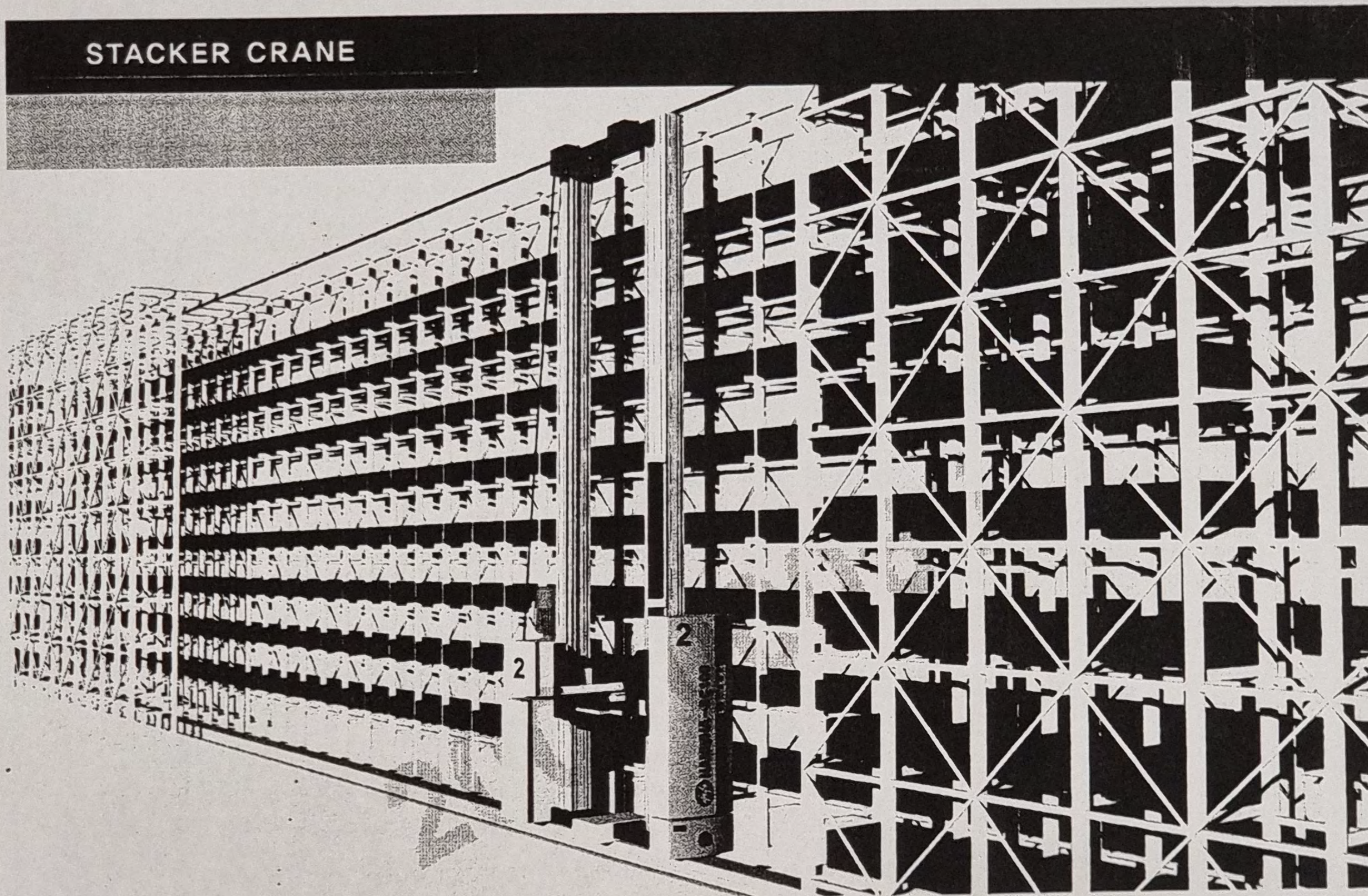


HUYNDAI MOTOR CZECH SHOP

CLUTCH HOUSING

STACKER CRANE & CONVEYOR SYSTEM

STACKER CRANE



2007.08

PJT No. 2007AB004

0	2007. 8				
REV.	DATE	DESCRIPTION	PREP. BY	CHECHED BY	APPR. BY

 Hanwha TechM
F.A.E / LOG

<http://www.hanwhatechm.co.kr>

1. PREFACE

1.1 PURPOSE OF GHE MACHINE

THIS SYSTEM IS LOGISTICS LINE AND AUTO STORAGE SYSTEM TO MOVE AND STOCK TRANSMISSION CLUTCH HOUSING.

1.2 FACILITY SPECIFICATIONS.

1. HANDLING OBJECT : TRANSMISSION CLUTCH HOUSING
2. CYCLE TIME : 300,000EA/YEAR
3. TRANSPORT WEIGHT : 30KGg / PALLET (INCLUDE WORK)
4. UTILITY
 - SOURCE OF MAIN ELECTRICITY : 400V, 50Hz, 3Φ
 - SOURCE OF CONTROL : DC 24V
 - SOURCE OF MAIN AIR : 5~6Kg/cm²
5. ENVIRONMENT CONDITION
 - TEMPERATURE : -20 ~ 50°C
 - HUMIDITY : 30% ~ 80%
 - NOISE : 80dB

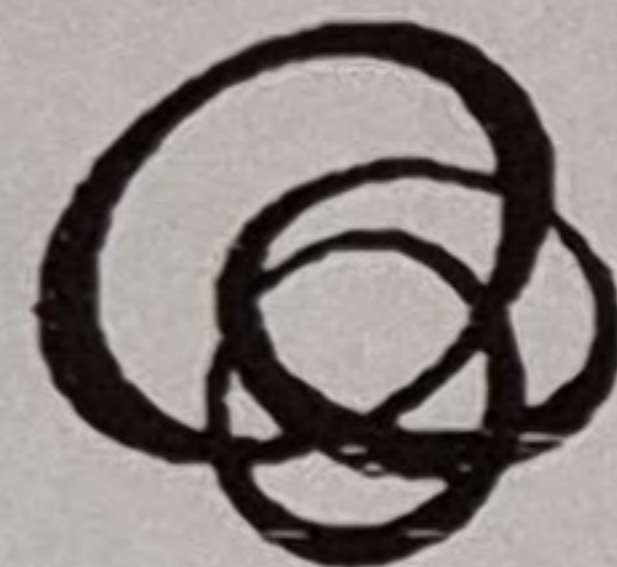
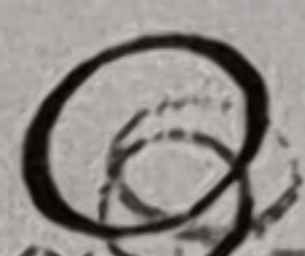
2. NAME AND ADDRESS OF THE MANUFACTURE**2.1 MANUFACTURER:**

HANWHA TECHM. CO

2.2 MANUFACTURER ADDRESSADDRESS : 59 SEONGSAN-DONG, CHANGWON CITY, GYOENGNAM PROCINCE,
KOREA

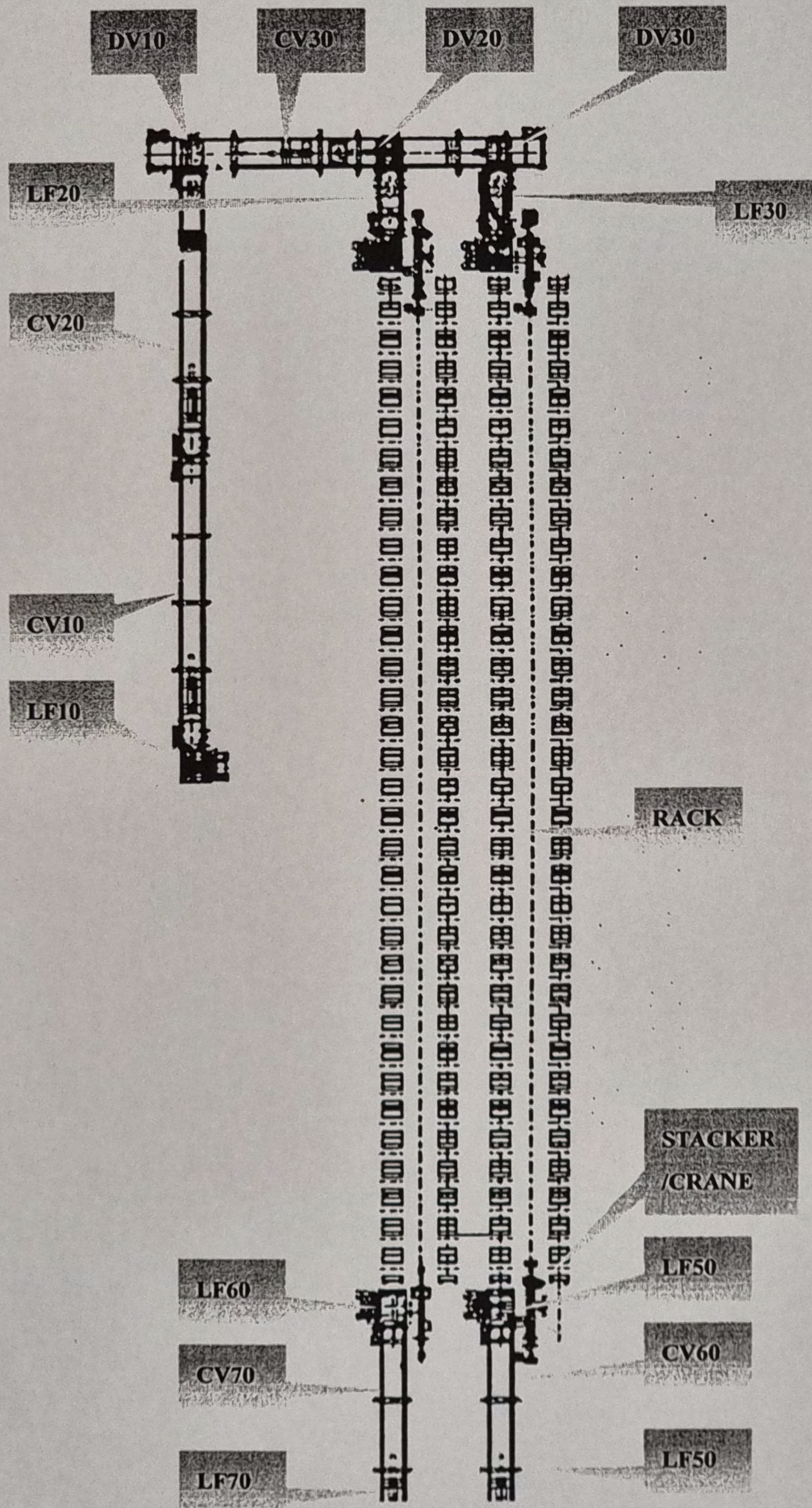
TEL NO.: 82-55-280-8885

FAX NO.: 82-55-280-4614

2.3 MARK OF CONFORMITY**Hanwha TechM**59, Sung San-Dong, Changwon-City
Kyungsangnam-Do, Korea 641-315
Phone : +82-55-280-8885DESIGNATION :
SERIAL NUMBER :
THE YEAR OF CONSTRUCTION :SUPPLY : VOLTS 400VAC 3 PHASE 50 Hz
DISCONNECT RATING : 60 AMPS
TOTAL CONNECTED HP : 15.4 KVA: 11.3
FULL LOAD CURRENT : 13.5 AMPS
SHORT CIRCUIT WITHSTAND RATING : 5K AMPS

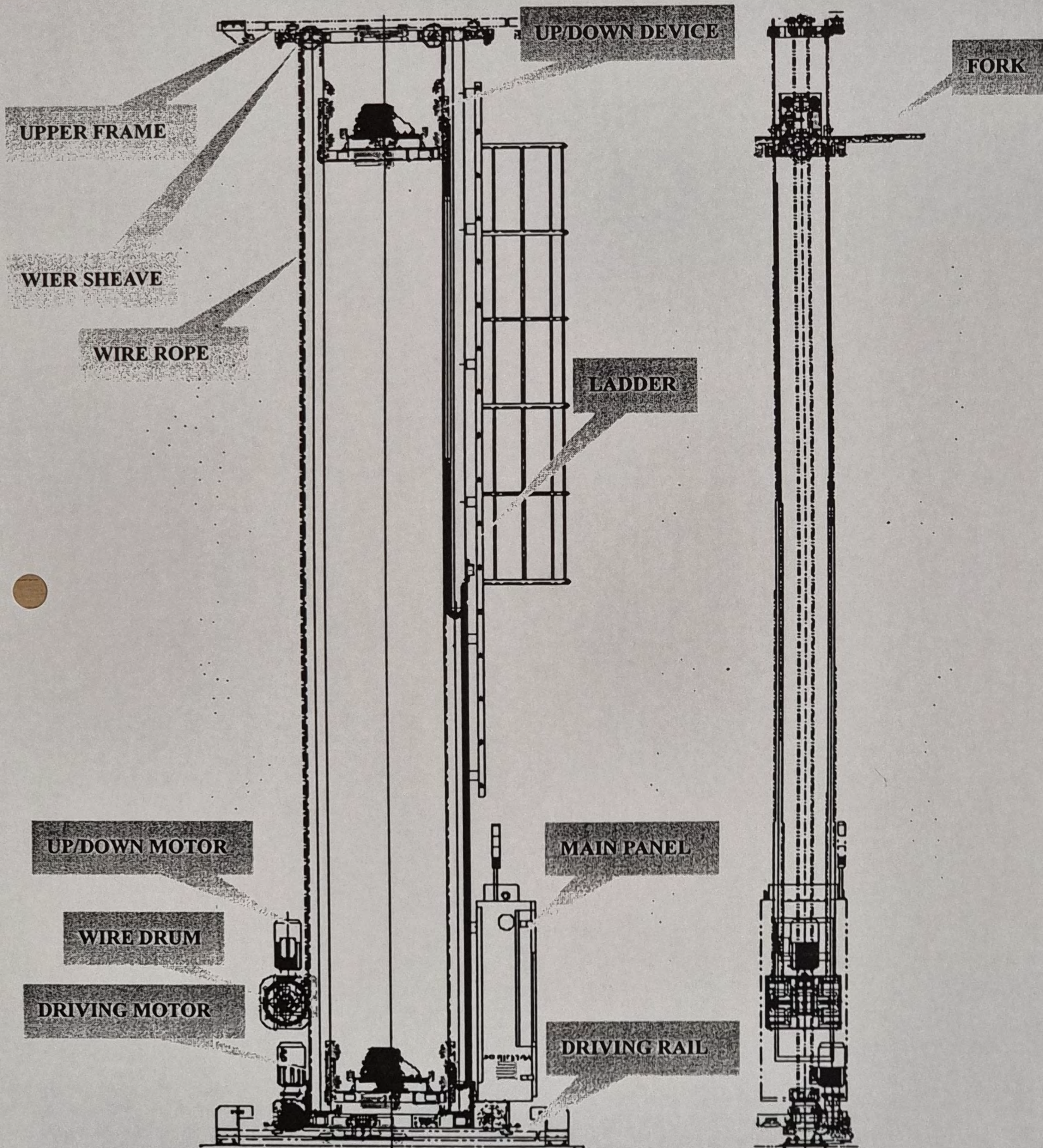
3. DISCRIPTION OF MACHINE

3.1. DESCRIPTION OF THE VISUAL APPEARANCE



3.2. SPECIFICATION

3.2.1. STACKER CRANE PART' S NAME



S P E C I F I C A T I O N

TRAVELLING	SPEED	160 m/min
	MOTOR	1.5kW - 4P - 14.64 - SEW KHF47DT90L4BMG HP-M4-B. 90DEG
HOISTING	SPEED	40 m/min
	MOTOR	1.5kW - 4P - 130.22 - SEW K67DT90L4BMG HP-M4-1A+B. 180DEG
FORMING	SPEED	40 m/min
	MOTOR	0.1kW - 4P - 121 (SUMITOMO) CH.M01-5067-B-21
LOAD WEIGHT		-
WORK SIZE		309W - 473L - 242H
POWER SOURCE		400V 50Hz
QTY		2 set

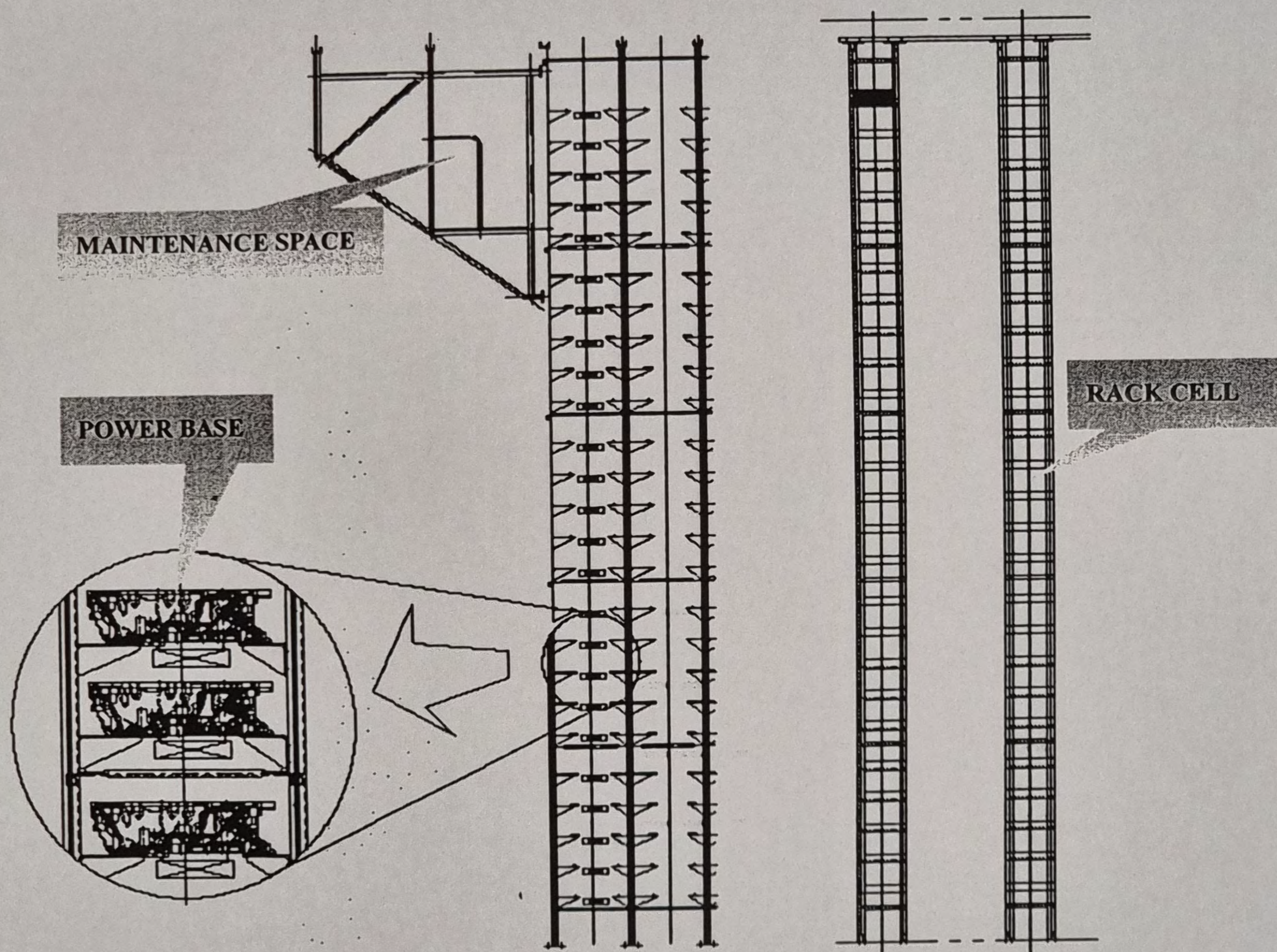
3.6 RACK

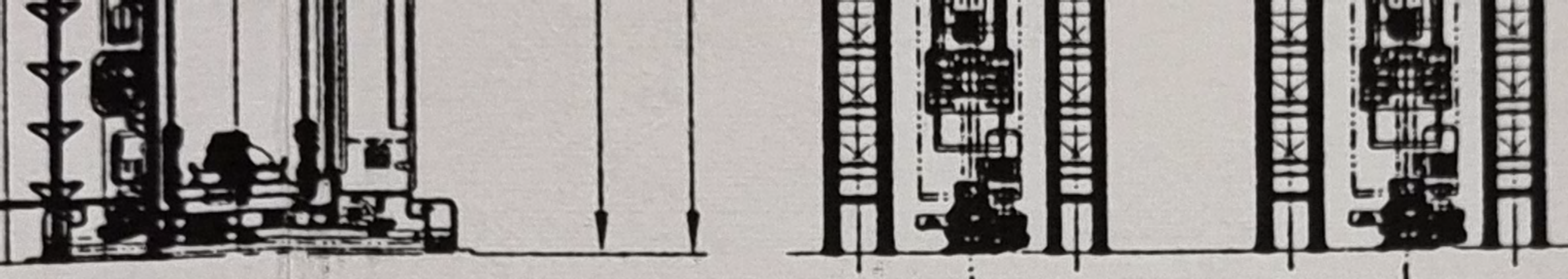
RACK IS STRUCTURE TO STACK WORK.

IT HAS SATISFING STRUCTURE TO STACK AND OUT OF WORK FROM STACKER CRANE.

IT IS EVERYTIME CLEAN BECAUSE OF COVER MADE OF TO PREVERNT DIRT AND SUBSTANCE MATTER.

IT HAS 1812 CELL.



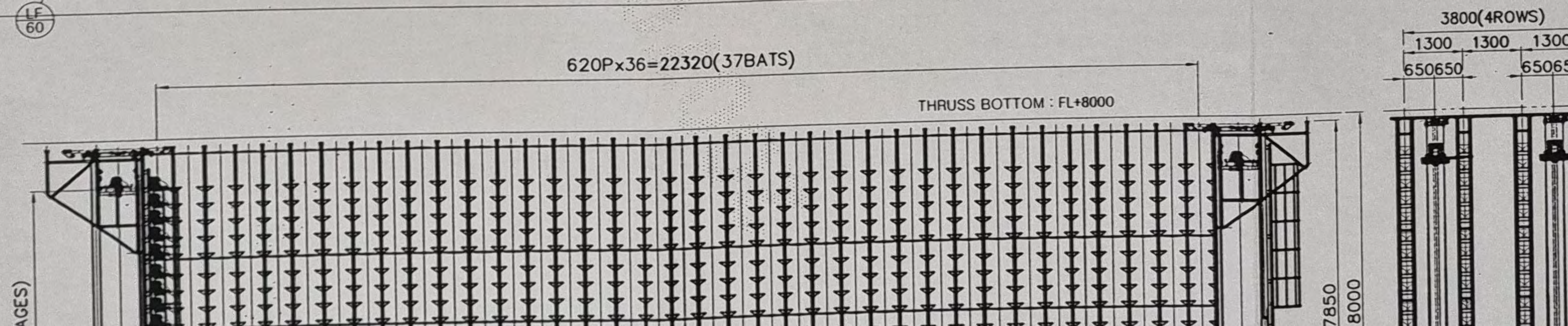
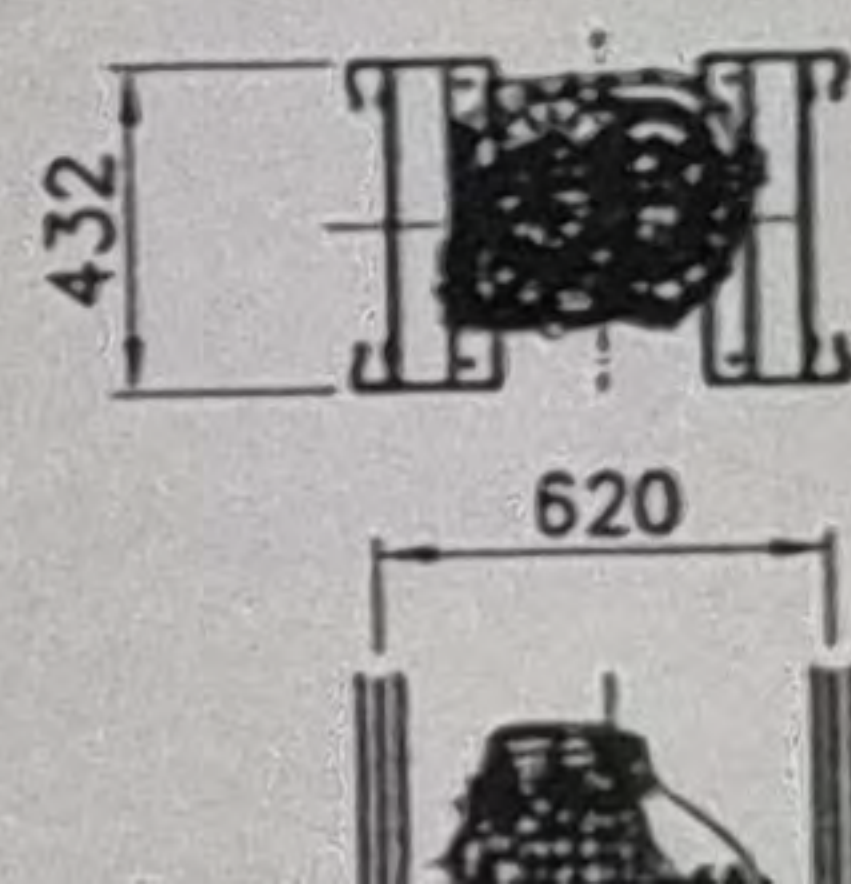
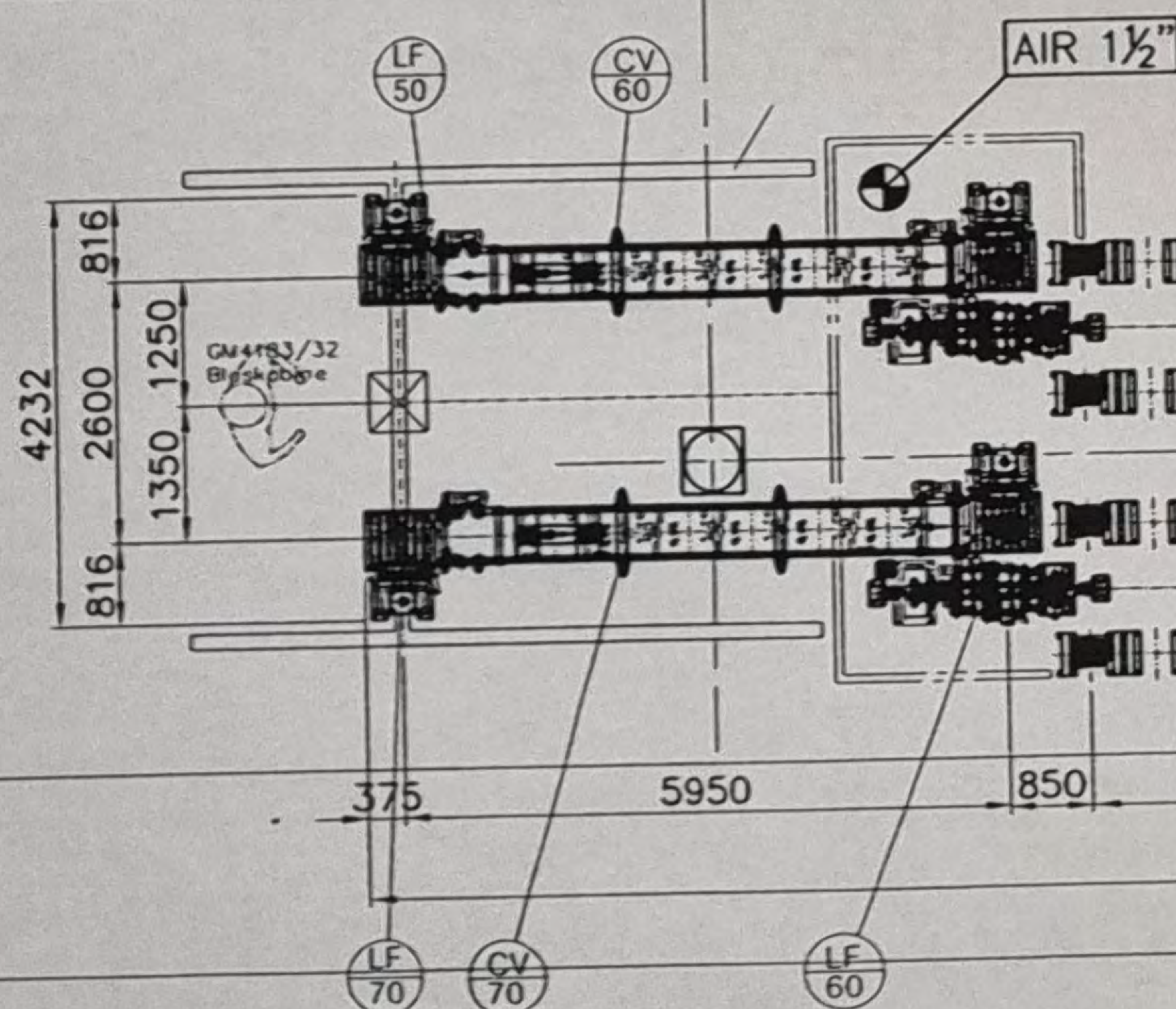
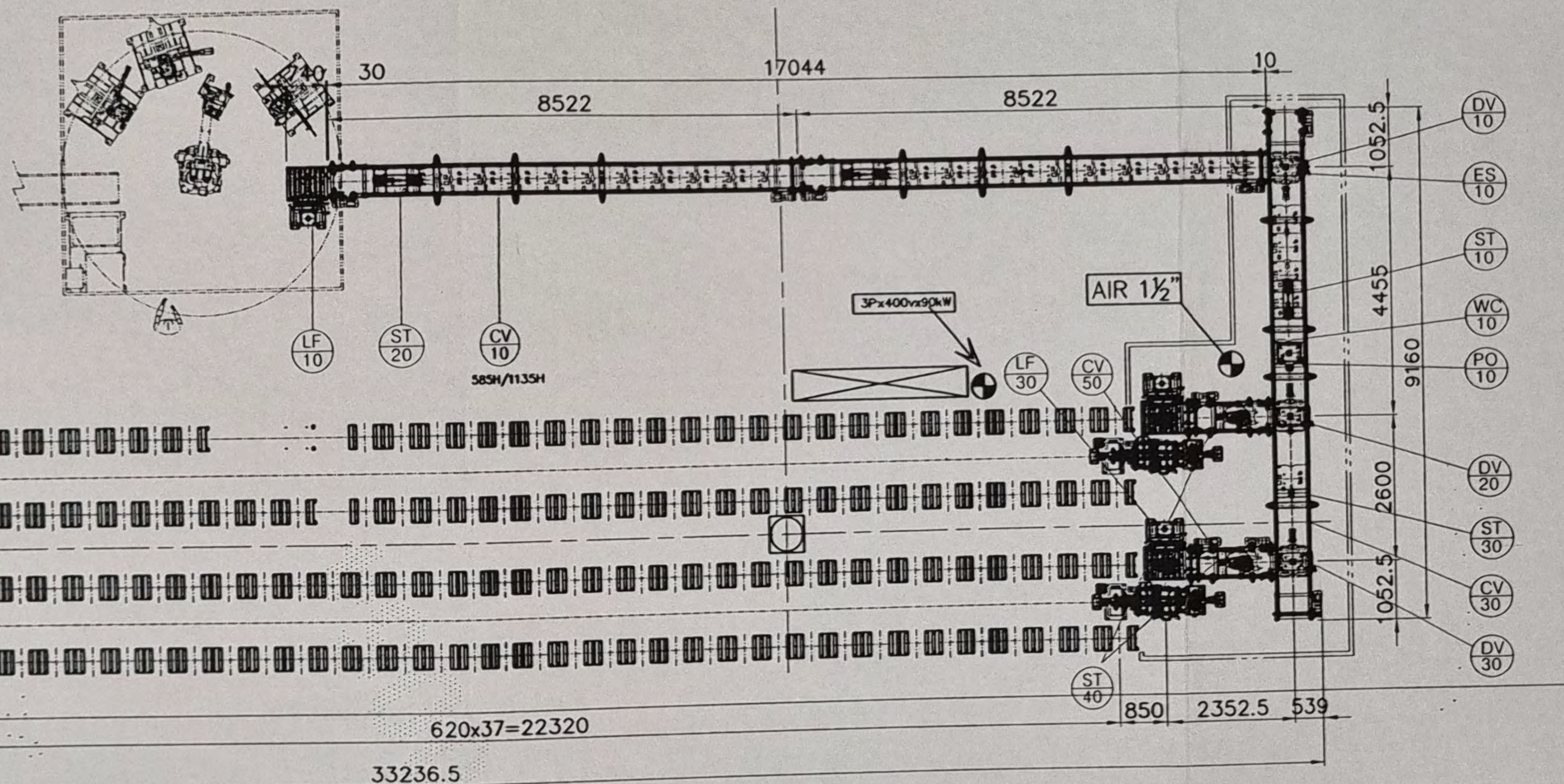


OR 5-43(0.4KW) 5-43(0.4KW) 5-43(0.4KW)	NO.	NAME & SIZE		MAT'L	UNIT WT. kg	Q'TY	TOTAL WT. kg	REMARKS	
	TITLE								
	HYUNDAI MOTOR CZECHO SHOP								
	T/M CASE AS/RS								
	LAYOUT								
									
It is banned to copy and distribute this design sheet without any exception from our company, because it is our property. & We hope to have a conference with designer about questions of B/M measures on sheet before shearing materials.					DATE	DRAWN	DESIGNED	CHECKED	APPROVED
					2007.04.13	S.J.LEE			
SCALE 1/58		SIZE A1	DWG NO. 2007AB004-HCTC-LA00-R1				REV. 1		
CKED		APPROVED							

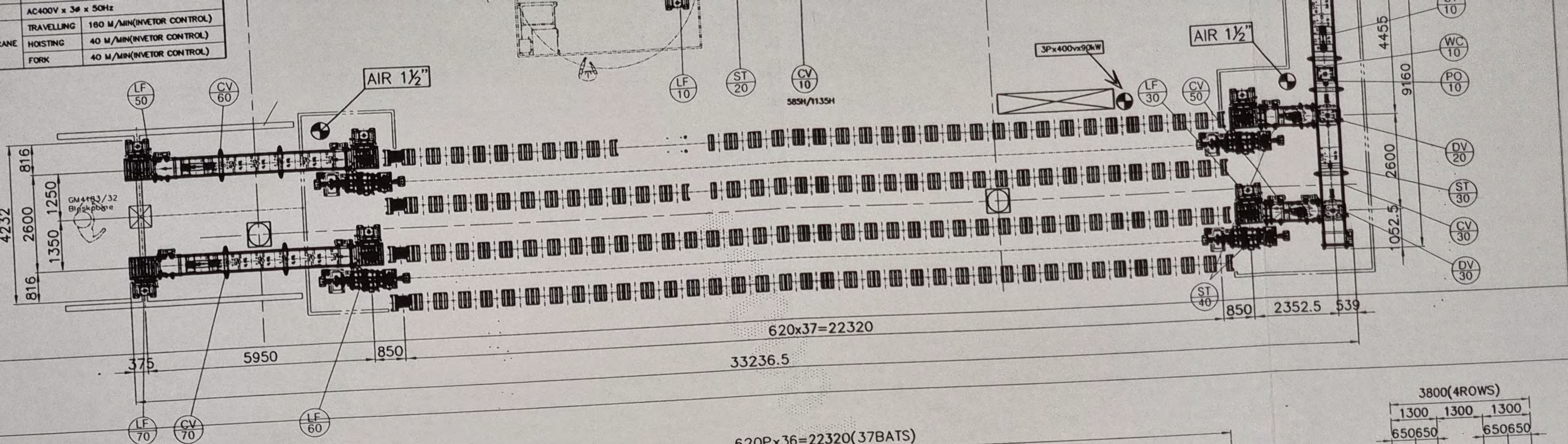
SPECIFICATION		
Work	TRANSMISSION CASE	
Q'ty of Cell	4rows X 37 bays X 19 otoges = 2812 cell	
Cycle time	35 Sec(Input/Output)	
Weight	15kg+Pallet=30kg Max	
Pallet	650x500	
Capacity	300,000□/Year	
Power	AC400V x 3φ x 50Hz	
STACKER CRANE SPEED	TRAVELLING	180 M/MIN(INVETOR CONTROL)
	HOISTING	40 M/MIN(INVETOR CONTROL)
	FORK	40 M/MIN(INVETOR CONTROL)

SPECIFICATION	
Work	TRANSMISSION CASE
Q'ty of Cell	4rows X 37 bays X 19 stages = 2812 cell
Cycle time	35 Sec(Input/Output)
Weight	15kg+Pallet=30kg Max
Pallet	650x500
Capacity	300,000#/Year
Power	AC400V x 3ø x 50Hz
STACKER CRANE SPEED	TRAVELLING 160 M/MIN(INVETOR CONTROL)
	HOISTING 40 M/MIN(INVETOR CONTROL)
	FORK 40 M/MIN(INVETOR CONTROL)

E



AC400V x 3φ x 50Hz	
TRAVELLING	160 M/MIN(INVETOR CONTROL)
HOISTING	40 M/MIN(INVETOR CONTROL)
FORK	40 M/MIN(INVETOR CONTROL)



NO	ITEM	SIZE (WxdHxdL)	Q'TY	SPEED (M/MIN)	MOTOR
LF10	AIR CYLINDER LIFTER	550 ST(#200*275st)	1	12.1	CNVM05-6095-43(0.4KW)
LF20	AIR CYLINDER LIFTER	550 ST(#200*275st)	1	12.1	CNVM05-6095-43(0.4KW)
LF30	AIR CYLINDER LIFTER	550 ST(#200*275st)	1	12.1	CNVM05-6095-43(0.4KW)
LF40	AIR CYLINDER LIFTER	550 ST(#200*275st)	1	12.1	CNVM05-6095-43(0.4KW)
LF50	AIR CYLINDER LIFTER	550 ST(#200*275st)	1	12.1	CNVM05-6095-43(0.4KW)
LF60	AIR CYLINDER LIFTER	550 ST(#200*275st)	1	12.1	CNVM05-6095-43(0.4KW)
LF70	AIR CYLINDER LIFTER	550 ST(#200*275st)	1	12.1	CNVM05-6095-43(0.4KW)
WC10	PATTERN CHECK UNIT		1		
PO10	POSITION UNIT	#100*50st	1		

NO	ITEM	SIZE (WxdHxdL)	Q'TY	SPEED (M/MIN)	MOTOR
CV10	TOP CHAIN CONV(2 step)	545x585/1135x6654	1	12.1	RNYM1-1420-60(0.75KW)
CV20	TOP CHAIN CONV(2 step)	545x585/1135x6654	1	12.1	RNYM1-1420-60(0.75KW)
CV30	TOP CHAIN CONV(2 step)	695x550/1100x9060	1	12.1	RNYM1-1420-60(0.75KW)
CV40	TOP CHAIN CONV(2 step)	545x585/1135x1600	1	12.1	RNYM1-1420-60(0.75KW)
CV50	TOP CHAIN CONV(2 step)	545x585/1135x1600	1	12.1	RNYM1-1420-60(0.75KW)
CV60	TOP CHAIN CONV(2 step)	545x585/1135x1600	1	12.1	RNYM1-1420-60(0.75KW)
CV60	TOP CHAIN CONV(2 step)	545x585/1135x1600	1	12.1	RNYM1-1420-60(0.75KW)
CV60	TOP CHAIN CONV(2 step)	545x585/1135x1600	1	12.1	RNYM1-1420-60(0.75KW)
AB10	AIR BALANCE	60Kg	1		

NO	ITEM	SIZE (WxdHxdL)	Q'TY	SPEED (M/MIN)	MOTOR
DV10	DIVETER	#100x50 ST	2	12.1	CNVM05-6095-43(0.4KW)
DV20	DIVETER(+AUTO S/T)	#100x50 ST	2	12.1	CNVM05-6095-43(0.4KW)
DV30	DIVETER(+END S/T)	#100x50 ST	2	12.1	CNVM05-6095-43(0.4KW)
ST10	SEESAW STOPPER	AST50-470-R3732-A1	2		
ST20	SEESAW STOPPER	AST50-620-R3732-A1	8		
ST30	AUTO STOPPER	NSTLA-50-30-S	3		
ES10	END STOPPER		3		

Can manufacturing tolerance(mm)	over315~under1000	±2	over2000~under4000	±6	over12000~under16000	±12
DIN 8570	over1000~under2000	±3	over4000~under8000	±8	over16000~under20000	±14
		+4	over8000~under12000	+10	over20000	+16

You must manufacture applying this tolerance in the case of non-marking special margin.

REV	DESCRIPTION	DATE	DESIGNED	CHECKED	APPROVED
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NO.	NAME & SIZE	MATL	UNIT	Q'TY	TOTAL
	HYUNDAI MOTOR CZECHO SHOP				
	T/M CASE AS/RS				
	LAYOUT				
	Hanwha TechM				
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	DATE	DRAWN	DESIGNED		
	2007.04.13	S.J.LEE			
SCALE	SIZE	DWG NO.			
1/58	A1	2007AB004-HCTC-LA00			