

Qingdao XinShengYuan Roller Co.,Ltd



Qingdao XinShengYuan Roller Co.,Ltd is located in the haibin industry development zone in Qingdao. next to the Port of QingDao and expressway, conventient transportation. It covers an area of 20000 square meters, invested tens of millions RMB for construction. the company specializes in producing various types of hot -milled olled and cold-milled alloy rollers, catering to the needs of different industries in the domestic and international roller market, and is committed to building a high-quality roller manufacturing and research and development base in China. Forming a production capacity of 10000 tons of high-quality rolling rolls per year.

Our company adopt advanced centrifugal compound casting technology for rolls making, and has researched and established a series of high quality rollers, the main products are chilled cast iron rolls, infinite chilled cast iron rolls, ductile iron rolls, high chromium cast iron rolls, semi-steel composite rolls, centrifugal composite rolls, semi-high-speed steel and high-speed steel rolls, It can meet the application of different rolling mills and is suitable for

rolling of various bars, wires, strips and profiles .Besides, the company insist on "first-class equipment, first-class technology, first-class management team " as the basic developing objectives, while we has been well equipped with the Advanced large-scale horizontal centrifuge machinery, sets of themedium frequency furnace and over 30 sets of advanced processing equipment like the lathe, grinding, drilling and milling machinne etc,

Furthermore, the company also has equipped the world-advanced equipment for the quality control and new roller invented such as heat treatment, spectrometer and temperature control etc. the company had attracted a number of R & D talents which have years of manufacturing roller experience and formed a efficient and professional management team that contribute to lay a solid foundation for rapidly development of "XinShengYuan Roller".

The company will insist on the .



Material		1	ndefini	te Chi	ll Cer	ntrifuga	l Roll		
Size			ф 200	mm≤(bod	ly diametr)≪ ¢ 1200mm	ı		
Parameter	(b	88)	(neck hardness) 32-45HSD			(tensile strength)≥ 350MPA			
	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	Mg%
Element	2.90-3.60	0. 25-0. 80	0.20-1.00	≤0.40	≪0.08	2. 01-4. 50	0.50-1.50	0. 20-0. 60	
Mill stand	Section mills	,	Finished					10	
	H-shaped m	ills							
WIN BURNN	Wire & rod	mills	Middle	Finished,	Finished				
	Strip mills		Finished						
Description	the out dispers the inn drop lit center	Body has a higher surface hardness. As As the outer layer centrifugal casting, body chilled layer exists in small and dispersion graphite. The graphiteincreased slowly and evenly from surface to the inner, so that the chilled depth has no significant line. Thatroll hardness drop little and has good resistance to thermal cracking. At the same time the center has a higher intensity by separate nodulizing. With a high wear- resistant properties and anti-crack, anti-peeling, anti-prints capacity. These							

🚽 Indefinite Chill Centrifugal Roll 🚅



Material		Sphe	roidal C	araph:	itic Al	loy roll	(Pearliti	ic)		
Size			ф 200	mm≤(boo	ly diametr)≪ ф 1200m m	1			
Parameter	(body hardness) 55-65 HSD			(neck hardness) 32-45HSD		(tensile strength)≥ 350MPA				
Element	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	Mg%	
	2. 90-3. 60	1. 40-2. 20	0. 40-1. 00	≤0.40	≤0.03	1. 50-2. 5 0	0. 30–1. 00	0. 20-0. 80	≥ 0.04	
	Section mills Middle									
Mill stand	H-shaped m	H-shaped mills								
IVERI SCRIITE	Wire & rod	mills	Rough	Rough Middle						
	Strip mills		Rough	lough Middle						
Description	Body has a higher surface hardness. As the outer centrifugalcasting, the hardness drop should be less than static cast roll. The strength of the core will be higher than the other cast roll.									

📕 Spheroidal Graphitic Alloy roll (Pearlitic) 🚅







Material				SG	Acicu	lar			
Size			ф 200i	mm≤(bod	ly diametr)≤ ф 1200mm	Ľ		
Parameter		ody hardne 65-80 HSD		(neck hardness) 32-45HSD			(tensile strength)≥ 350MPA		
	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	Mg%
Element	2. 90-3. 60 1. 40-2. 20 0. 40-1.		0. 40-1. 00	≤0, 40	≤0.03	3.00-4.50	0.30-1.00	0.60-1.10	≥ 0.04
	Section mills	Section mills Fin							
Mill stand	H-shaped m								
IVIIII MURINU	Wire & rod mills		Middle	Middle Finished					
	Strip mills								
Description	By adding an appropriate amount of alloying elements and a sp heat treatment process, the work layer of roll can be bainite ma based organizations with relatively high strength, toughness and resistance, while acicular nodular iron has a small hardness drop the same time the core has a higher intensity by separate nodulizing								rix- zear . At





Material		High Speed Steel Rolls									
Size			ф 200	mm≤(bo	ody diam	etr)≤ ¢ 800mm	1				
Parameter	(t	ody hardne 80 -85HSD		(neck hardness) (tensile 32-45HSD 700-90							
	C%	Si%	Mn%	W%	v%	Ni%	Cr%	Mo%	Nb%		
Element	1.6-2.0	0. 20-1. 00	0.30-1.00	1.50- 2.50	4.00- 6.00	0. 50-1. 50	4.00-8.00	4. 00-6. 0 0	0.50- 1.50		
	Section mill	S									
Mill stand	H-shaped n	nills									
	Wire & rod	mills	Pre Finis	hed, Fi	nished						
	Strip mills		Finished								
Description	under is mad technic matrix assure kind o	Strip millsFinishedHigh Speed Steel (HSS) roll has high hardness and abrasive resistance under high temperature. It is made by centrifuge method; the core part is made of nodular cast iron. Through component and heat treatment technique, the hardness in working layer is able to reach 80-85H\$C: matrix in martensite contains V, W, Mo compound carbide so as to assure the even hardness and aperture abrasion in working layer. This kind of roller is applicable to finishing rack to expand working period and improve surface quality of rolling materials.									



📲 High Speed Steel Rolls(B) 🚽



Material			High	Spee	d Ste	eel Rolls	s(B)				
Size			φ 200	hnnn≤(ba	dy diam	nstr)≤∮800mm					
Parameter	(b	is)	(neck hardness) 32-45HSD		(tensile strength) 700-900 MPA						
	C%	Si%	Mn%	WX	√%	Cu%	Ct%	Mo%	Ti%		
Element	0. 25-0. 40	1. 50-1. 80	0.30-0.50	1.00- 2.00	0.80- 1.00	0. 50-0. 80	3. 80-4. 20	1.00-2.0 0	0.25		
	Section mills	9									
Mill stand	H-shaped m	111 <i>s</i>									
Will dealer	Wire & rod	Pre Finis	shed								
	Strip mills										
Description	dense, v process during v of the ro the num	Adopting bimetallic composite extrusion casting process, the structure is dense, with high red hardness, wear resistance, impact resistance, and processability. It is not easy to produce pockmarks, peeling, or slotting during use; It can reduce intermediate rolling waste caused by rapid wear of the rolling groove, thereby improving the yield of the product; Reduce the number of roll and groove changes to improve the operation rate of the rolling mill: Good wear resistance, able to effectively control negative									



🚽 Alloy Adamite Rolls 🚽

Material			Al	lloy A	dami	te Rolls			
Size			ф 200	mm≤(bo	ody diame	tr)≤ Φ 1200m	n		
Parameter		ody hardne 40 -55HSD		(neck hardness) 32-45HSD			(tensile strength) 500-700 MPA		
	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	Mg%
Element	1.30-1.70 0	0. 20-0. 80	0. 70-1. 00	≤ 0. 40	≤ 0.30	0. 50-1. 50	0.80-1.20	0. 20-0. 6 0	0.50- 1.50
	Section mill	9							
Mill stand	H-shaped m	rough a	nd mediu	m milling	5				
IVIIII Stand	Wire & rod mills rough a			nd mediu	ım milling	5			
	Strip mills		rough a	nd mediu	ım milling	5			
Description	steel rol certain treatme good the differen finishin	Adamite roll is one kind of rolling materials whose performance is between steel roll and iron roll. It contains Ni, Cr and Mo elements, its matrix contains certain quantity of carbide which is processed with special thermal treatment technique with high abrasive resistance, strong toughness and good thermal resistance, its special characteristics is that there no hardness difference in working layer, applicable to rough milling and initial section of finishing mill for Tandem mill with steel; rough and medium milling of rod and wire milling machine, pre-finishing rack, universal mill, roll collar and							

📕 Ductile cast iron – Pearlitic (II) 🚅



Material		Ductile cast iron - Pearlitic (II)									
Standard]	inner stand	lards of ou	ir company					
Size			φ2	00mm < bo	dy diamet	er < φ 1200mm	I I				
Parameter	55 <	body hardness	s < 6 5	32 <	neck hard	tensile strength > 350MPA					
	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	Mg%		
Element	2.90-3.60	1.40-2.20	0.40-1.00	< 0.15	≤ 0. 03	1. 50-2. 50	0.30-1.00	0.20-0.80	>0.04		
	Section mills	8									
	H-shaped m	ills									
Mill stand	Wire & rod	mills	Rough M	liddle							
	Strip mills		Rough M	Aiddle							
Description Body has a higher surface hardness. As the outer centrifugal casting, the hardness static cast roll. The strength of the core will be higher than the other cast roll.						and the second second second	hould be less t	han			

🚽 Alloy Steel Rolls (60CrNiMnMo) 🚽



Material		. Li	Alloy St	eel Ro	olls (e	60CrNiM	InMo)		
Size			\$ 200	mm≤(bo	dy diame	tr)≤ ∳ 1200mm	n		
Parameter		ody hardne 40 -55HSD						sile strength) 0-800 MPA	
	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	Mg%
Element	0. 55-0. 65	0. 20-0. 45	0. 70-1. 80	≤ 0.40	≤ 0.30	0. 20-0. 60	1. 20-2. 20	0. 20-0. 6 0	≤ 0.40
	Section mills	5							
Mill stand	H-shaped m	H-shaped mills rough							
IVIIII BUBINA	Wire & rod	Wire & rod mills rough							
	Strip mills		rough	milling					
Description	Alloy cast steel roll is made of top-grademolten steel by arc furnace and a casting and technology of heating processing with high intensity, of thermal cracking resistance, toughness and abrasive resistance, applir rough and medium roll of profile steel, rough mill of hot rolled strip supporting roll of hot rolled strip steel. Metallographic structure of roll is pearlite or tempered sorbite system.								ellent ble to l and



Classification of roller applications

📲 Seamless steel pipe production line 🚽



Heeting Furnace 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Rough rolling Mill Frame Intermediate Rolling Mill Frame Precision Rolling Mill Stand

Performance and Application

ltem	Material	Material Code	Hardness(HSD)	Application	Tensile Strength(N/mm2)
1	Alloy Steel	AS	40/50	18/2 Roughing Stands	600/750
2	Alloy Adamite St ee l	AD	50/60	Roughing Stands	500/650
3	Burdet and the	SGP II	55/65	Roughing&Intermediate Stands	450/650
3	Pearlitic Nodular	SGP III	65/72	Intermediate & Finishing Stands	450/650
		SGA II	70/75	Finishing Stands	380/500
4	Acicular Nodular	SGA III	72/78	Finishing Stands	380/500

📕 Large&Medium Round Bar Mill---Round Bar Production 🚽



📲 Hot Strip Mill---Hot Strip Production 🚽



Transverse to rol rolling Two rollers to roll hortsontal rolling mi Two rolls of weater Tat colling of weater Tat colling mi

Mid rolling five frem

Rough rolling two



Performance and Application

Material	Material Code	Hardness(HSD)	Application	Tensile Strength(N/mm2
Alloy Adamite Steel	AD	50/60	Roughing Stands	500/650
Pearlitic Nodular	SGP II	55/65	Roughing& Intermediate Stands	450/650
	SGP III	65/72	Intermediate Stands	450/650
Indofinita Chill	ICIV	72/80	Finishing Stands	380/500
Indefinite Chill	ICV	75/85	Finishing Stands	380/500

Classification of roller applications



📕 Wire&Rod Mill--Rebar Production 🚅





Transvesse Two rollers U Nian Iwo roll rolling U Nian Two roll horizontal rolling in Flat rolling mill Rough rolling two

Five precision mills

Performance and Application

Item	Material	Material Code	Hardness (HSD)	Application	Tensile Strength(N/mm2)
		SGP I	45/55	Roughing Stands	450/650
1	Pearlitic Nodular	SGP II	55/65	Roughing& Intermediate Stands	450/650
		SGP III	65/72	Intermediate& Finishing Stands	450/650
		SGA I	60/70	Intermediate Stands	380/500
2	Acicular Nodular	SGA II	65/75	Intermediate& Finishing Stands	380/500
		SGA III	70/82	Finishing Stands	380/500
		ICIII	65/75	Intermediate& Finishing Stands	380/500
3	Indefinite Chill	ICIV	72/80	Finishing Stands	380/500
		ICV	75/85	Finishing Stands	380/500
4	High Speed Steel	HSS	75/88	Finishing Stands	380/500
5	High Boron Steel Rolls	HB	75/85	Finishing Stands	380/500



Performance and Application

m	Material	Material Code	Hardness(HSD)	Application	Tensile Strength(N/mm2)
1	Alloy Steel	AS	40/50	18/2 Roughing Stands	600/750
2	Alloy Adamite Steel	AD	50/60	Roughing Stands	500/650
		SGP II	55/65	Roughing & Intermediate Stands	450/650
3	Pearlitic Nodular	SGP III	65/72	Finishing & Universal Rolling Stands	450/650
4	Alloy Adamite Steel	AD	60/70	Universal Rolling Stands	700/900
5	Araphitic steel	GS	50/60	Universal Rolling Stands	700/900
6	Acicular Nodular	SGA II	60/70	Universal Rolling Stands	450/650
7	High Speed Steel	HSS	75/88	Universal Rolling Stands	700/900







Factory casting/processing/and quality inspection equipment









































Metalligical mill roller and ring





青岛鑫盛源轧辊有限公司

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