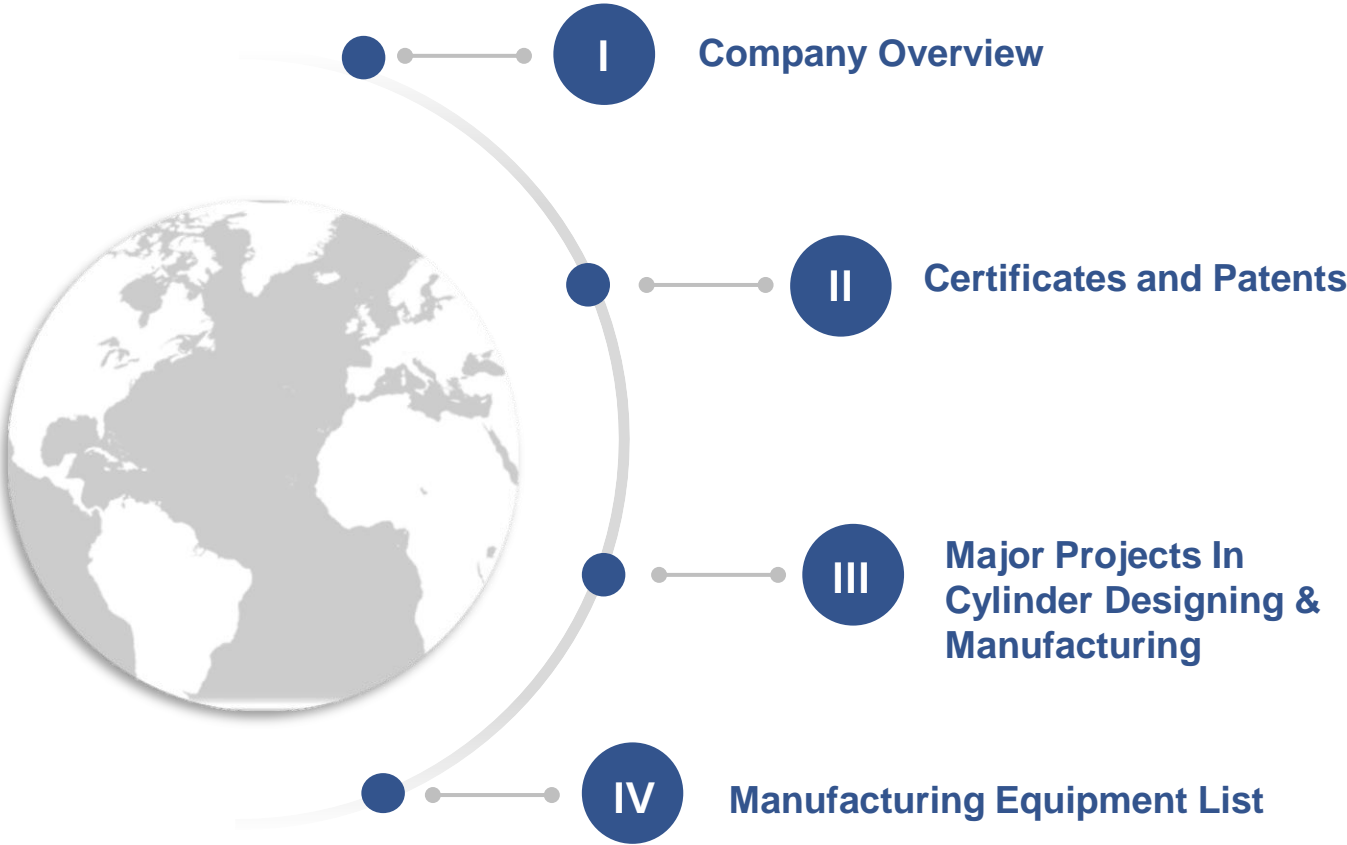




Hydraulic and Pneumatic Cylinders for Mills and Press Manufacturers

Contents



I. Company Overview



Production Facility

**Gimhae City,
Gyeongsang Province,
South Korea**



**Founded
2014**

Production Facilities

**ISO 9001 // ISO14001
4,810 m² Site
3,544m² Plant**

Main Business & Applications

- **Design and Manufacturing of Hydraulic and Pneumatic Cylinders**
- **Design and Manufacturing of Hydraulic Units**

II. Certificates & Patents



III. Cylinder Manufacturing and Design

Industrial Cylinders – Design and Manufacturing



Boom Cylinder

Bore Size	Φ 700mm
Rod Diameter	Φ 360mm
Stroke Length	4,155mm
Working Pressure	32MPa
Client	Korea East-West Power Company
Equipment	Continuous Ship Unloader (CSU)
Industry	Coal Power Plant

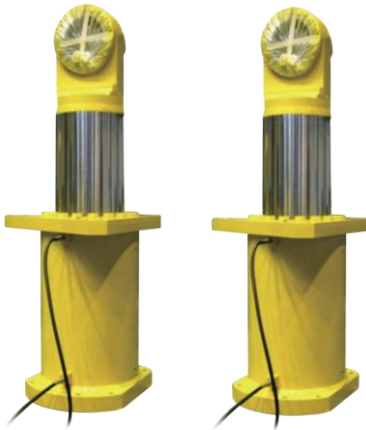
Welded Cylinder

Bore Size	Φ 250mm
Rod Diameter	Φ 140mm
Stroke Length	410mm
Working Pressure	21MPa
Client	POSCO Steel
Equipment	Coil Car
Industry	Steel Mill



III. Cylinder Manufacturing and Design

Industrial Cylinders – Design and Manufacturing



800-Ton Jack Cylinder

Bore Size	Φ 650mm
Rod Diameter	Φ 590mm
Stroke Length	800mm
Working Pressure	34MPa
Client	Busan-Geoje FixedLink
Industry	Civil Infrastructure Offshore Construction

Clamp Cylinder

Bore Size	Φ 350mm
Rod Diameter	Φ 200mm
Stroke Length	230mm
Working Pressure	20MPa
Client	POSCO Steel
Industry	Steel Mill



3-Stage Telescopic Cylinder

Bore Size	Φ 300mm
Rod Diameter	Φ270, Φ180, Φ100mm
Stroke Length	1000mm × 3
Working Pressure	14MPa
Client	Zhangjiagang Plant
Industry	Coal Power Generation

III. Cylinder Manufacturing and Design

Industrial Cylinders – Design and Manufacturing



Counterbalance Pneumatic Cylinder

Bore Size	Φ 1,117mm
Rod Diameter	Φ 120mm
Stroke Length	1,277mm
Working Pressure	0.8MPa
Client	IHI Corporation
Equipment	Press Machine
Industry	Heavy Equipment for Energy, Offshore, Aerospace, Defense

Counterbalance Pneumatic Cylinder

Bore Size	Φ 650mm
Rod Diameter	Φ 100mm
Stroke Length	2,500mm
Working Pressure	0.7MPa
Client	Hyundai Heavy Industries
Equipment	Press Machine
Industry	Shipbuilding & Marine Engineering



III. Cylinder Manufacturing and Design

Industrial Cylinders – Design and Manufacturing

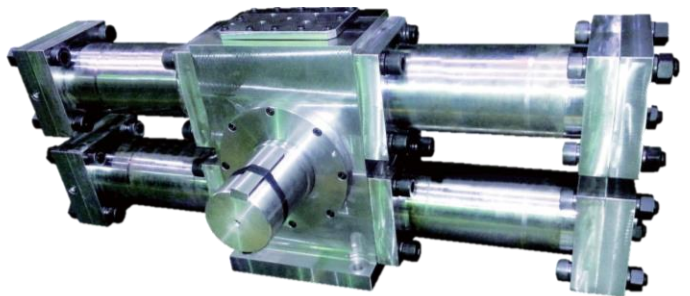


Hydraulic Rotary Actuator

Bore Size	Φ 300mm
Rod Diameter	Φ 112mm
Stroke Length	175mm
Line Speed	300m/min
Rotation Speed	852 RPM
Working Pressure	10MPa
Client	POSCO Steel
Equipment	Uncoilers & Recoilers
Industry	Steel Mill

Rack-and-Pinion Hydraulic Rotary Actuator

Bore Size	Φ 380mm
Rod Diameter	Φ 190mm
Stroke Length	790mm
Rotation	180°
Working Pressure	21MPa
Client	POSCO Steel
Industry	Steel Mill



III. Cylinder Manufacturing and Design

Industrial Cylinders – Design and Manufacturing



Mold Oscillating Cylinder (Pusher Cylinder)

Bore Size	Φ 380mm
Rod Diameter	Φ 280mm
Stroke Length	750mm
Working Pressure	14MPa
Client	Khouzestan Steel Company
Equipment	Continuous Casting Machine (CCM)
Industry	Steel Mill

Ladle Turret Cylinder

Bore Size	Φ 865mm
Rod Diameter	Φ 800mm
Stroke Length	840mm
Working Pressure	2MPa
Client	POSCO Steel
Equipment	Molten Steel Ladle
Industry	Steel Mill



III. Cylinder Manufacturing and Design

Industrial Cylinders – Design and Manufacturing

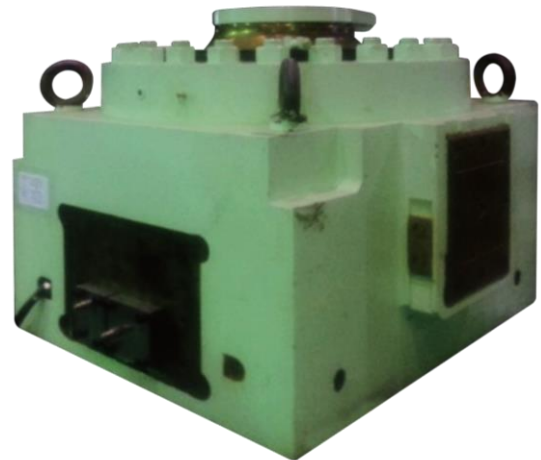


Temper Mill Push-Up Cylinder

Bore Size	Φ 640mm
Rod Diameter	Φ 530mm
Stroke Length	225mm
Working Pressure	24.5MPa
Client	JFE Steel Corporation
Equipment	Temper Mill Rolling Line
Industry	Steel Mill

Automatic Gauge Control (AGC) Cylinder

Bore Size	Φ 1,050mm
Rod Diameter	Φ 900mm
Stroke Length	310mm
Working Pressure	31MPa
Client	Hyundai Steel
Equipment	Hot Rolling Line
Industry	Steel Mill



III. Cylinder Manufacturing and Design

Cylinder Manufacturing Sample Projects 2014-2020

No	Equipment / Specification	Qty
1	GUILLOTINE PRESS MAIN CYLINDER	28 Sets
2	SCRAP PRESS CYLINDER	19 Sets
3	VARIOUS PROJECTS for POSCO, KOREA	8 Sets
	CGL POT LIFTING CYLINDER (31.5" bore, 80" stroke)	
	CGL TEMPER MILL CYLINDER (9.8" bore, 236.2" stroke)	
	CGL ROLL FORCE CYLINDER (25.6" bore, 9.5" stroke)	
	FURNACE HYDRAULIC SYSTEM	
	CGL SPM ROLL FORCE CYLINDER	
	CGL DPM CYLINDER	
	SEGMENT CYLINDERS	
	GAPLESS CYLINDER	
4	HYDRAULIC PRESS MAIN CYLINDERS	5 Sets
	600T PRESS MAIN CYLINDER for NEAGARI SHIBUYA	
	300T PRESS MAIN CYLINDER	
	60T PRESS MAIN CYLINDER	
	40T PRESS MAIN CYLINDER for NEAGARI SHIBUYA	
5	VARIOUS PROJECTS for CISCO/SPCO	4 Sets
	PUSH UP CYLINDER for FUKUYAMA PLANT	
	PUSH UP CYLINDER for KASHIMA PLANT	
	CSC COLD LEVELLER MAIN CYLINDER for TAIWAN	
	CSC COLD LEVELLER CROWNING CYLINDER for TAIWAN	
4	LIFTING CYLINDERS	4 Sets
	GC LIFT SPRING PRESS CYLINDER for NIPPON STEEL	
	HYD. CYL. for GC LIFTING SPRING for CHIYOTA JAPAN	

III. Cylinder Manufacturing and Design

Cylinder Manufacturing Sample Projects 2014-2020

No	Equipment / Specification	Qty
5	FORGING PRESS CYLINDERS	4 Sets
	4000KN CYLINDER FOR FORGING PRESS	
	1500KN CYLINDER FOR FORGING PRESS	
	300KN CYLINDER FOR FORGING PRESS	
	FORGING PRESS DIE SHIFT CYLINDER	
6	PLANT HYD CYLINDER (IRAN)	3 Sets
7	CUTTING CYLINDERS	2 Sets
	1250T CUTTING CYLINDER	
	800T CUTTING CYLINDER	
8	1000KN CYLINDER FOR CAULKING PRESS	2 Sets
9	BALANCE CYLINDERS	2 Sets
	39.4" BORE for IHI / TAIYO SHOJI	
	47.2" BORE for IHI / TAIYO SHOJI	
	BALANCE CYLINDER TUBE for NIPPON STEEL	
10	OSCILLATOR CYLINDER	2 Sets
11	CYLINDER MAINTENANCE for SEAH and HYUNDAI	2 Sets
12	CHOKE CYLINDER FOR ROCK CRUSHER for BUSUNG TECH, HONGKONG, SINGAPORE	2 Sets
13	HAGC CYLINDER for DONGUK	
14	PLANT WATER TEST HIGH PRESSURE CYL for HYUNDAI ROTEM	
15	NUCLEAR REACTOR STEAM GENERATOR GRIPPER for DOOSAN	
16	JACK CYLINDER for FLOATING DEVICE for DSME CHINA	
17	SHIP LIFT CYL for SAMHO / UNEX	
18	4-STAGE TELESCOPIC CYLINDER	

IV. Manufacturing Equipment and Tester List

EQUIPMENT	SPECIFICATIONS	Q'TY	MAKER
LATHE	Φ1200mm * 8000L	1	TAKISAWA
LATHE	Φ900mm * 6000L	1	HANKOOK MACHINE TOOLS CO., LTD
LATHE	Φ750mm * 4000L	1	HANKOOK MACHINE TOOLS CO., LTD
LATHE	Φ580mm * 1500L	1	Hwacheon
MILLING M/C	5 호기	1	DOOSAN
RADIAL M/C	DRD – 1500.2500	2	PAKA, BONGSHIN
TIG WELDER	WS-ADT (500S)	5	TAESHIN
CO2 & MAG WELDER	HIC - 500 S	10	SANGSHIN
OVER HEAD CRAIN	50T, 20T, 10T, 5T	10	DAEHEUNG
PAINT M/C	-	1	HASCO
MACHINE CENTER	1000L *1205L	1	KURAKI
CNC MILLING	7호기	1	MAKINO
HYD' CYL TEST	5 - 300 bar	1	SELF-PRODUCED
HYD' CYL TEST (WATER GLYCOL)	5 - 350 bar	1	SELF-PRODUCED
HYD' CYL TEST	5 - 600 bar	1	SELF-PRODUCED
LOAD TEST JIG	-	1	SELF-PRODUCED

IV. Manufacturing Equipment and Tester List

TESTER	SPECIFICATION	Q'TY	MAKER
MICROMETER	0 - 2000	16	MITUTOYO
MICROMETER	0 - 1500	1	MITUTOYO
CYLINDER GAUGE	10 - 1000	7	MITUTOYO
VERNIER CALIPERS	0 - 2000	10	MITUTOYO
DIGITAL VERNIER CALIPERS	0 - 250	1	MITUTOYO
DEPTH VERNIER CALIPERS	0 - 150	1	MITUTOYO
DIAL INDICATER	0 - 100	2	MITUTOYO
PRECISION SQUARE		1	MITUTOYO
PITCH GAUGE	0.5P – 8.0P	2	MITUTOYO
ROUND GAUGE	R1 – R20	1	GERMANY
PIN GAUGE	mm, inch	1	
SCREW GAUGE		1	
THICKNESS GAUGE		1	
CENTER GAUGE		1	
V - BLOCK	BM1-103-0	1	JAPAN
GAUGE	0 – 500mm	1	MITUTOYO
HEIGHT GAUGE	HNL – 11A	1	TIME
	0 – 1000	3	MITUTOYO



LPR GLOBAL

344 Bloor Street W, Suite 607, Toronto, ON Canada M5S 3A7

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Tel.: +1 416-423-5590

E-Mail: info@lprglobal.com

