

HOLY ENG.
WORKS CO.,LTD.

철구기계 종합메이커



BEST PARTNER

C O N T E N T S

형강1차 가공라인

SHAPE STEEL

1st

MANUFACTUR- ING LINE

- Y.E Type Line - 4
- W.I.Z Type Line - 5
- TRA-CART, SLIM TRA-CART, MANUAL ROLLER - 6
- PUSHER, MULTI POWER ROLLER CON'V, POWERED ROLLER - 7
- Y-LINE & Z-LINE DRAWING - 8

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- 조립 교정 겸용기 - ASSEMBLING & STRAIGHTENING M/C - 10
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- CENTERING, LIFTING, TURNING DEVICE - 14
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빌트업 H-빔 제작라인

BUILT-UP

H-BEAM

MANUFACTUR- ING LINE

박스컬럼 제작라인

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교량제작라인

BOX GIRDER

MANUFACTUR- ING LINE

C O N T E N T S

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형강1차 가공라인

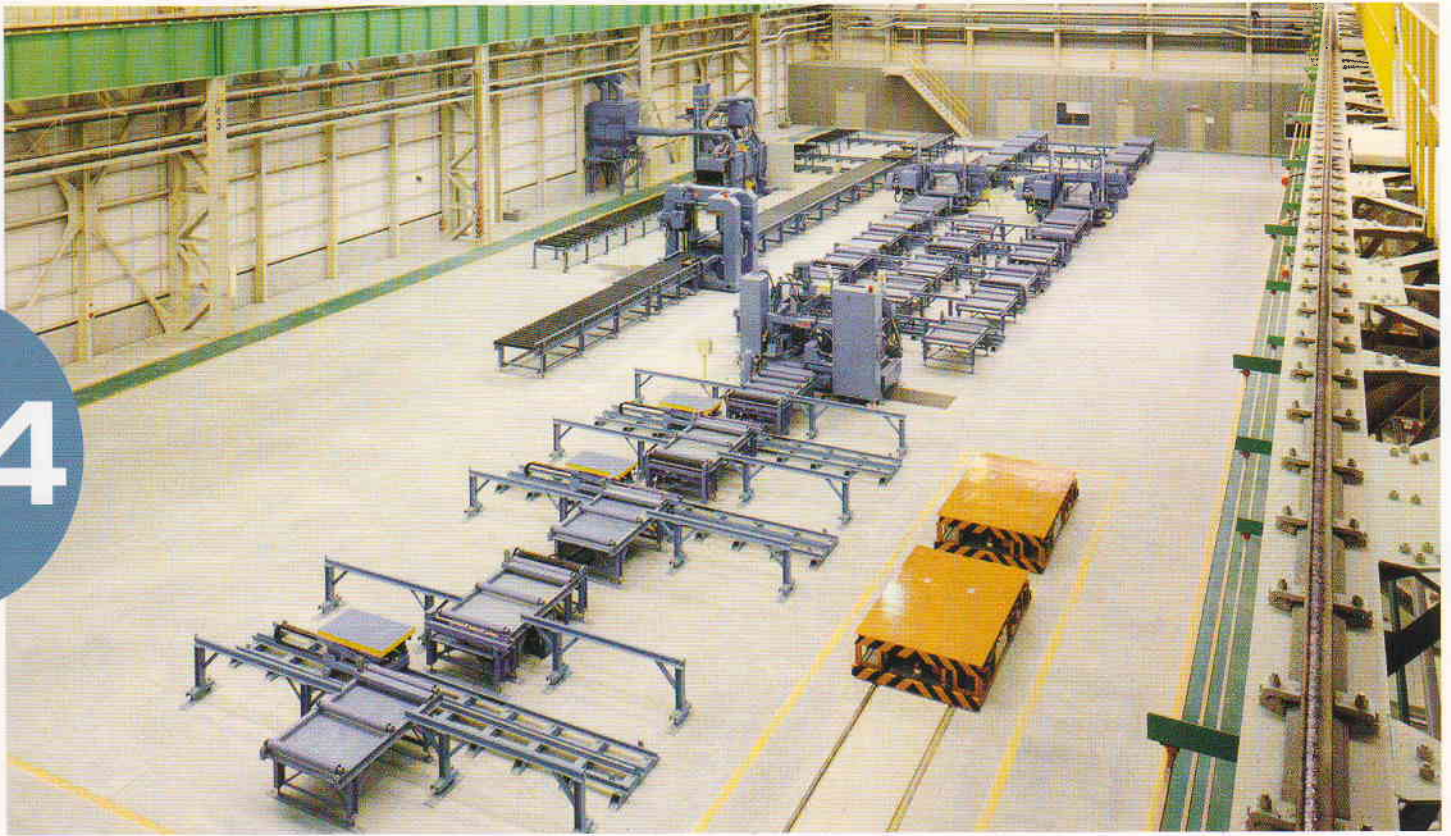
SHAPE STEEL 1st MANUFACTURING LINE

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- Y.E Type Line
- W.I.Z Type Line
- TRA-CART, SLIM TRA-CART, MANUAL ROLLER
- PUSHER, MULTI POWER ROLLER CON'V, POWERED ROLLER
- Y-LINE & Z-LINE DRAWING

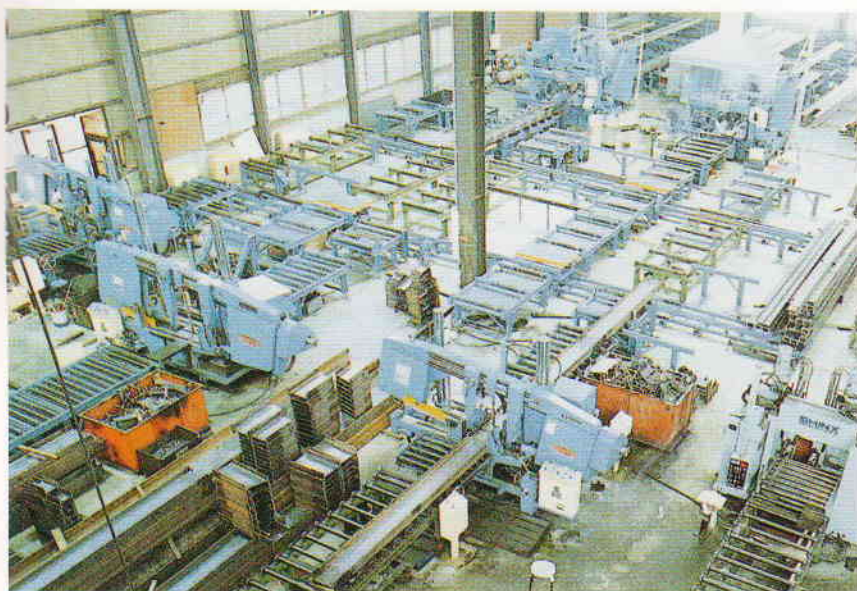
형강1차 가공라인



▲ "Y" TYPE LINE



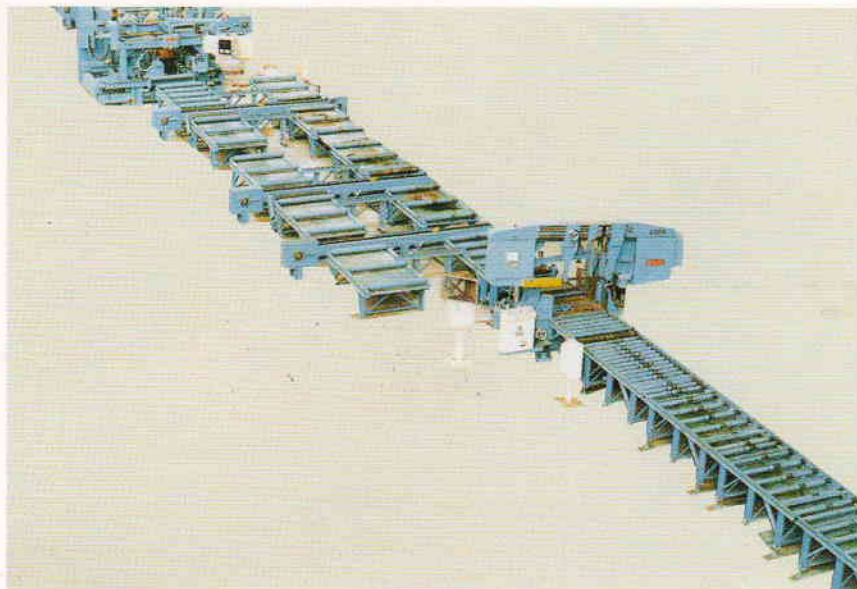
▲ "E" TYPE LINE



◀ "W" TYPE LINE



"I" TYPE LINE ▶



◀ "Z" TYPE LINE

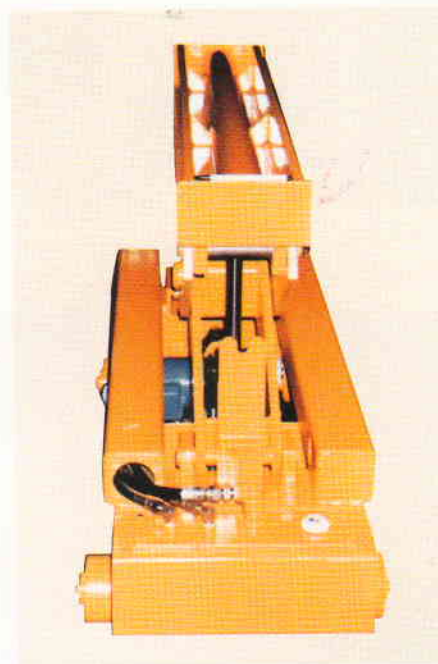
⇒ TRA-CART, SLIM TRA-CART, MANUAL ROLLER

6



◀TRA-CART

850 SERIES
1100 SERIES
1300 SERIES

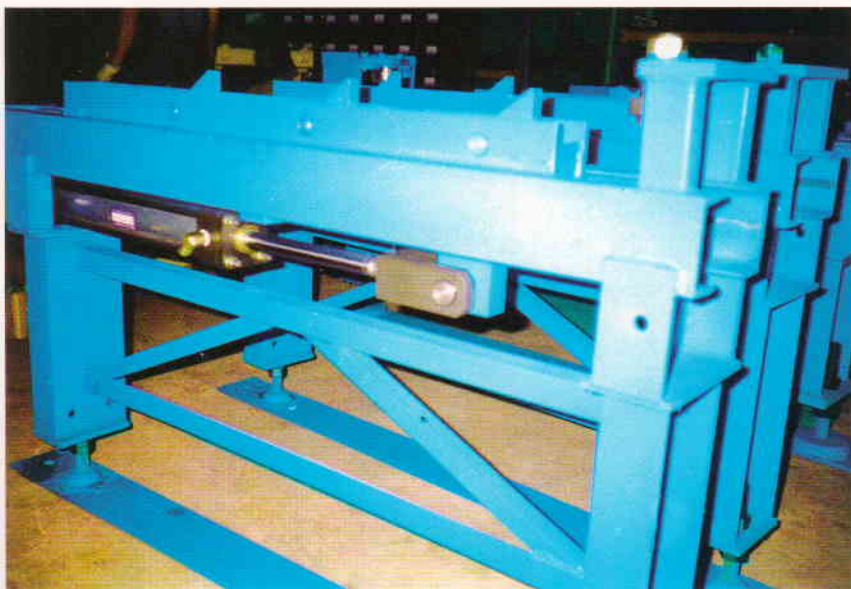


SLIM TRA-CART ▶



◀MANUAL ROLLER

⇒ **PUSHER, MULTI POWER ROLLER CON' V, POWERED ROLLER.**



◀ **HYDRAULIC PUSHER**

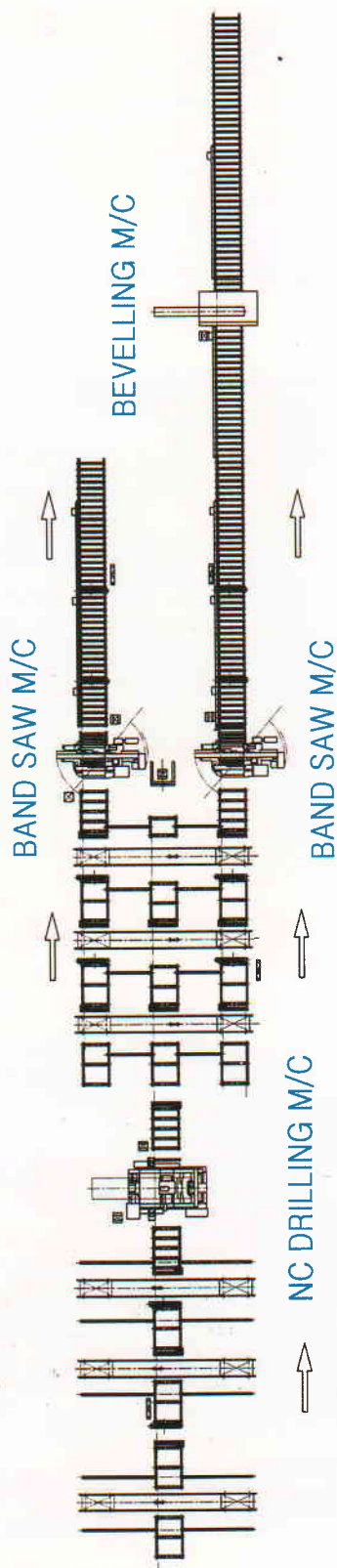
850 SERIES
1100 SERIES
1300 SERIES

**MULTI POWER
ROLLER CONVEYOR ▶**

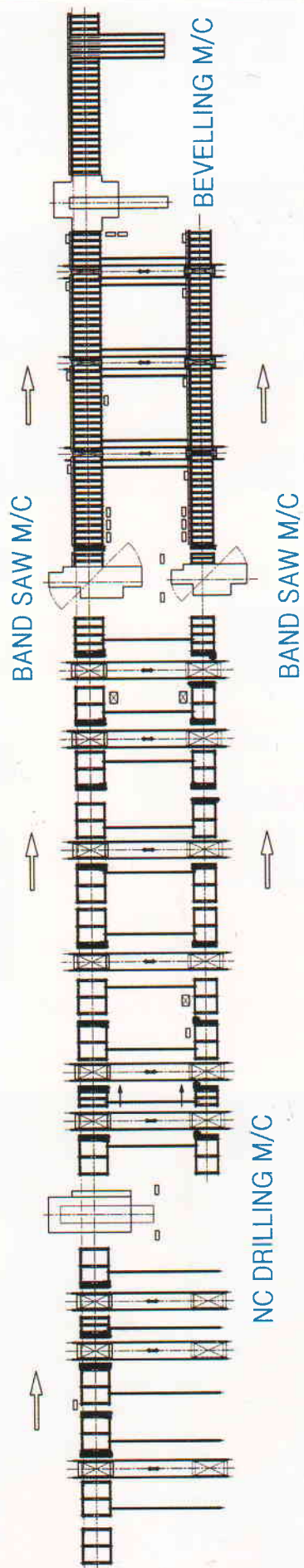


◀ **HYDRAULIC POWERED ROLLER**

★ Y-LINE



★ Z-LINE



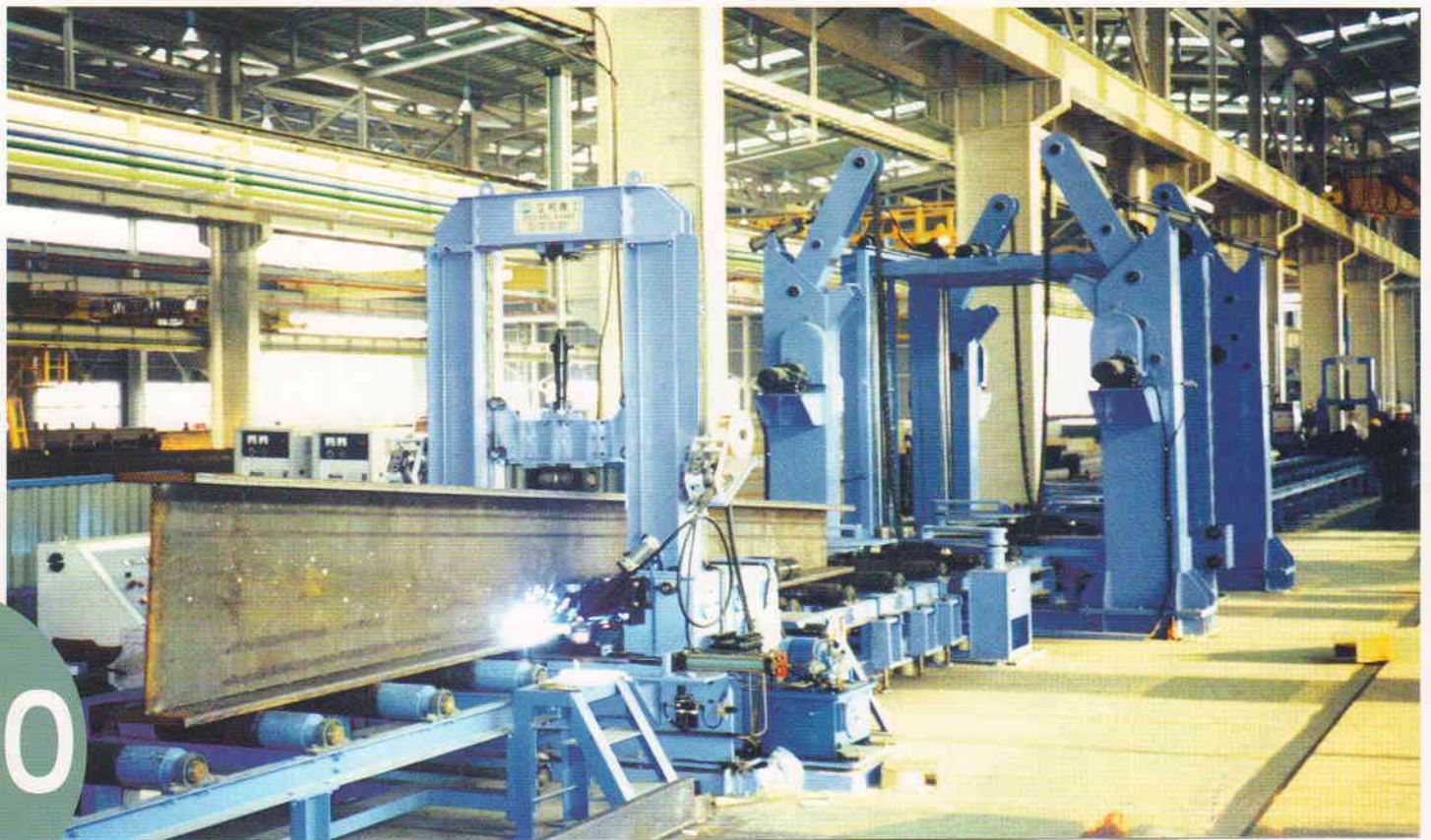
빌트업 H-빔 제작라인

BUILT-UP H-BEAM MANUFACTURING LINE

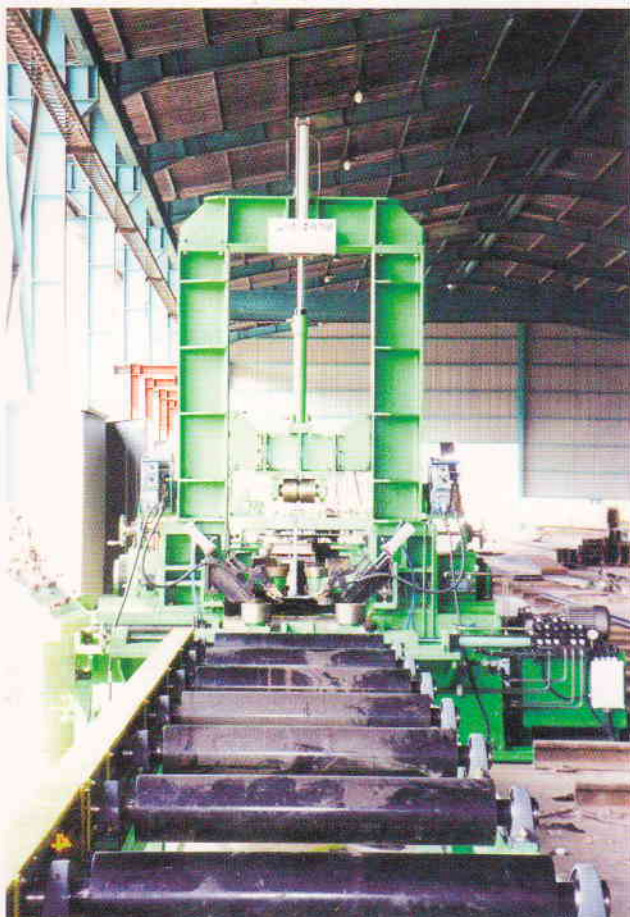


- 조립기 - ASSEMBLING MACHINE
- 조립 교정 겸용기 - ASSEMBLING & STRAIGHTENING M/C
- 교정기 - STRAIGHTENING MACHINE
- CENTERING, LIFTING, TURNING DEVICE
- WELDING JIG & S.A.W M/C

빌트업 H-빔 제작라인

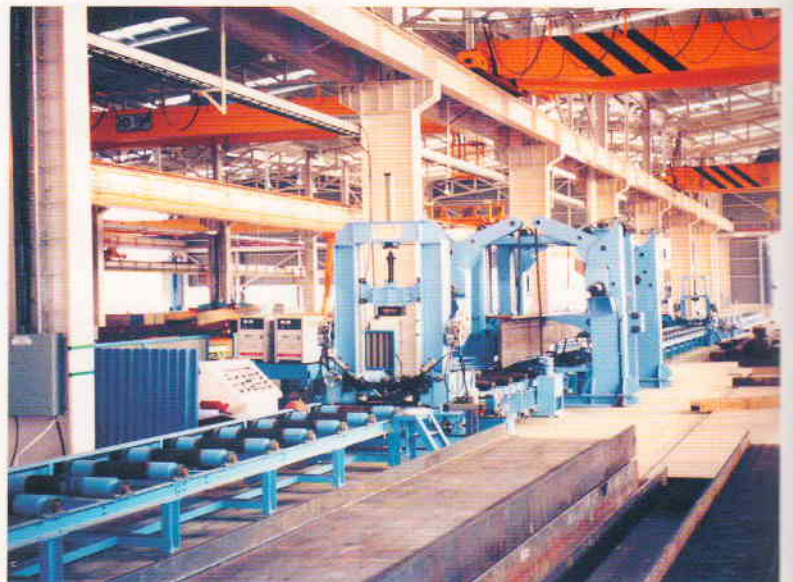


▲ ASSEMBLING M/C (W850×H1500×t70)

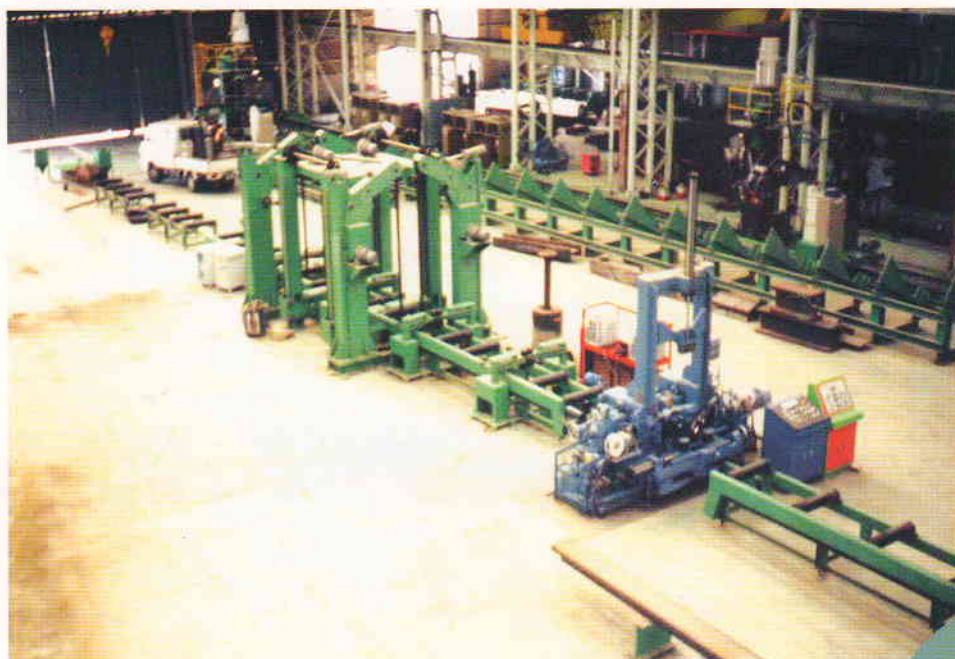


◀ ASSEMBLING & STRAIGHTENING M/C
(W850×H1500×t50)

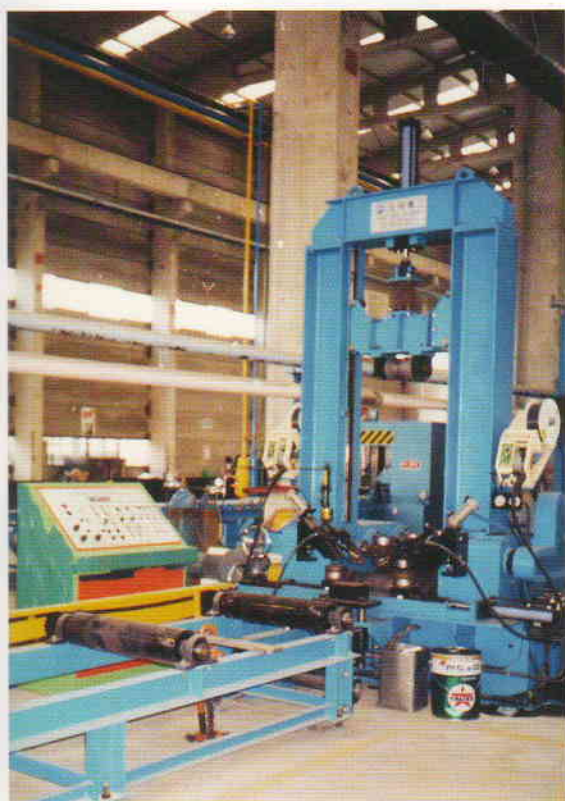
▼ ASSEMBLING M/C (W850×H1500×t70)



⇒ BUILT-UP H-BEAM MANUFACTURING LINE



ASSEMBLING & STRAIGHTENING M/C ▶
(W850 × H2000 × t50)



◀ ASSEMBLING M/C
(W850 × H1500 × t70)

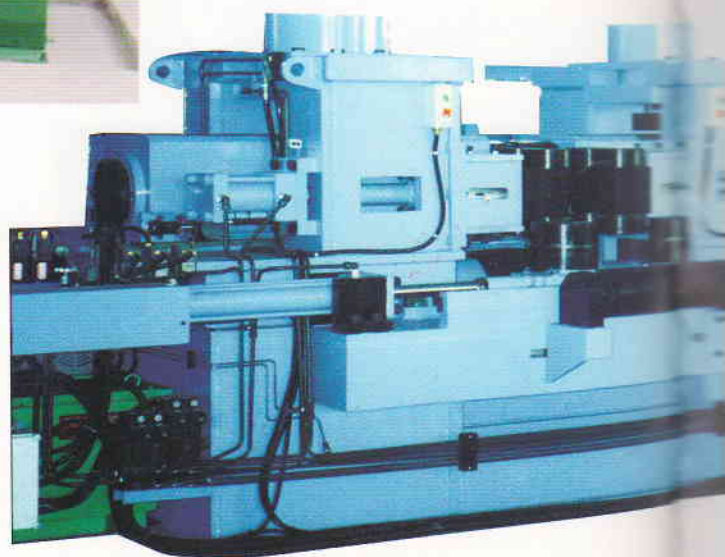


ASSEMBLING M/C ▶
(W850 × H2500 × t70)

⇒ 교정기-STRAIGHTENING MACHINE



▲ STRAIGHTENING M/C (W850×t70)



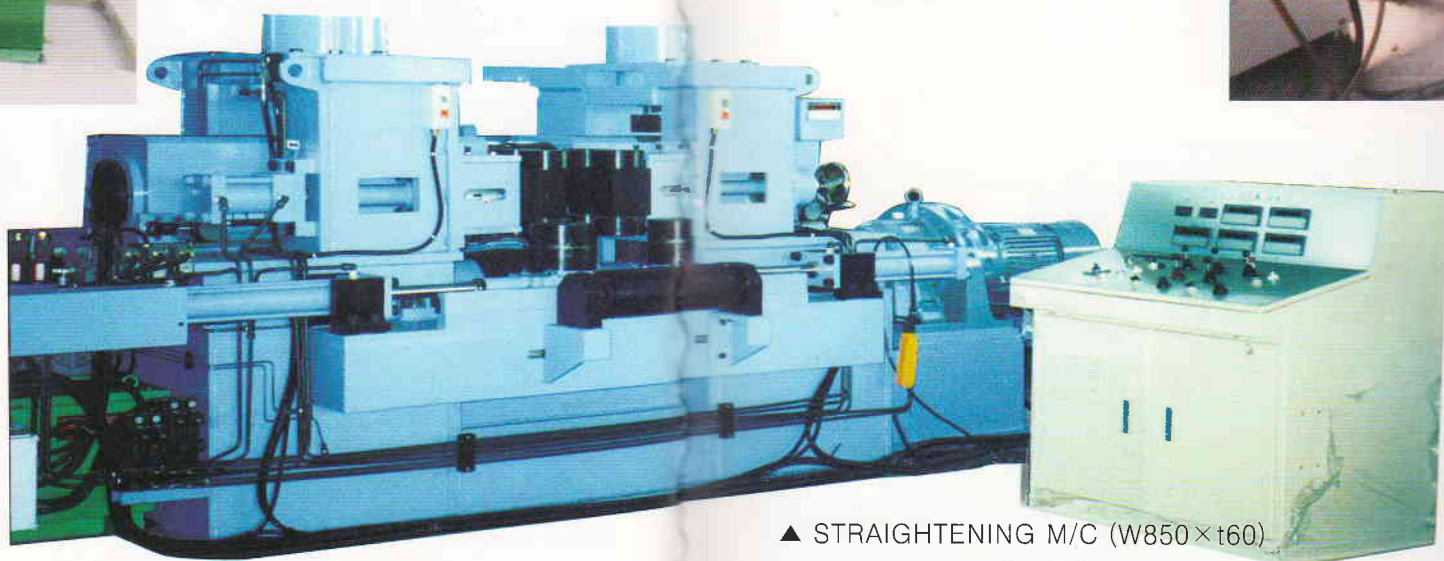
DIGITAL
강력한
고강성
조작의
고정밀



▲ STRAIGHTENING M/C (W600×t40)



DIGITAL 간격 조절
 강력한 파워
 고강성 구조
 조작의 편리화 실현
 고정밀 기계

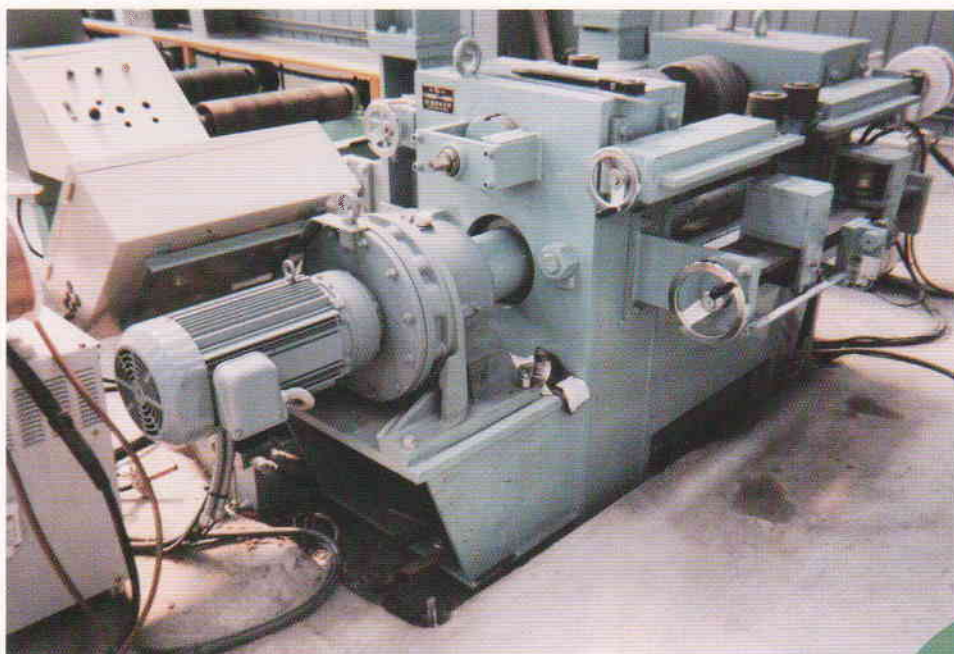


▲ STRAIGHTENING M/C (W850×t60)



▲ STRAIGHTENING M/C (W850×t50)

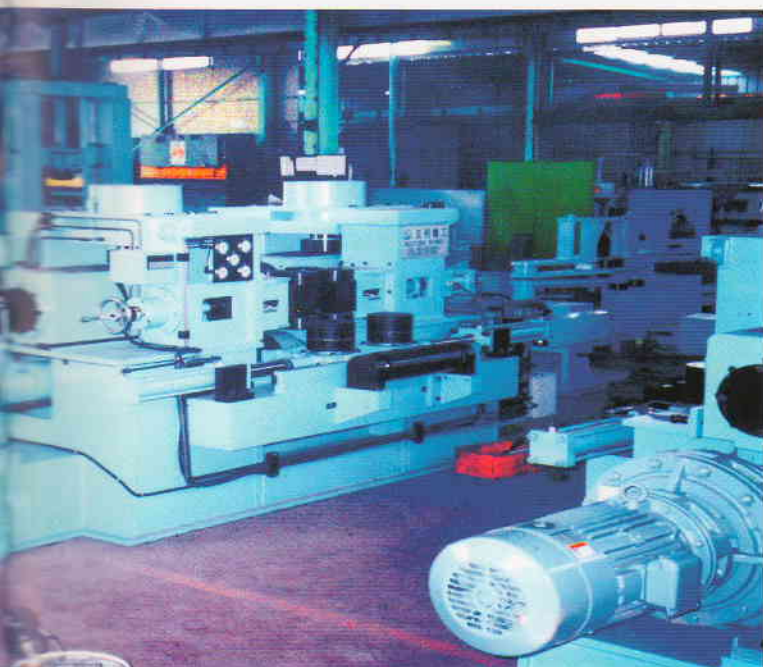
간격 조절
파워
구조
편리화 실현
기계



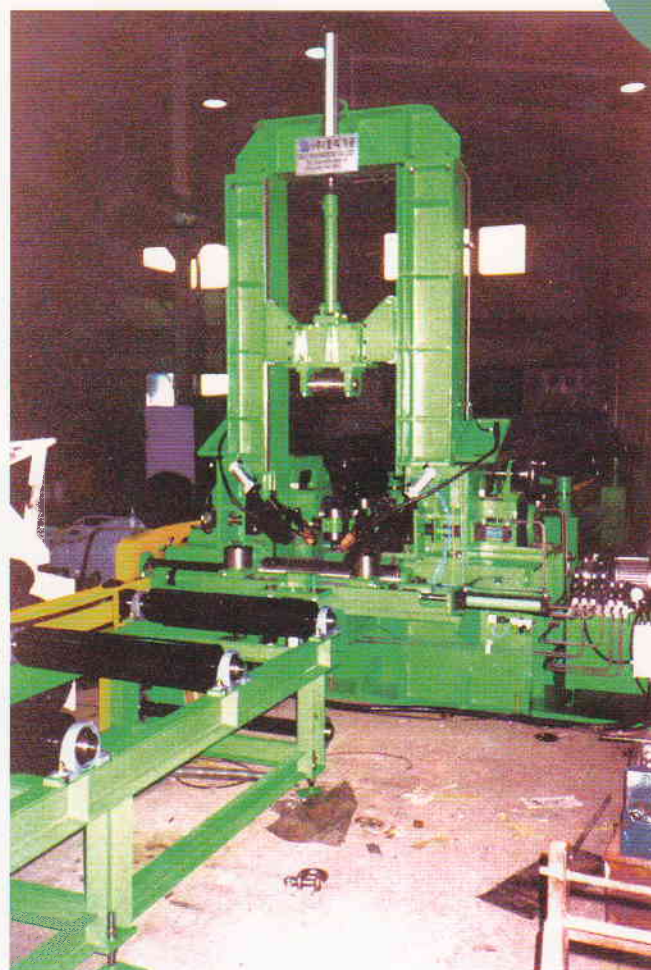
▲ STRAIGHTENING M/C (W800×t40)



▲ STRAIGHTENING M/C (W850×t60)



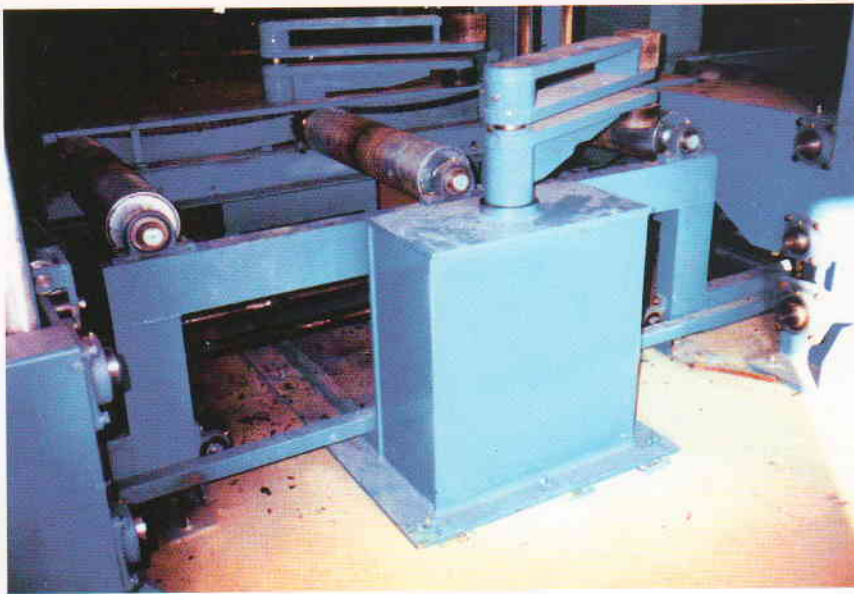
▲ STRAIGHTENING M/C (W850×t50)



▲ ASSEMBLING & STRAIGHTENING M/C
(W850×H1600×t50)

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⇒ 센타링, 리프팅, 터닝장치-CENTERING, LIFTING, TURNING DEVICE



◀CENTERING DEVICE 3unit/1set

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⇒ 생산사양

10 TON

15 TON

LIFTING DEVICE▶
TURNING DEVICE▶



◀FIXED TYPE WELDING JIG

박스컬럼 제작라인 BOX COLUMN MANUFACTURING LINE



- BOX COLUMN FIT-UP M/C
- 4 POLE SESNET GANTRY WELDING M/C
- MANIPULATOR TYPE TANDEM S.A.W M/C
- MANIPULATOR TYPE TANDEM CO₂ ARC WELDING M/C
- CANTILEVER TYPE S.A.W M/C
- FACING MACHINE

⇒ 박스컬럼조립기-BOX COLUMN FIT-UP M/C



◀ BOX COLUMN FIT-UP M/C
좌우 및 상하 가압실린더가 동시에 똑같이 동조하면서 동작한다.

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⇒ SPECIFICATION (BOX SIZE)

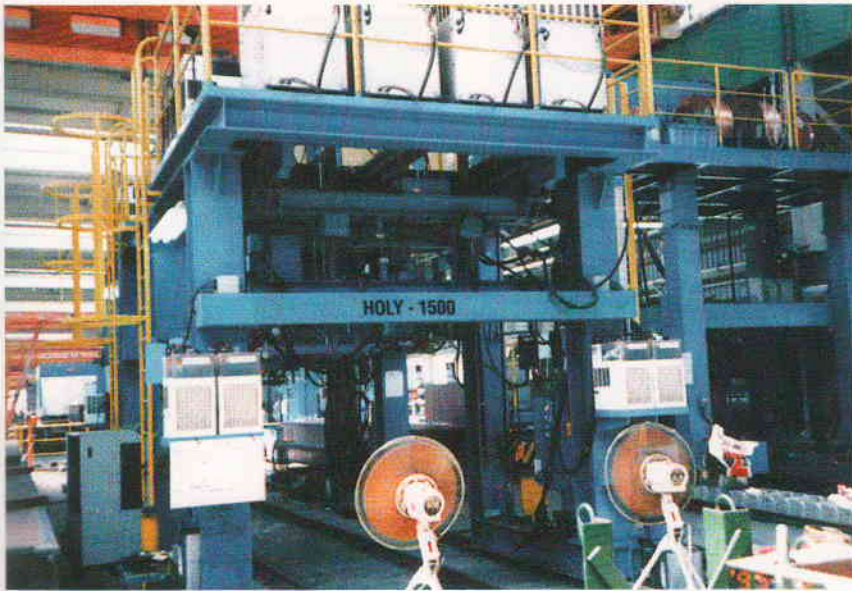
- 1000×1000×60t~90t
- 1200×1200×60t~90t
- 1500×1500×60t~90t
- 1800×1800×60t~90t

■ 제작방법

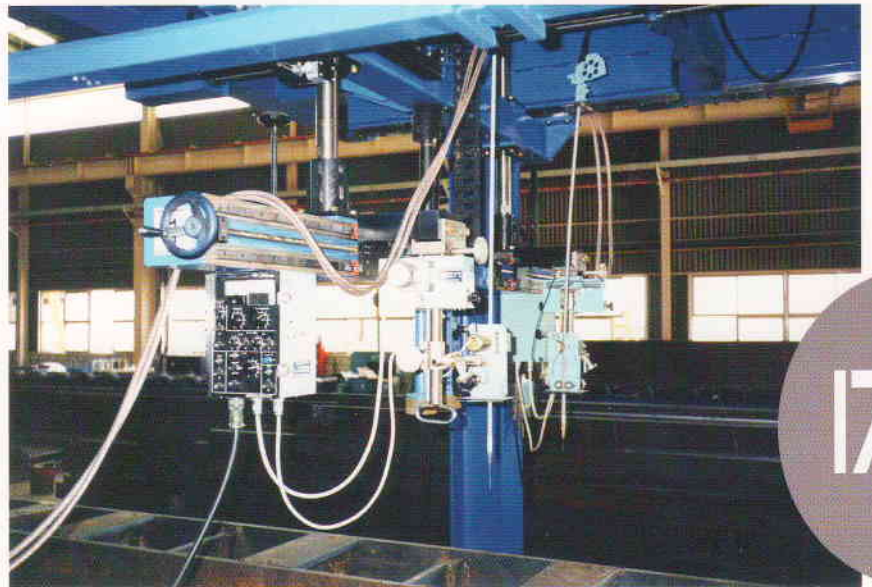
1. GANTRY FIXED TYPE
2. GANTRY MOVING TYPE



⇒ 4-POLE SESNET GANTRY WELDING M/C



◀ 4 POLE SESNET
(LH+RH×2SETS)
MAX. 용접간격 : 2000mm



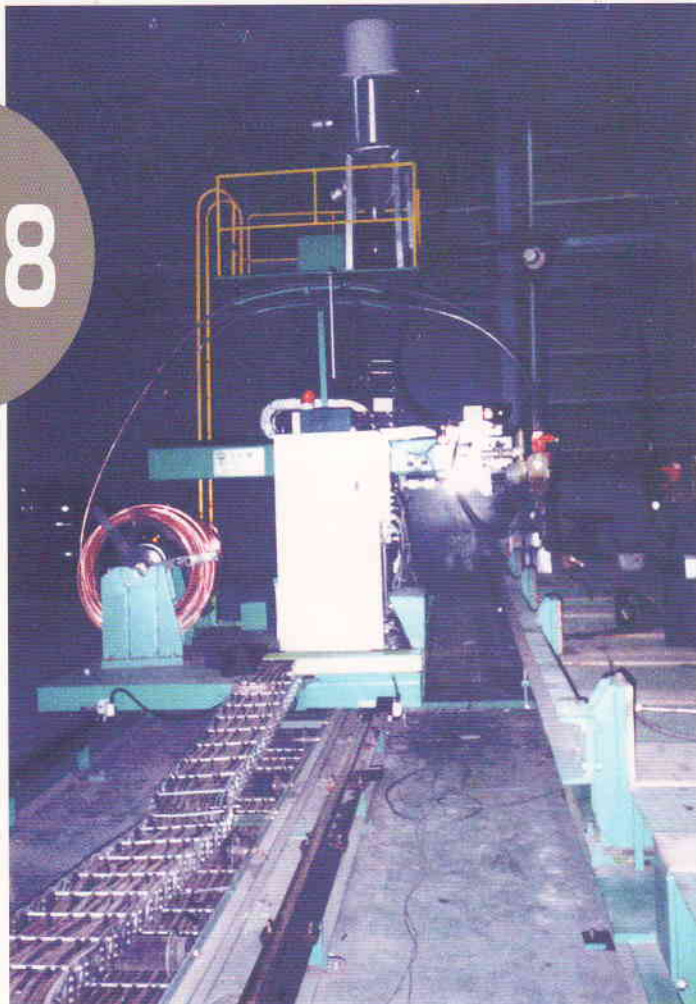
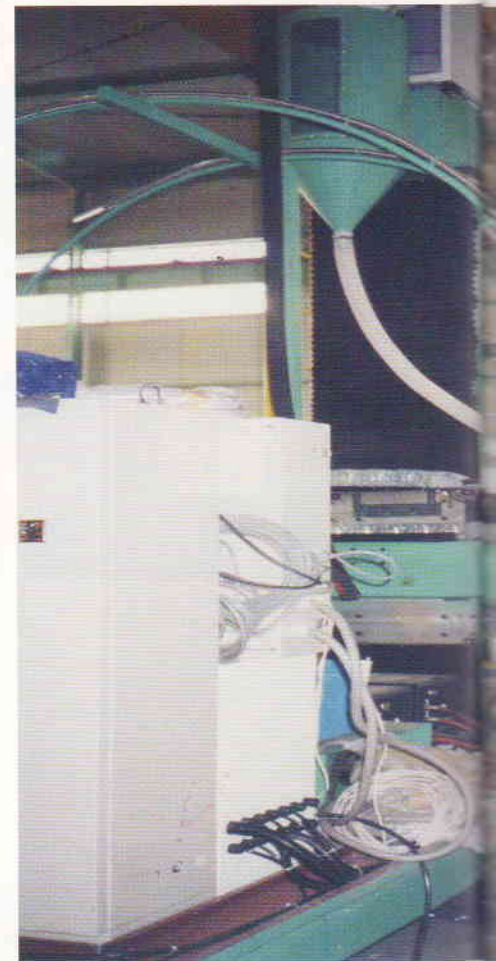
NOZZLE & HEAD▶
LH+RH×2Sets



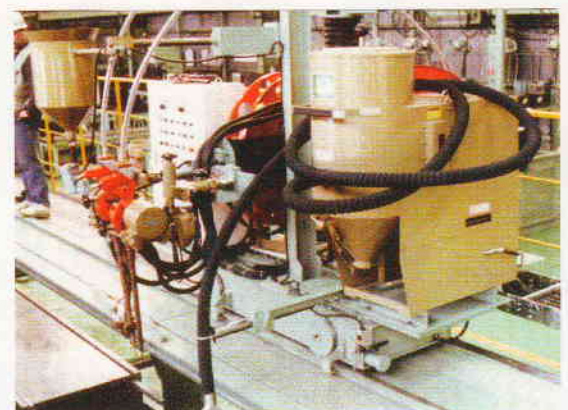
◀ 4 POLE SESNET
(LH+RH×2SETS)
MAX. 용접간격 : 3800mm



▲ MANI PULATOR Type TANDEM S.A.W M/C



▲ TANDEM S.A.M M/C

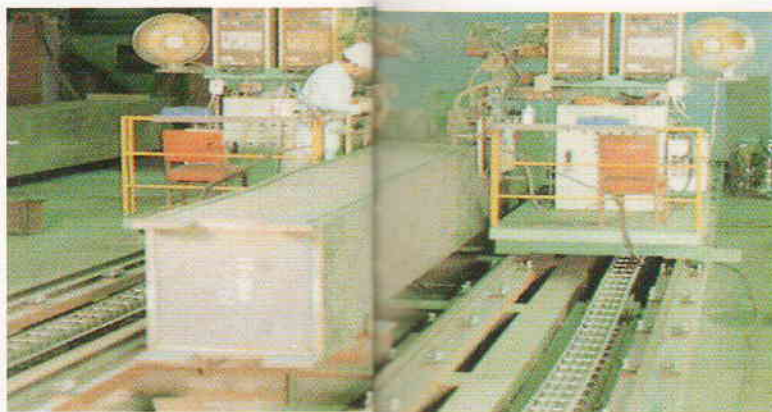
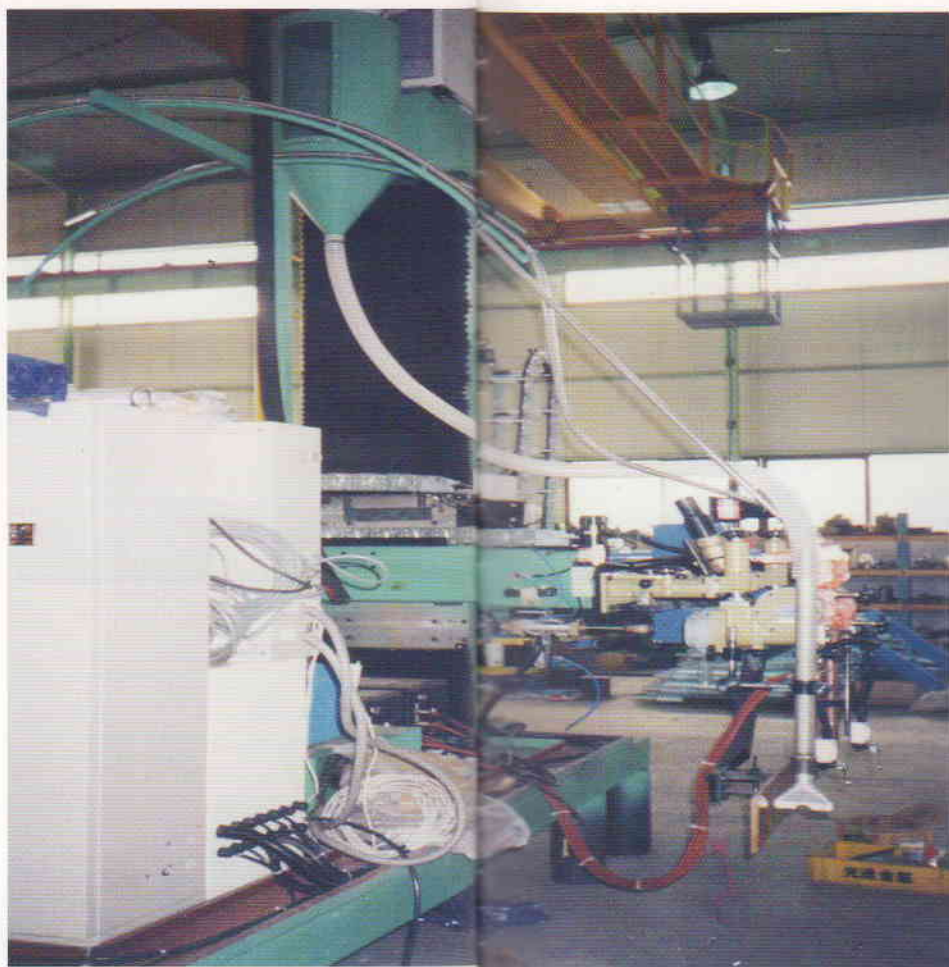


▲ TANDEM S.A.W CARRIER

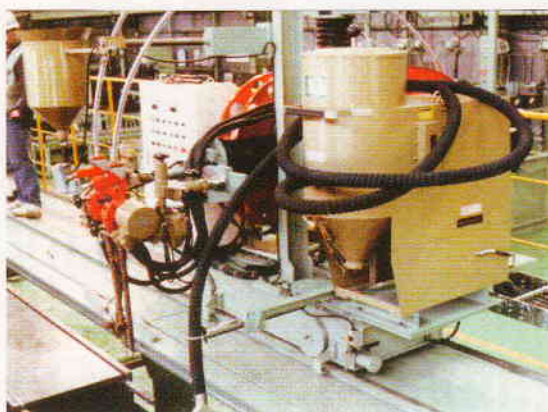
UP BEAM WELDING M/C



TANDEM S.A.W M/C



MANIPULATOR
CO2 Arc WELD
MACHINE



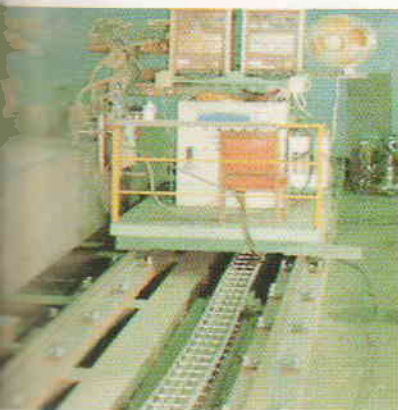
▲ TANDEM S.A.W CARRIER



▲ TANDEM S.A.W CARRIER



▲ CANTILEVER Type S.A.W MACHINE



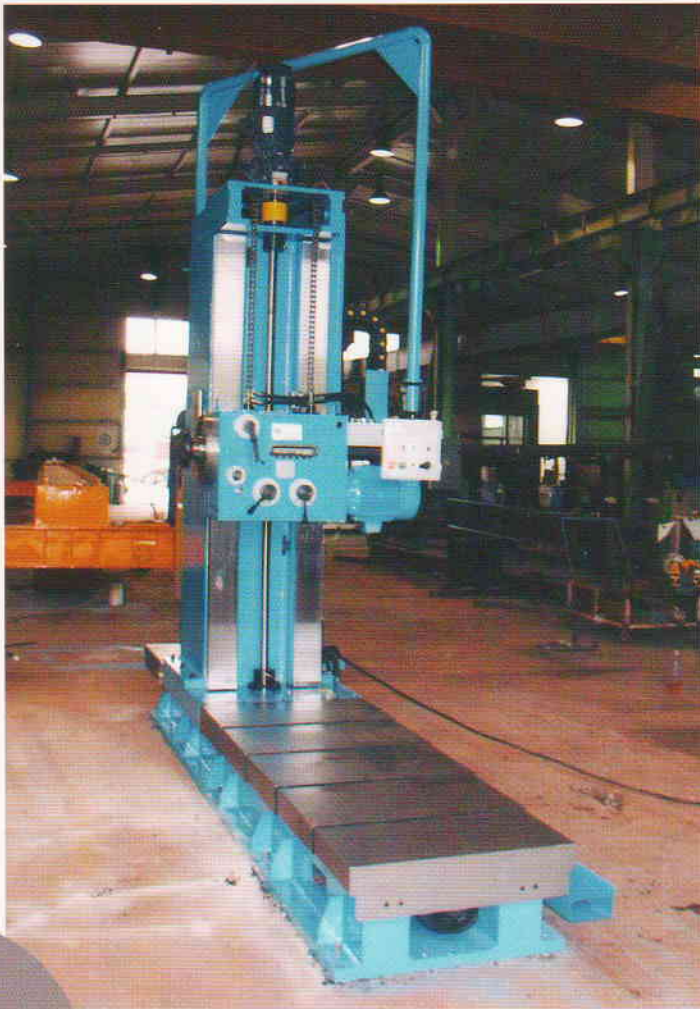
◀ MANIPULATOR Type
CO2 Arc WELDING
MACHINE



▲ TANDEM S.A.W CARRIER



▲ TWIN TANDEM S.A.W M/C



- 강력한 절삭력
- 6단 절삭속도조절
- 좌우 및 상하속도조절
(VECTOR INVERTER)
- 저소음 회전
- X-Y축 BALL SCREW사용
- 자동 집중 급유 방식

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■ SPECIFICATION

- Box Size : 1500×1500
Model No : HFC-1500
- Box Size : 1200×1200
Model : HFC-1200
- Box Size : 1000×1000
Model : HFC-1000



교량 제작 라인 BOX GIRDER MANUFACTURING LINE



- 편면 용접장치 - BUTT JOINT WELDING M/C
- I-RIB FIT-UP M/C
- T-BAR FIT-UP M/C
- “R” 면취기계 - ROUND CHAMPERING M/C
- 판넬 교정기 - PANEL STRAIGHTENING M/C
- 6, 8, 10 POLE GANTRY WELDING M/C
- 대조립기 - BOX GIRDER FIT-UP M/C

⇒ 편면 용접장치 (BUTT JOINT WELDING M/C)



- 특징 :
- 1. 뒤집어서 용접하지 않으므로 생산성 향상
 - 2. Back Gouging을 하지 않으므로 생산성 향상
 - 3. 센타링 및 맞대기 가접이 용이하다
 - 4. 두께 및 폭이 다른 부재라도 가능하다.



⇒ 편면 용접장치 (BUTT JOINT WELDING M/C)



■ 철판과 철판끼리 맞대기 용접시 한쪽면에서 용접하면 BACK BEAD가 뒷면에 자동으로 형성되게 하는 기계임.

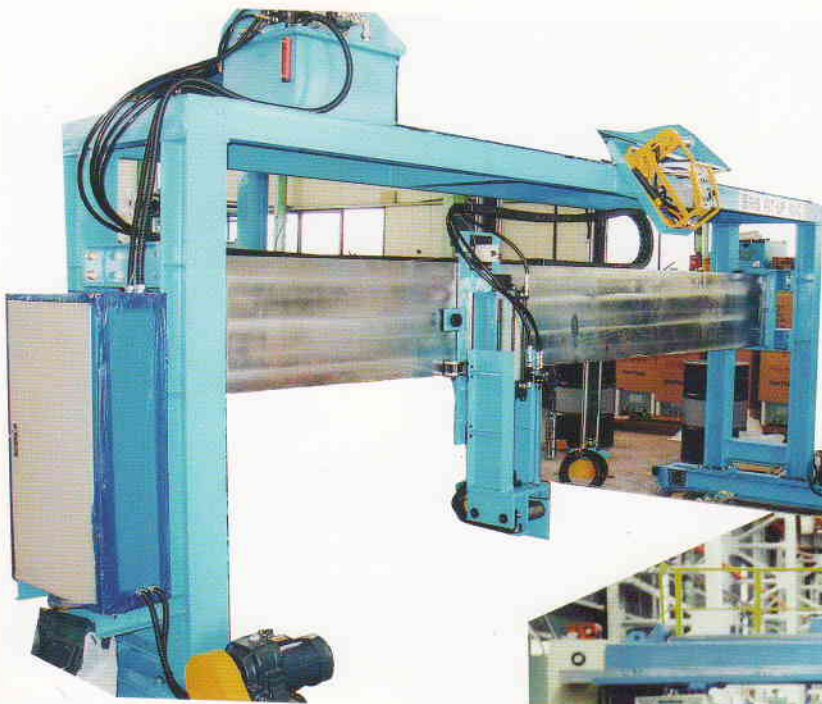
*용도 : 교량 맞대기 용접기계
조선소 철판 맞대기 용접 기계
두께가 다른 철판끼리 맞대기 용접 기계

▼ F.C.B WELDING M/C

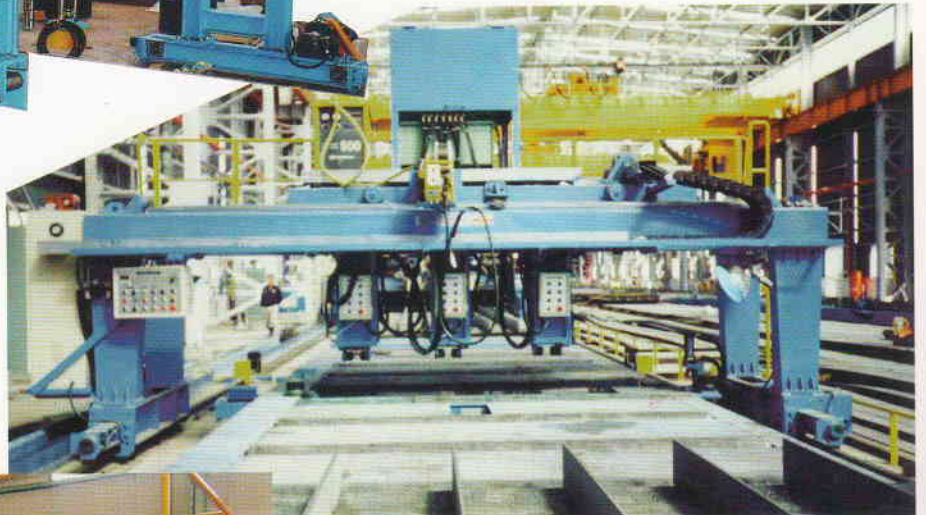


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⇒ 중리브 취부기 (I-RIB FIT-UP M/C)



◀ ONE HEAD Type
PRESSING POWER 7 TON
CO₂ WELDER 500A × 1set

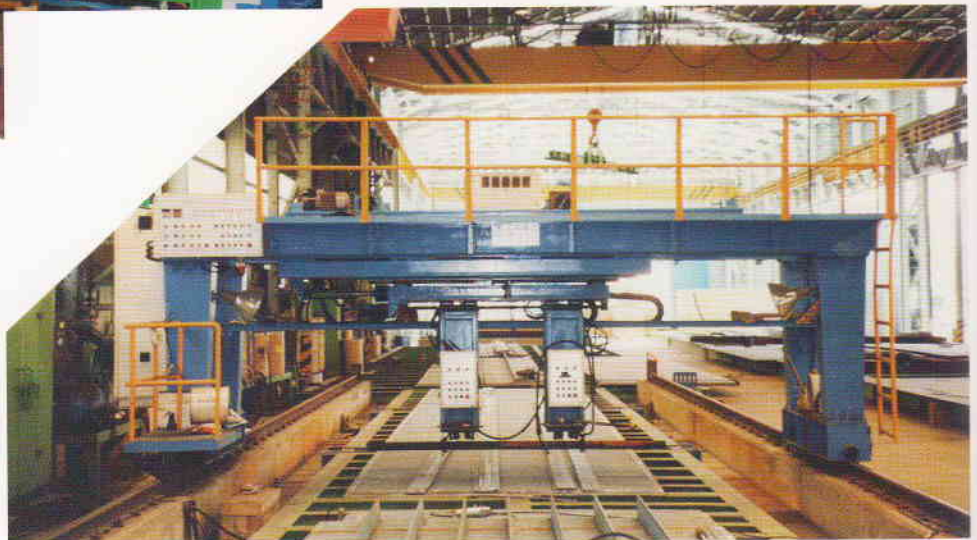


▲ THREE HEAD Type



◀ TWO HEAD Type

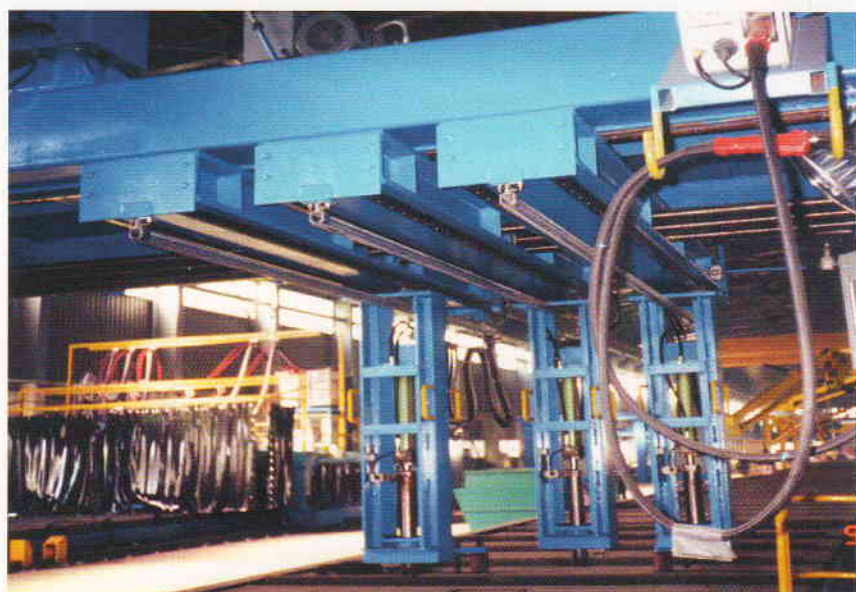
▼ TWO HEAD Type



⇒ T-BAR FIT-UP M/C



◀ ONE HEAD Type
가압력 7TON
LINE SPEED : 15 m/min

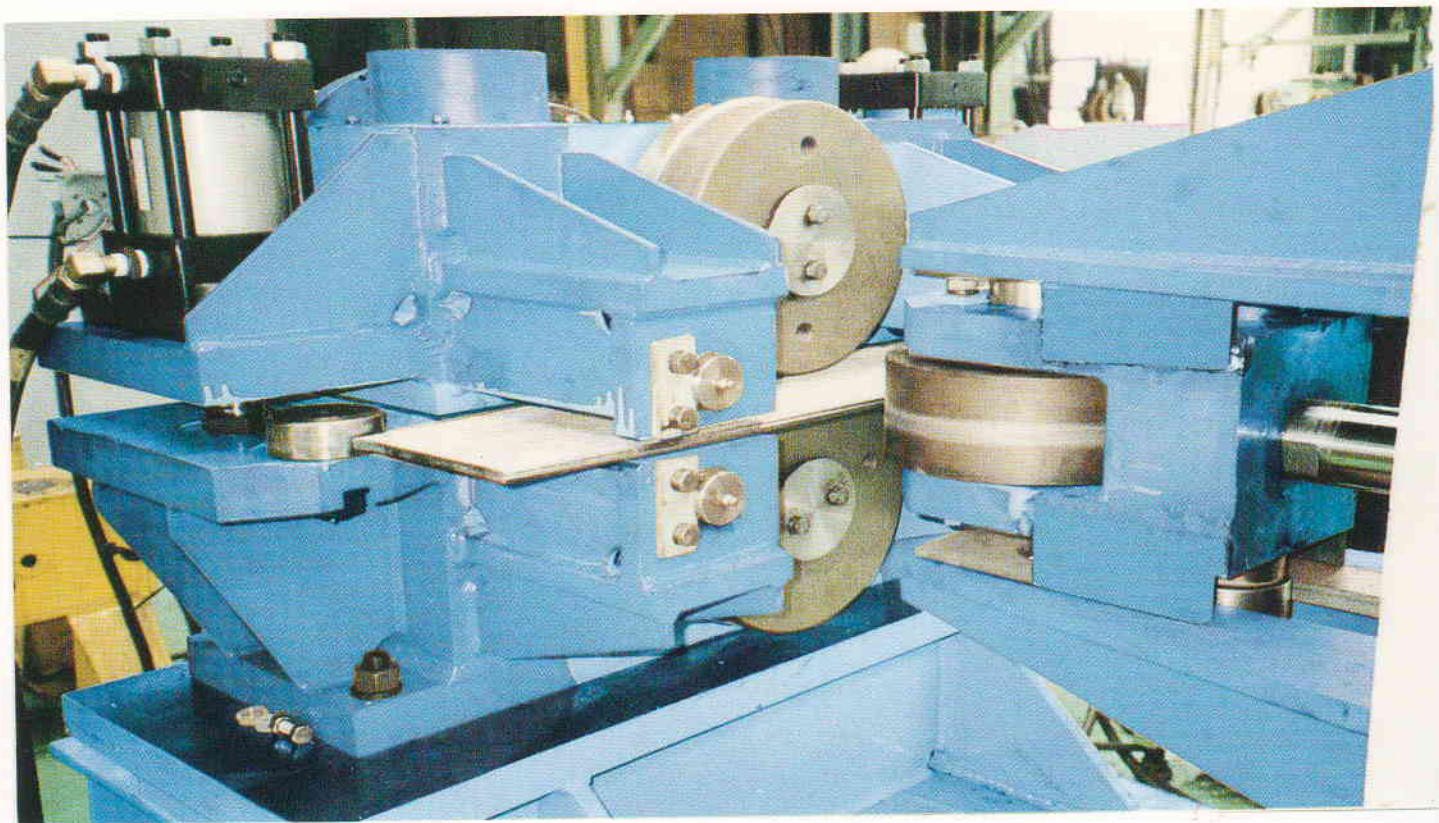


THREE HEAD Type ▶
교정 및 T-BAR취부를 기계
1대로써 할수 있도록 되어 있다.

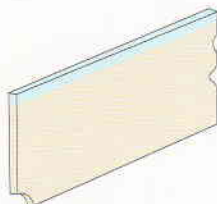


◀ HOIST : 500kg × 1Set
CO2 WELDER : 500A × 1Set

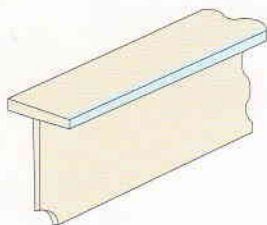
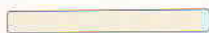
⇒ "R"면취 기계 (ROUND CHAMPERING M/C)



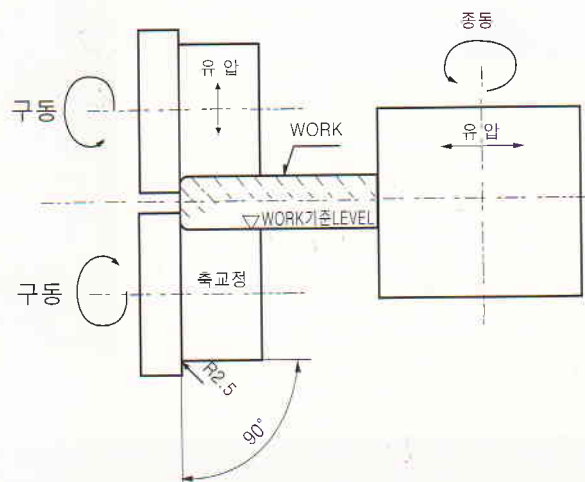
■ I-BAR



■ T-BAR



■ ROLLER 배치

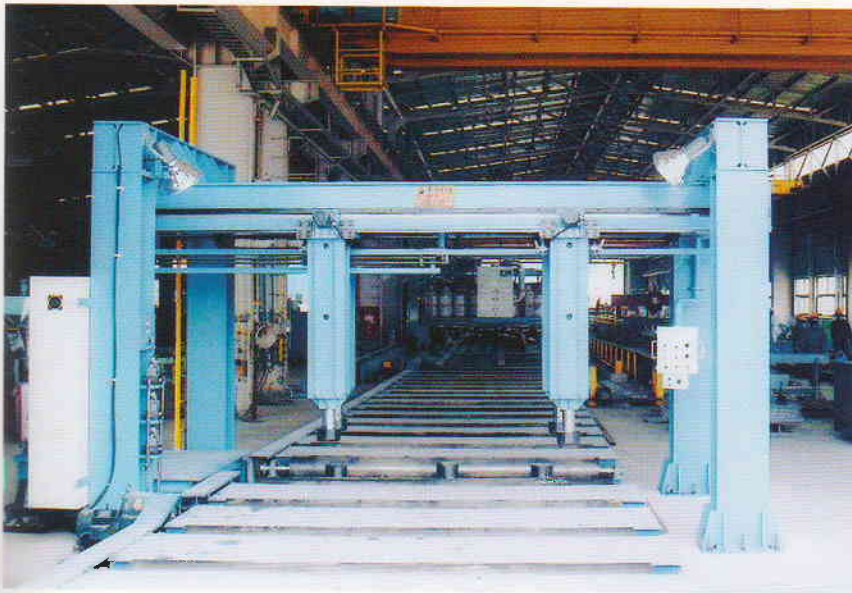


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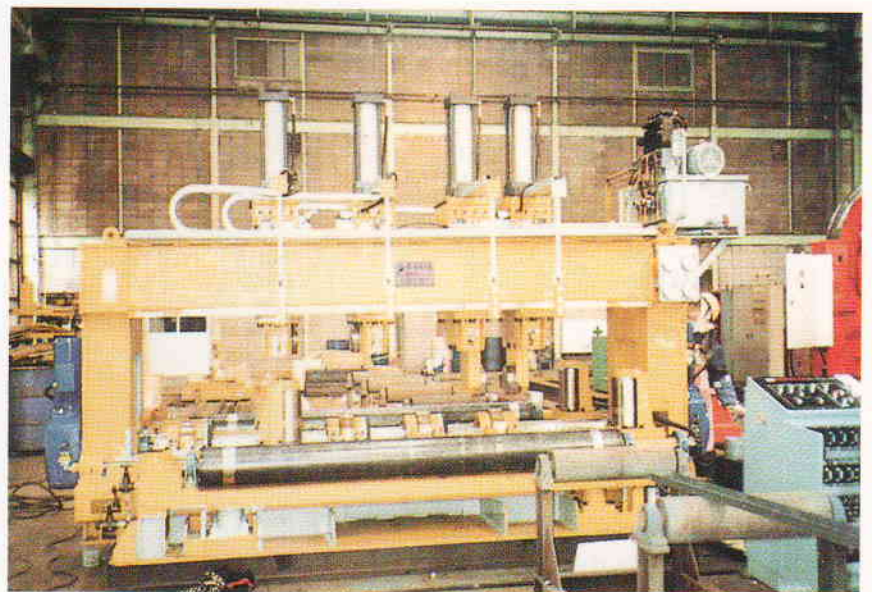
SPECIFICATION

ITEM	SPEC	
PRESSING METHOD	ROLLER 상하2단 가압 압연 방식	
면 취 량	R2(R3)	
SPEED	3~10m/min	
가 공 치 수	THICKNESS	9~33mm
	WIDTH	80~250mm
	LENGTH	1100~6000mm

⇒ 판넬 교정기 (PANEL STRAIGHTENING M/C)



◀ 7 HEAD PRESS Type
상부가압 4EA
하부가압 3EA



ROLL Type ▶
I-RIB 4개 동시
SPEED 10m/min



◀ PRESS Type
종+횡 RIB 동시 교정가능

⇒ 10 POLE GANTRY WELDING M/C



◀ 10 POLE Type

■ 특징

1. 상, 하, 좌, 우 제어가 자동이다.
2. 매우 큰 곡선 부위도 가능하다.
3. 서보제어로 동작한다.
4. 조작하기가 쉽다.



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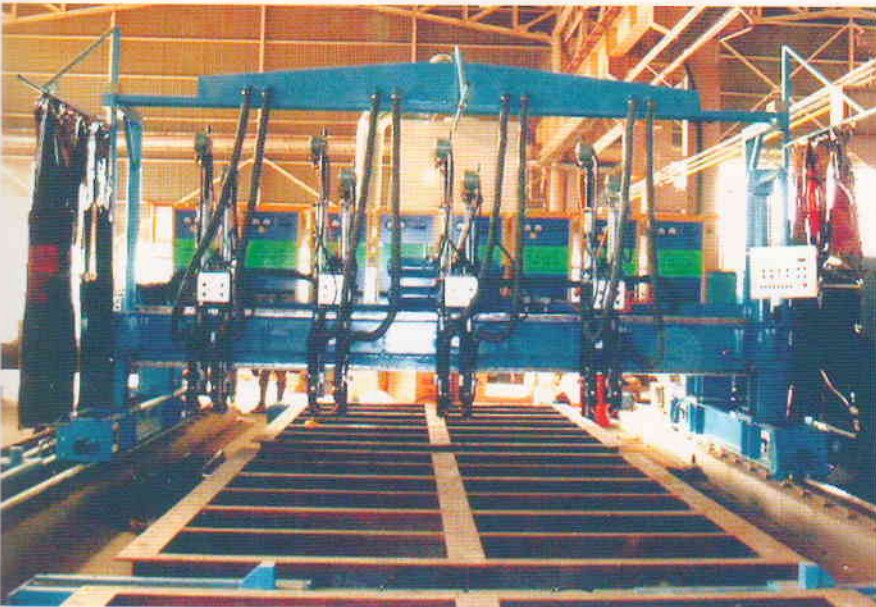


◀ 10 POLE Type

⇒ 6, 8, 10 POLE GANTRY WELDING M/C



◀ 6 POLE Type

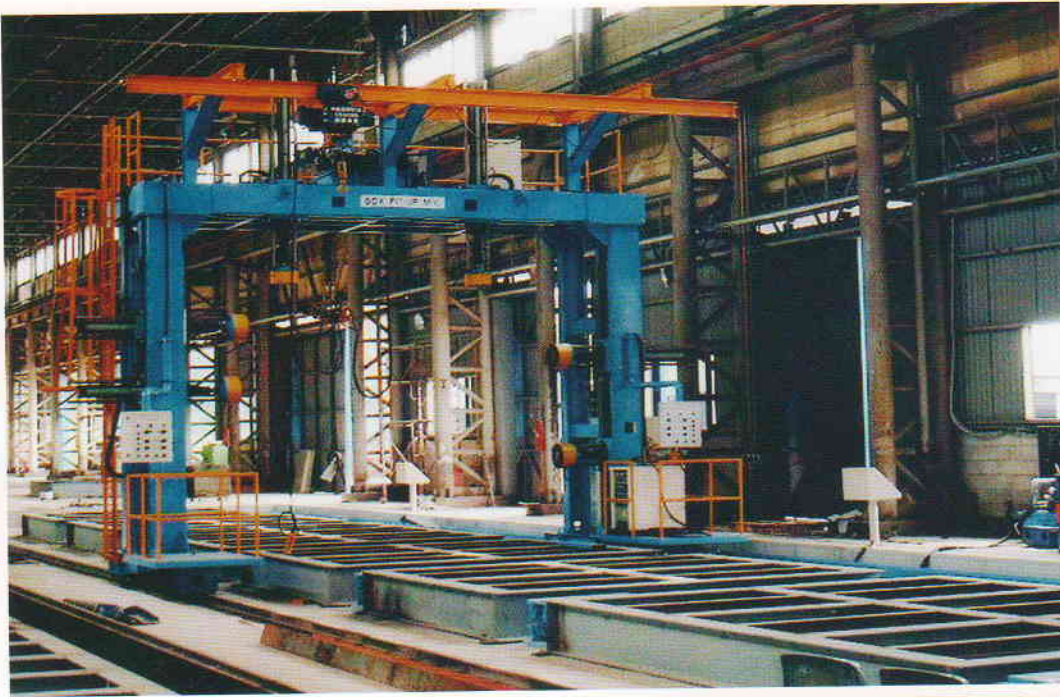


◀ 8 POLE Type



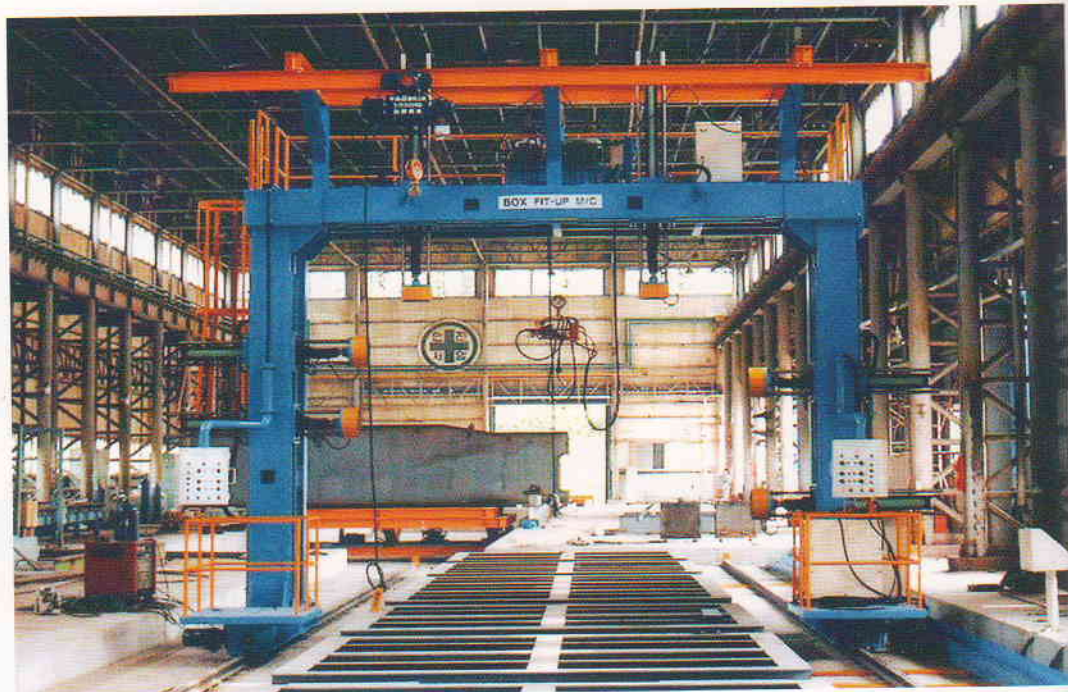
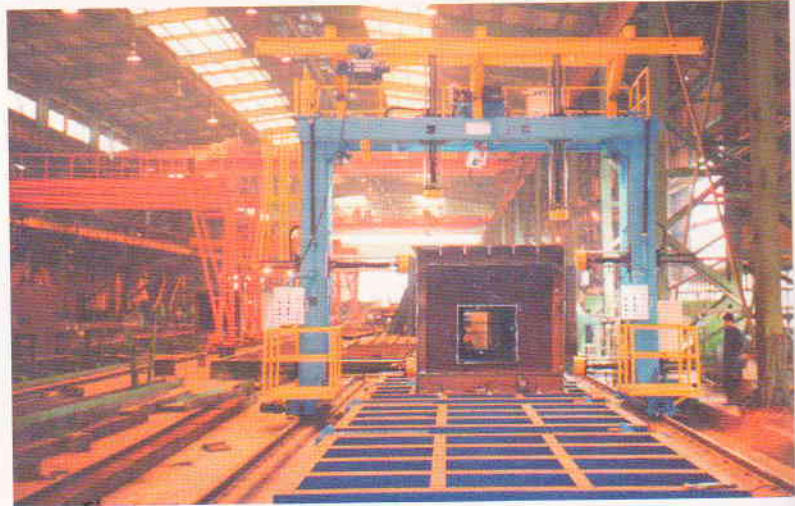
◀ 10 POLE CarriageType

⇒ 대조립기계 (BOX GIRDER FIT-UP M/C)



■ 특징

- 강력한 가압장치 탑재
- 강력한 전자석 당김장치 탑재
- 다이어프램 공급용 호이스트 탑재
- CO2 용접기 탑재
- CO2 FEEDER 상하용 HOIST 탑재
- SCREW 보호용 유압모터 채택
- 조작판넬이 양면에 설치되어 조작이 편리함.



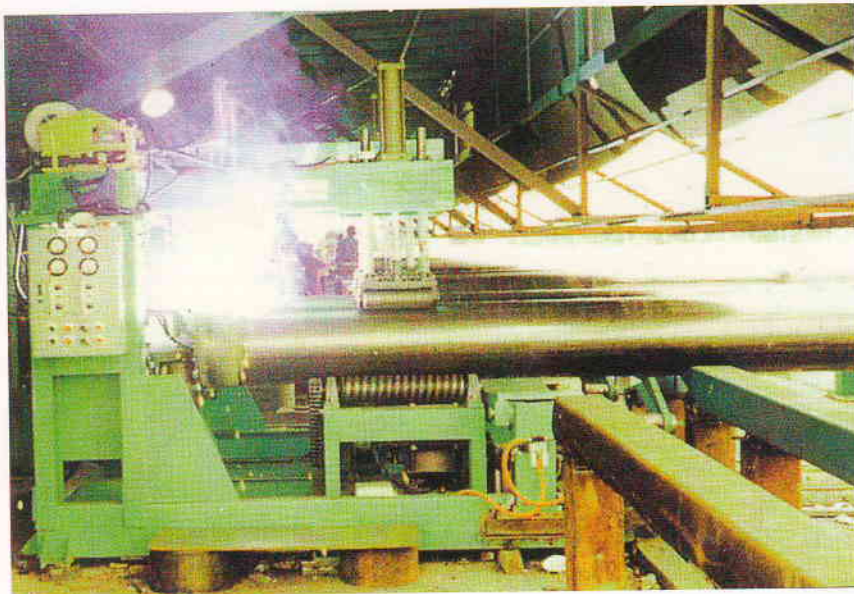
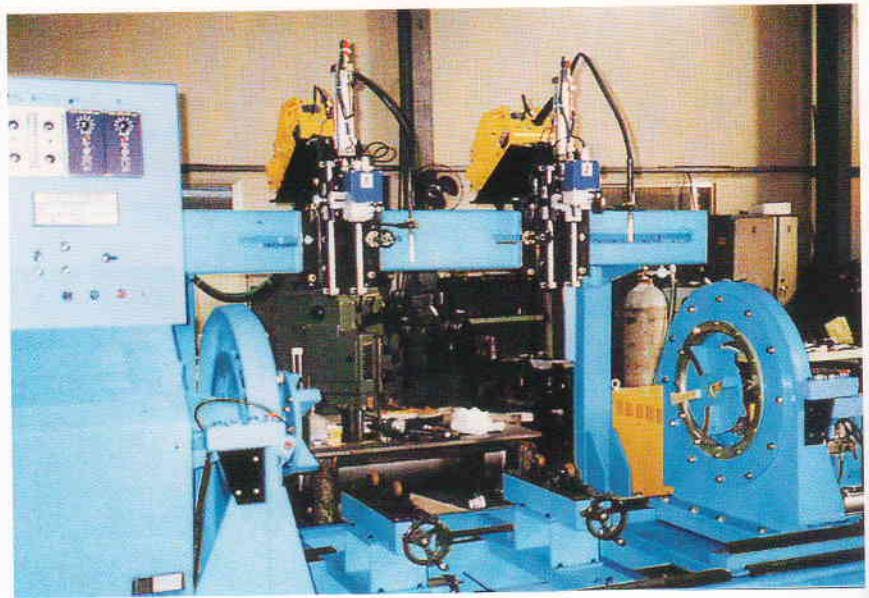
용접 관련 기계 및 대차 WELDING CONNECTION M/C & MOTORIZED CART



- 파이프 용접 설비 – PIPE WELDING EQUIPMENT
- CO2 FEEDER POSITIONER
- 신축붐 장치 – ELASTICITY BOOM EQUIPMENT
- MANIPULATOR
- UP/DOWN 3-AXLE POSITIONER
- POSITIONER
- TURNING ROLL
- OVER HEAD CRANE TYPE TURNING DEVICE
- MOVING TURNING DEVICE
- WELDING POSITIONER
- TILTING & TURNING DEVICE
- TURNING POSITIONER
- POSITIONER
- MOTORIZED CART

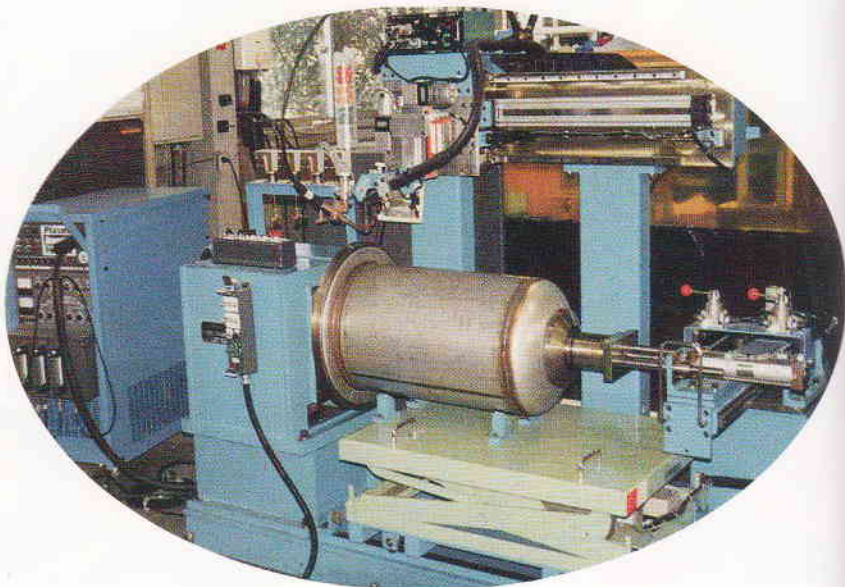
⇒ PIPE WELDING EQUIPMENT

원주자동용접장치 ▶
2 HEAD Type

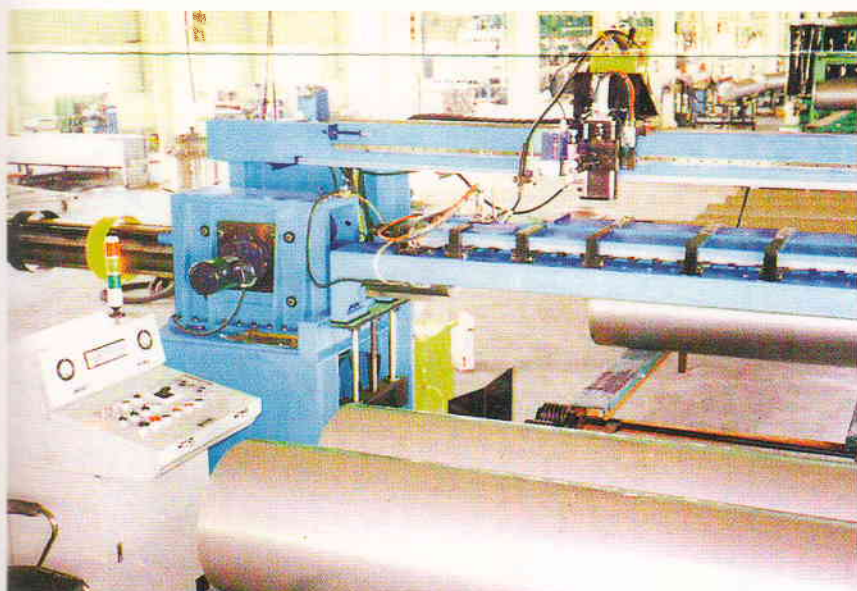


◀ FLANGE WELDING M/C

원주자동용접장치 ▶
1 HEAD Type

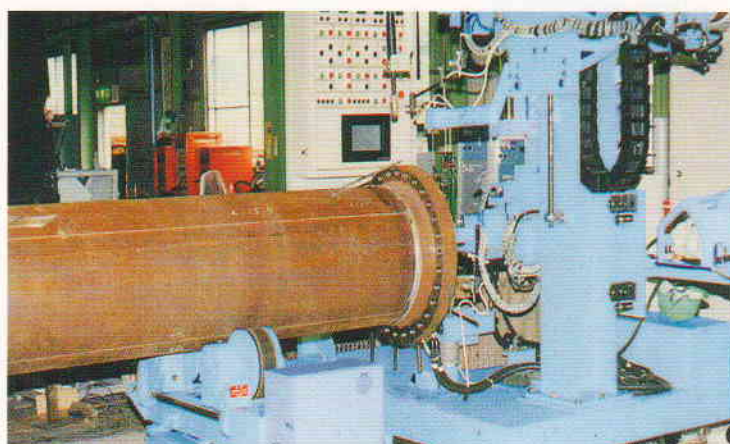


⇒ PIPE WELDING EQUIP. CO₂ FEEDER POSITIONER



◀ PIPE 직선 용접 장치
1 HEAD Type

FLANGE WELDING M/C ▶
CO₂ WELDER 600A
100% × 1POLE × OUTSIDE
CO₂ WELDER 600A
100% × 1POLE × IN SIDE



◀ CO₂ FEEDER
POSITIONER

⇒ 신축붐장치 (ELASTICITY BOOM EQUIP. WITH CO2 WELDER)

1. 교량 내부 용접시 사용하면 능률적이다.
2. 조선소 및 탱크 내부 용접시 사용
3. 건물 내부에서 사용한다.
4. 사람이 탑승 할 수 있다.



■ 특 징

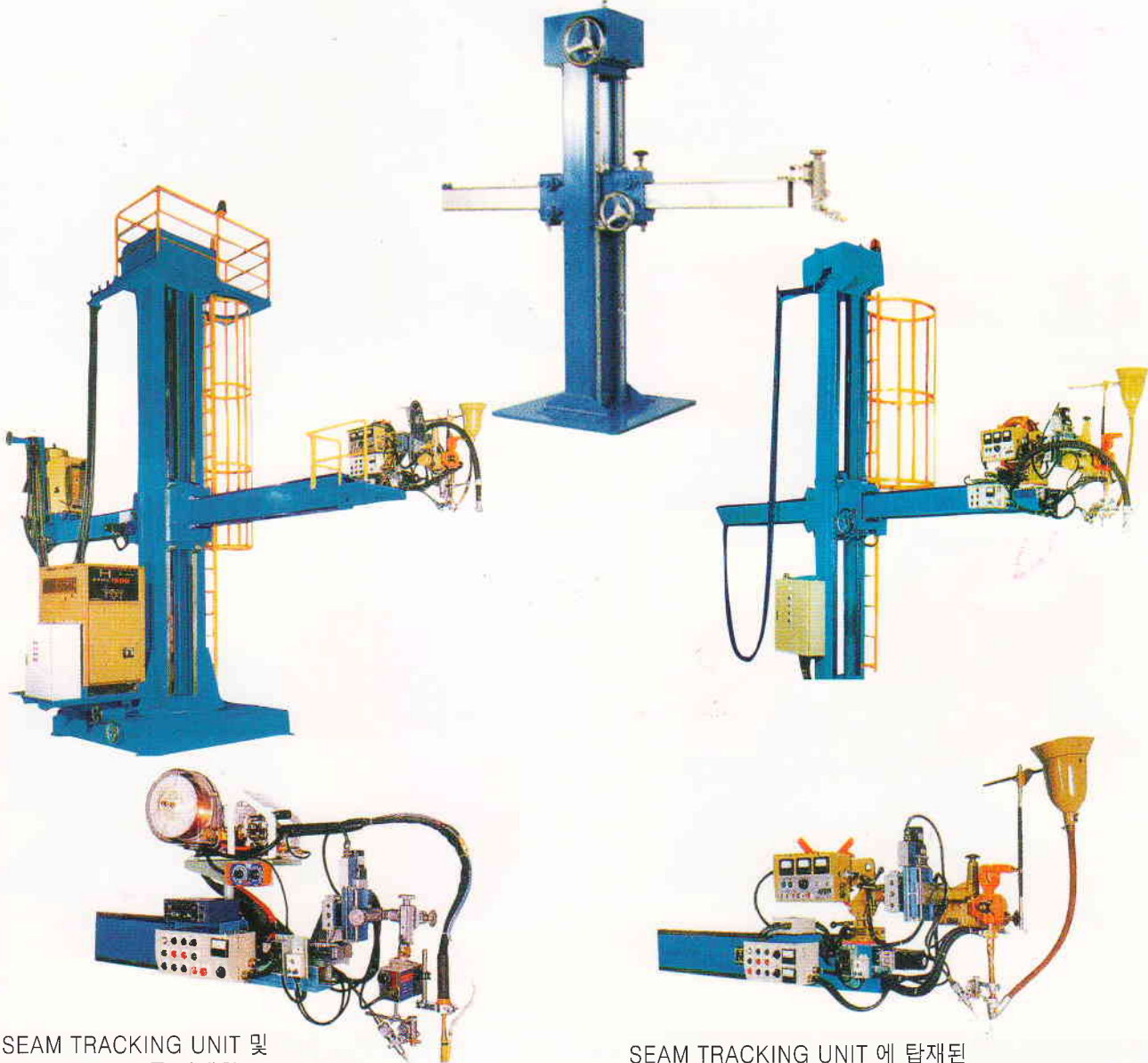
- 신축이 최대 8m까지 가능하다.
- 상하높이가 1500mm까지 조절이 가능하다.
- 전장 : 신장시 12300mm, 축소시 4150mm
- 회전각도 : $\pm 5^\circ$ • 중량: 4650kg
- 높이 : 최소 2280mm 최대 3780mm
- 신축속도 : 5.5m/min 승강속도 : 1.5m/min

➔ MANIPULATOR & TURNING ROLL



특징

- 고강성의 Double Column으로 제작되어 주행 및 상,하, 좌, 우가 Smooth하게 동작한다.
- 상하동작을 위해 체인을 사용하지 않고 Screw를 사용하여 추락의 위험이 전혀 없어 안전하다.



SEAM TRACKING UNIT 및
WAVING UNIT를 탑재한 CO₂ HEAD

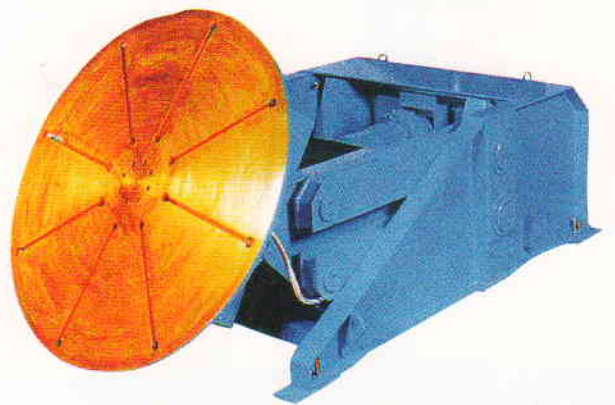
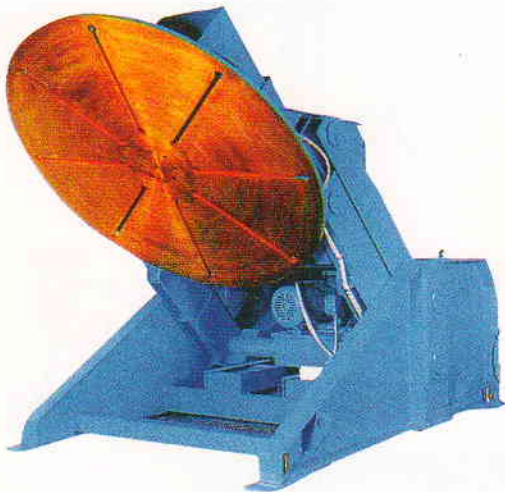
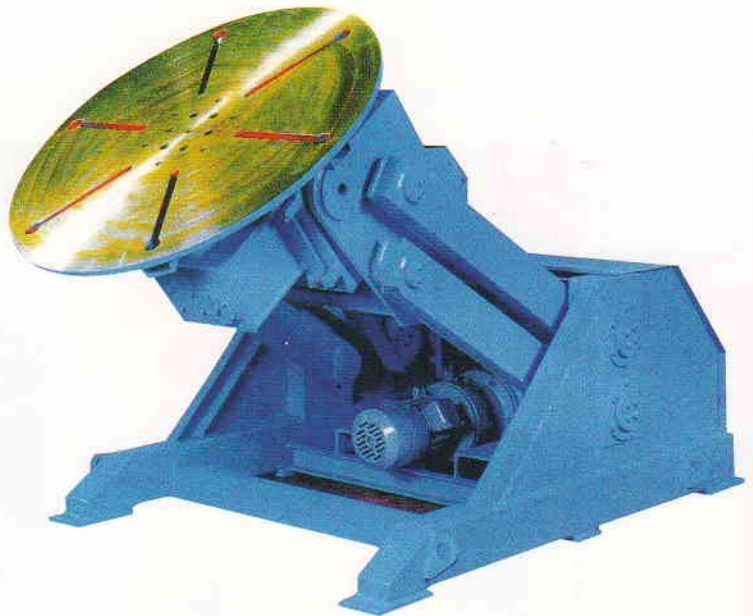
SEAM TRACKING UNIT 에 탑재된
SUBMERGED HEAD

SPECIFICATION

MODEL No.	UP/DOWN STROKE (mm)	BOOM SPEED (mm/min)	TRAVERSING STROKE (mm)	TRAVERSING SPEED (mm/min)	BOOM END LOAD (kg)	COLUMN TURN METHOD	COLUMN TURN ANGLE
HMP-1010	1000	~	1000	~	30	MANUAL	360°
HMP-2020	2000	800	2000	150~1500	100	"	"
HMP-3030	3000	600	3000	"	100	"	"
HMP-4040	4000	600	4000	"	150	"	"
HMP-5050	5000	600	5000	"	200	"	"
HMP-6060	6000	600	6000	"	200	"	"

■ 특 징

- 3축을 전동에 의해 동작하며 장시간 원래위치에 변화없이 지탱한다.
- 테이블 각도를 자유자재로 조절한다.
- 보수 점검이 용이하다.
- 고강성 구조이다.
- 적은 동력으로 큰 힘을 발휘한다.

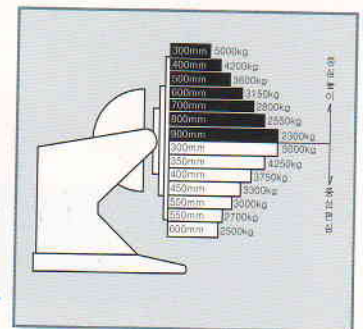
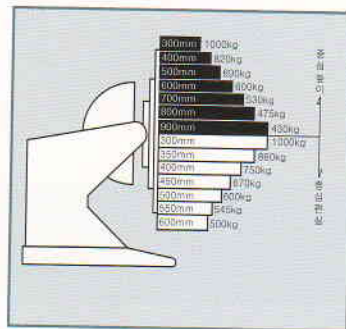
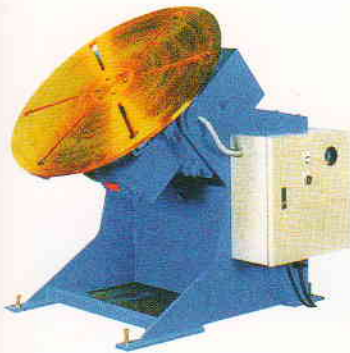
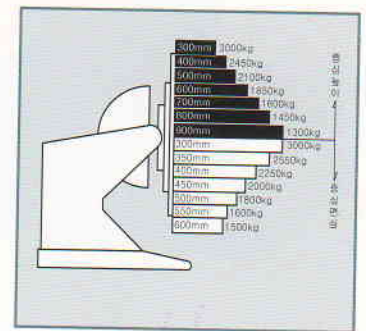
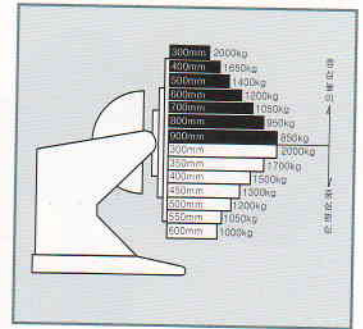
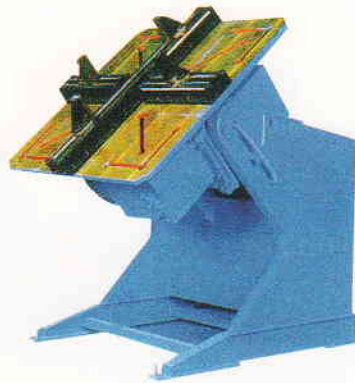


■ SPECIFICATION

MODEL No.	MAX CAPACITY LOAD(kg)	OFF SET LENGTH (mm)	CENTER HEIGHT (mm)	TABLE SIZE (mm)	TABLE RPM (rpm)	SLOPE ANGLE (°)	SLOPE SPEED (sec)	UP/DOWN STROKE (mm)
HUDP-0150	150	50	150	350	0.5~5	0~120°	28	505
HUDP-1000	1000	300	300	1000	0.05~0.5	0~135°	56	600
HUDP-2000	2000	"	"	1100	0.035~0.35	"	56	735
HUDP-3000	3000	"	"	1200	"	"	56	800
HUDP-5000	5000	"	"	1400	0.025~0.25	"	90	900

특징

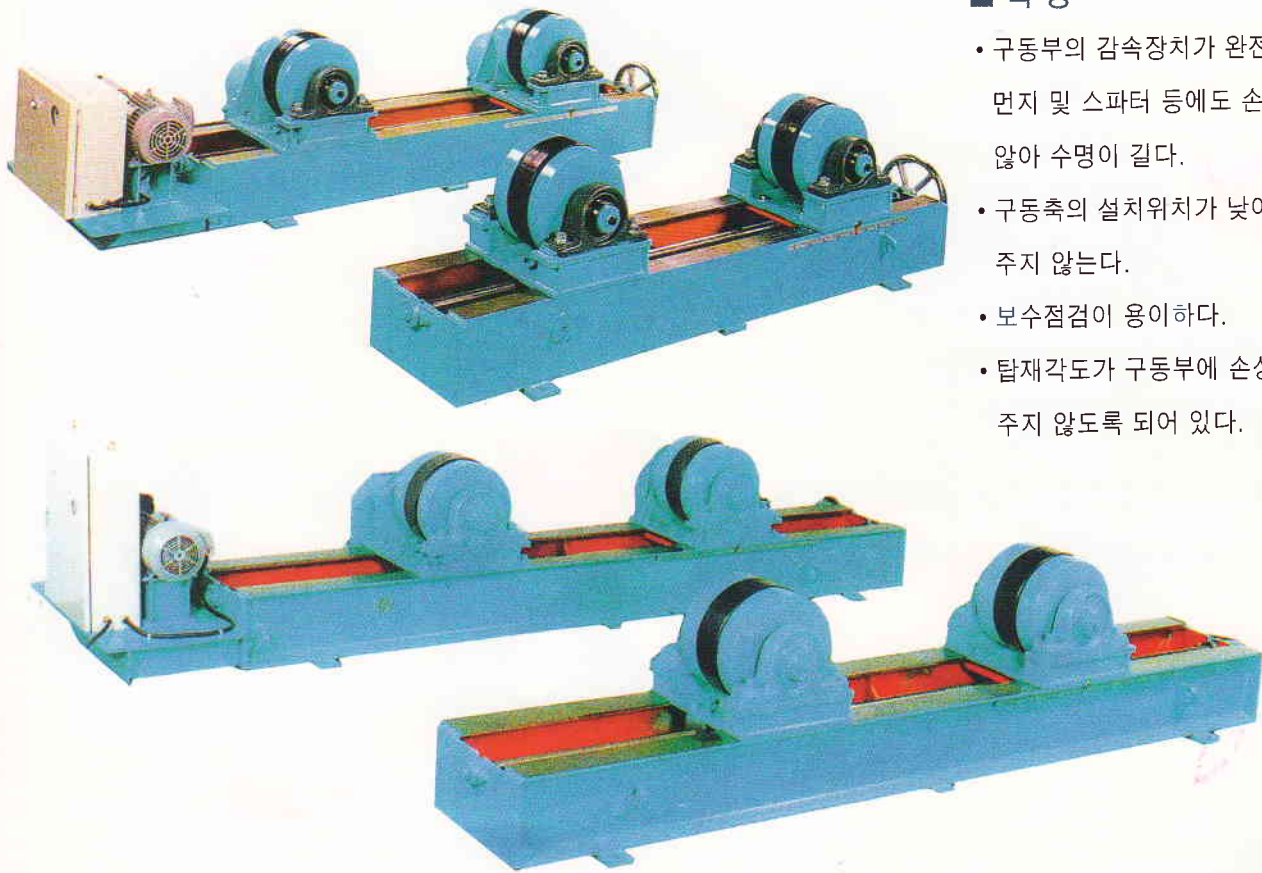
1. 고강성 구조로 수명이 길다
2. PENDANT S/W에 의해 간단하게 경사조절이 가능하다.
3. 경사부에 ENCODER를 설치하여 NC ROBOT와 같이 사용 할 수도 있다.
4. 편심하중에 대응하도록 구조가 설계되어 있다.
5. 변속조작은 Dial에 의해 Vector Inverter로 조작되도록 되어 있다.



SPECIFICATION

MODEL No.	MAX CAPACITY LOAD(kg)	OFF SET CENTER (mm)	CENTER HEIGHT (mm)	TABLE Type (mm)	TABLE RPM (rpm)	SLOPE ANGLE (°)	SLOPE SPEED (sec)	OPERATION METHOD
HPD-0700	700	200	200	Ø 600	0.1~1	0~90°	90°/33sec	6POINT PENDANT S/W
HPD-1000	1000	300	300	Ø 1000	0.025~0.25	0~135°	135°/56sec	
HPD-2000	2000	"	"	□ 1100	0.017~0.34	"	"	
HPD-3000	3000	"	"	□ 1200	0.025~0.25	"	"	
HPD-5000	5000	"	"	□ 1400	0.027~0.27	"	135°/90sec	
HPD-8000	8000	"	"	□ 1700	0.023~0.23	"	"	
HPD-1200	12000	"	400	□ 2000	0.023~0.23	"	135°/120sec	
HPD-1500	15000	"	"	□ 2200	0.023~0.23	"	"	

TURNING ROLL (SMALL, MIDDLE LOAD Type)



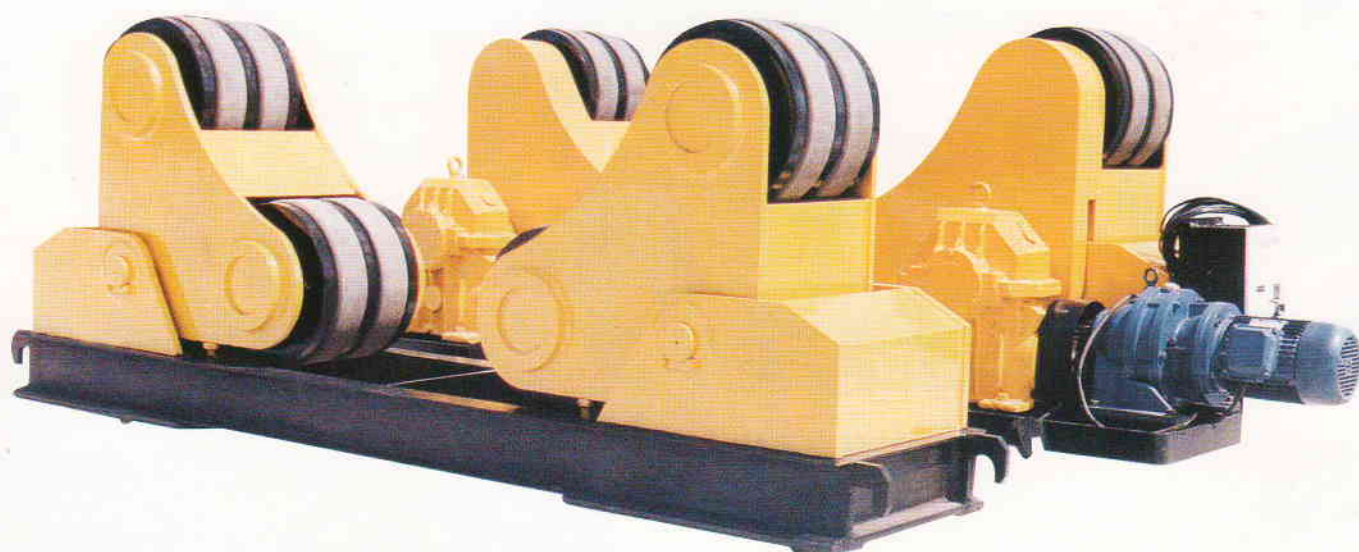
특징

- 구동부의 감속장치가 완전 밀봉되어 먼지 및 스파터 등에도 손상이 가지 않아 수명이 길다.
- 구동축의 설치위치가 낮아 손상을 주지 않는다.
- 보수점검이 용이하다.
- 탭재각도가 구동부에 손상을 주지 않도록 되어 있다.

SPECIFICATION

형 식		최대탑재 하중(kg)	탑재직경 (ø mm)	TURNING SPEED (mm/min)	ROLL OUT-DIA. (mm)	ROLL WIDTH (mm)	MOTOR (kw) 3 ø	구동방식	변속방식
MODEL No.		LOAD CAPA.	DIA.						
소 형	HTR-1	1,000	50~1500	80~850	ø 150	65	0.1	단륜	DIAL
	HTR-3	3,000	200~2,000	90~950	ø 170	100	0.2	단륜	"
	HTR-5	5,000	300~3,000	100~1,000	ø 250	130	0.4	복륜	"
중 형	HTR-10	10,000	400~3,000	400~3,000	ø 270	130	0.75	"	"
	HTR-20	20,000	400~3,500	400~3,500	ø 310	170	1.5	"	"
	HTR-30	30,000	400~4,000	400~3,800	ø 330	190	2.2	"	"
	HTR-40	40,000	400~4,000	400~4,000	ø 350	220		"	"
	HTR-50	50,000	400~5,000	500~6,000	ø 390	250	3.7	"	"
HTR-60	60,000	400~6,000	500~6,000	ø 420	260	"		"	

TURNING ROLL (HIGH LOAD Type)



SPECIFICATION

형 식 MODEL No.	최대탑재 하중(kg) LOAD CAPA	탑재직경 (ϕ mm) DIA.	TURNING SPEED (mm/min)	ROLL OUT-DIA. (ϕ mm)	ROLL WIDTH (mm)	MOTOR (kw) 3 ϕ	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
HTR-60D	60,000	700~5,000	100~1,000	ϕ 420	260	3.7	3080	1005	1050
HTR-80D	80,000	700~5,500		ϕ 470	300		3080	1060	1050
HTR-100D	100,000	700~6,000		ϕ 500	320	5.5	3695	1360	1280
HTR-150D	150,000	700~7,000		ϕ 550	340	7.5	4150	1450	1390
HTR-200D	200,000	700~8,000		ϕ 600	350		4150	1580	1390
HTR-300D	300,000	1,000~8,000		ϕ 650	400	11	4960	1670	1480
HTR-500D	500,000	1,000~10,000		ϕ 800	550		4960	1790	1480
HTR-700D	700,000	1,000~10,000		ϕ 900	600	15	5250	1930	1590

⇒ OVER HEAD CRANE Type TURNING DEVICE



■ 생산사양

- 10Ton × SPAN × HEIGHT
- 15Ton × SPAN × HEIGHT
- 20Ton × SPAN × HEIGHT
- 25Ton × SPAN × HEIGHT
- 30Ton × SPAN × HEIGHT

■ 특 징

1. 흔들림이 전혀 없이 안전하게 회전한다.
2. 기계장치가 충분한 강도와 POWER를 갖고 있어 안전적이다.
3. 신속, 안전하게 회전하며 생산성 향상에 기여한다.



◀ CHAIN Type
TURNING DEVICE

⇒ 이동식 회전장치 (MOVING TURNING DEVICE)



◀ BELTED Type
TURNING DEVICE

■ 생산사양

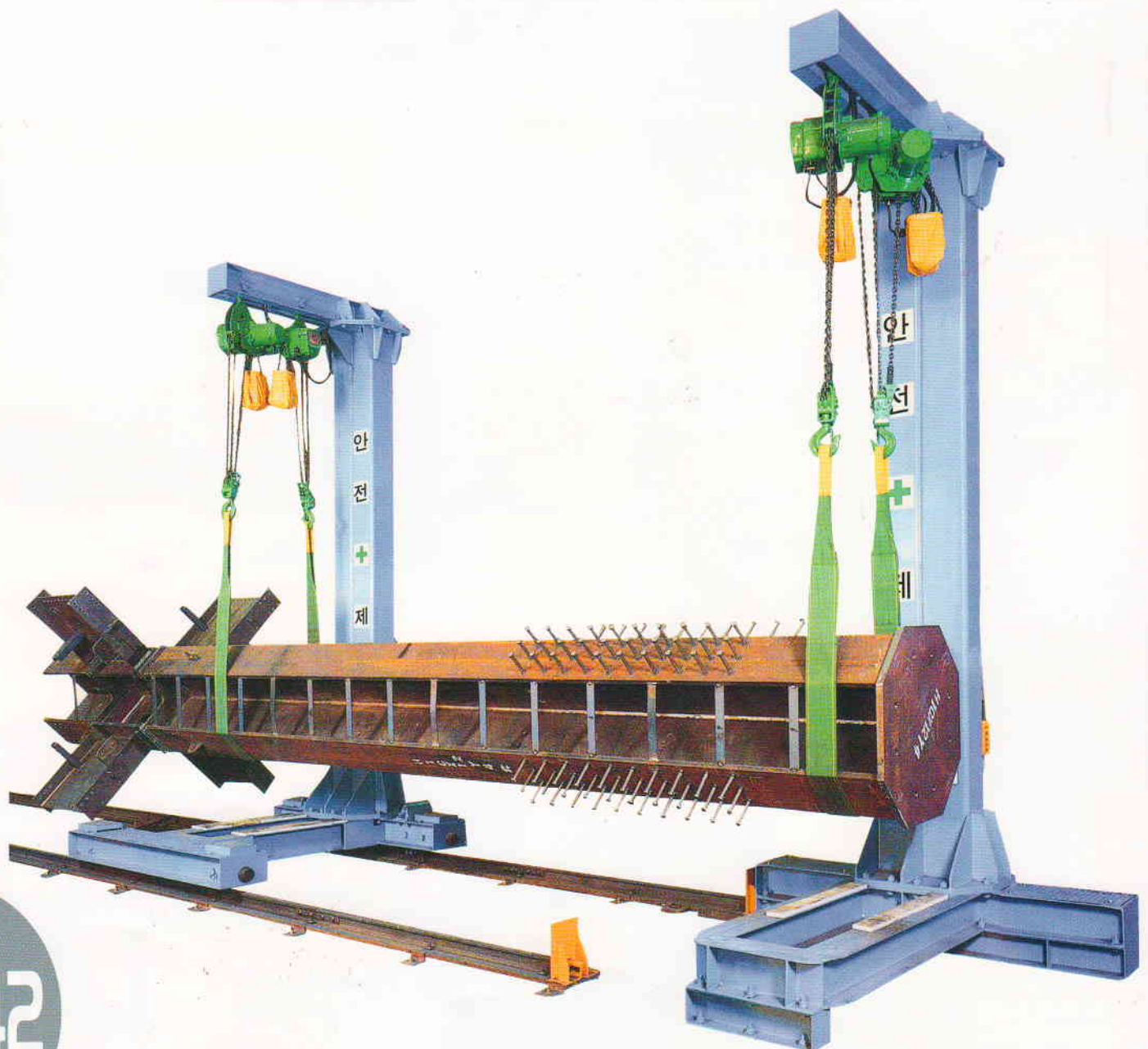
- 30Ton HMT-30
- 40Ton HMT-40
- 50Ton HMT-50



⇒ WELDING POSITIONER (HOIST Type)



1. 하향 용접 용이
2. TRA-CART와 조합하여 사용하면 IN-PUT와 OUT-PUT이 용이하다.
3. 생산성 향상
4. CAPACITY : 10 TON, 15 TON, 20 TON

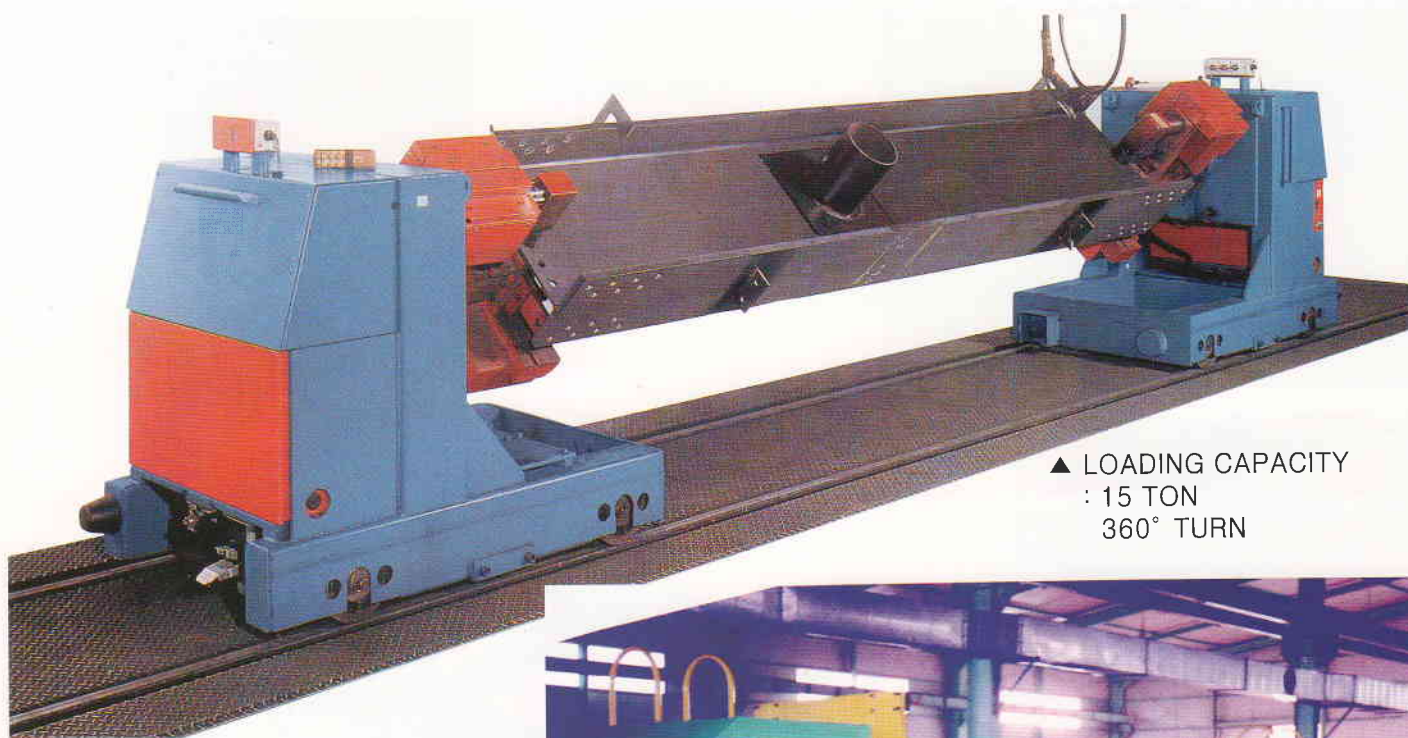


TURNING & TURNING DEVICE



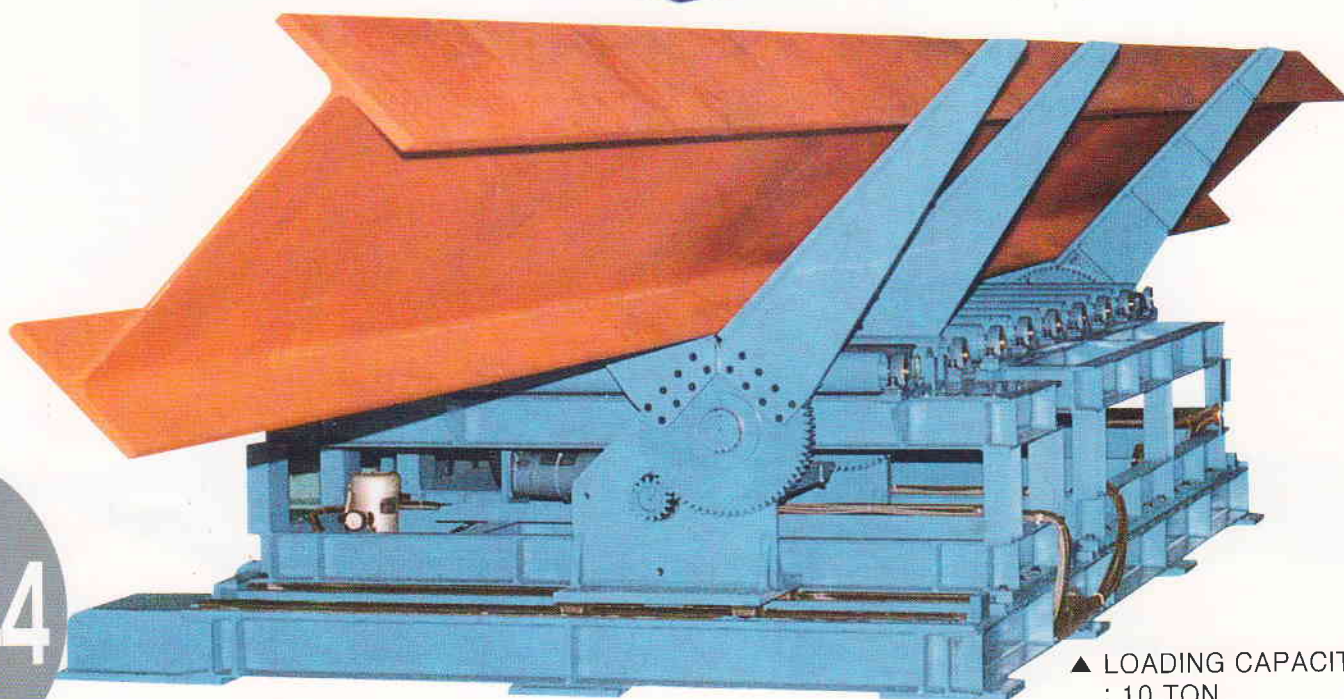
1. 하향 용접이 용이
2. 취급 및 조작 간편
3. CAPACITY : 2 TON, 5 TON
4. IN-PUT 및 OUT-PUT용이



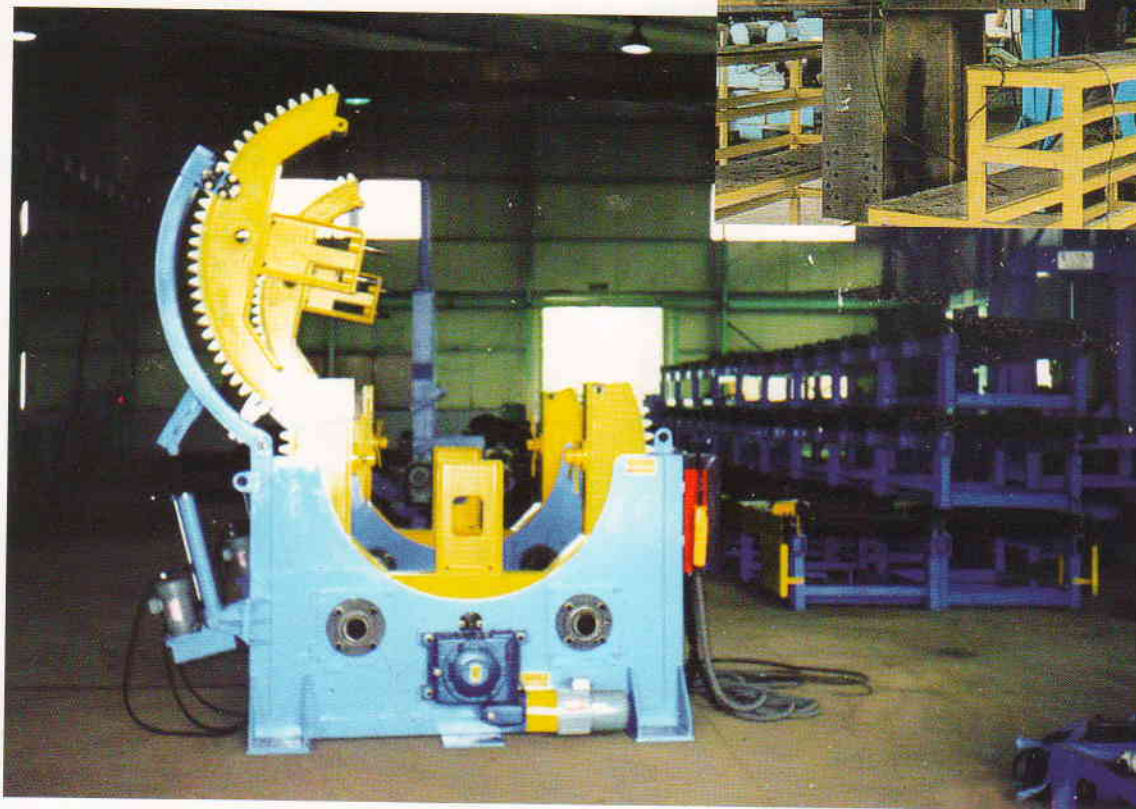
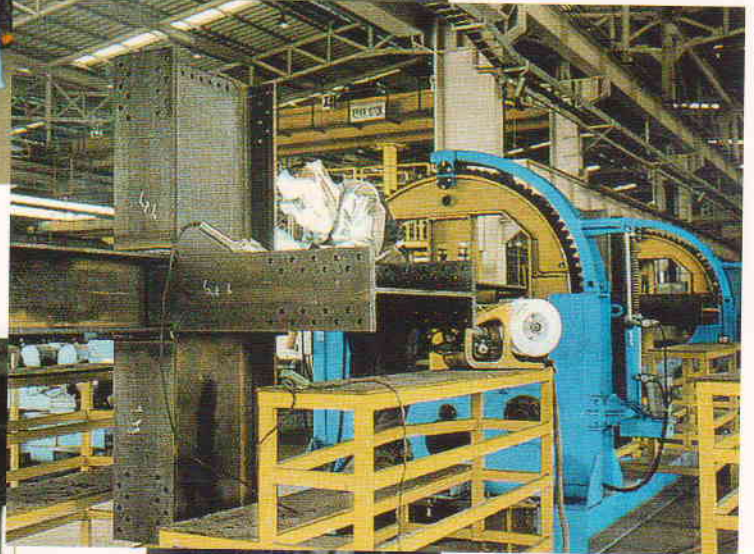
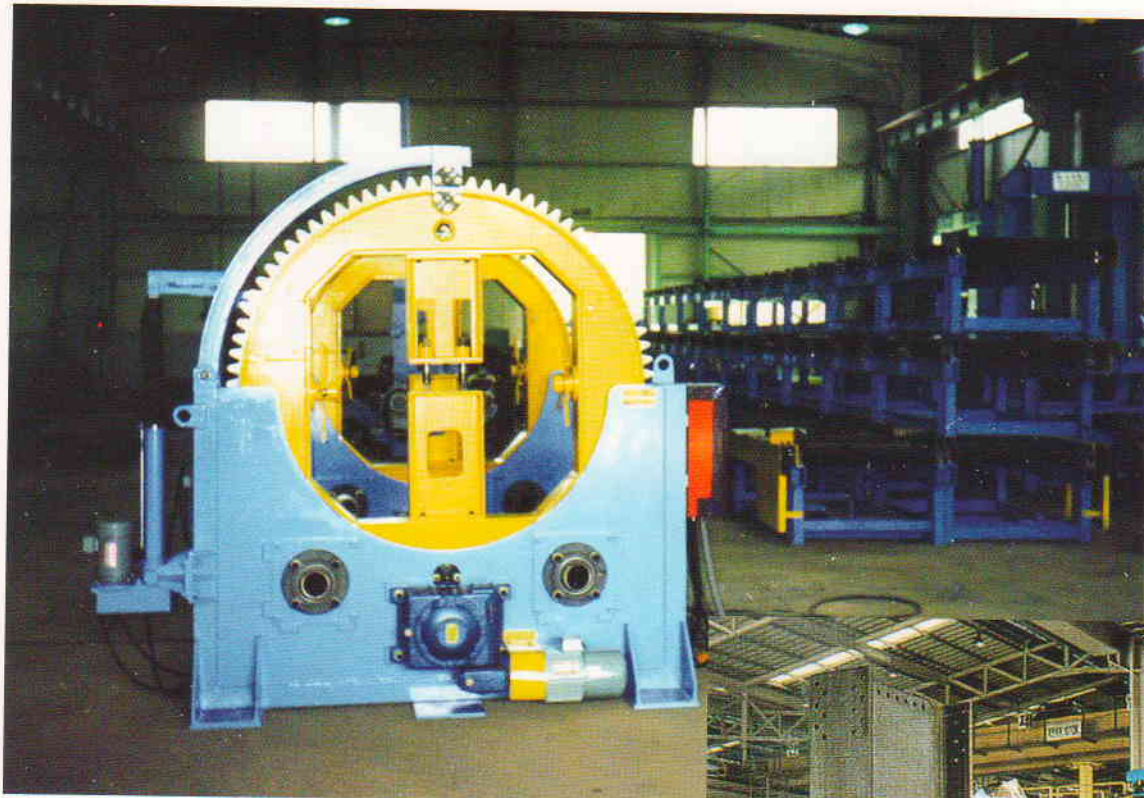


▲ LOADING CAPACITY
: 15 TON
360° TURN

LOADING CAPACITY▶
: 20TON
360° TURN



▲ LOADING CAPACITY
: 10 TON
90° TURN



■ MODEL No. : HP0860-5D HP1090-10D HP1090-15D HP1090-20D
 ■ 탑재 하중 : 5 TON 10 TON 15 TON 20 TON
 2EA/1UNIT, VECTOR INVERTER SPEED CHANGE, SCREW JACK OPEN Type

➡ 대차 (MOTORIZED CART)



▲ 40 TON TURNING CART
* 용도 : BOX 내, 외면 용접시 회전용



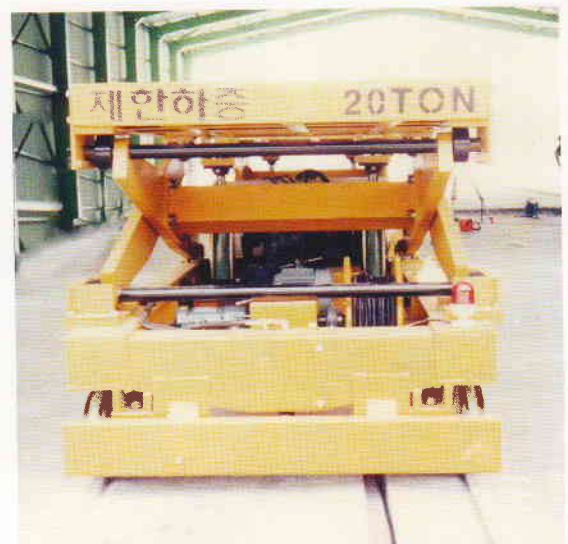
▲ 40 TON COIL CART



▲ 25 TON CART



▲ 60 TON LIFTING CART
* 용도 : BOX 도장장 이송용



20 TON CART ▶



HOLY ENG.

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