



Rolling Mill Rolls

**AMK METALLURGICAL
MACHINERY GROUP CO.,LTD**



www.amkmmgroup.com



企业简介：

江苏艾米克冶金机械有限公司位于江苏省无锡市，公司致力于生产和供应炼钢厂、轧钢厂、铁合金厂、铸造厂和选矿行业使用的冶金机械设备、配件和耗材。我司还为国内外生产商提供代理服务。

艾米克团队多年来致力于技术调研、设计、生产和销售。公司和中国多家一流生产企业建立了合作关系，确保公司可以为客户提供一站式供货服务。

艾米克专注于快捷、耐心、专业和体贴的售后服务。以顾客至上为发展基础和准则。艾米克团队全年 24 小时为您服务。为了第一时间接受客户的反馈，了解客户的需求，艾米克在各国拥有代理并与当地贸易公司合作。

艾米克正努力成为世界一流供应商，不只是供应产品和服务，更加是供应价值和诚信。我们的产品已经远销希腊、土耳其、伊朗、沙特阿拉伯、美国、厄瓜多尔、南非等国。以“品质、服务、价值”为信条，艾米克期待与海内外贸易伙伴和顾客建立长期互利共赢的合作关系！



About Us:

AMK Metallurgical Machinery Group Co., Ltd is located in Wuxi, Jiangsu province. The company is specialized in producing and supplying metallurgical & mechanical equipments, spare parts, consumables for steel mill, rolling mill, ferroalloy industry, foundry, mineral processing industry, etc. We also provide agency services for domestic and worldwide manufacturers.

AMK members have been devoting themselves to technical research, design, production and sales for years. We're also working with other Chinese domestic leading manufacturers to ensure One-Stop Supply for our customers worldwide.

AMK focuses on prompt, patient, professional and considerate after-sale service. Customer first is our principle and basis of development. AMK team is at your service 24/7. AMK is cooperating with global representatives and trading companies to ensure more convenient communication and fast reaction to customers' feedbacks and demands.

AMK team is dedicated to being a world leading and trustworthy supplier who is not only supplying products and service but also value and integrity. We've been exporting products to Greece, Turkey, Iran, Saudi Arabia, America, Ecuador, South Africa, etc. Guiding by the spirit of "Quality, Service, Value", we look forward to building long-term and mutually beneficial cooperation with partners and customers all around the world!



Production & Test Equipments



Melting Equipment



Heat Treatment Furnace Group



Casting Equipment



Machining Equipment



Laboratory Equipment



Test

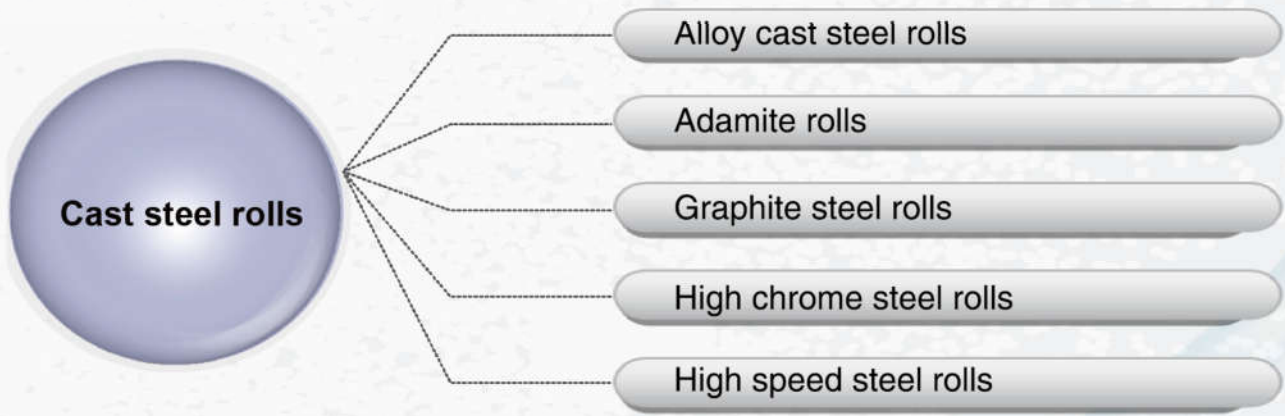
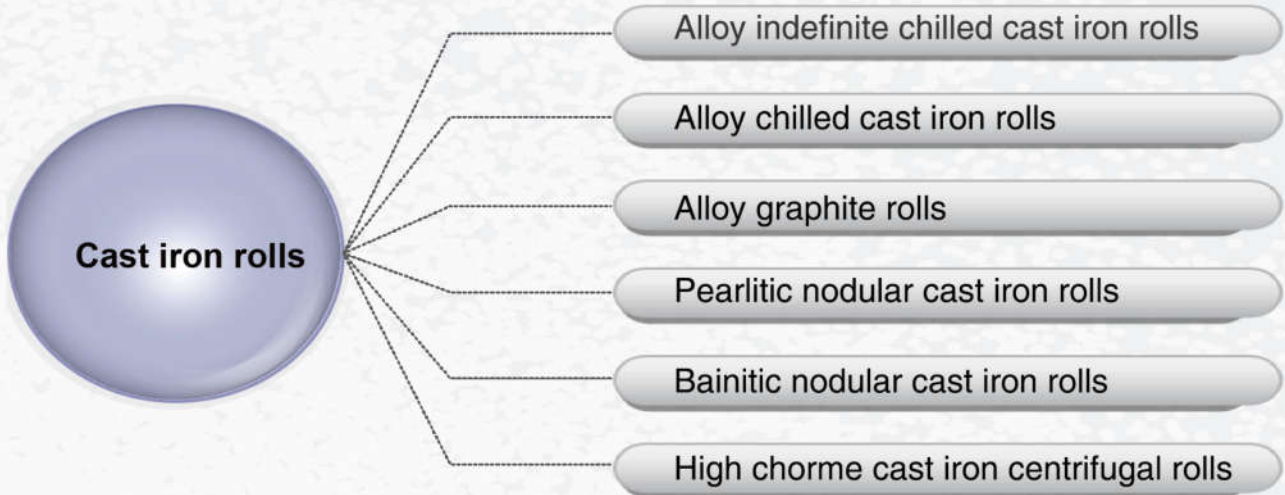


Products Display





Products Catalogue





Alloy Indefinite Chilled Cast Iron Rolls

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
AIC I	Ni CrMo	3.1-3.4	0.6-0.9	0.5-1.0	0.7-1.3	0.8-2.0	0.2-0.6
AIC II	Ni CrMo	3.1-3.4	0.6-1.0	0.5-1.0	0.7-1.5	2.1-3.0	0.2-0.6
AIC III	Ni CrMo	3.1-3.4	0.6-1.0	0.5-1.0	0.8-1.3	3.1-4.5	0.2-1.0
SAIC	Super AIC	3.1-3.4	0.8-1.3	0.5-1.0	1.2-2.0	3.5-4.5	0.3-1.0

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
AIC I	Ni CrMo	55-72HSD	35-55HSD	>160	Small steel, wire rods and finishing
AIC II	Ni CrMo	55-72HSD	35-55HSD	>160	Small steel, wire rods and finishing hot rolled plate, strip mill
AIC III	Ni CrMo	65-78HSD	35-55HSD	>350	Small steel, wire rods and finishing hot rolled sheets, strip finishing mill
SAIC	Super AIC	73-83HSD	35-55HSD	>350	Wire rod finishing hot rolled sheets, strip finishing mill

Roll diameter \leq 1400mm; Roll length \leq 4600mm

Alloy Chilled Cast Iron Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
CC I	NiCrMo Chilled cast iron roll I	3.00-3.40	0.30-0.80	0.20-1.00	0.20-0.60	0.50-1.00	0.20-0.60
CC II	NiCrMo Chilled cast iron roll II	3.00-3.40	0.30-0.80	0.20-1.00	0.30-1.20	1.10-2.00	0.20-0.60
CCIII	NiCrMo Chilled cast iron roll III	3.00-3.40	0.30-0.80	0.20-1.00	0.50-1.50	2.10-3.00	0.20-0.60
CCIV	NiCrMo Chilled cast iron roll IV	3.00-3.40	0.30-0.80	0.20-1.00	0.50-1.70	3.10-4.00	0.20-0.60

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
CC I	NiCrMo Chilled cast iron roll I	60-70 HSD	32-50 HSD	> 150	Profile material, Rods and bars, Wire rod rolling mill and narrow strip steel rolling mill finishing stand
CC II	NiCrMo Chilled cast iron roll II	62-75 HSD	35-52 HSD	> 150	
CCIII	NiCrMo Chilled cast iron roll III	65-80 HSD	32-45 HSD	> 350	
CCIV	NiCrMo Chilled cast iron roll IV	70-85 HSD	32-45 HSD	> 350	

Roll diameter \leq 500mm; Roll length \leq 1000mm

Alloy Graphite Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo	Mg
SG II	CrMo indefinite chilled nodular cast iron roll	3.00-3.40	1.40-1.90	0.20-0.80	0.20-0.60		0.20-0.60	\geq 0.04
SGIV	CrMo indefinite chilled nodular cast iron roll I	3.00-3.40	1.40-1.90	0.40-0.80	0.20-0.60	0.50-1.00	0.20-0.60	\geq 0.04
SG V	CrMo indefinite chilled nodular cast iron roll II	3.00-3.40	1.40-1.90	0.40-0.80	0.30-1.00	1.10-2.00	0.20-0.60	\geq 0.04



Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
SG II	CrMo indefinite chilled nodular cast iron roll	50-70 HSD	35-55 HSD	> 320	Profile material, Rods and bars, Wire rod and narrow strip steel rolling mill set, Intermediate rolling stand
SGIV	CrMo indefinite chilled nodular cast iron roll I	55-70 HSD	35-55 HSD	> 320	
SG V	CrMo indefinite chilled nodular cast iron roll II	60-70 HSD	35-55 HSD	> 320	

Roll diameter \leq 1500mm; Roll length \leq 3000mm

Pearlitic Nodular Cast Iron Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo	Mg
SGP I	Pearlitic nodular cast iron roll I	3.00-3.40	1.40-1.90	0.40-0.80	0.20-0.60	1.50-2.00	0.20-0.60	\geq 0.04
SGP II	Pearlitic nodular cast iron roll II	3.00-3.40	1.20-2.00	0.40-0.80	0.20-1.00	2.01-2.50	0.20-0.60	\geq 0.04
SGP III	Pearlitic nodular cast iron roll III	3.00-3.40	1.00-2.00	0.40-0.80	0.20-1.20	2.51-3.00	0.20-0.60	\geq 0.04

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
SGP I	Pearlitic nodular cast iron roll I	45-55 HSD	35-55 HSD	> 450	Profile material, Rods and bars, Wire rod and narrow strip steel rolling mill set, Intermediate rolling stand
SGP II	Pearlitic nodular cast iron roll II	55-65 HSD	35-55 HSD	> 450	
SGP III	Pearlitic nodular cast iron roll III	62-72 HSD	35-55 HSD	> 450	

Roll diameter \leq 1500mm; Roll length \leq 3000mm

Bainitic Nodular Cast Iron Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo	Mg
SGA I	Bainitic nodular centrifugal compound cast iron roll I	3.00-3.40	1.20-2.20	0.40-0.80	0.20-0.80	3.01-3.50	0.50-1.00	\geq 0.04
SGA II	Bainitic nodular centrifugal compound cast iron roll II	3.00-3.40	1.00-2.00	0.40-0.80	0.20-1.00	3.51-4.50	0.50-1.00	\geq 0.04

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
SGA I	Bainitic nodular centrifugal compound cast iron roll I	55-78 HSD	32-45 HSD	> 350	Profile material, Rods and bars, Wire rolling mill rough rolling, Intermediate rolling, Pre-finishing mill stand, Seamless steel tube tandem mill reducing-sizing stand
SGA II	Bainitic nodular centrifugal compound cast iron roll II	60-80 HSD	32-45 HSD	> 350	

Roll diameter \leq 1500mm; Roll length \leq 3000mm



High Chrome Cast Iron Centrifugal Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
HCr I	High Chrome cast iron centrifugal roll I	3.00-3.30	0.30-1.00	0.50-1.20	12.00-15.00	0.70-1.70	0.70-1.50
HCr II	High Chrome cast iron centrifugal roll II	3.00-3.30	0.30-1.00	0.50-1.20	15.01-18.00	0.70-1.70	0.70-1.50
HCrIII	High Chrome cast iron centrifugal roll III	3.00-3.30	0.30-1.00	0.50-1.20	18.01-22.00	0.70-1.70	1.51-3.00

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
HCr I	High Chrome cast iron centrifugal roll I	60-75 HSD	32-45 HSD	> 350	Profile material, Rods and bars, Wire rod rolling mill finishing stand, Hot strip tandem rolling rough rolling, Working roll in the front part of finishing rolling mill, Working roll for wide/mid-thick plate rolling mill
HCr II	High Chrome cast iron centrifugal roll II	65-80 HSD	32-45 HSD	> 350	
HCrIII	High Chrome cast iron centrifugal roll III	75-90 HSD	32-45 HSD	> 350	

Roll diameter \leq 1500mm; Roll length \leq 4300mm

Alloy Cast Steel Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
AS60	60CMoMn	0.55-0.65	0.20-0.45	0.90-1.20	0.80-1.20		0.20-0.45
AS60 I	60CrNiMnMo	0.55-0.65	0.20-0.60	0.60-2.00	1.40-2.20	Max.0.6	0.30-0.60
AS65 I	65CrNiMo	0.60-0.70	0.20-0.60	0.50-0.80	0.18-1.20	0.20-0.50	0.20-0.45
AS70	70Mn	0.65-0.75	0.20-0.45	0.80-1.40			
AS70 I	70Mn2	0.65-0.75	0.20-0.45	1.40-1.80			
AS70 II	70Mn2Mo	0.65-0.75	0.20-0.45	1.40-1.80	-		0.20-0.45
AS75	75CrMo	0.70-0.80	0.20-0.45	0.60-0.90	0.75-1.00	-	0.20-0.60
AS75 I	75CrNiMnMo	0.70-0.80	0.20-0.70	0.70-1.10	0.80-1.50	0.20-0.80	0.20-0.60
AS75 II	75Cr3NiMo	0.70-0.80	0.20-0.60	0.70-1.10	1.50-3.60	0.40-1.00	0.20-0.80

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
AS60	60CMoMn	35-50 HSD	Max.45HSD	>650	Rods and bars, Wire material, Strip steel, Plate strip, Profile steel rough rolling
AS60 I	60CrNiMnMo	35-45.55HSD	Max.45HSD	>700	
AS65 I	65CrNiMo	35-45 HSD	Max.45HSD	>750	
AS70	70Mn	32-42 HSD	Max.45HSD	>650	
AS70 I	70Mn2	35-45 HSD	Max.45HSD	>680	
AS70 II	70Mn2Mo	35-45 HSD	Max.45HSD	>700	
AS75	75CrMo	35-50 HSD	Max.45HSD	>700	Rods and bars, Wire material, Strip steel, Plate strip, Profile steel rough rolling, Narrow strip steel support roll
AS75 I	75CrNiMnMo	35-50 HSD	Max.45HSD	>800	Rods and bars, Wire material, Strip steel, Plate strip, Profile steel rough rolling, Narrow strip steel support roll
AS75 II	75Cr3NiMo	35-50 HSD	Max.45HSD	>800	

Roll diameter \leq 1500mm; Roll length \leq 3000mm



Adamite Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
AD140 I	B140CrNiMo	1.30-1.50	0.30-0.60	0.70-1.10	0.80-1.20	0.50-1.20	0.20-0.60
AD160 I	B160CrNiMo	1.50-1.70	0.30-0.60	0.80-1.30	0.80-2.00	≥0.20	0.20-0.60
AD180	B180CrNiMo	1.70-1.90	0.30-0.80	0.60-1.10	0.80-1.50	0.20-2.00	0.20-0.60
AD190	B190CrNiMo	1.80-2.00	0.30-0.80	0.60-1.20	1.50-3.50	1.00-2.00	0.20-0.50
AD200	B200CrNiMo	1.90-2.10	0.30-0.80	0.80-1.20	0.60-2.00	0.60-2.50	0.20-0.80

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
AD140 I	B140CrNiMo	35-50 HSD	Max.60HSD	500-800	Rods and bars, Wire material, Profile steel, Plate strip rough rolling, Vertical Roll
AD160 I	B160CrNiMo	40-60HSD	Max.50HSD	500-800	
AD180	B180CrNiMo	45-60 HSD	Max.50HSD	450-700	Rods and bars, Wire material, Profile steel, Plate strip rough intermediate rolling, Vertical Roll, Roll collar, Support roll
AD190	B190CrNiMo	50-65 HSD	Max.50HSD	450-700	
AD200	B200CrNiMo	50-65 HSD	Max.50HSD	450-700	

Roll diameter ≤ 1800mm; Roll length ≤ 3000mm

Graphite Steel Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
GS140	S140CrNiMo	1.30-1.50	1.30-1.60	0.50-0.80	0.40-0.70		0.20-0.50
GS160	S160CrNiMo	1.50-1.70	0.80-1.50	0.60-1.00	0.50-1.50	0.20-1.00	0.20-0.80
GS190	S190CrNiMo	1.80-2.00	0.80-1.50	0.60-1.00	0.50-2.00	0.60-2.2.	0.20-0.80

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
GS140	S140CrNiMo	36-46 HSD	Max.46 HSD	≥540	Intermediate-small-sized profile steel, Rod wire rough rolling mill, Hot-rolling strip steel shaping roll, Roller cover of universal rolling mill
GS160	S160CrNiMo	45-55 HSD	Max.50 HSD	≥500	
GS190	S190CrNiMo	50-65 HSD	Max.50 HSD	≥450	

Roll diameter ≤ 1800mm; Roll length ≤ 3000mm

High Chrome Steel Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
CS	HCrS	1.00-1.80	0.40-1.00	0.50-1.00	8.00-15.00	0.50-1.50	1.50-4.50

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
CS	HCrS	70-85 HSD	35-45 HSD	≥450	Hot-rolling strip steel rough rolling, Working roll in the front part of finishing rolling mill, Working roll for wide/mid-thickness rolling mill, Mill roll of universal rolling mill for profile steel

Roll diameter ≤ 1500mm; Roll length ≤ 4300mm



High-speed Steel Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo	V	W
HSS	HSS	1.50-2.20	0.30-1.00	0.40-1.20	3.00-8.00	0.00-1.50	2.00-8.00	2.00-9.00	0.00-2.00
S-HSS	S-HSS	0.60-1.20	0.80-1.50	0.50-1.00	3.00-9.00	0.20-1.20	2.00-5.00	0.40-3.00	0.00-3.00

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
HSS	HSS	75-95 HSD	30-45 HSD	400-500	Rolled strip, Bar finishing roller, High-speed wire pre-finishing, Steel roller universal rolling mill, wide plate mill work rolls
S-HSS	S-HSS	75-98 HSD	30-45 HSD	400-500	Rough rolling hot strip mill work rolls, Cold rolled strip steel work roll, Intermediate roll

Roll diameter \leq 1000mm; Roll length \leq 3000mm

Forged Steel Roll

Name	Material	Hardness	Depth of quenching	Uniformity of hardness
Working Roll	2%Cr,3%Cr,5%Cr	70-104HSD	10-50mm	+/-1 HSD
Intermediate Roll	2%Cr,3%Cr,5%Cr,SSH	70-85HSD	10-50mm	+/-1 HSD
Back-up Roll	9Cr2Mo,86CrMoV7,70Cr3Mo,45Cr5NiMoV	60-80HSD	10-75mm	+/-1.5 HSD

Coupling Spindle

The universal coupling shaft is used to connect driving shaft and driven shaft of two different mechanisms, so that torque could be transferred.

Universal Joint Shaft (Universal Coupling) is used as the main transmission connecting shaft for the main transmission of hot continuous rolling rough mill, large section steel rolling mill, punching machine, medium width plate mill, steckel mill and other heavy machinery.





Mandrel bars

When rolling seamless tubes, a pre-pierced steel billet is rolled over a mandrel bar by grooved rolls in a stretch reducing rolling process to produce a tube or a tube blank. The mandrel bar determines the shape of the inner tube surface.

By cooperating with Chinese domestic leading manufacturers, we provide mandrel bars made of general-purpose hot work steels and special steel grades. Tailored to the different tube rolling methods and designed to suit the individual stresses.

We supply mandrel bars with max. diameter 350mm and length 17500mm.

Our biggest advantages:

1. Competitive price with superior product quality
2. Cost effective
3. Considerate after-sales services



Gear Shafts

Gear shaft is a mechanical part which support rotating parts for passing movement , torque and flexural moment.

Production standard: DIN 3972,DIN867 Standard.

Material: According to customers' requirement.





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