

TECHNICAL POWER OF
KUNHWA



품질과 기술력으로 신뢰받는 기업

The company is trusted by product quality and technology

주식회사 건화 / Kunhwa Co., Ltd.

(631-822) 경상남도 마산시 진북면 망곡리 353번지

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SINCE 1993

항상 변함없는 고객 여러분께 감사 드리며, 저희는 끊임없는 경영혁신을 통한 고객 여러분의 가장 경쟁력 있는 파트너로서 함께 할 것을 다짐합니다.

By taking crisis into an innovation opportunity, I promise to share our competitive partnership through innovation in management and quality.

We'll pledge to do our best until the day we become the leader in this world of revolutions.

2000's history

- 2008.12 미국 John deere 거래선 등록
Company registration in u.s. John Deere Business partner
- 2008.11 두산엔진 거래선 등록
Company registration in Doosan Engine Business partner
- 2008.03 절단 10,000Ton/월 생산 돌파
passes 10,000Ton per month production mark for cutting
- 2007.04 SO 9001/14001, OHSAS 18001 인증 획득
Certified ISO 9001/14001, OHSAS 18001
- 2005.11 강재절단라인 통합생산관리 SYSTEM 구축
Establishes integrated production management system for steel cutting line
- 2003.11 볼보건설기계코리아(주) 중형굴삭기 수주 양산개시
Receives outsourcing from Volvo Construction Equipment Korea Co., Ltd. and begins production of heavy excavator.
- 2001.12 일본 IHI건기 CRANE용 CRAWLER&CAR
Begins production and supplement of CRAWLER & CAR BODY for IHI Construction Equipment (Japan).
- 2000.05 (주)건화기업 절단전문공장으로 업종전환
Changed types of business to Kunhwa enterprise Co., Ltd. exclusive severance factory
- 2000.03 CLARK사의 FORK LIFT FRAME 양산개시
Begins the production of fork lift frame, Clark Co., Ltd.
- 2000.02 일본 스미토모건기 ARM의 부품생산, 양산 공급개시
Produces sumitomo Heavy industries Co., Ltd. arm & components and begins mass production & supplement

1990's history

- 1996.03 대우중공업 굴삭기 부품 생산개시
Begins production of excavator parts for Daewoo Heavy industries Co., Ltd.
- 1994.09 삼성중공업 소형굴삭기(MX3 SERIES 생산개시)
Begins production of small excavator (MX3 series) for Samsung Heavy industries Co., Ltd.
- 1993.06 주식회사 건화기계공업 법인설립
Kunhwa machinery Co., Ltd. established
- 1993.02 주식회사 건화기업 법인설립
Kunhwa Enterprise Co., Ltd. established



기술경쟁력

지속적인 인재육성과 연구개발을 통한 기술 경쟁력 확보

The competitive power of technology will be secured by continuous talent scout and research development

제품경쟁력

철저한 환경대응으로 최고의 경쟁력 있는 제품 생산

The best competitive products will be made by dealing with complete environments

회사경쟁력

최고의 제품생산으로 고객만족을 통한 회사 경쟁력 제고

The competitive power of company will be improved through the best products manufacturing

VISION CERTIFICATES

The trustworthy company, Kunhwa Co., ltd. will make the most competitive products.



▶ 품질경영시스템 ISO 9001

▶ Quality management system ISO 9001

▶ 환경경영시스템 ISO 14001

▶ Environmental management system ISO 14001



▶ 안전보건경영시스템 OHSAS 18001

▶ OHSAS 18001

PRODUCTS

Securing best competitiveness in the industry



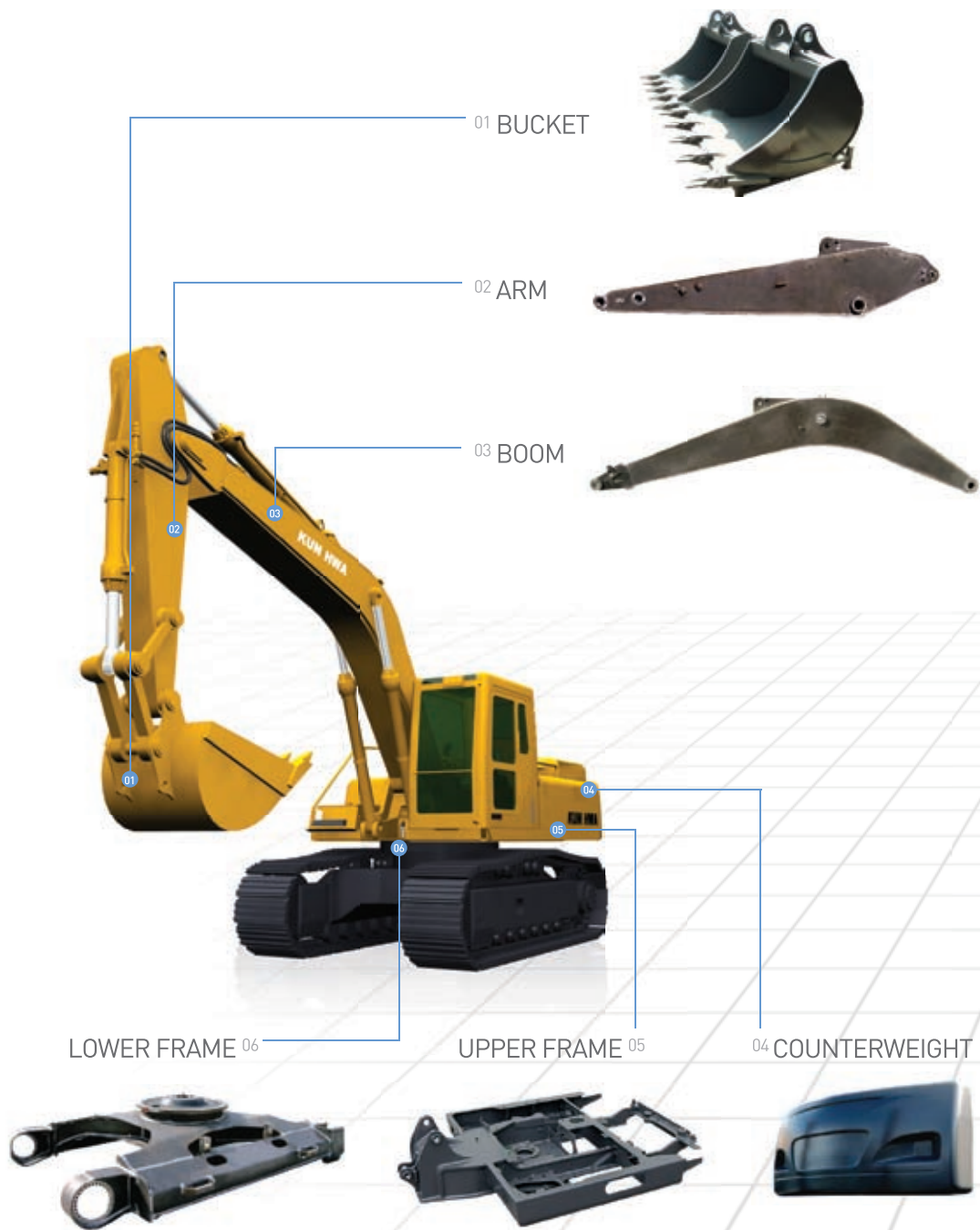
K / U / N / H / W / A

CONSTRUCTION EQUIPMENT

Excavator / 굴삭기

3 ~ 120TON EXCAVATOR PARTS

UPPER FRAME / LOWER FRAME / COUNTERWEIGHT /
BOOM / ARM / BUCKET / TRACK FRAME



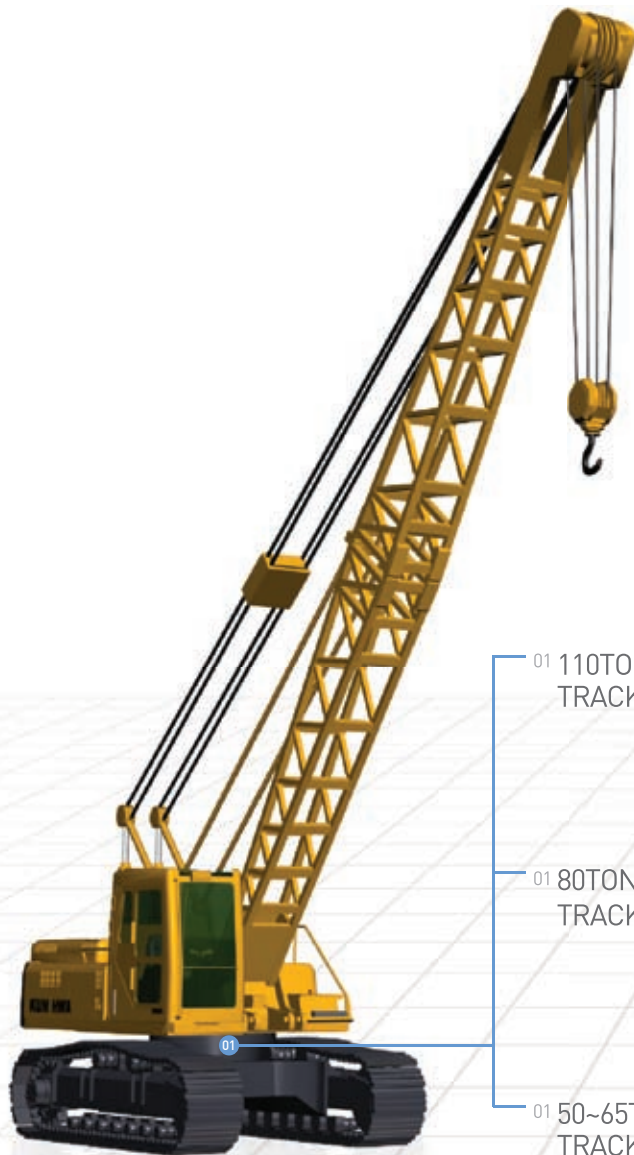
Forklift / 지게차

3 ~ 8TON FORKLIFT PARTS
FRAME / MAST / CARRIAGE / OVER HEAD GUARD



Crawler Crane / 크롤러 크레인

50 ~ 110TON CRANE PARTS
CRAWLER TRACK FRAME
(CAR BODY / CRAWLER)



01 110TON CRANE
TRACK FRAME



01 80TON CRANE
TRACK FRAME



01 50~65TON CRANE
TRACK FRAME



KUNHWA Products

INDUSTRIAL MACHINES

50 ~ 98MC VESSEL ENGINE PARTS
AIR-RECEIVER / GAS-RECEIVER / FRAME BOX

Vessel Engine / 선박엔진



FRAME BOX

AIR-RECEIVER

GAS-RECEIVER

INDUSTRIAL MACHINES

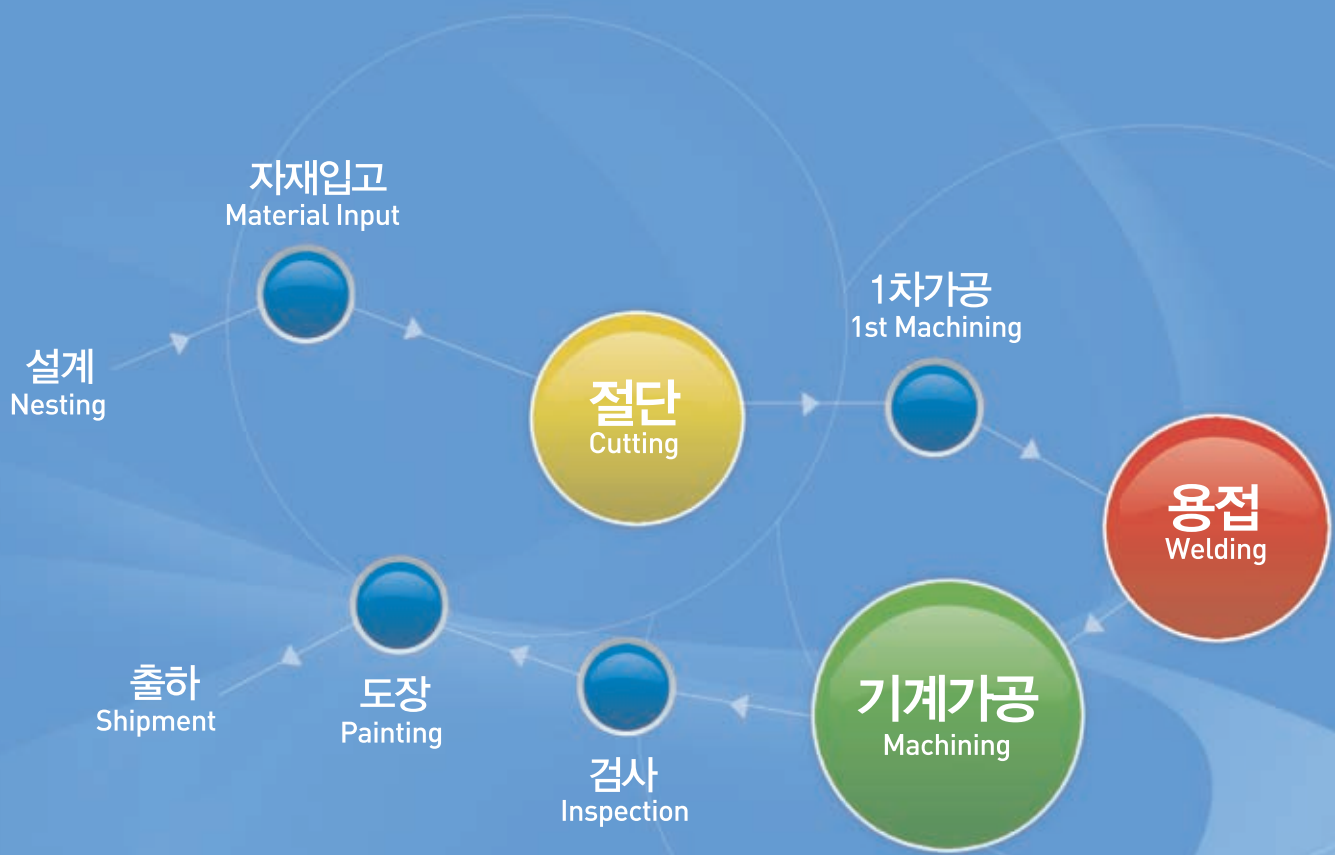
WINDMILL PARTS

Windmill / 풍력



세계가 주목하는 건설중장비의 풍부한 경험과 경쟁력
Internationally recognized competitiveness and rich experience on construction equipments

Technical Process



PROCESS I

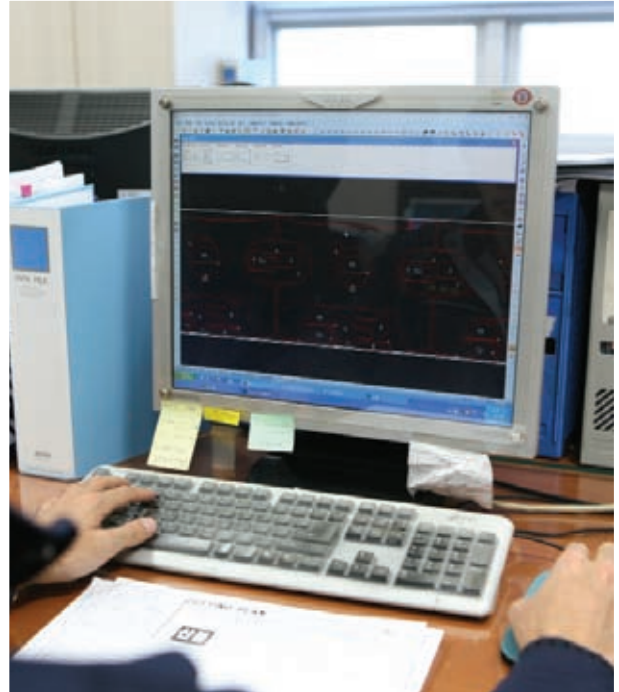
Nesting / 설계

여러 단품과 자재의 절단 시간과 비용을 계산 할 수 있다.

피어싱 수, 절단길이, 마킹길이, 자재 비용, 가공임율, 소모품비와 같은 많은 변수를 고려하면서 Lantek Expert 는 주어진 정보에 따라 시간과 비용을 자동으로 계산한다.

The time and cost to cut various components and materials can be calculated.

Considering lots of variables, such as the number of bored holes, cut length, marking length, the cost for materials, processed rate, and the cost for expendables, Lantek Expert automatically calculates the time and cost based on given information.



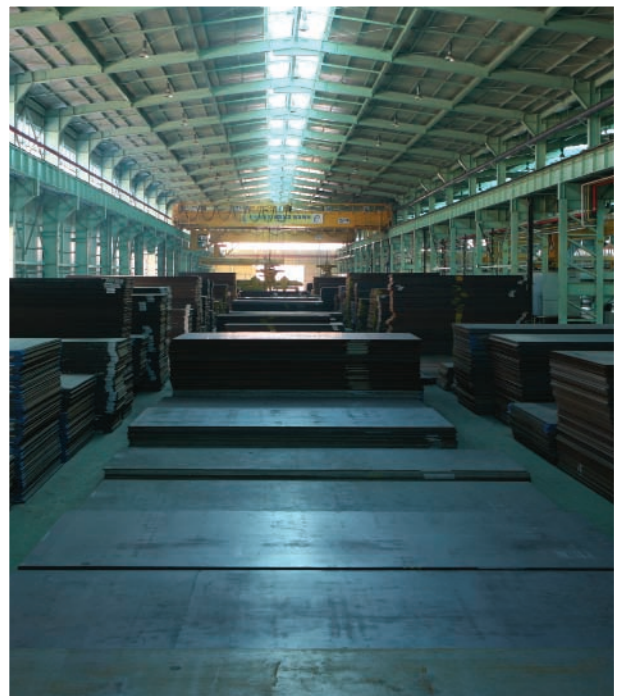
PROCESS II

Material Input / 자재입고

▶ FULL CAPACITY : 60,000 TON

▶ AREA : 3,800m²

NO.	FACILITY NAME	SPECIFICATION	QUANTITY	CAPACITY
1	RAW MATERIAL STORAGE	150Mx25M (3,800m ²)	1	MAX 60,000 TON SS,SM, SPHC, SPECIAL MATERIAL
2	L/M E.O. CRANE	15TON MAGNET, CABIN+ REMOCON	2	15 TON
3	STEEL PLATE TRANSPORTER	6000x2000, RAIL LENGTH : 66M	3	20TON
TOTAL			6	





▶ THB 6014



▶ TFPV 6084



▶ TFPV 6084

PROCESS III

Cutting / 절단

▶ FULL CAPACITY : 870 TON/DAY

▶ AREA : 8,000m²

NO.	FACILITY NAME	MODEL	SPECIFICATION			QUANTITY	CAPACITY
			TORCH	TABLE SIZE	CUTT'G THICKNESS		
1	KOIKE CNC GAS CUTTING M/C	LEADGRAPHE 7500	12EA	7.5M x 12M	6t ~ 150t	8	150TON /DAY
2	MESSER CNC GAS CUTTING M/C	OMNIMAT P8000	12EA	8M x 12M	6t ~ 150t	1	25TON /DAY
3	MESSER CNC GAS CUTTING M/C	OMNIMAT P5500	33EA	5.5M x 36M	6t ~ 150t	1	30TON /DAY
4	TANAKA CNC GAS CUTTING M/C	KT570	12EA	3.4 x 8M	6t ~ 150t	1	20TON /DAY
5	MESSER CNC PLASMA CUTT'G M/C (AUTO BEVEL)	OMNIMAT TD (300A)	2EA	6M x 25M	1.6t ~ 36t MAX45° : 25T	7	300TON /DAY
6	KOMATSU CNC PLASMA CUTT'G M/C (AUTO ROOT BEVEL)	TFPV-6084 (300A)	1EA	3.1M x 20M	1.6t ~ 36t MAX45° : 25T	2	75TON /DAY
7	KOMATSU CNC PLASMA CUTT'G M/C	TFPL-6014 (300A)	1EA	3.1M x 20M	1.6t ~ 36t	4	135TON /DAY
8	KOMATSU CNC PLASMA+LASER CUTT'G M/C	THB-6014 (300A, 3.2KW)	2EA	3.1M x 39M	1.6t ~ 36t	1	35TON /DAY
9	MAZAK CNC LASER CUTT'G M/C	Turbo-X510MK2 (4.0KW)	1EA	1.5M x 3M	1.6t ~ 22t	2	30TON /DAY
TOTAL						27	

PROCESS IV

1st Machining / 1차가공

▶ FULL CAPACITY : 400 TON/DAY

▶ AREA : 4,500m²

▶ Press & Forming

NO.	FACILITY NAME	SPECIFICATION			QUANTITY
		PRESS PRESSURE	DIE SIZE	OPEN HEIGHT	
1	CNC PRESS BRAKE	1000+1000 TON	16000	1100	1
2	HYDRO PRESS	3000 TON	5.5M x3.5M	3000	1
3	OTHERS				20
TOTAL					22

▶ Machining

NO.	FACILITY NAME	SPECIFICATION		QUANTITY	
		TABLE SIZE	ETC'		
1	CNC BED TYPE MILLING M/C	4500 x 1400 (MAGNET)	X : 4100, Y : 1050, V: 1250 MAX LOAD : 10TON	2	
2	STRAIGHT CHAMFERING M/C	4100 x 600	WORK ANGLE : 0 ~ 50°	2	
3	OTHERS			27	
TOTAL					31



PROCESS V

Welding / 용접

▶ FULL CAPACITY : 500 TON/DAY

▶ AREA : 40,000m²

NO.	FACILITY NAME	SPECIFICATION	QUANTITY
1	ROBOT WELDING - IGM K4	5TON POSITIONER	2
2	ROBOT WELDING - IGM K5	1TON POSITIONER, A.G.V, AUTO CONVEYOR	6
3	ROBOT WELDING - IGM K5	4TON POSITIONER, AUTO CONVEYOR	1
4	BOSS AUTO WELDING M/C	POSITIONER(2EA)	1
5	PREHEAT EQUIPMENT (BUCKET)	120KW	1
6	250TON CORRECTION PRESS	TABLE SIZE : 2000x7000	1
7	CO2 WELDING M/C , GOUGING M/C	WELDING : 500A, 600A, 650A, 800A GOUGING : 1000A, 1500A	564
TOTAL			576





PROCESS VI

Machining / 기계가공

▶ FULL CAPACITY : 300 TON/DAY

▶ AREA : 4,500m²

NO.	FACILITY NAME	MODEL	SPECIFICATION				MAX LOAD	QUANTITY
			TABLE SIZE	X - AXIS ST	Y - AXIS ST	Z+W - AXIS ST		
1	Φ 130 DUPLEX BORING M/C	HFB-130DF	1800 x 15000	16000	3000	1500	20 TON	1
2	Φ 160 CNC FLOOR BORING M/C	HFB-160	4000 x 10000 (T/TABLE : 2.5Mx3M)	10000	3000	1800	30 TON	1
3	Φ 160 CNC FLOOR BORING M/C	H-160	2500 x 12000 (T/TABLE : 2Mx3M)	10000	3000	1800	30 TON	1
4	Φ 130 CNC BORING M/C	HB-130, DNB-130	1800 x 1500	3000	2000	2000	7 TON	6
5	Φ 130-BORING M/C (MANUAL)	D 130 E	1422 x 1625	1550	1524	2550	7 TON	3
6	Φ 110 BORING M/C (MANUAL)	DA 110 T	1150 x 1250	1200	1200	2050	5 TON	2
7	16/20 VERTICAL TURN-MILL	VTC-16/20	Φ 1600 (MAX Φ 2000)	900 (MAX 1600)			8 TON	1
TOTAL								15

PROCESS VII

Inspection / 검사

▶ AREA : 450m²

NO.	FACILITY NAME	SPECIFICATION	QUANTITY
1	3DIMMENTION MEASUREMENT	SOLO SYSTEM (6,000*4,000)	1
2	LAY-OUT M/C	ARM=2000, 8000x5000	2
3	HARDNESS MEASUREMENT	HRC, HRB, HRA, HB, HV, HS	1
4	FILM OF PAINT MEASUREMENT	0-500 μ m	1
5	LUSTER MEASUREMENT	60°	1
TOTAL			6



PROCESS VIII

Painting / 도장

▶ FULL CAPACITY : 120 HANGER/10HR

▶ AREA : 4,300m²

NO.	FACILITY NAME	SPECIFICATION	QUANTITY
1	AUTO SHOT & PAINTING (POWER&FREE TYPE)	116Mx23M, MAX LOAD=8TON, 23HANGER	1
2	MASKING CONVEYOR	1300x16500L	1
3	MANUAL SHOT M/C	9000x7000x5000	1
4	TOUCH-UP BOOTH (PAINTING, DRYNESS)	18000x7000x4000	2
TOTAL			5



OVERSEAS MARKETING



세계로 뻗어가는 건화가족!

KUNHWA FAMILY reaches out to the world



 **KUNHWA**
KUNHWA CO., LTD.



 **IMCHEON**
KUNHWA IMCHEON INDUSTRY CO., LTD.



 **DONGLIM**
KUNHWA DONGLIM INDUSTRY CO., LTD.



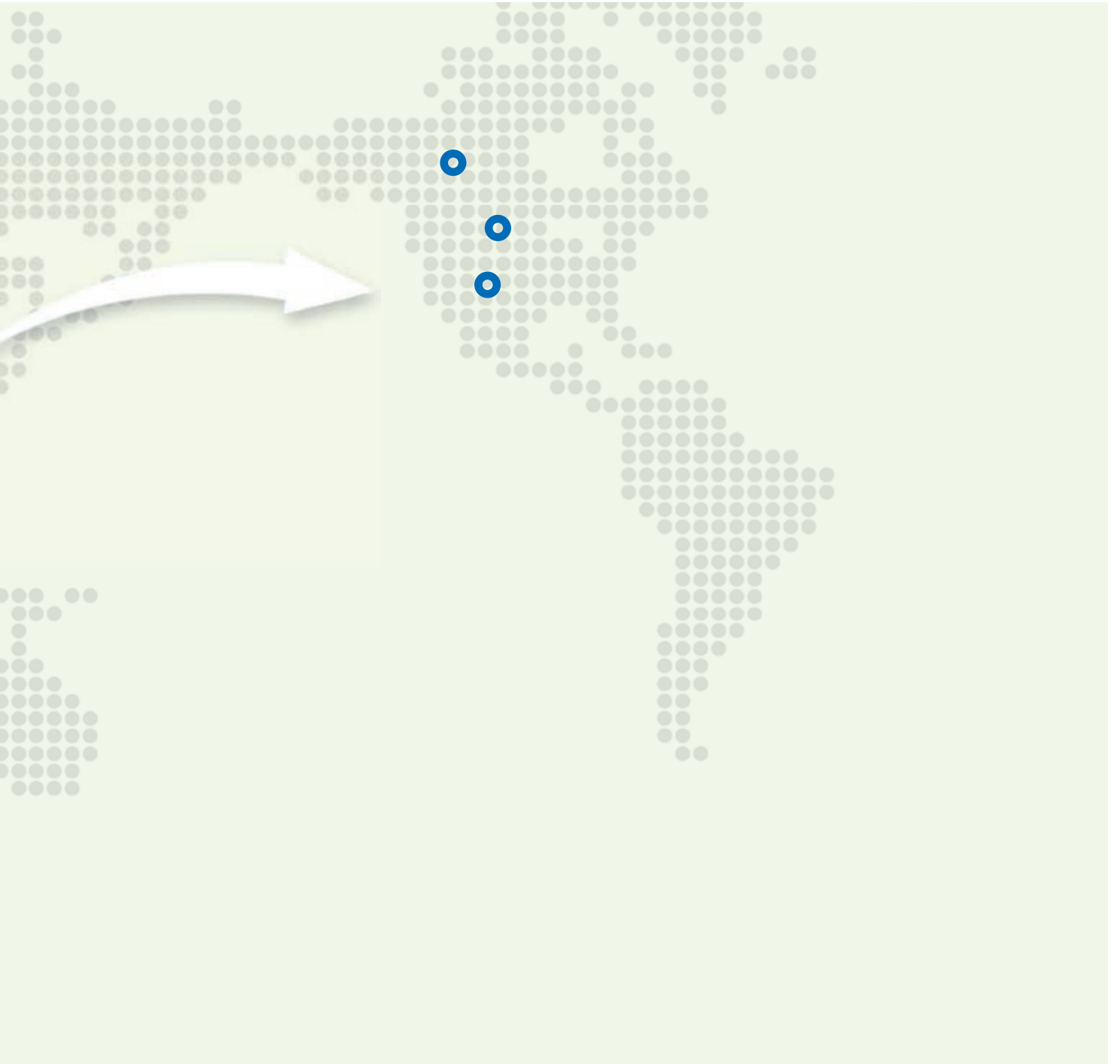
 **KUNHWA IND.**
KUNHWA INDUSTRY CO., LTD.



 **KUNHWA ENT.**
KUNHWA ENTERPRISE CO., LTD.



 **KHMT**
KUNHWA KHMT CO., LTD.



Contact

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The world first class를 향한 건화가족의 꿈과 미래
KUNHWA FAMILY's dream & future towards becoming the world first class