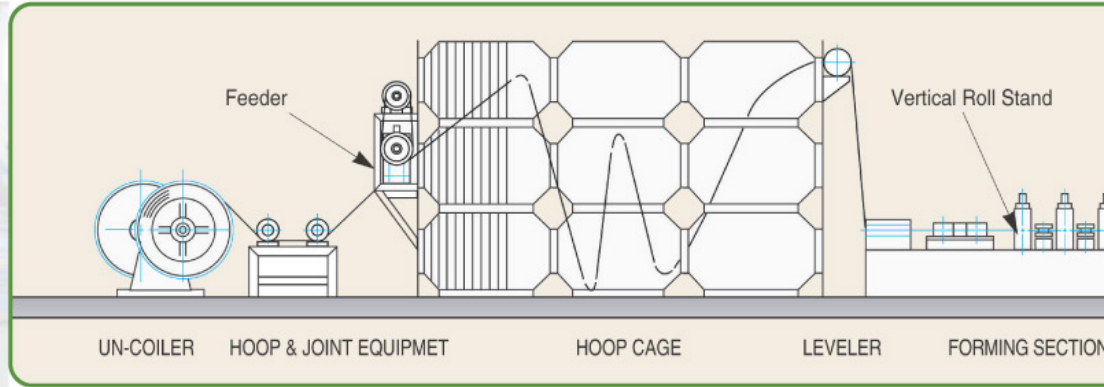
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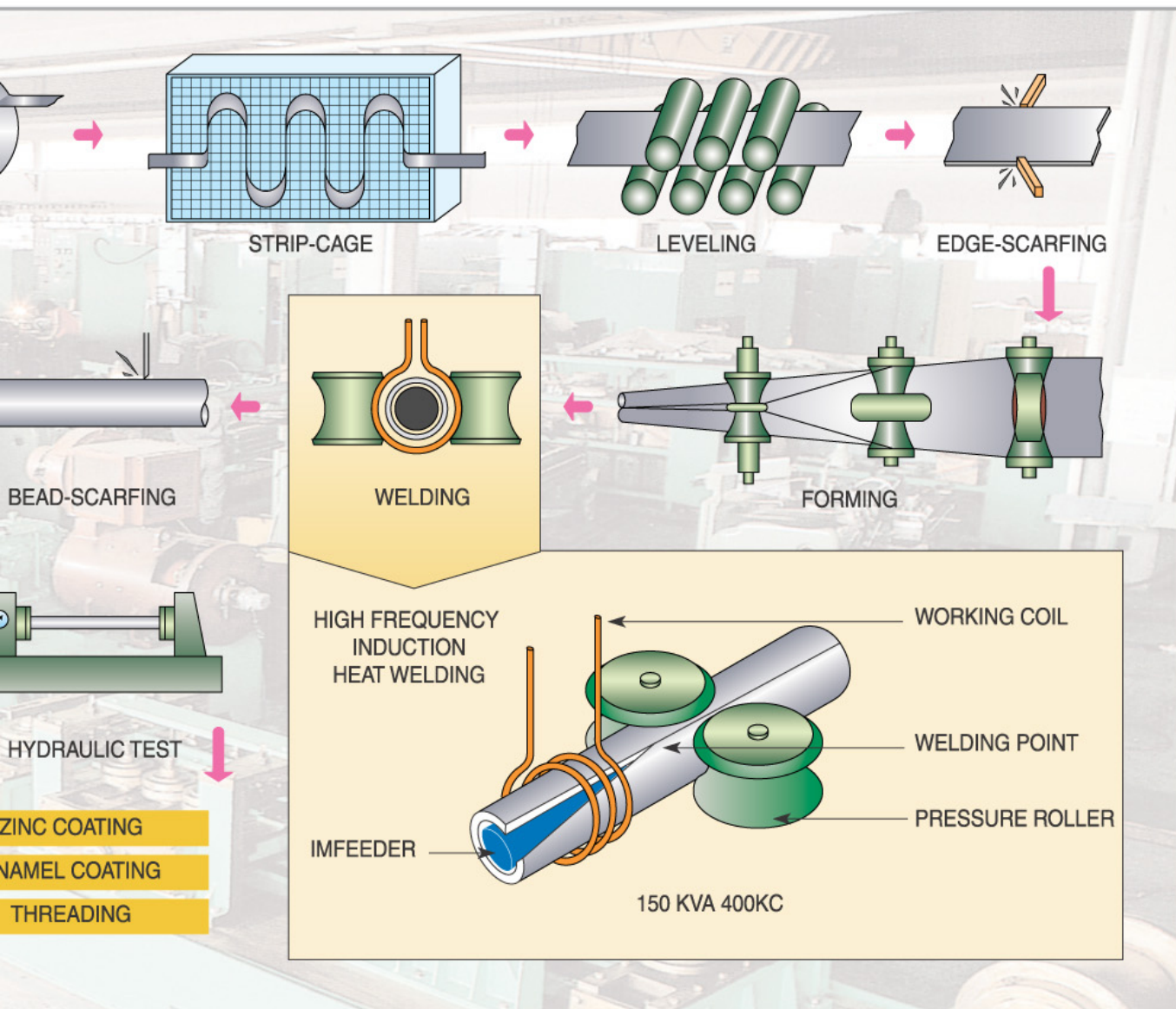
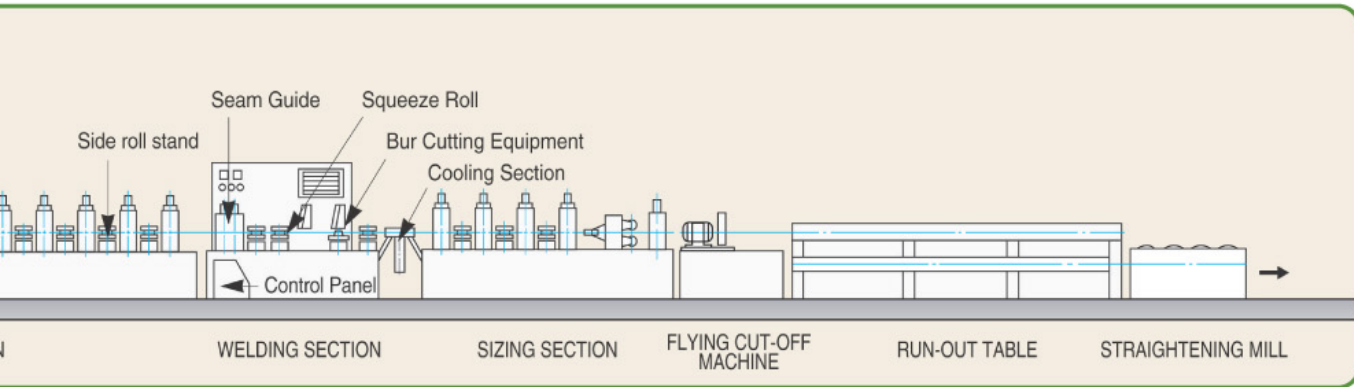


The best company of tube mill with development of new technology.

## ■ STEEL PIPE MANUFACTURING LINE ■



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We make the best products with cutting-edge technology.

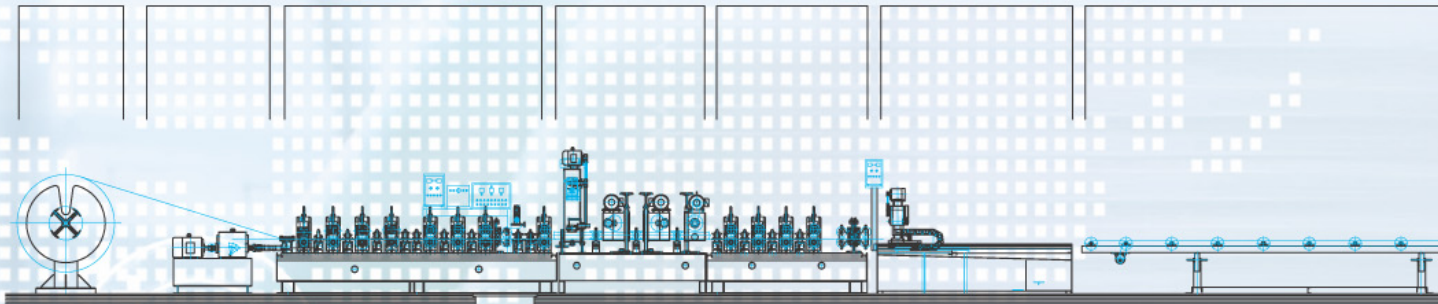
We will be the best in tube mill industry with endless challenging spirit and development of new technology.

## ■ TUBE MILL M/C LINE ■



TUBE MILL LINE

UN COILER    MAIN POWER    FORMING PART'S    BEAD GRINDER    SIZING PART'S    METAL SAW CUTTING M/C    ROLLER CONVEYOR



UNCOILER



TUBE MILL MACHINE

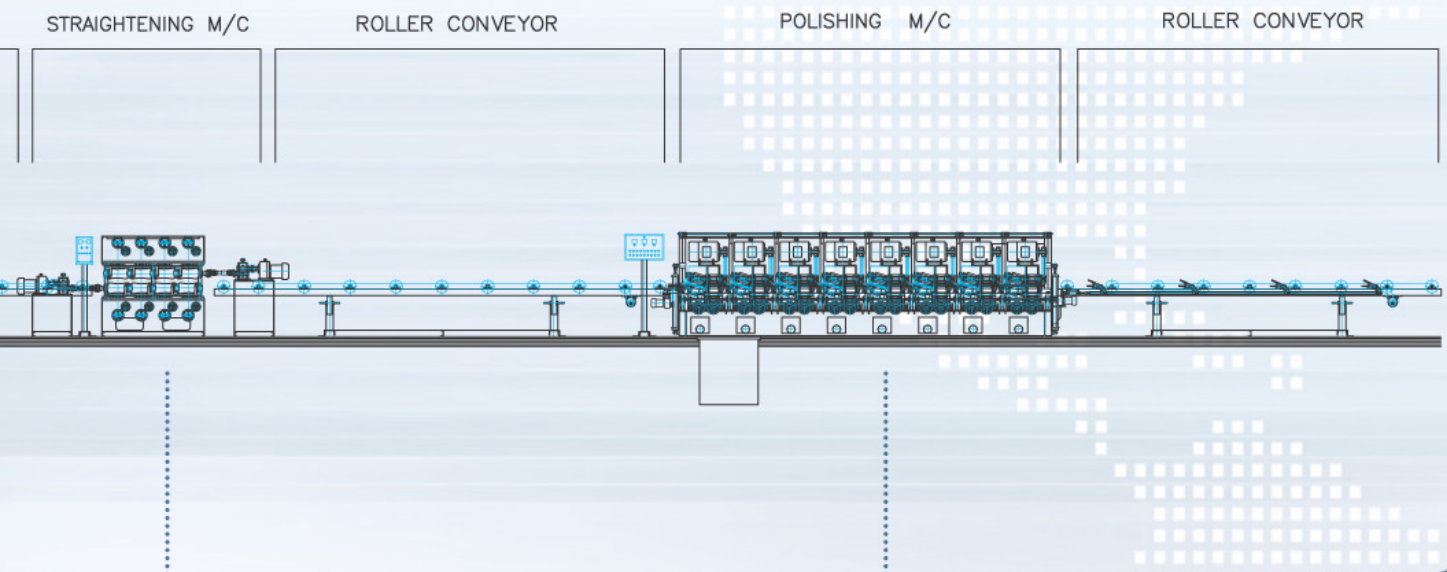


TRANSMISSION



END FACING MACHINE

# W O O S U N G



STRAIGHTENING MACHINE



POLISHING MACHINE

## ■ TUBE MILL LINE

Tube mill line of Woosung Machine includes stainless and steel pipe manufacturing and our products have excellent features for better productivity of pipe companies.



# TUBE MILL MACHINE

Tube mill line of Woosung Machine includes stainless and steel pipe manufacturing and our products have excellent features for better productivity of pipe companies.

## 1. Main control panel

The main control panel contains both tube mill and cutting machine for effective use of space and all operations can be controlled using P.L.C.

## 2. Operation panel

All operations of the tube mill can be easily handled automatically or with manual.

## 3. Cutting machine

Cutting length can be adjusted and encoder counter makes easy and fast length set up.

## 4. Low noise and vibration

It produces the best quality without vibration or noise of the machine even with high speed production.

## 5. Accurate tube mill and welding

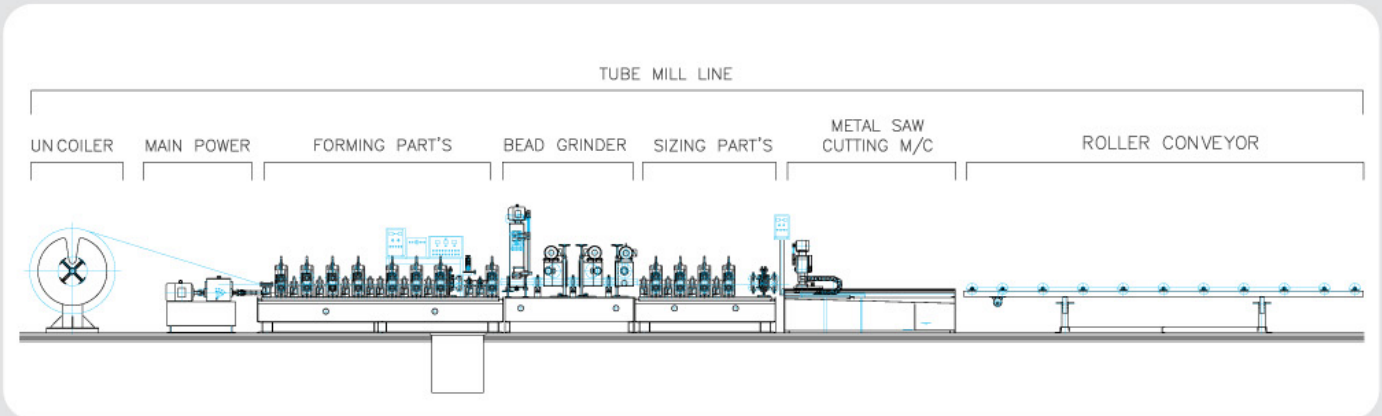
Precise design and parts process make accurate tube mill and standard pipe.



TUBE MILL LINE



## Summary of Manufacturing Process



UNCOILER



STAINLESS TUBE MILL



TRANSMISSION

Utility model: Registration #20-0438845



TUBE MILL

## Specifications

Model	WS-100	WS-200	WS-400	WS-500	비 고
Pipe Size	Ø12.7~Ø25.4	Ø31.8~Ø50.8	Ø63.5~Ø101.6	Ø127이상	SUS
Wall Thickness	0.5~2.0mm	0.6~2.5mm	0.6~3.0mm	3.0mm	SUS
Line Length	Order Made				



# END FACING MACHINE

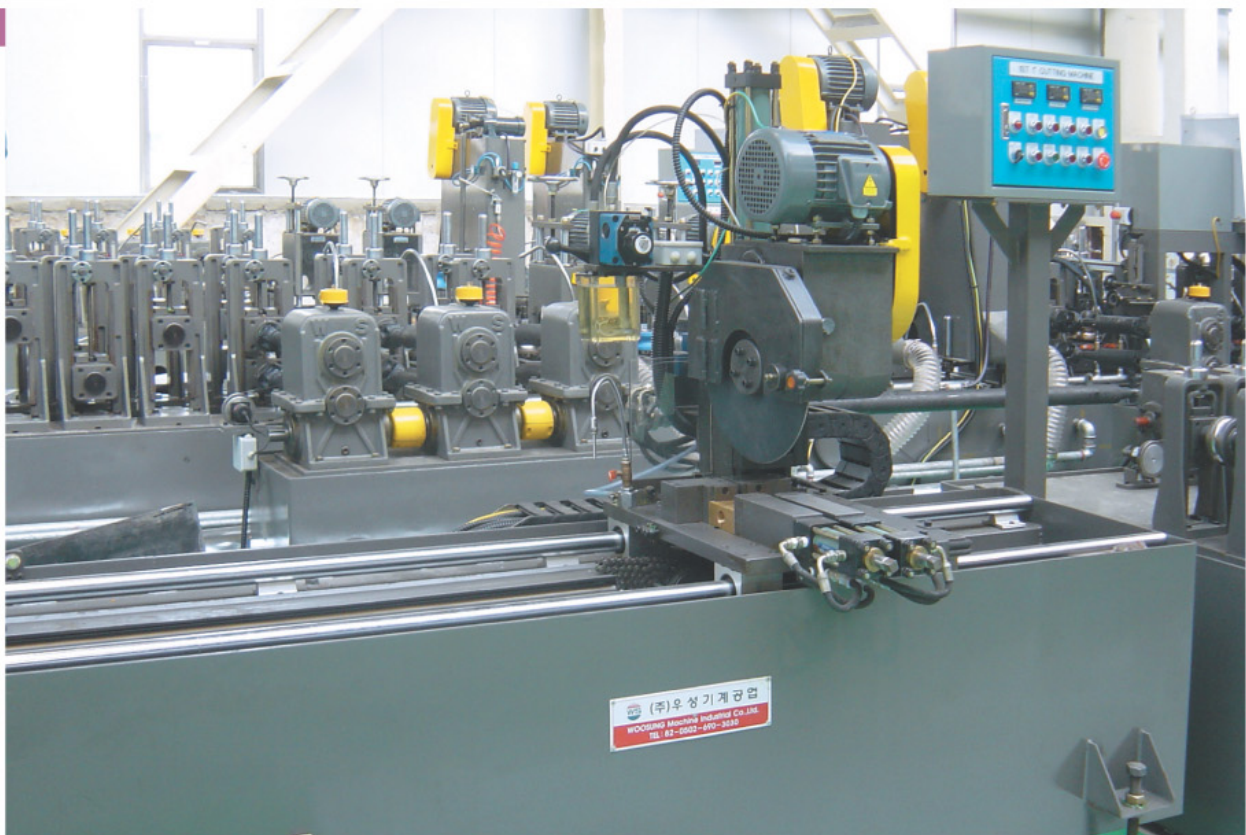
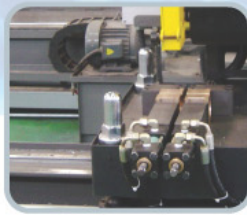
## METAL SAW CUTTING M/C

This machine implements effective and fine pipe cutting. Metal saw cutting blade is installed in the central axis of reduction gear box. It speeds down with oil pressure cylinder and cuts smoothly.

## BITE CUTTING M/C

Different bites are installed at the head of main body for easy and quick pipe cutting.

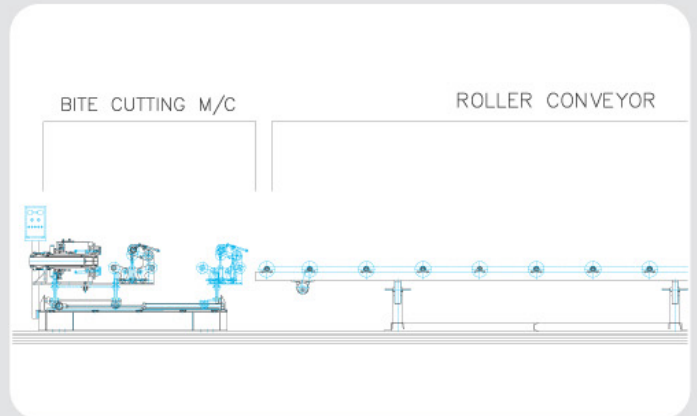
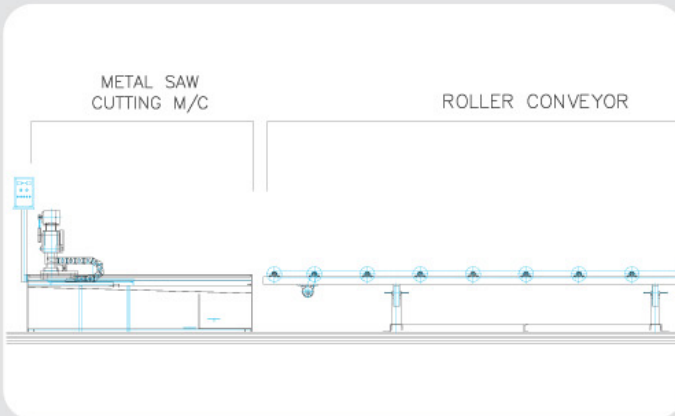
The first and second round bites are circulating with low speed around pipe's external diameter as axis and enters in order to make the lifespan of bite by minimizing heat generated from the bite.



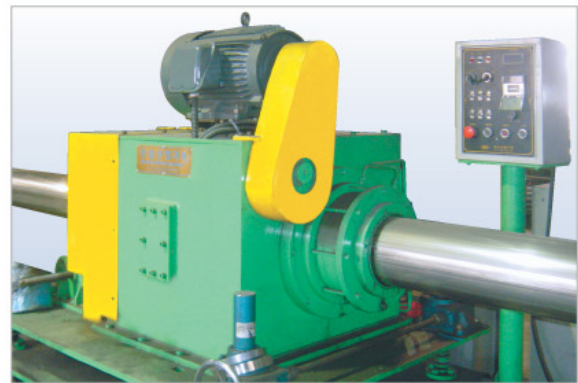
METAL SAW CUTTING MACHINE



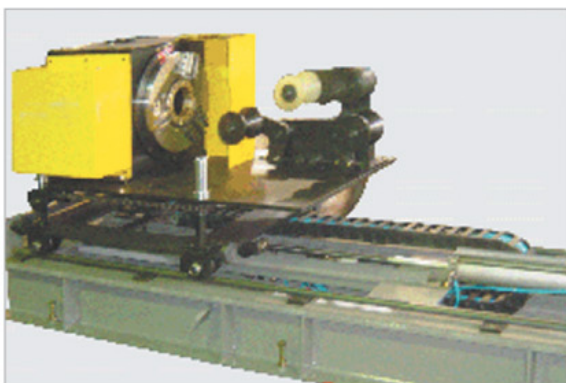
## Summary of Manufacturing Process



METAL SAW CUTTING MACHINE



BITE CUTTING MACHINE (8 INCH)



BITE CUTTING MACHINE

Utility model: Registration #20-0268827



BITE CUTTING MACHINE (4 INCH)

## Specifications

Model	WS-100	WS-200	WS-400	WS-500	비 고
Pipe Size	Ø12.7~Ø25.4	Ø31.8~Ø50.8	Ø63.5~Ø101.6	Ø127이상	SUS
Wall Thickness	0.5~2.0mm	0.6~2.5mm	0.6~3.0mm	3.0mm	SUS
Line Length	Order Made				



# STRAIGHTENING MACHINE

## Features of straightener

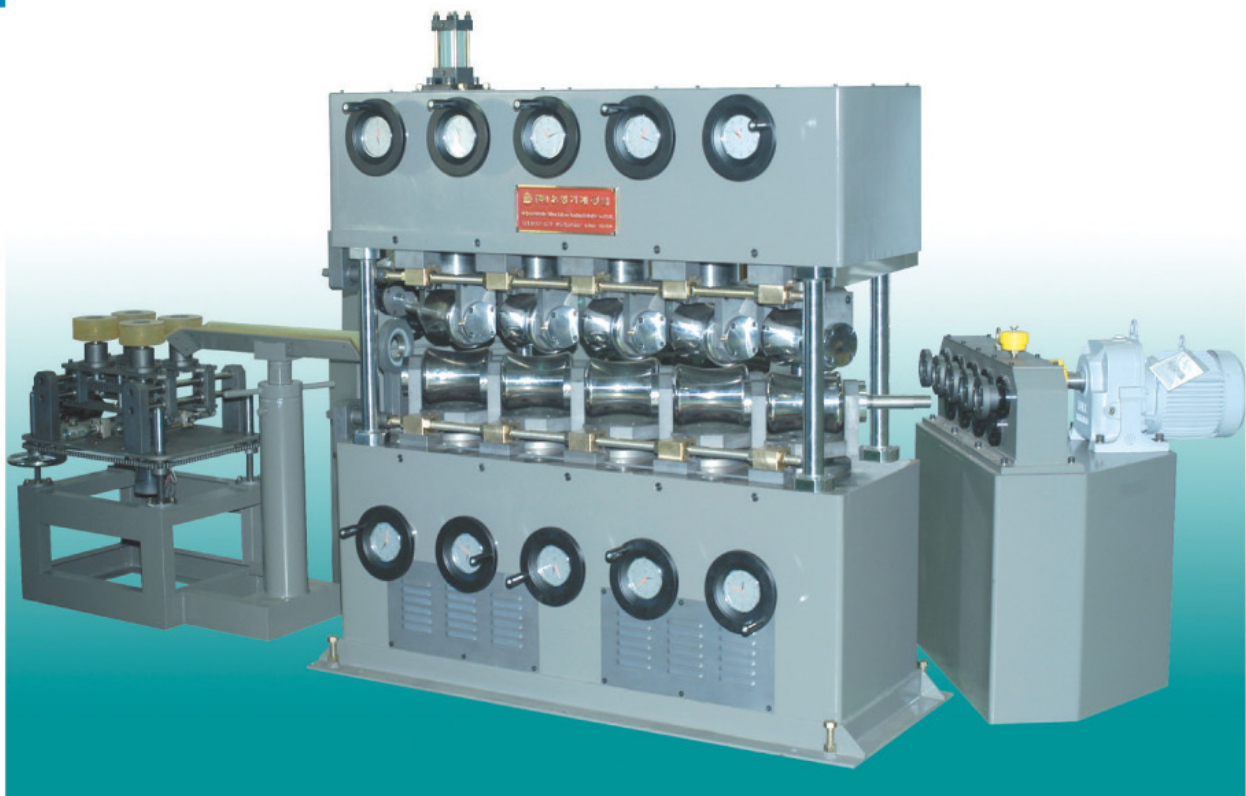
Round pipe processed through tube mill has incomplete roundness and straight rate, so this is the process to correct them.

Straightener roll should be adjusted for left, right, top and bottom in accordance with pipe's external diameter.

When the pipe's external diameter is small, it has smaller contact degree.

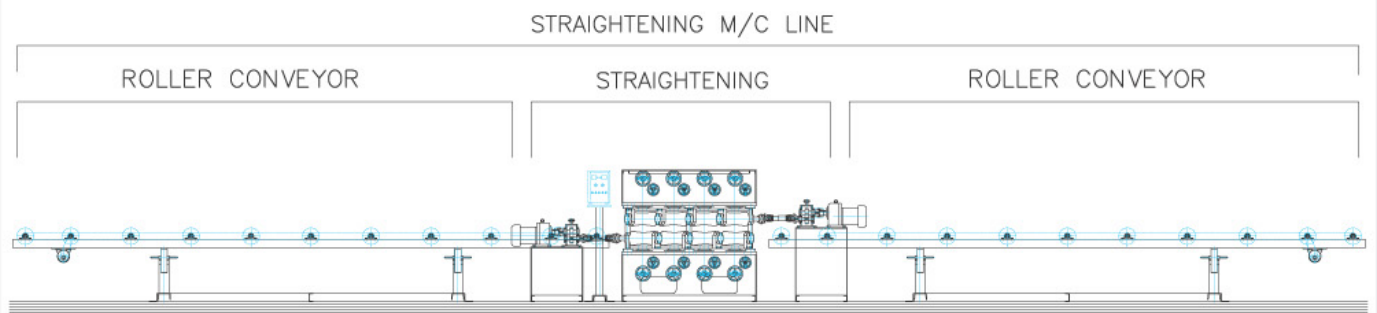
When the pipe's external diameter is big, contact degree gets bigger.

Therefore, line speed is faster as the pipe's external diameter is smaller, and line speed is slower as the pipe's external diameter is bigger.



STRAIGHTENING MACHINE (MODEL-1)

## Summary of Manufacturing Process



STRAIGHTENING MACHINE(6INCH) (MODEL-2)



STRAIGHTENING MACHINE (MODEL-3)

## Specifications

Model	WS-100	WS-200	WS-400	WS-500	비 고
Pipe Size	Ø12.7~Ø25.4	Ø31.8~Ø50.8	Ø63.5~Ø101.6	Ø127이상	SUS
Wall Thickness	0.5~2.0mm	0.6~2.5mm	0.6~3.0mm	3.0mm	SUS
Line Length	Order Made				



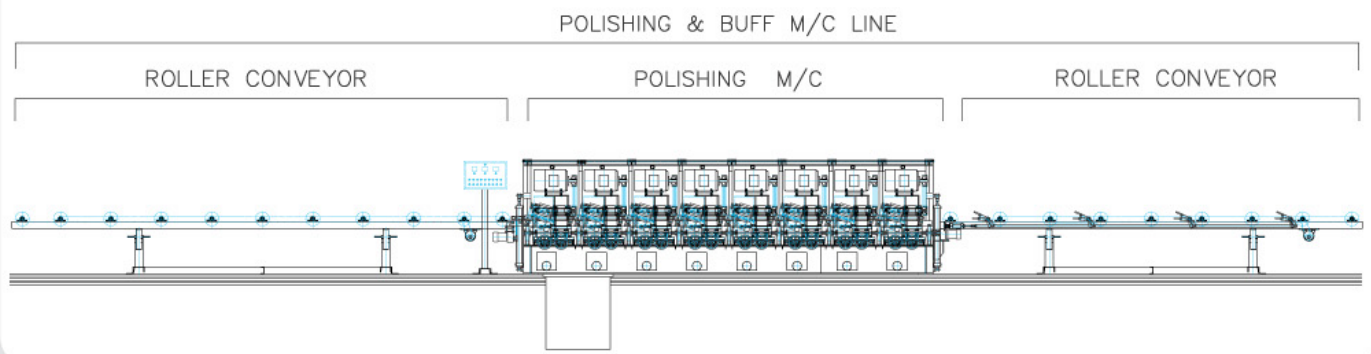
# POLISHING MACHINE

This is automatically grinds exterior of pipe. Polishing and buff grinding stone or wheel paper are used at each grinding head. It is also constituted with roller that transfers and supports work. Different grinding materials are installed at the head of main body for rough, medium, and buffing processes. It is constituted with the three most important elements of grinding such as grinding abradant(belt or wheel paper), transfer roller, and supporting rubber roller. In particular, abrasive has many variables in accordance with material condition, so selection of abradant is the most important matter.



POLISHING MACHINE

## Summary of Manufacturing Process



POLISHING MACHINE (MODEL-1)



POLISHING MACHINE (MODEL-1)



AUTO POLISHING MACHINE (MODEL-2)



AUTO POLISHING MACHINE (MODEL-2)

## Specifications

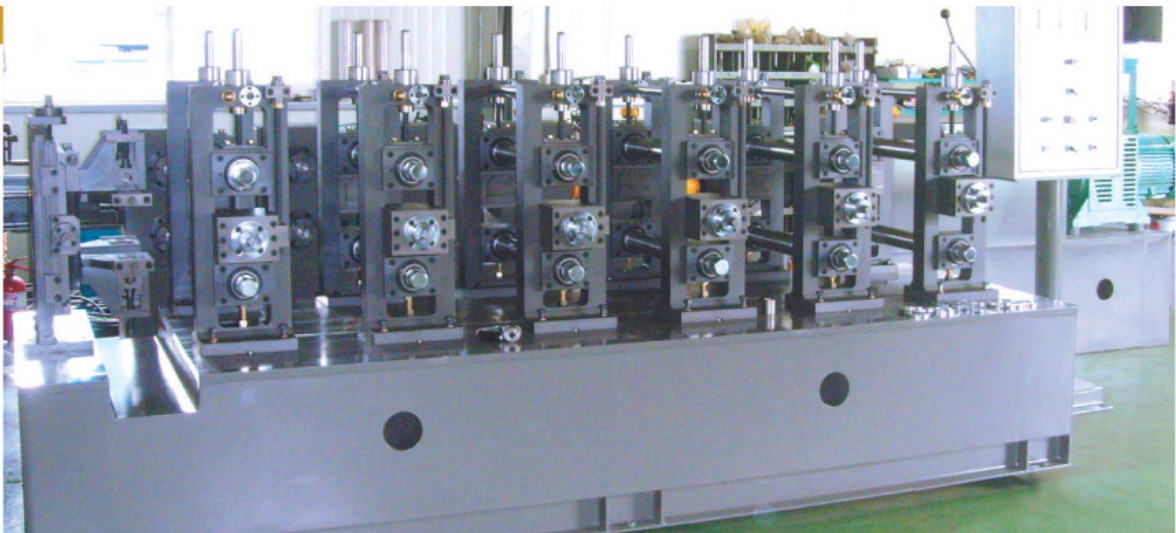
Model	WS-100	WS-200	WS-400	WS-500	비 고
Pipe Size	Ø12.7~Ø25.4	Ø31.8~Ø50.8	Ø63.5~Ø101.6	Ø127이상	SUS
Wall Thickness	0.5~2.0mm	0.6~2.5mm	0.6~3.0mm	3.0mm	SUS
Line Length	Order Made				



# SQUARE FORMING MACHINE

Rectangular pipe maker: This machine forms round pipe processed through tube mill, straightener, and grinder to be rectangular pipe.

Roll replacement for top roll or bottom roll are needed sometimes, but only side roll replacement is necessary for small rectangular pipe in the small size and medium rectangular pipe in medium size for easier and accurate work.



SQUARE FORMING MACHINE    Utility model: Registration #20-2070973



SQUARE FORMING MACHINE



SQUARE FORMING MACHINE

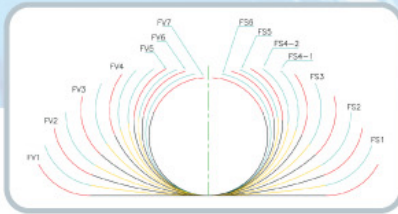
## Specifications

Model	WS-100	WS-200	WS-400	WS-500	비 고
Pipe Size	10~30mm	10~70mm	10~100mm	40~150mm	SUS
Wall Thickness	0.5~2.0mm	0.6~2.5mm	0.6~3.0mm	3.0mm	SUS
Line Length	Order Made				



# ROLLER

Special steel material (SKD11) is used to maintain heat process hardness and abrasion resistance. CAD design and CNC process are used for precise production and competitiveness with differentiated quality.



TUBE MILL ROLLER



STRAIGHTENING ROLLER



ROLLER BOX

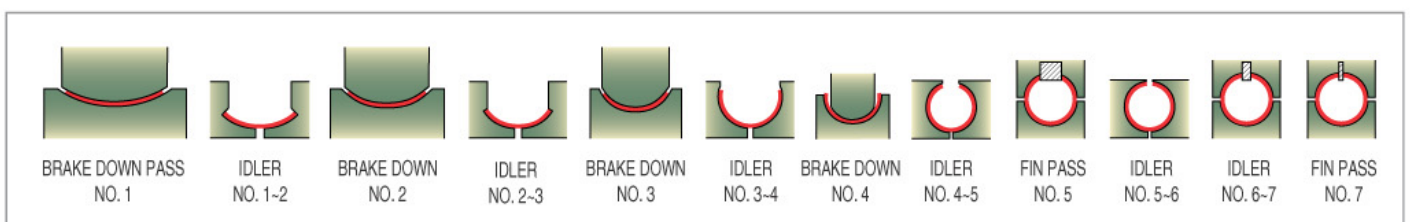


ROLLER



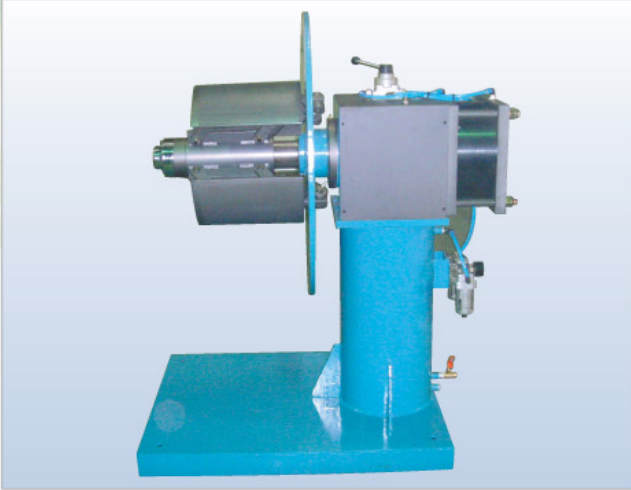
ROLLER

## Summary of Manufacturing Process

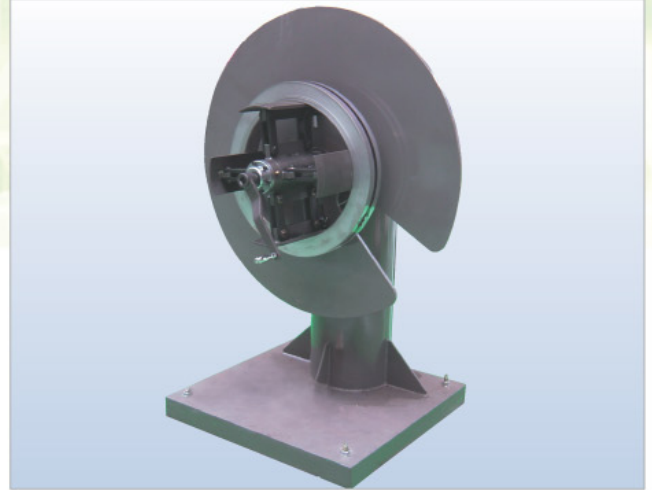




# OTHER



PNEUMATIC UNCOILER



MANUAL UNCOILER



BEAD GRINDER M/C



DRAWING CLEANER M/C



HAIR LINE M/C



TUBE END FACING M/C



# W O O S U N G

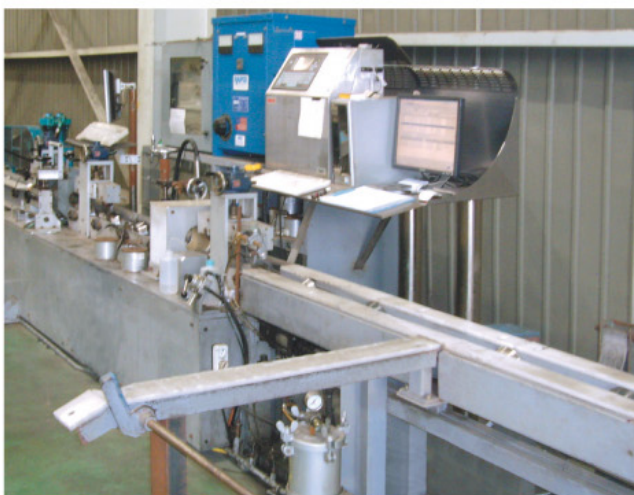
The world is changed by advancing company.



ROLLER CUTTING M/C



END FACING (300A) M/C



EDDYCURRENT TESTER M/C



EDDYCURRENT TESTER M/C



W O O S U N G   M A C H I N E   I N D U S T R I A L



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