



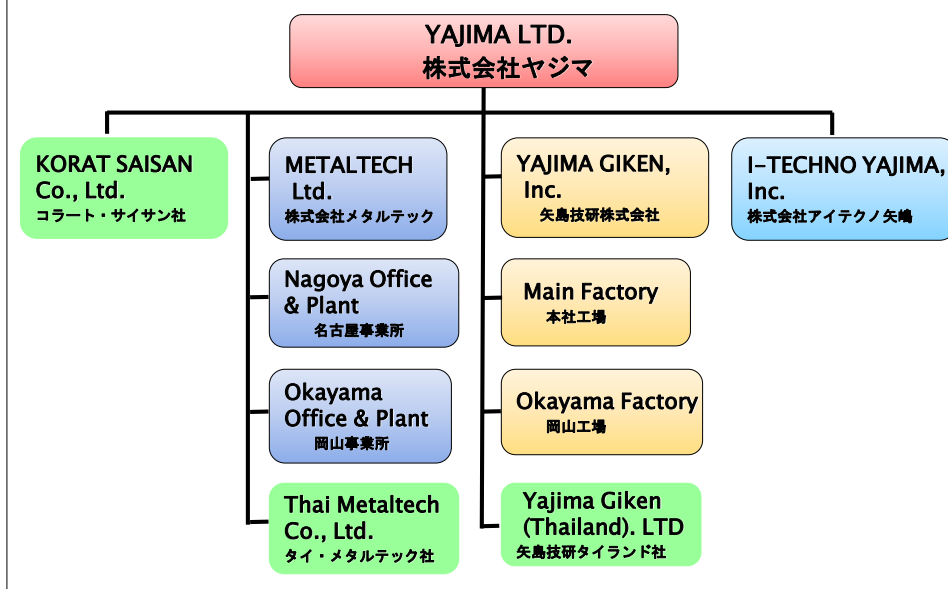
KORAT SAISAN CO.,LTD.



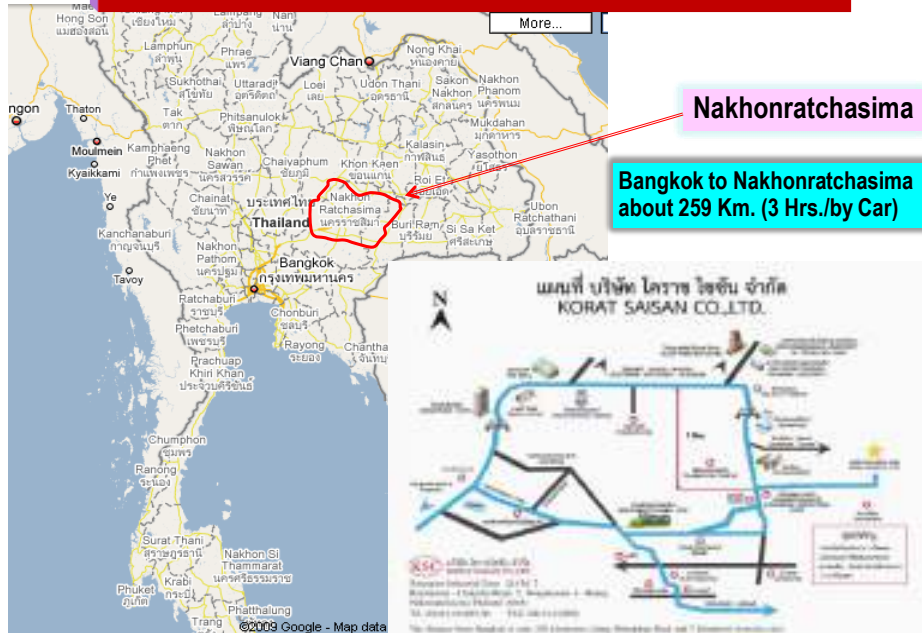
02-02-2022

WELCOME.

YAJIMA Group Organization



Location Of KSC



INFORMATION OF COMPANY

Location : Suranaree Industrial Zone 224 Km. 7

Ratchasima - Chokchai Rd., T. Nongbuasala ,

A. Muang Nakhonratchasima 30000

Tel : (044) 212687-90 Fax : (044) 212686

E-mail : kscsales@koratsaisan.com ; engineer@koratsaisan.com

E-mail : ksc_center@koratsaisan.com ; kscpdt_die@koratsaisan.com

Home page : <http://www.koratsaisan.com>

Beginning Business : 12 Mar 1990

Supporting From B.O.I

Capital Register : 130,000,000 Baht.

Area : 64,000 m² (About 40 Rai)



COMPANY POLICY

“We will trust the customer satisfaction by quality of product ”

“เราจะสร้างความเชื่อมั่นในคุณภาพสินค้า เพื่อให้ลูกค้าเราพึงพอใจ”

Quality System.

Has Been Receive

- 👍 IATF 16949 Certificate
- 👍 ISO14001 Certificate



BUSINESS

1. DIES PRODUCT

1.1 Single Dies.

1.2 Transfers Dies.

1.3 Progressive Dies.



CUSTOMER

DIES

- | | |
|---|---------------------------------------|
|  | 1. G-TEKT (THAILAND) CO.,LTD. |
|  | 2. THAI METALTECH CO.,LTD. |
|  | 3. H-ONE PARTS (THAILAND) CO.,LTD. |
|  | 4. TOYOTETSU (THAILAND) CO.,LTD. |
|  | 5. THAI REBIRTH CO.,LTD. |
|  | 6. G-TEKT EASTERN CO.,LTD. |
|  | 7. G-TEKT GATEWAY CO.,LTD. |
|  | 8. SANGO THAI. (STEM) |
|  | 9. F-TECH MFG, (THAILAND) CO.,LTD . |
|  | 10. HONDA ENGINEERING ASIAN CO., LTD. |
|  | 11. OGIHARA (THAILAND) CO . , LTD . |
|  | 12. METALTECH LIMITED (JAPAN) |

EMPLOYEES 166 PERSONS

1. Production Control Section	4	Persons	
2. Die design Section	11	Persons	} 127
3. Cad-Cam Section	8	Persons	
4. Foam Section	5	Persons	
5. Machine Section	33	Persons	
6. Finishing Section	64	Persons	
7. Quality Control Section	6	Persons	
8. Pre-Maintenance Section	4	Persons	
9. Office	20	Persons	
10. Executive Thailand	10	Persons	
11. Executive Japan	1	Persons	

WORK EXPERIENCE OF ALL SECTION

1. PRODUCTION CONTROL	25 YEARS
2. DIE DRAWING	11 YEARS
3. FOAM	26 YEARS
4. CAD & CAM	14 YEARS
5. SIMULATION	15 YEARS
6. MACHINE	15 YEARS
7. FINISHING	14 YEARS
8. TRY OUT	15 YEARS
9. QUALITY	19 YEARS

WORK EXPERIENCE OF ALL 16 YEARS

COMPANY NOW 32 YEARS

AVERAGE EMPLOYEE AGE 41 YEARS

The software used in the company.

CAD 2D , CAD 3D & SURFACE

ITEM	PROGRAM	VERSION	Q'TY
1	AUTO CAD (2D)	LATEST VERSION	11 SET
2	TOP SOLID (DRAWING) (3D)	LATEST VERSION	4 SET
3	AUTO MECHANICAL (SURFACE)	LATEST VERSION	11SET
4	AUTO DESK INVENTOR (3D)	LATEST VERSION	10 SET
5	AUTO FORM (CAE)	LATEST VERSION	2 SET
6	SPACE-E (CAD & CAM)	LATEST VERSION	2 SET
7	CAD MEISTER (CAD & CAM)	LATEST VERSION	1 SET
8	TEBIS REVERT (CAD & CAM)	LATEST VERSION	1 SET
9	TEBIS LAYSER (CAM)	LATEST VERSION	1 SET
10	TOP SOLID (BASIC CAM) (3D)	LATEST VERSION	1 SET
11	TEBIS CAM (ATC)	LATEST VERSION	1 SET

FARO SCAN

ITEM	PROGRAM	VERSION	Q'TY
1	POLY WORK	LATEST VERSION	1 SET

Update to the latest version every year.

MACHINE SECTION

ITEM	MACHINE LIST	CODE	TABLE SIZE		
			X	Y	Z
1	MAKINO CENTER	5003	1,250	700	540
2	MAKINO COPY	5011	1,000	540	650
3	SHINNIPON KOKI RB2N1	5049	2,500	1,500	1,700
4	SHINNIPON KOKI RB1N2	5051	1,300	850	1,370
5	SHINNIPON KOKI RB2N2	5052	2,000	1,100	1,400
6	SHINNIPON KOKI RB2N3	5055	2,500	1,500	1,700
7	OKUMA	5067	3,000	2,000	450
8	HARTFORD (5-Axis Aerospace)	5073	3,000	3,500	1,000
9	HARTFORD 1	5074	4,000	2,300	1,000
10	HARTFORD 2	5075	4,000	2,300	1,200
11	HARTFORD 3	5076	4,000	2,300	1,200
12	HARTFORD 5 (H)	5065	3,200	2,040	700
13	HARTFORD SMALL	5066	1,150	600	580

FINISHING , DIE SPOT , TRY-OUT SECTION

- ◆ There are 4 Die Spot Machine.
- ◆ There are 6 Try-Out Machine.
 - There are 3 Try-Out machine 500 Tons (MECHANIC)
 - There is 2 Try-Out machine 600 Tons (MECHANIC)
 - There is 1 Try-Out machine 1000 Tons (HYDRAULIC)
- ◆ There is 1 Laser Machine.

Finishing Section.



Quality Control Section



SCAN FARO ARM MANUAL

POLYWORKES V.12
SINGLE POINT ± 0.30 mm
ARM LENG 2.7 m.



CMM MACHINE

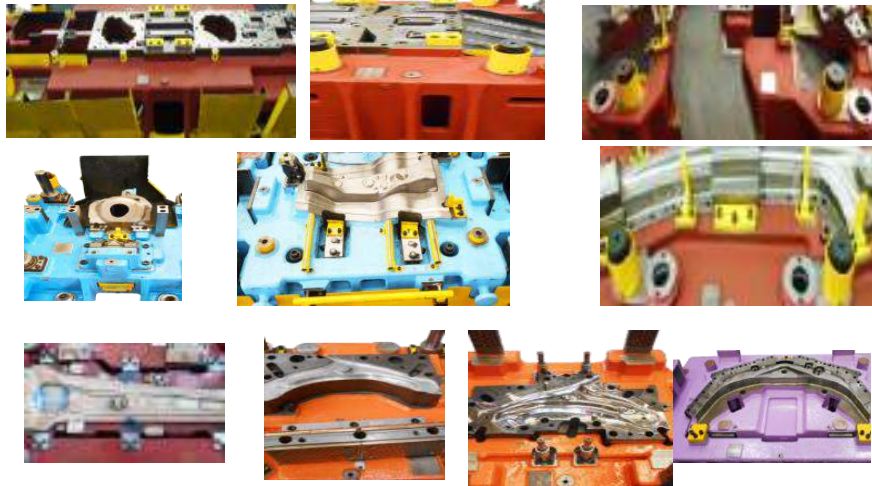
TABLE SIZE (MM)		
X	Y	Z
1000	1500	500



LAY OUT MACHINE

TABLE SIZE (MM)		
X	Y	Z
3000	3000	1500

Sample Die



Sample Part (Die section)



Sample Parts



CAPACITY IN SECTION

กำลังผลิตในส่วนงาน CAPACITY IN SECTION		จัดทำภายใน SET/MONTH	จัดทำภายนอก SET/MONTH
1	แผนกเขียนแบบ (DESIGN)	22	55
2	แผนก CAD - CAM	27	50
3	แผนกวิเคราะห์การขึ้นรูป (CAE)	15	0
4	แผนกโฟม (FOAM)	30	50
5	แผนกเครื่องจักร (MACHINE)	30	40
6	แผนกทดสอบผิวและทดสอบ (F/H,DSP,T/O)	37	0
7	เป้าหมายกำลังการผลิตแม่พิมพ์ (CAPACITY DIE)	34 Series/Month	

Environment of Die Manufacturing



Die design Section



Foam Section



Machine Section



Finishing Section



DIE SPOT



TRY OUT



Quality Control



CMM CHECK



SCAN CHECK

Environment of Die Manufacturing



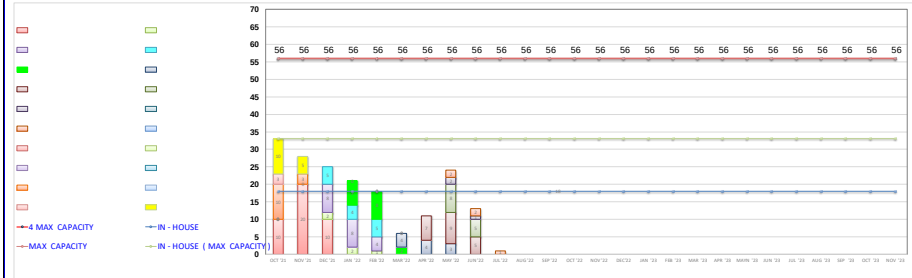
DRAWING SECTION. DIE MAKEING CAPACITY

1 / 3

MAKER NAME :

(1 SHIFT + NORMAL OT (25 x 3H) + HOLIDAY OT (4 x 3H))

DATE : 30/3/2022



NOTE : TARGET KSC TO MAKING DIE = 30 SET / MOUNTH
MAX CAPACITY KSC TO MAKING DIE = 30 SET / MOUNTH } AT SIZE DIE 3 - 7 TON

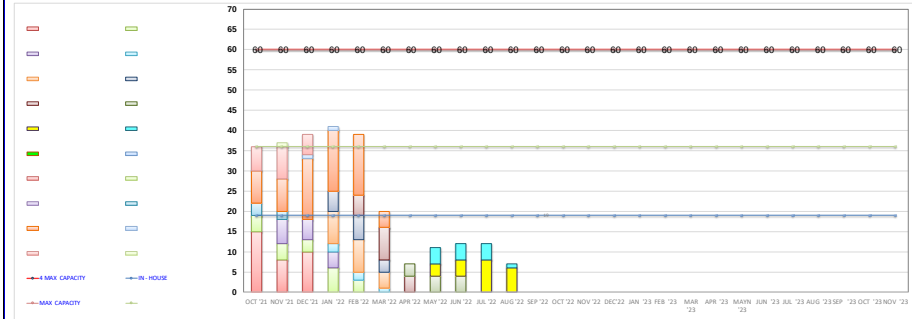
MACHINE SECTION. DIE MAKEING CAPACITY

2 / 3

MAKER NAME :

(2 SHIFT + (NORMAL OT (25 x 3H)x2) + (HOLIDAY OT (4 x 3H)x2)

DATE : 30/3/2022



NOTE : TARGET KSC TO MAKING DIE = 30 SET / MOUNTH
MAX CAPACITY KSC TO MAKING DIE = 30 SET / MOUNTH } AT SIZE DIE 3 - 7 TON

FINISHING SECTION. DIE MAKEING CAPACITY

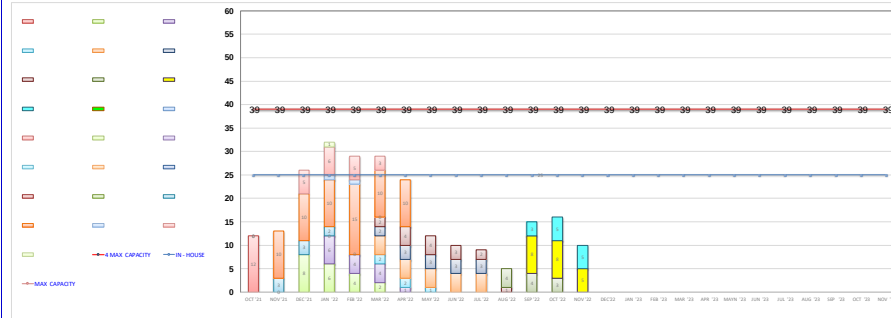
3 / 3

MAKER NAME :

(2 SHIFT + (NORMAL OT (25 x 3Hx2) + (HOLIDAY OT (4 x 3Hx2))

DATE :

30/3/2022



MAXIMUM CAPACITY

CAPACITY LINE			2021			2022												2023											
			OCT '21	NOV '21	DEC '21	JAN '22	FEB '22	MAR '22	APR '22	MAY '22	JUN '22	JUL '22	AUG '22	SEP '22	OCT '22	NOV '22	DEC '22	JAN '23	FEB '23	MAR '23	APR '23	MAY '23	JUN '23	JUL '23	AUG '23	SEP '23	OCT '23	NOV '23	
1	IN-HOUSE		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
2	IN-HOUSE (MAX CAPACITY)		39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39		
3	OUT-SOURCE (NO OT)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	MAX CAPACITY		39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39		
5	LOAD		12	13	26	32	29	29	24	12	10	9	5	15	16	19	0	0	0	0	0	0	0	0	0	0	0		
6	FREE LOAD (MAX CAPACITY)		27	26	13	7	10	10	15	27	29	30	34	24	23	29	39	39	39	39	39	39	39	39	39	39	39		
7	BOOKING TOTAL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

NOTE : TARGET KSC TO MAKING DIE = 30/SET / MOUNTH
MAX CAPACITY KSC TO MAKING DIE = 30/SET / MOUNTH } AT SIZE DIE 3 - 7 TON

DATA TO MARK QUOTATION & DIE.

A = MINIMUM INFORMATION.

B = DATA FOT DECISION MAKING.

C = AFTER GO.

1	A	☐	PROCESS SHEET
2	A	☐	PART DRAWING
3	A	☐	CAD DATA
4	A	☐	PRESS MACHINE STANDARD
5	A	☐	MATERIAL SPEC
6	A	☐	AMOUNT FOR MAS PRODUCTION TOTAL.....PCS
7	A	☐	START PROJECT DATE :
8	A	☐	DELIVERY SAMPLE PART (T0) DATE :
9	A	☐	DELIVERY DIE
10	B	☐	MATERIAL TRY'OUT SUPPLY BY
		☐	K.S.C. ☐ CUSTOMERPCS
11	B	☐	CONDITION IS SPECIAL
		☐	HARDENING ☐ NOT INCLUDE ☐ INCLUDE
		☐	☐ NOT INCLUDE ☐ INCLUDE
		☐	HARDCROME ☐ NOT INCLUDE ☐ INCLUDE
12	B	☐	BY OFF AT ☐ K.S.C. ☐ CUSTOMER
		☐	☐ THAILAND ☐ EXPORT AT
12	B	☐	GUARANTEE ☐ NO ☐ HAVE
13	B	☐	SAMPLE PART CHARGE (REAL WORK) .
14	C	☐	DATA AUTOFORM (SIMMULATION)
15	C	☐	DESIGN STANDARD
16	C	☐	INSPECTION STANDARD SHEET (HIN PYOU)
17	C	☐	PART DATA CHECK SHEET

**Thank
you.**



บริษัท โคราต ไชชน จำกัด
KORAT SAISAN CO., LTD.