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POSCO AAPC_ INDIANA PLANT

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JEENPUNG INDUSTRIAL

The best special steel company dynamically and creatively!



JPSTEEL
전통산업주식회사

CEO GREETING



JEENPUNG INDUSTRIAL Co.,Ltd. , Since its foundation in 1982, has supplied a raw material like C.H.Q WIRE and CD-BAR to domestic and overseas major industries for 35 years and also specialized In wire rods producing C.H.Q WIRE ROD and COLD DRAWN BAR, through the Quality innovation and Tech' Development, JP STEEL has contributed to domestic and overseas automobile, construction, machinery industries.

WIRE ROD and COLD DRAWN BAR produced by JEENPUNG INDUSTRIAL Co.,Ltd. that are compliance and meet strict requirements of IATF16949 quality management system. Our company has 100,000 tons of production capacities a year.

JEENPUNG INDUSTRIAL Co.,Ltd. has prepared to jump up next steps and keep focus on overseas market. In 2017 POSCO AAPC INDIANA PLANT in The U.S found via POSCO investment as the Joint venture company that has laid foundation for Global business and future leap.

Base on this, JEENPUNG INDUSTRIAL Co.,Ltd. will create new overseas demand by reflecting customer needs from all over the world and grow as a global company specializing in WIRE RODS. the bright future of JEENPUNG INDUSTRIAL Co.,Ltd. Is always our customers and we make promise to be the best company that thinks customer's values thorough endless effort and innovation.

JEENPUNG INDUSTRIAL Co.,Ltd.
Lee sungwoo (CEO)



진풍산업(주)는 1982년 선재 사업 시작한 이래 35년 동안 국·내외 기간산업의 원료로 사용되는 냉간압조용 철선(C.H.Q Wire), 마봉강(cd-bar)을 생산하는 선재 전문기업으로 끊임없는 품질 혁신과 기술개발을 통한 국내외 자동차 산업, 건설 산업, 산업기계 산업의 성장 발전에 기여하고 있습니다.

진풍산업(주)의 냉간압조용 철선(C.H.Q Wire), 마봉강 (CD-Bar)의 선재 생산 제품은 세계최고의 품질 인증 업체인 국제자동차표준기구(IATF)의 자동차 관련 국제품질인증인 IATF 16949의 엄격한 규정을 준수하며 제품 생산하고 있으며, 연간 약 100,000톤 규모의 생산 능력을 갖추고 있습니다.

우리는 새로운 도약을 준비하고 있습니다. 국내 수요의 한계로 국내시장을 넘어 해외 시장 진출에 많은 역량을 집중할 것입니다. 2017년 포스코의 지분 투자를 받았으며, 미국 현지에 포스코와 합작으로 AAPC 2공장을 준공하여 미래 도약을 위한 Global 사업화의 기초를 마련하였습니다.

이를 바탕으로 세계 각지의 고객 니즈를 반영하여 해외 신규 수요를 창출하는 Global 선재 전문 기업으로 성장해 나갈 것입니다. 진풍산업(주)의 밝은 미래는 항상 고객 여러분이며, 끊임없는 노력과 혁신을 통한 고객의 가치를 최고로 생각하는 기업이 될것을 약속 드립니다.

진풍산업(주)
대표이사 이 성 우



COMPANY

JEENPUNG INDUSTRIAL Co., Ltd.

Always Keep promise to provide

The best quality and service

Vision

Go forward to be global wire rod company with the best quality competitiveness.

Business Policy

Expansion of the best global market

Product competitiveness

Mutual growth with customer

Proactive customer service

Quality Policy

Customer impression from quality

Continuous improvement of quality competitiveness

Strict quality certification compliance

Maintain the smart working environment

History

2000's

- 2018 02** IATF 16946:2016 Certificates acquired (Q.M.S transferred)
- 2017 09** POSCO AAPC 2nd Plant established (POSCO joint venture)
- 2016 12** ISO/TS 16949:2009 Quality Certification acquired
- 2014 11** The Batch RAL type Furnace (S.T.C #5) completed
- 2010 03** Install more Combined Drawing machine
- 2008 10** Extension of Combined Drawing machine
- 07** Extension of Drawing machine
- 03** Join in Material bank Cooperating Companies consortium KIMM
- 2007 03** Technological innovation certificates acquired
- 2006 11** Management innovation certificates acquired
- 03** Awarded The Prime minister's Prize
- 02** The Batch RAL type Furnace (S.T.C #4) completed
- 2005 11** Attainment of Export 3 million dollars
- 06** The components & Material Company Certificated acquired
- 2004 04** The Batch RAL type Furnace (S.T.C #3) completed
- 2003 09** Construction of 2nd manufacturing site completed
- 2002 10** The Great promising company certificated acquired
- 2001 12** ISO 9001 : 2000 Quality Certificated acquired
- 2000 05** The Batch RAL type Furnace (S.T.C #2) completed

1990's

- 1996 07** The Batch RAL type Furnace (S.T.C #1) completed
- 1993 01** Construction of 1st manufacturing site completed

1980's

- 1986 05** JEENPUNG INDUSTRIAL Co., Ltd. Found
- 1982 09** JEENPUNG INC Found

Patent



Tower of export



IATF 16949 Certificate

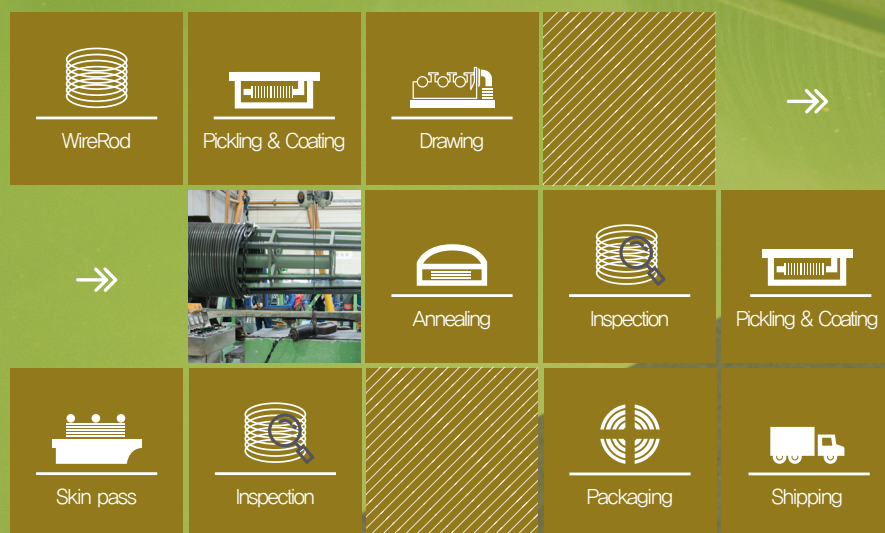


INNO-BIZ certificate

PRODUCT

Cold Heading Quality Wire

Previously To make Bolt, Nut, Screw and fasteners were applied with hot forging and machining but Currently aim to improve machining process by automating, high speed productivity and increase precision that is applied to cold forging and normal forging at industry area. So C.H.Q wire could be forged at room temp' condition and is ensured that it obtain good work ability and good surface. The Strict quality condition is required as micro structure, defect, dimension and surface condition.



Manufacturing Processes

Cold Heading Quality Wire



WIRE ROD



HEAT TREATMENT



PICKING & COATING



DRAWING / SKIN PASS



INSPECTION



PACKAGING

HD	W/R	PC	SKP						
(S)AIP	W/R	PC	SA	PC	SKP				
SAIP	W/R	PC	D	SA	PC	SKP			
PASAIP	W/R	PC	PA	PC	D	SA	PC	SKP	
PSASAIP	W/R	PC	D	PSA	PC	D	SA	PC	SKP

W/R : Wire Rod

PC : Pickling and Coating

D : Wire Drawing

PA : Pre-Annealing

PSA : Pre-Spheroidized Annealing

S A : Spheroidized Annealing

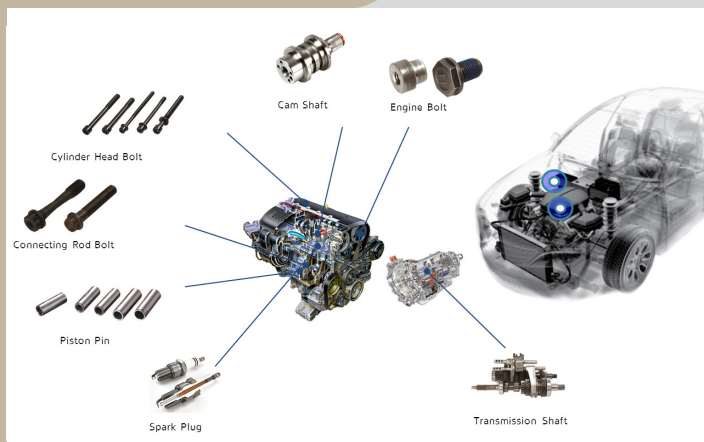
SKP : Skin Pass



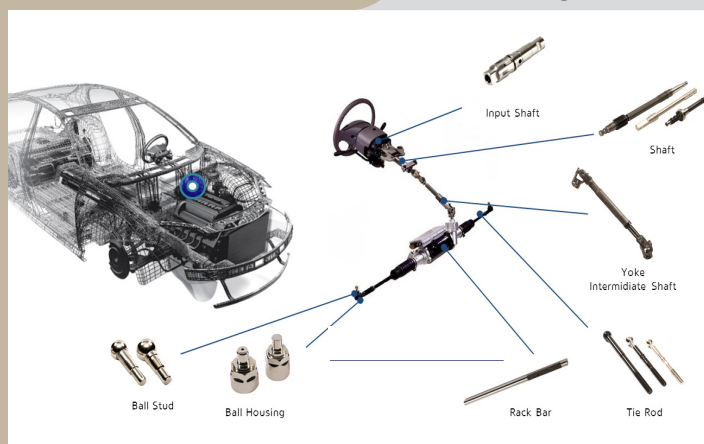
C.H.Q Wire Application

TYPE	STEEL GRADE	APPLICATION ITEMS
CARBON STEEL	SWCH-A, SWCH-K(F)	BOLT, NUT, SCREW
BORON STEEL	SAE10B21, SAE51B20, POSA1021B, POSA5120BH	SAFETY BELT SHAFT, AUTOMOTIVE BOLT, CONSTRUCTION BOLT
Cr-Mo STEEL	SCM415(H), SCM420(H), SCM435(H), SCM440H	A BOLT , RETAINER, PISTON PIN RELATED
BEARING STEEL	SUJ2, SAE52100	AUTOMOTIVE BEARING (WHEEL,NIDDLE) INDUSTRIAL BEARING

Engine / Transmission



Steering mechanism



EQUIPMENT & PRODUCTION CAPACITY

EQUIPMENT	CAPACITY (TON/YEAR)	QUANTITY	SIZE
DRAWING MACHINE	100,000	10	2.0~40.0mm
ANNEALING FURNACE	40,000	5	—
PICKLING & COATING	64,000	2	—

TOLERANCE ON DIAMETER AND OVALITY

DIAMETER (mm)	TOLERANCE (mm)	OVALITY (mm)
3 under	+ 0 / -0.025	0.013 Max
3-6 under	+ 0 / -0.030	0.015 Max
6-10 under	+ 0 / -0.036	0.018 Max
10-18 under	+ 0 / -0.043	0.022 Max
Over 18	+ 0 / -0.052	0.026 Max

PACKAGING DIMENSION ON DIAMETER

WIRE ROD DIAMETER (mm)	INNER DIAMETER (mm)	OUTER DIAMETER (mm)
22.01 ~ 40.0mm	1,000 ~ 1,200	1,650 ~ 1,700
14.0 ~ 22.0mm	1,000 ~ 1,100	1,550 ~ 1,700
6.5 ~ 13.99mm	900 ~ 1,000	1,350 ~ 1,600
5.01 ~ 6.49mm	820 ~ 900	1,200 ~ 1,600
2.0 ~ 5.0mm	500 ~ 550	920 ~ 950

PRODUCT

CD-BAR (Cold Drawn Bar)

CD-BAR is the material that is produced by cold drawing in the form of circular, Hexagonal, square and irregular shapes and get regular diameter as normally suitable as machining, grinding and polishing. It is a product for advanced use That is produced for the purpose of machining and polishing to give good surface roughness and straightness by cutting to a certain length.



Manufacturing Processes

Cold Drawn Bar



W/R : Wire Rod
S : Shot Blaster
P : Pickling
CD : Cold Drawing
SA : Spheroidized Annealing
RA : Regular Annealing

CD	W/R	S	CD			
RCD	W/R	RA	S	CD		
SCD	W/R	SA	S	CD		
SWSCD	W/R	P	D	SA	S	CD



WIRE ROD



SHOT BLAST



DRAWING



CUTTING



2 ROLL STRAIGHTNESS



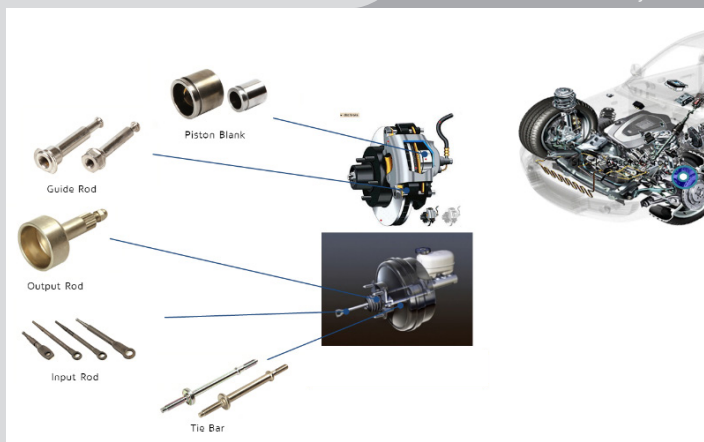
INSPECTION

CD Bar Application

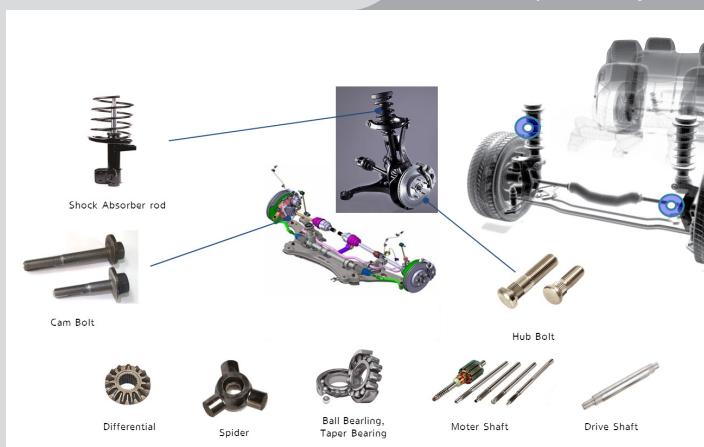
TYPE	STEEL GRADE	APPLICATION ITEMS
CARBON STEEL	SXXC, SWCH-A, SWCH-K(F)	MOTOR SHAFT, RACK BAR, HOME APPLIANCE
Cr-Mo STEEL	SCM415(H), SCM440H	BOLTS, RETAINER, PISTON PIN
BEARING STEEL	SUJ2, SAE52100	AUTOMOTIVE BEARING (WHEEL,NIDDLE) INDUSTRIAL BEARING



Brake system



Drive suspension system



EQUIPMENT & PRODUCTION CAPACITY

EQUIPMENT	CAPACITY (TON/YEAR)	QUANTITY	SIZE	TYPE	LENGTH (mm)	LENGTH TOLERANCE (mm)
COMBINED DRAWING M/C TYPE 1D	4,500	1	11.0~20.0 mm	ROUND	2,000 ~ 6,000	- 0 / + 40
COMBINED DRAWING M/C TYPE 1B	2,500	1	6.0~13.0 mm	SQUARE	2,000 ~ 6,000	- 0 / + 40
				HEXAGONAL	2,000 ~ 6,000	- 0 / + 40

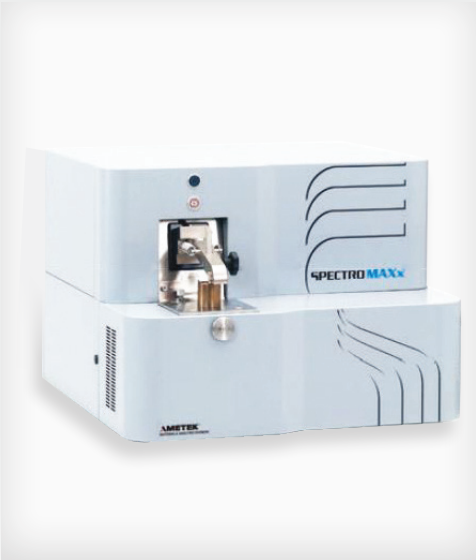
TOLERANCE ON DIMENSION

GRADE OF TOLERANCE DIAMETER (mm)	GRADE 8 (h8)	GRADE 9 (h9)	GRADE 10 (h10)	GRADE 11 (h11)	GRADE 12 (h12)
6.0 ~ 10.0	0 ~ - 0.022	0 ~ - 0.036	0 ~ - 0.058	0 ~ - 0.09	0 ~ - 0.15
10.01 ~ 18.0	0 ~ - 0.027	0 ~ - 0.043	0 ~ - 0.07	0 ~ - 0.11	0 ~ - 0.18
18.01 ~ 21.0	0 ~ - 0.033	0 ~ - 0.052	0 ~ - 0.084	0 ~ - 0.13	0 ~ - 0.21



Experiment Equipment

ITEM	SPECIFICATION	QUANTITY
Universal Tensile Machine	50,000 kg	1
	30,000 kg	1
	5,000 kg	1
Hardness Tester	Rockwell	3
Optical Micro Scope	1000 magnification	2
Electronic Furnace	Max 1000 °C	1
Potable M.P.I	—	1
Spectrometer	—	1



POSCO AAPC_ INDIANA PLANT



DRAWING



HEAT TREATMENT



PICKLING & COATING

EQUIPMENT & PRODCUTION CAPACITY

EQUIPMENT	CAPACITY(TON/YEAR)	QUANTITY	SIZE
DRAWING MACHINE	40,000	4	5.0 ~ 30.0mm
ANNEALING FURNACE	25,000	2	—
PICKLING & COATING	50,000	1	—

PACKAGING DIMENSION ON DIAMETER

WIRE ROD DIAMTER (mm)	INNER DIAMETER (mm)	OUTER DIAMTER (mm)
18.0 ~ 30.0mm	900 ~ 950	1,600 ~ 1,650
10.0 ~ 20.0mm	850 ~ 900	1,550 ~ 1,600
6.0 ~ 12.0mm	750 ~ 800	1,300 ~ 1,350
4.0 ~ 8.0mm	700 ~ 750	1,250 ~ 1,300