

POT EQUIPMENTS , AIR KNIFE & FURNACE ITEMS

FOR GALVANISING AND GALVALUME LINES

Gujarat Nippon International Pvt. Ltd.



上海军棠机械科技有限公司
MAKER METALLURGY TECHNOLOGY CO., LTD

Date : 2013-3-30

THE AGENT AUTHORIZATION

TO WHOMSOEVER IT MAY CONCERN

We hereby state that M/s Gujarat Nippon International Pvt Ltd having its registered office at 21, Navyug Industrial Estate , MIDC Cross Road, J.B.Nagar, Andheri (East), Mumbai-59 , India are our Authorised Representative to represent us and take orders on behalf of us for all Pot Equipments like Sink and Stabiliser Rolls, Bushes, Arms, Air knives and Furnace items like Ceramic Coated Rolls, Radiant tubes, Hot Briddle Rolls , Water cooled Rolls , Earth Rolls , Snouts etc for Galvalume / Galvanising and Coating Lines. This agreement is valid from 01st April, 2013 till 31st March, 2016 subject to renewable hereafter.

Maker Metallurgy Technology Co., Ltd

上海军棠机械科技有限公司

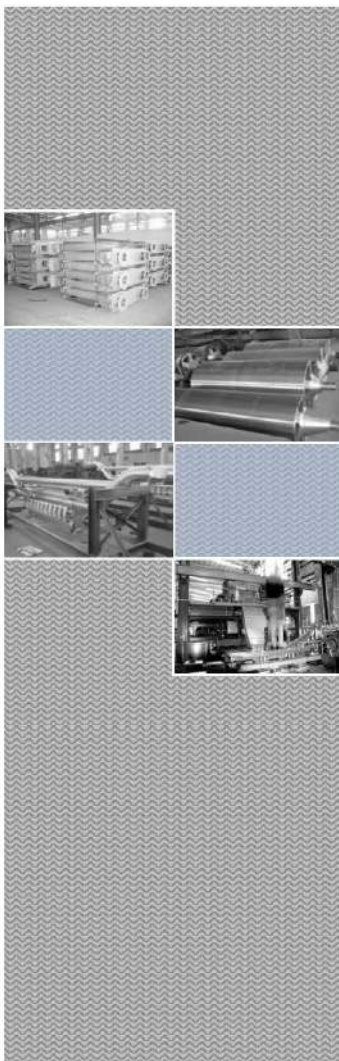
(Seal and stamp)

WWW.CNMAKER.COM

TEL:+8613482876468

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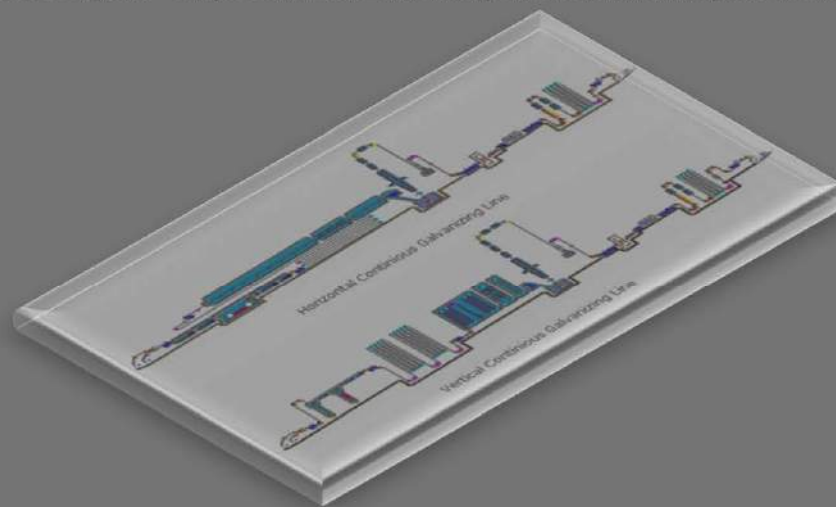
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MAKER

MAKER METALLURGY TECHNOLOGY CO., LTD

Integrated supplier - Strip Continuous Galvanizing/Galvalume/Annealing line maintenance



Maker Metallurgy Technology Co., Ltd



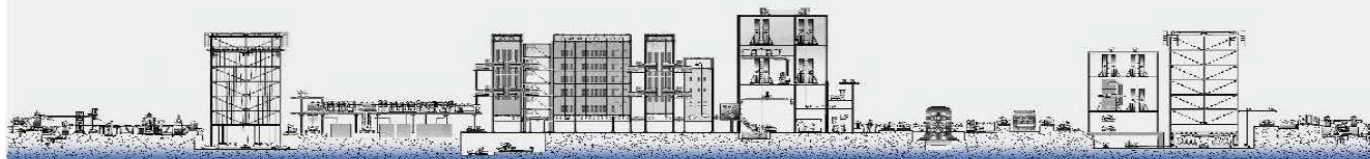
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Maker Catalogue Directory

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CGL/CGA integrated supplier

◆ Maker Profile

MAKER Metallurgy

With 10 years production experience of heat-resistant and wear-resistant alloy product. Was invested by Maker in China.

Focus on becoming a professional supplier of metallurgical accessories.

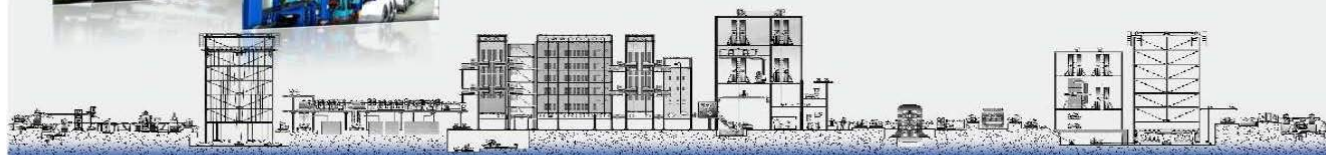
Application:

Hot dip galvanizing line (both wet flex and gas reduction type)

- Strip Continuous galvanizing line
- Strip Continuous galvafan line
- Strip Continuous galvalume line
- Strip Continuous Color coating line
- Strip Continuous annealing line



Company Profile	
Company name	Maker Metallurgy Technology Co., Ltd
Date of establishment	MAKER – 2012, HMT – 2003
Enterprise type	Private
Total registered capital	Approx. USD 760,000
Total area / workshop area	40000 m ² / 25000 m ²
Number of employees	200
Engineer & Technicians	30
Capability	OD45mm – OD1600mm (Centrifugal casting tube)
Process	Centrifugal casting, Lost wax casting, Sand casting and etc.
Inspection	Direct reading spectrometer, PT test, Balance test, Ultrasonic test
Total sales 2011	Approx. USD 30million
Local / Export (%)	90 / 10
Address	MAKER: No. 1500, Xinsong Road, Shanghai, China Factory: Dongxin Industrial Park, Jiangsu, China
Contact person	Mike Wang (Manager)
Mobile	+8613482876468
Telephone	+86 21 67684218
E-mail	info@gujaratnippon.com / info@potequipments.com
Website	www.potequipments.com / www.sinkrolls.com



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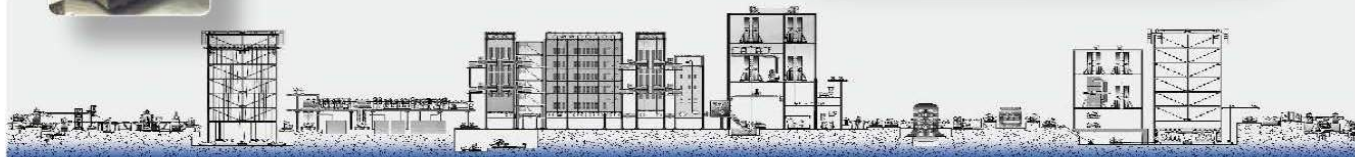
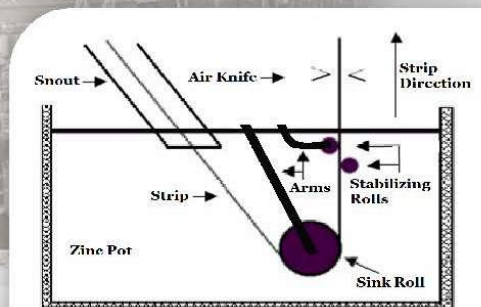
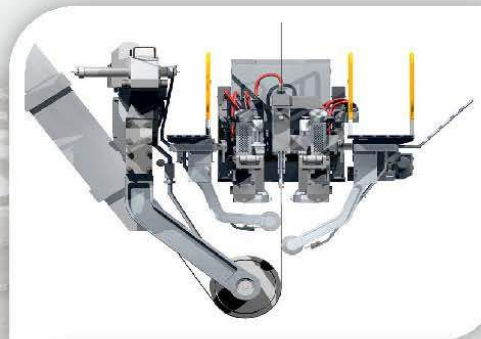
◆ Pot equipments



Zinc pot is one of the key sector of the GI and GA line. The spare parts determine the quality of the product and production costs.

We can provide all the spare parts related with the zinc pot.

- Sink roll
- Stabilizing roll
- Arms
- Bush and sleeves
- Snout
- Arm tension rod
- Center protection cap
- Drosser
- Stopper and slider
- ...



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◆ Pot equipments
➤ Sink roll



- **Part Name**
Sink roll
- **Material**
SS316L ferrite free
CF-3M
...
- **Production Process**
Centrifugal casting
Solid solution treatment
- **Inspection**
Melting material inspection
PT inspection
Balance test
- **Comments**
Surface could be smooth, groove,
hole, drum and etc.



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◆ **Pot equipments**
➤ **Stabilizing roll**



- **Part Name**
Stabilizing roll
- **Material**
SS316L ferrite free
CF-3M
...
- **Production Process**
Centrifugal casting
Forging
Solid solution treatment
- **Inspection**
Melting material inspection
PT inspection
Balance test



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◆ Pot equipments
➤ Arms

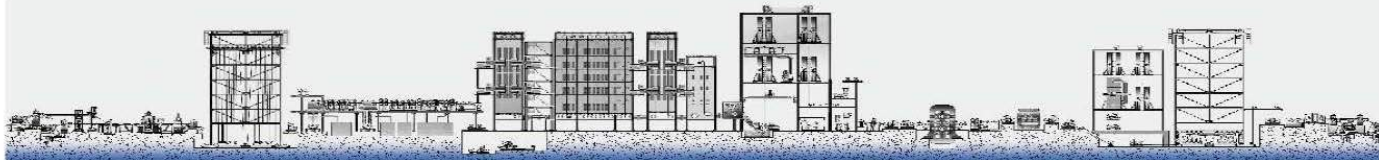


- Part Name
Sink roll arm
Stabilizing roll arm

- Material
SS316L ferrite free
CF-3M
...

- Production Process
Sand casting

- Inspection
Melting material inspection
PT inspection



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◆ **Pot equipments**
➤ **Bush & Sleeve**

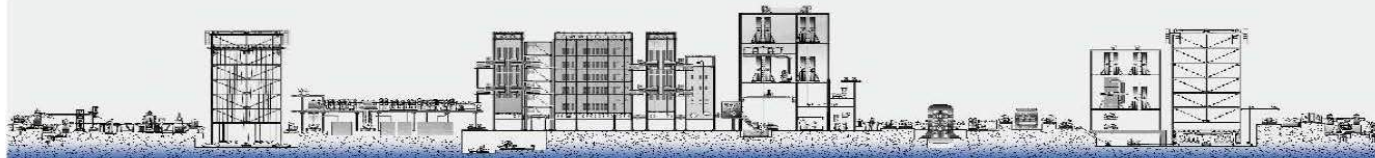


- **Part Name**
Sink roll bush & sleeve
Stabilizing roll bush & sleeve

- **Material**
Maker-1(Private formula)
Maker-2(Private formula)
Canalloy
Stellite 6
...

- **Production Process**
Centrifugal casting
(Much better than sand casting or lost wax casting)

- **Inspection**
Melting material inspection



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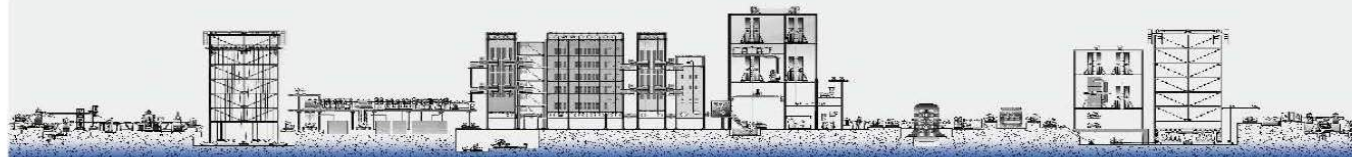
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◆ Pot equipments
➤ Snout



- Part Name
Snout
- Material
SS316L
CF-3M
Carbon steel for flange
...
- Production Process
Sand casting
- Inspection
Melting material inspection



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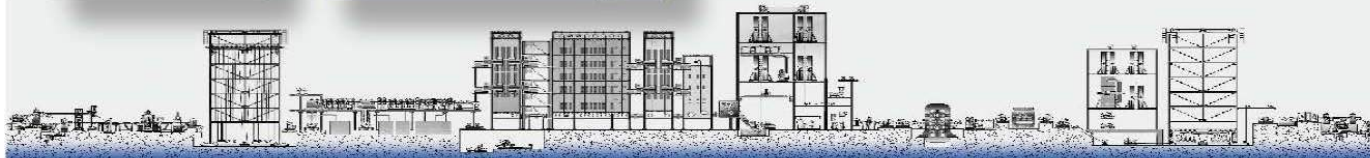
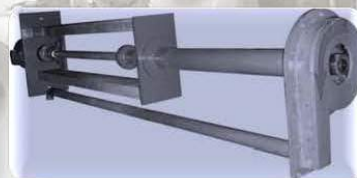
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◆ Pot equipments
➤ Others



- Arm tension rod
- Drosser
- Center protection cap
- Stopper and slider
- Arms assembly
- Zinc pump
- ...



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◆ Annealing furnace

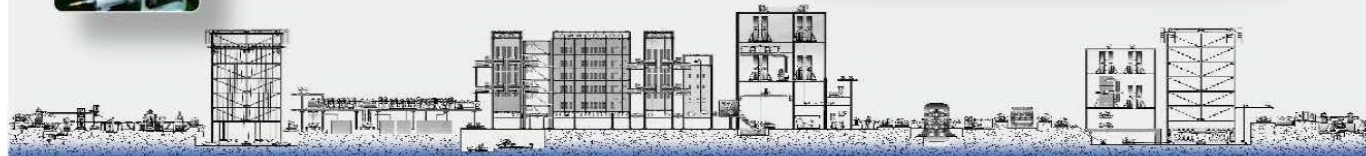


Annealing furnace is one of the key sector of GI/GA line.

Annealing furnace was also widely used in other steel continuous annealing line.

We can provide below products,

- Furnace roll
- Water cooled hearth roll
- Hot bridge roll / Deflector roll
- Gas radiant tube
- Electric radiant tube
- Electric radiant tube ceramic heater
- Gas Burner
- Heating elements
- ...



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◆ **Annealing furnace**
➤ **Furnace roll**

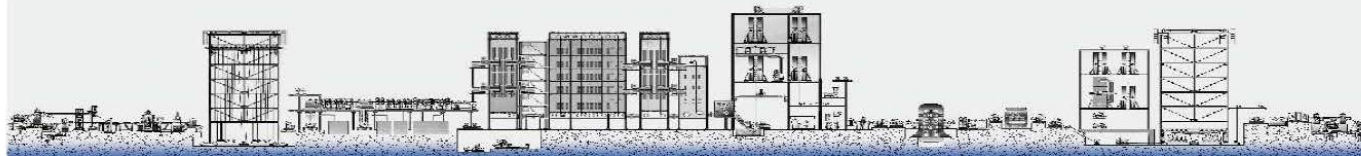


- **Part Name**
Furnace roll

- **Material**
1Cr18Ni9Ti
3Cr24Ni7NSiRe
Cr25Ni20
Cr25Ni35 (Nb)
Cr28Ni48
Cr28Ni48W5
MORE series
HK HH series
SCH series
...

- **Production Process**
Centrifugal casting

- **Inspection**
Melting material inspection
PT inspection
Balance test



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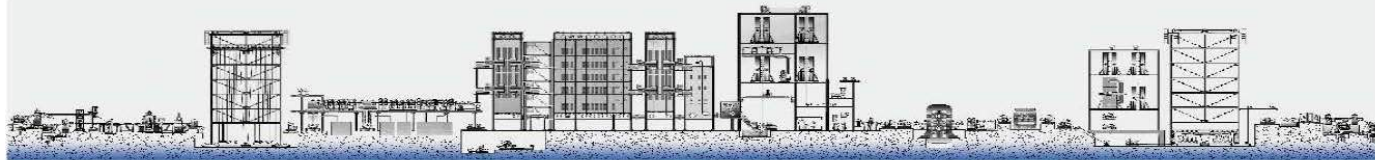
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◆ **Annealing furnace**
➤ **Water cooled roll**



- **Part Name**
Water cooled hearth roll
- **Material**
Cr28Ni48W5
Cr25Ni12
SS304
...
- **Production Process**
Centrifugal casting
- **Inspection**
Melting material inspection
PT inspection
Balance test



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◆ **Annealing furnace**
➤ **Hot bridge/Deflector roll**

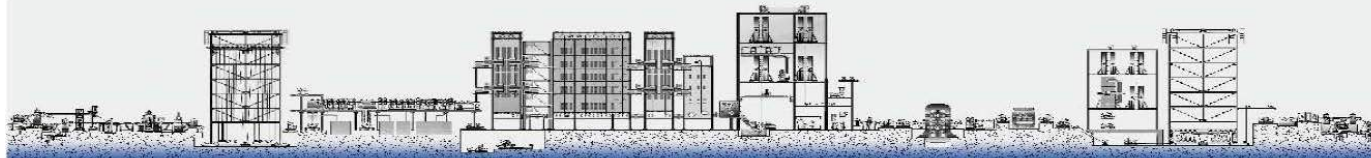


- **Part Name**
Hot bridge roll
Deflector roll

- **Material**
3Cr24Ni7NSiRe
SS316L
CF-3M
...

- **Production Process**
Centrifugal casting

- **Inspection**
Melting material inspection
PT inspection
Balance test



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◆ **Annealing furnace**
➤ **Radiant tube**



- **Part Name**
Furnace roll

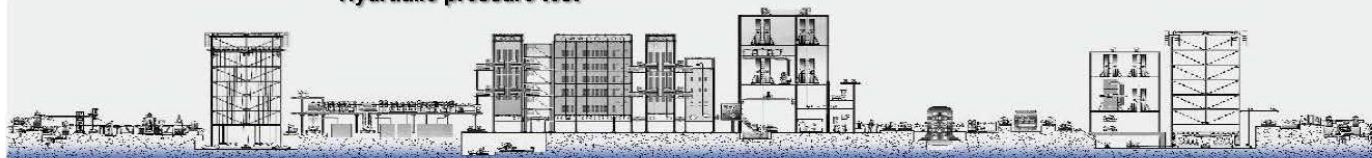
- **Material**
Cr25Ni20Cr25
Cr25Ni35 (Nb)
Cr28Ni48
Cr28Ni48W5
...

- **Shape type**
U, W, Straight Pipe...

- **Heat type**
Gas burn
Electric

- **Production Process**
Centrifugal casting

- **Inspection**
Melting material inspection
PT inspection
Hydraulic pressure test



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◆ Air knife



We mainly provide 3 types of air knife with different structures.

The minimum coated weight could reach 40g/sqm (Double surface).

□Maker-AK01 type:

Basic structure, absorb and combine the technology from Kohler air knife.

□Maker-AK02 type:

Advance structure, absorb and combine the technology from FOEN and DUMA air knife. Multi-joint air injection.

□Maker-AK03 type:

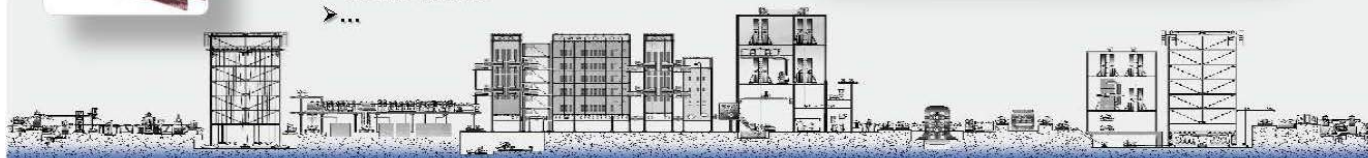
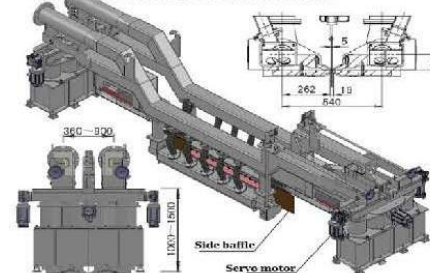
Advance structure, Private design. Double-joint air injection.

We can provide below products,

- Full set air knife
- Air knife assembly
- Air knife nozzle assembly
- Side baffle
- Lips
- Lifting device
- Mobile device
- ...



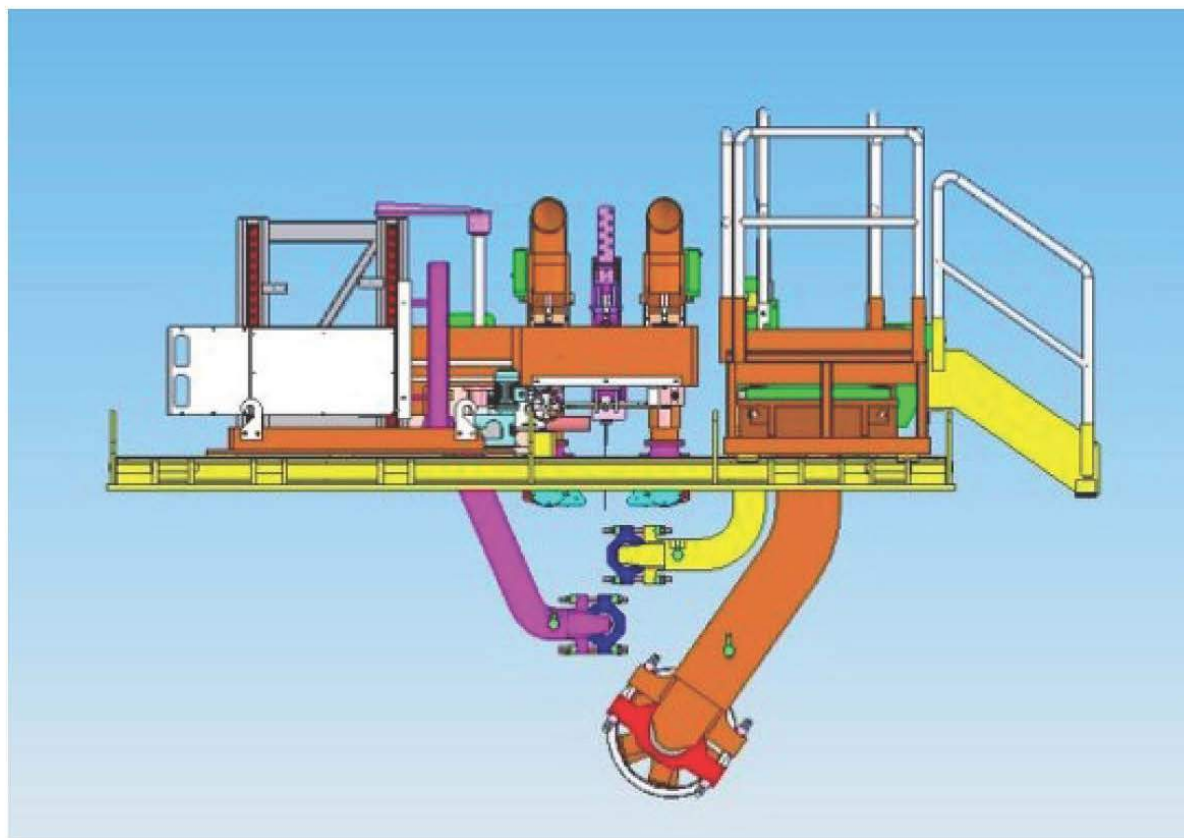
Full set air knife



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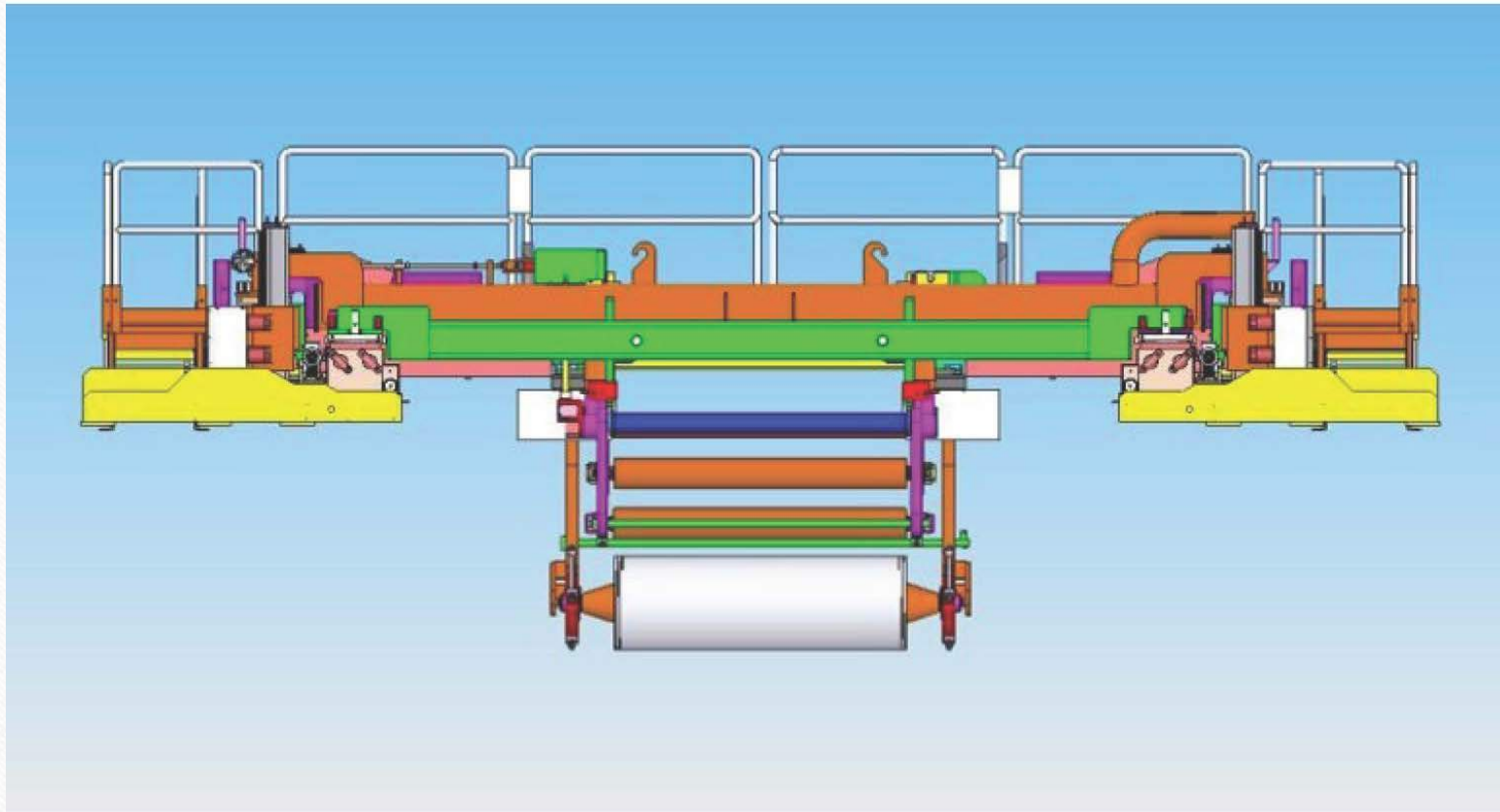
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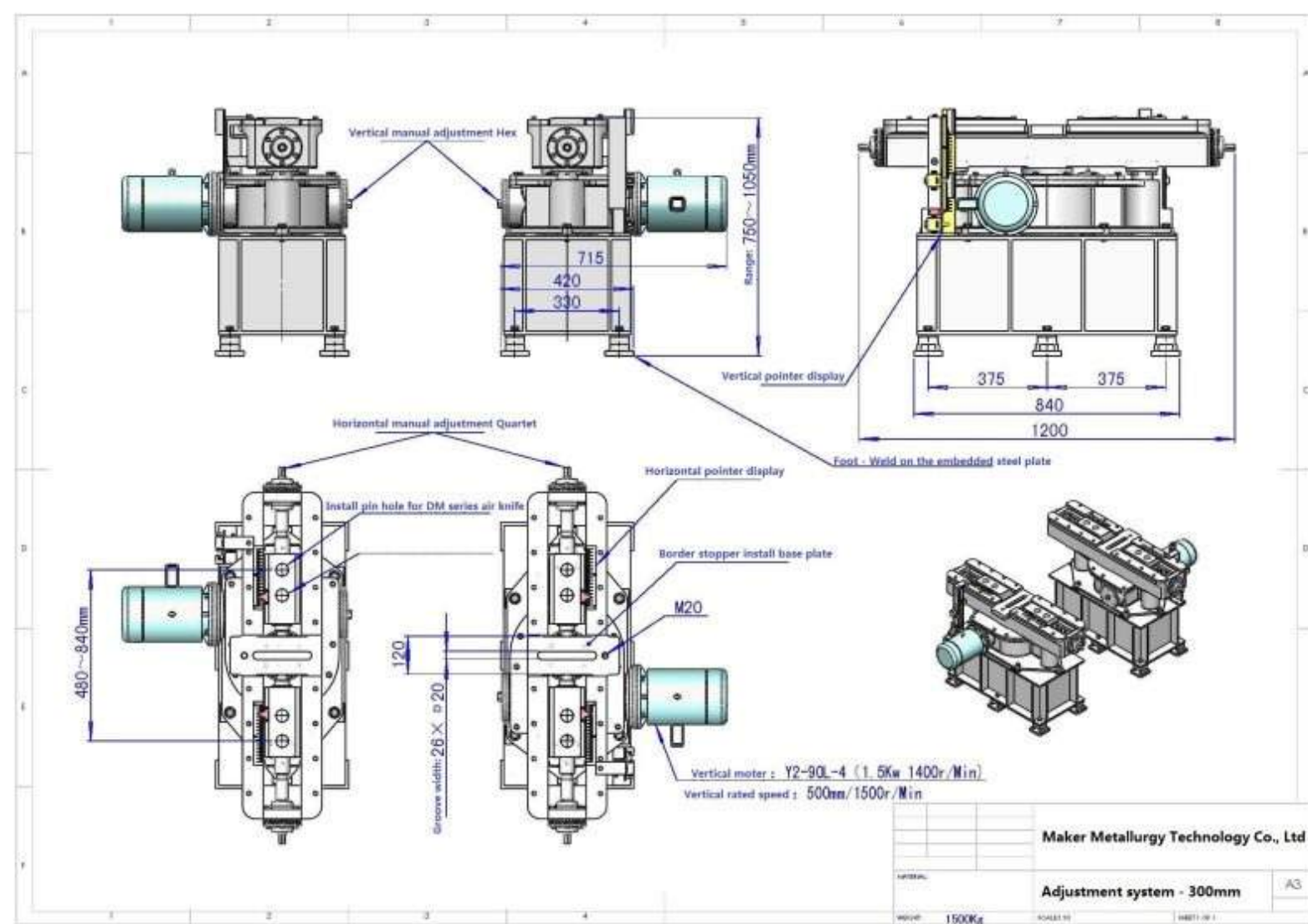




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