

Die Track LLC

We Bring Solutions to All your Die Stamping Sourcing

From Product Kick Off to Launch in Homeline

- Engineering
- Simulations
- Pattern
- Die Construction
- Die Tryout
- Quality Loops
- Die Ship
- Homeline Launch Support (Staffing)

This is Die Track, llc

- Organizational Chart
- Overview
- Partners
- Appendix

Organizational Chart



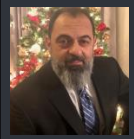
John Fernandez
President
(313)492-0500
jfernandez@usdietrack.com



Asian Partners
China, Korea,
Taiwan



South America
Partners
Brasil



North America
Partners
USA, Canada



China



South Korea



Taiwan



Brasil



USA



Canada

- GZ Tooling
- FAW Tooling

Metal Stamping:

- Goitech

Plastic Injection:

- Raymold
- NPC Moltek

- S-Tooling
- Ejee
- Van Guard
- GeoHo
- Sunbird

- Aethra
Automotive TEC
- Injetaq

- Hercules Tool
- Atlas Tool
- Multimatic

- Classic Tool & Die
- Manor Tool & Die

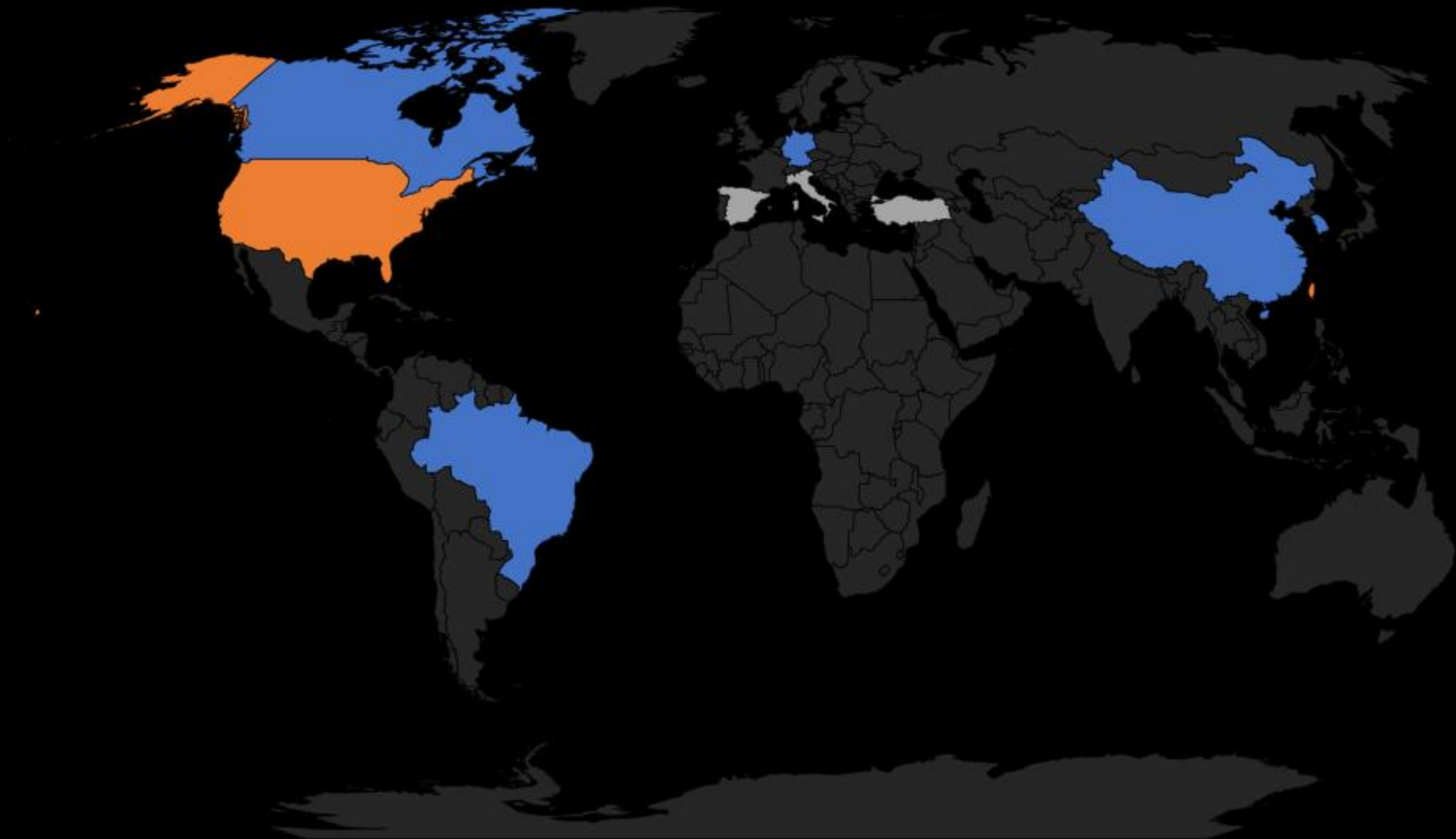
Overview

Die Track, llc was founded in 2015 from a joint venture with a German company that specialized in Stamping Services. After years of operating together, and witnessing “Poor Quality” Die Manufacturing, Die Track decided to spin off, and focus on Die Construction Management, with an effort to increase the Quality of the tools built, and minimize the need of months of external support in Homeline.

Today Die Track operates in 7 different Countries, and employs Die Specialists in 13 different nationalities, speaking literally just about every language in the planet.

Our Partnership Cooperation Agreement allows us to maximize “Time to Market”, giving us logistic flexibility, Placement of Specific Parts where the specialists are, substantially improving Quality, Delivery & Cost, not to mention the ability to deliver parts for Build events during Die Manufacturing, analyzing feedback immediately, and starting quality loops as needed, for next events, prior to Die Ship. We know how to play. We are prior managers for the most prestigious OEMs Globally. We lived it everyday. We understand the pressure to deliver, and the consequences of delays. We are on your side. We can give you the ability to be present on the shop floor when you can't be there. We are your point of contact, following the progress daily, and available 24/7.

Global Presence



Our Partners: China

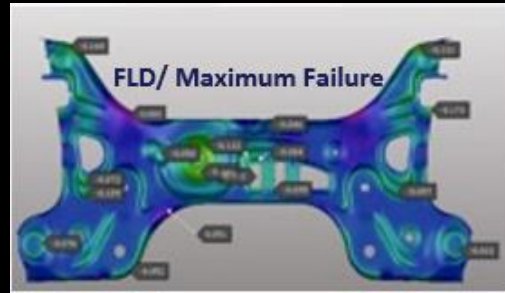
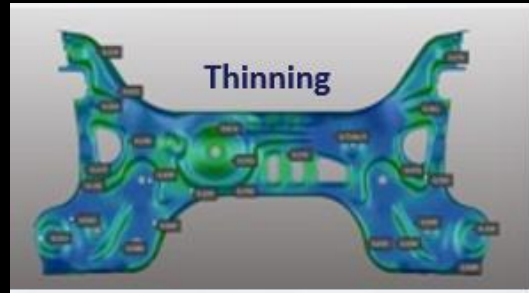
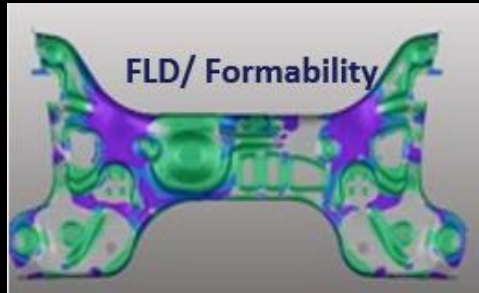
- GZ Tooling Group

Group Affiliates	
	Stamping Die Manufacturing GZ Tooling Group Co., Ltd.
	Casting Chengding Foundry Co. Ltd. Plant construction to be finished by Oct. 2019

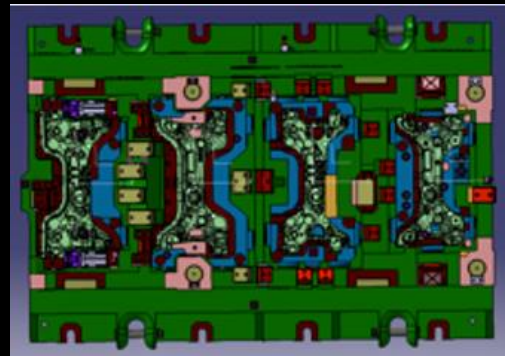


Our Partners: China

- GZ Tooling Group



Software:



- GZ Tooling Group
 - ✓ Liaoyuan City, Jilin Province
 - ✓ 700 Employees
 - ✓ 100% Private Owned
 - ✓ Casting Foundry on Site
 - ✓ Engineering Office in Germany
 - ✓ Sales Office in USA, Mexico, Germany, and Shanghai.
 - ✓ Tryout Center in Germany
 - ✓ Blue Light Scanning
 - ✓ ATOS Technology
 - ✓ In House Heat Treat
 - ✓ Client Care Department

Some of Our Main Clients:

	Joint-Venture OEM
	Local OEM
	Global Tier 1



Our Partners: China

- GZ Tooling Group: Machining

CNC Machine (Big size > 3000)	
Bed size	Quantity
5000*2800	4
5000*2000	1
5000*3800	1
5000*2600	1
4000*2400	6
4000*2100	1
4000*2000	2
3000*2000	2
3000*1600	3
3000*1500	2
Total	23

CNC Machine (Small size <2000)	
Bed size	Quantity
1300*600	1
1300*650	1
2000*1600	2
1100*630	16
1100*600	1
800*630	2
Total	23

Other Equipment	
Equipment	Quantity
Wire cut	27
Sawing	4
Milling	7
Lathe	1
Grinding	6
Drilling	5
Laser cut	2
Total	52



Our Partners: China

- GZ Tooling Group: Tryout

Press list			
Press Type	Press Tonnage	Bed size	Qty.
Hydraulic	4000T	4600*2500	1
Hydraulic	3000T	4600*2500	1
Hydraulic	2000T	4600*2500	1
Hydraulic	1200T	4600*2500	1
Hydraulic	800T	4500*1800	1
Hydraulic	800T	3000*2000	1
Hydraulic	800T	3000*2000	1
Hydraulic	600T	3000*2000	1
Hydraulic	400T	4000*2490	1
Hydraulic	300T	3000*2000	1
Hydraulic	300T	3000*2000	1
Hydraulic	150T	2200*1200	1
Hydraulic	100T	3000*2000	1
Mechanical	1600T	4600*2500	1
Mechanical	1200T	4000*2400	1
Mechanical	800T	4500*1800	1
Mechanical	400T	2700*1000	1
Total			17



Cold, Hot & Hydroform Capabilities.

Our Partners: China

- GZ Tooling Group: Tryout



Datas	Press 800T	Press 400T	Press 1600T
Drive Mode	Mechanic	Mechanic	To be equipped with new coil feeder by Mar. 2018
Nominal force	8000 KN	4000 KN	
Max die set height	1200 mm	650 mm	
Die Height Adjustment	300 mm	120 mm	
Bolster dimensions	4500*1800 mm	2700*1000 mm	
Material Width	50-1300 mm	50-800 mm	
Material Thickness	0.5-6 mm	0.8-4.5 mm	
Coil Weight	15 T	10 T	
Coil Inner Diameter	508-610 mm	450-530 mm	
Coil Outer Diameter	1500 mm	1400 mm	
Feed Height	750±100 mm	350±100 mm	

Mechanical Presses with Coil Feeders

Our Partners: China

- GZ Tooling Group: Quality & Measurement

Machine	Bed size	Qty.	Manufacturer	System
CMM 1	4000*2000	1	Italy	Metrolog XG
CMM 2	3000*1500	1	Hexagon	PC-Dmis
CMM 3	1000*800	1	Hexagon	PC-Dmis
Blue light scanner	4000*1500	1	Germany	



Laboratory Equipment List

Hard meter

Metallographic Microscope

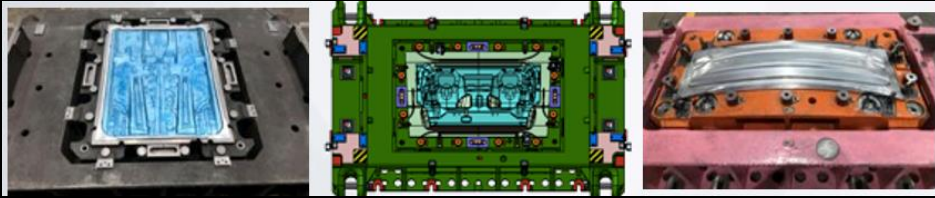
Tensile Testing Machine

Spot-Welder



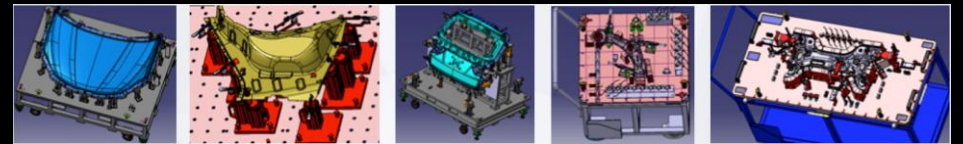
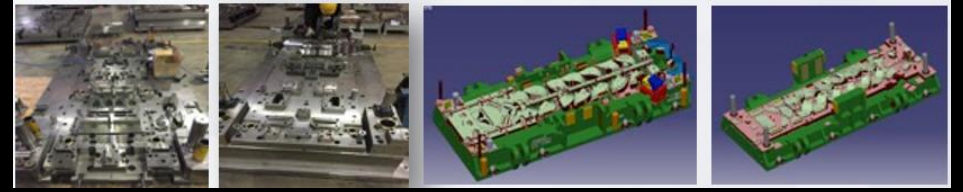
Our Partners: China

- GZ Tooling Group: Portfolio



- GZ Tooling Group

- ✓ Outer & Inner Parts
- ✓ HHS Structure Dies
- ✓ Structure Dies
- ✓ Chassis Part Dies
- ✓ Progressive Dies
- ✓ Hot Stamping Dies
- ✓ Hydroform Dies
- ✓ Blanking Dies
- ✓ Checking Fixtures



Contact: John Fernandez
313-492-0500
jfernandez@usdietrack.com

Our Partners: China

- FAW Tooling Manufacturing
 - Establishment Date : 1954
 - Enterprise Type: State-owned
 - Main Product: Die, BIW, Jig, Stamping parts, Weld Assy.
 - Fixed Assets : 804 million RMB
 - Registered Capital : 436 million RMB Annual Turnover: 2 billion RMB
 - Employee : 1967
 - Location : Changchun, 1,5 hour flight to Peking



Our Partners: China

- FAW Tooling Manufacturing

➤ Floor area: 280,000m², construction area: 160,000m²



Our Partners: China

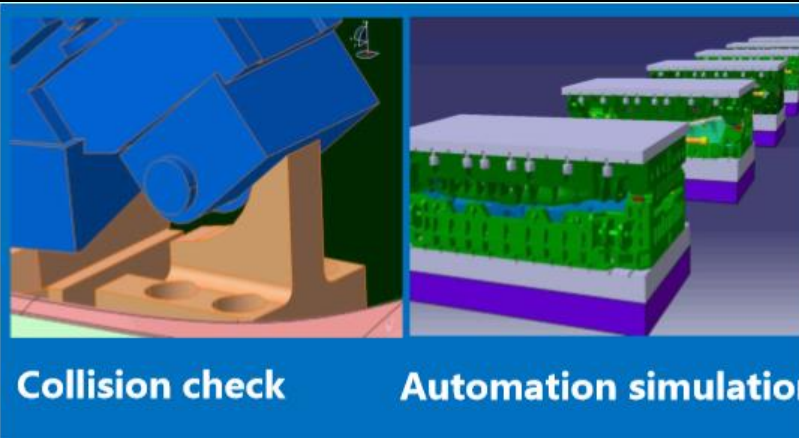
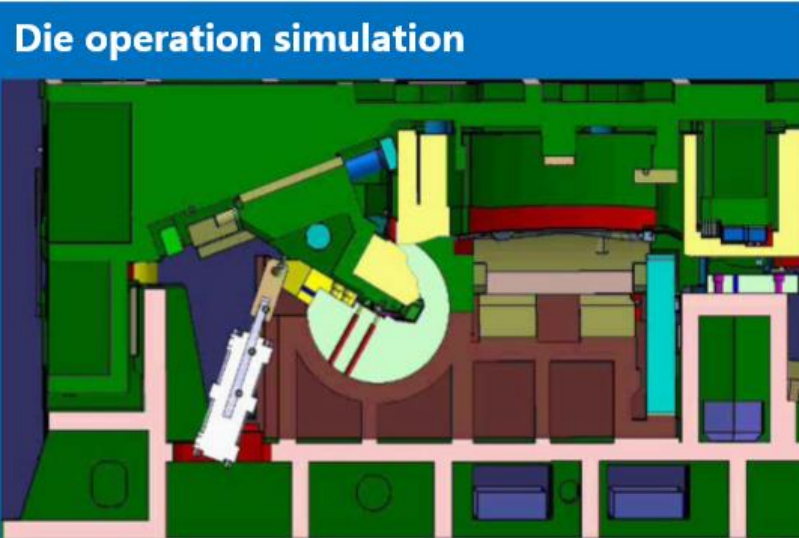
- FAW Tooling Manufacturing

➤ All OEM certification Requirements

Certificate	Certificate	Certificate	Certificate
<p>Standard: BS OHSAS 18001:2007 Certificate Regist. No.: 01 110 09626</p> <p>Certificate Holder: FAW Tooling Die Manufacturing Company Ltd. No. 1999, Jiefa Road, Automobile Economic and Technology Development District, Changchun City, Jilin Province 130012, P. R. China</p> <p>Scope: Manufacturing and Design of Stamping Moulds, Welding and Inspection Fixtures, Manufacturing of Stamping Parts and Welding Parts</p> <p>Validity: The certificate is valid from 2015-11-26 until 2018-09-14. First certification 2015. 2015-11-27</p>	<p>Standard: GB/T 19001-2008/ISO 9001:2008 Certificate Regist. No.: 01 110 09626</p> <p>Certificate Holder: FAW Tooling Die Manufacturing Company Ltd. Organization Code: 75202089 Registration Address: No. 1999, Jiefa Road, Automobile Economic and Technology Development District, Changchun City, Jilin Province 130012, P. R. China Operator Address: same as above</p> <p>Scope: Design and Manufacturing of Stamping Moulds, Welding and Inspection Fixtures, Manufacturing of Stamping Parts and Welding Parts</p> <p>Validity: The certificate is valid from 2015-11-26 until 2018-09-14. First certification 2015. 2015-11-26</p>	<p>Standard: ISO 14001:2004 + Cor. 1:2009 Certificate Regist. No.: 01 110 09626</p> <p>Certificate Holder: FAW Tooling Die Manufacturing Company Ltd. No. 1999, Jiefa Road, Automobile Economic and Technology Development District, Changchun City, Jilin Province 130012, P. R. China</p> <p>Scope: Manufacturing and Design of Stamping Moulds, Welding and Inspection Fixtures, Manufacturing of Stamping Parts and Welding Parts</p> <p>Validity: The certificate is valid from 2015-12-04 until 2018-09-14. First certification 2015. 2015-11-27</p>	<p>Standard: ISO / TS 16949:2009 Certificate Regist. No.: 01 111 09626/01 IATF Certificate No.: 0229333</p> <p>Certificate Holder: FAW Tooling Die Manufacturing Company Ltd. No. 1999, Jiefa Road, Automobile Economic and Technology Development District, Changchun City, Jilin Province 130012, P. R. China</p> <p>Scope: Manufacturing of Stamping Parts and Welding Parts for Body</p> <p>Validity: Proof has been furnished by means of an audit that the requirements of ISO / TS 16949:2009 are met. The certificate is valid from 2015-11-26 until 2018-09-14. 2015-11-26</p>
<p>OHSAS 18001:2007.</p>	<p>GB/T 19001-2008/ ISO 9001:2008.</p>	<p>ISO 14001:2004+ Cor.1:2009</p>	<p>ISO/TS 16949:2009.</p>

Our Partners: China

- FAW Tooling Manufacturing



- FAW Tooling Manufacturing
 - ✓ Outer & Inner Parts
 - ✓ HHS Structure Dies
 - ✓ Structure Dies
 - ✓ Chassis Part Dies
 - ✓ Progressive Dies
 - ✓ Blanking Dies
 - ✓ Checking Fixtures
 - ✓ Aluminum Parts

- FAW Tooling Manufacturing
 - ✓ 140 Die Designers
 - ✓ 225 Machinists
 - ✓ 232 Die Makers
 - ✓ 340 Work Stations
 - ✓ CATIA V5
 - ✓ AutoCad
 - ✓ Virtual Reality Suite



Our Partners: China

- FAW Tooling Manufacturing
- Die Manufacturing Capacity



NCshop

Tryout & Assembly shop

Pressing shop

33 large gantry machining centers

21 small NC machining centers

2 Agie Charmilles low-speed wire cutting machines

2 five axis laser cutting machines

2 NC grinders

2 laser quenching machines

2 large coordinate measuring machines

3 optical scanning DAEs

67 presses

5 tryout presses

6 large automatic press lines

3 large manual press lines

Our Partners: China

- FAW Tooling Manufacturing

- NC Machining

5—Axis machine	DC—5ASM	2500*5000	SNK	1
5—Axis machine	PV—4001/NC	2000*5000	RAMBAUDI	1
5—Axis machine	HQ25M	2500*5000	HNK	1
5—Axis machine	DC—5ASM	2500*5000	SNK	7
5—Axis machine	JOMACH156	2500*6000	JOBS	1
3—Axis machine	OKUMA—BYJC	1000*460	OKUMA	5
3—Axis machine	OKUMA—BYJC	1300*560	OKUMA	4
3—Axis machine	TONTEC	1200*550	Nan Tong	2
5—Axis machine	FPT	3000*1300	Italy	1
3—Axis machine	大力	1900*1000	Taiwan	1
3—Axis machine	MCP	2500*1000	BYJC	1
3—Axis machine	桂林	2000*1000	Guilin	1
3—Axis machine	桂林	1430*500	Guilin	1

Our Partners: China

- FAW Tooling Manufacturing

- NC Machining

名称	型号	主要规格	制造者	数量
5—Axis machine	MCR—A	1500*3000	OKUMA	1
5—Axis machine	MCR—BIII	1500*3000	OKUMA	1
5—Axis machine	MCR—BIII	2000*4000	OKUMA	1
5—Axis machine	MPH—2640S	2000*4000	TOSHIBA	1
5—Axis machine	DC—4ASM	2000*4000	SNK	2
3—Axis machine	HF—4NCPKO	2000*4000	SNK	1
3—Axis machine	DC—4ASM	2000*4000	SNK	7
3—Axis machine	MVS25/20	2000*4000	MITSUBISHI	1
3—Axis machine	TK42160A	1600*2500	China	1
3—Axis machine	SERAMILL240	2000*4000	AVIC	3
3—Axis machine	MPF—2640S	2000*4000	TOSHIBA	1
3—Axis machine	SERAMILL240	2000*4000	AVIC	1
3—Axis machine	HQ20M	2000*4000	HNK	1

Our Partners: China

- FAW Tooling Manufacturing
- Presses



Our Partners: China

- FAW Tooling Manufacturing

- Presses

Name	Type	Specification	Manufacturer	Quantity
mechanical press	JF39—800E	2500*4600	JIER	2
mechanical press	LS4A—1600	2500*4600	JIER	1
mechanical press	YX28—1700/2500	2500*5000	XuZhou Pressure Machinery Co., LTD	1
hydraulic press	YT27—2000D	2500*5000	天津市天锻压力机有限公司	1
mechanical press	JA39—1000/1	2500*4600	JIER	1
mechanical press	J36—800B	1800*4000	JIER	1
mechanical press	JD36—400/2	1400*3500	JIER	2
hydraulic press	YT27—1000AW	2500*4600	TianJin Tianduan Press Co., LTD	2
hydraulic press	YT27—1000AG	2500*4600	TianJin Tianduan Press Co., LTD	1
hydraulic press	YX27—1000C	2500*4600	XuZhou Pressure Machinery Co., LTD	2
hydraulic press	YT27—2100	2500*4600	TianJin Tianduan Press Co., LTD	1

Our Partners: China

- FAW Tooling Manufacturing

- Presses

Name	Type	Specification	Manufacturer	Quantity
hydraulic press	YT27—1200R	2500*4600	TianJin Tianduan Press Co., LTD	1
hydraulic press	YT27—1000AX	2500*4600	TianJin Tianduan Press Co., LTD	3
hydraulic press	SHP98—500	2500*4600	Hefei Haide Hydraulic Press Co., LTD	2
mechanical press	L4S2000—MB	4600*2500	QIQIHAR No.2 Machine Tool Co., LTD	1
mechanical press	E4S1000—MB	4600*2500	QIQIHAR No.2 Machine Tool Co., LTD	2
mechanical press	E4S800—MB	4600*2500	QIQIHAR No.2 Machine Tool Co., LTD	3
mechanical press	J47—1250/2000	4600*2500	JIER	1
mechanical press	JA39—1000	4600*2500	JIER	3
mechanical press	J39—800	4600*2500	JIER	2
mechanical press	J47—800/1300	4200*2200	JIER	1
mechanical press	JD36—400A	3800*1400	JIER	5

Our Partners: China

- FAW Tooling Manufacturing



- Scanning



- Large Scale 3D CMM



- Portable 3 CMM



- 6Axis Laser Cutter



- Laser Hardening



























- Vacuum Quenching Furnace

Our Partners: China

- FAW Tooling Manufacturing
- Die Manufacturing Projects & Homeline Support last 5 years

Contact: John Fernandez
 313-492-0500
jfernandez@usdietrack.com

Jaguar Land Rover Automotive PLC		L538, L405, L494, LWB, X760, L538C Structural Parts
Mercedes-Benz		R231 Hood Inner and Outer
Fiat Chrysler Automobile		MP551 Front and Rear Door Inner , B-Pillar
Thyssenkrupp		CF16 Inner of Four Doors, Hood and Tailgate
SKODA(Czech, Shanghai)		SK251, SK371, SK260, SK262 Body Side, Inner and Outer of 4 Doors, Tailgate
MARE Automobile		X61F, Delta II Structural Parts
DATUM Automobile		C-520, E- II , CD-4, K2XX, BGM, Structural Parts
Toyota Motor Corporation (Japan, Tianjin, Chengdu, Changchun)		969N107L, 965N, 502N, 238L, 438L, 506L, 613L, 518A, Structural Parts
GM Automobile(USA, Shanghai)		Epsilon II T520, Hood, Structural Parts
Audi Automobile		Audi A6L, Audi A3, Audi Q3, Audi A4L, Fender, Structural Parts
VW Automobile (German, Shanghai, Changchun)		Passat B6, Caddy Jetta, Bora GP, Bora A5, New Bora, Golf A6, Magotan CC, Jetta FL3, New Magotan, New Sagitar, New Bora FL, Jetta NF, Magotan CCFL Golf A7, Model Y, Model F, Passat, Model S, New Bora NF Skin Panel

Customer		Dies Project
Faw Car		M6,C301,C131,J44,J61,A501,A130,B70F,D003 A130 Hatchback,C303,J31,B90,D021,Skin Panel
Faw Xiali		ViZi,X210,X220,N3,X121,X123,X111,092F,R008 Skin Panel
Faw Jim Steam		V60,V80,D82A,T80,V70 Skin Panel
Faw Jie Fang		J6,MV3 Skin Panel
Faw Green Gas		J5,JL01,JH06,J6 Skin Panel
Haima Automobile		H13 Fender
mitsubishi Automobile		AS,GS,C1,V5 Body Side,Fender,Door
Chery Automobile		S11,B14,S12,B21,B23,H13 Skin Panel
Lifan Automobile		LF06,X40 Skin Panel
Youngman Automobile		007B/E Doors and Tailgate
Geely Automobile		
CAMC Automobile		H08 Cab
Jiangling Motors		V362,N330 Body Side,Inner and Outer of Doors and Hood, Roof, Trunk Lid Inner and Outer

Our Partners: Taiwan

- Ejee Pressing Dies
- Van Guard Mold Enterprise
- S-Tooling
- Sunbird Mold Ind.



Ejee



Van Guard



S-Tooling



Sunbird

Our Partners: Taiwan

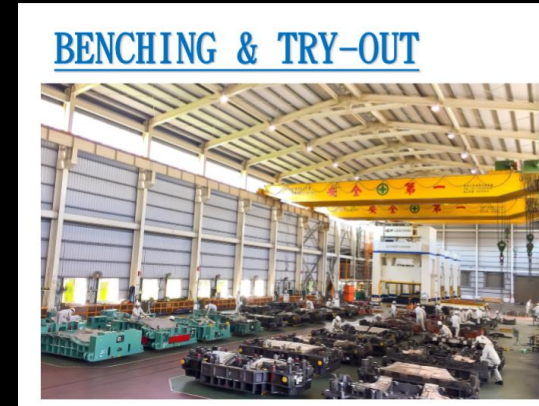
- Ejee Pressing Dies
- Van Guard Mold Enterprise
- S-Tooling
- Sunbird Mold Ind

- Ejee Pressing Dies
 - ✓ Established in 1988
 - ✓ Capital: US\$ 3,300.000
 - ✓ 150 employees



油壓式沖壓機台 HYDRAULIC PRESS

1500T	1000T	1000T	600T	600T	350T	250T
--------------	--------------	--------------	-------------	-------------	-------------	-------------



Simulation – Pamstamp / Autoform

FORMABILITY-成型性 EOS – End Of Stroke Pamstamp 2012.2

FLD (strain) - Zones by quality

- Strong wrinkling trend (6)
- Wrinkling trend (5)
- Insufficient stretching (4)
- Safe (3)
- Marginal zone (2)
- Cracks (1)

Example from SouthEast Motor – Body Side (Drawn Part)

2. Hydraulic Press

	1500T	1000 T	1000T	600T	600T	350T	250T
1 MAKER	TWN HLS	TWN LCM	TWN HLS	TWN FengYu	TWN FengYu	TWN FengYu	TWN HLS
2 NORM. MODEL HEIGHT	2300	1600	2100	1800	1600	1700	2300
3 BOLSTER SIZE	4.6*2.4	5.0*2.5	3.6*2.4	3.0*2.0	2.5*2.0	3.0*2.0	2.5*2.0
4 SLIDER STROKE	1900	1600	1800	1600	1400	1500	1700
5 SLIDER ADJUSTMENT	1900	X	18000	1600	1400	1500	1700
6 CUSHION ABILITY(KGF/A)	400	X	400	250	200	NONE	NONE
7 CUSHION STROKE	400	X	400	285	400	NONE	NONE
8 OPEN HEIGHT	2300	2200	2100	1800	1600	1700	2300

[2]. EJEE Plant Introduction

Press Introduction

	2400 Ton	1200 Ton	500 Ton
1 MAKER	TWN LCM	TWN HLS	JPN KOMATSU
2 NORM. MODEL HEIGHT	1600	1460	1100
3 BOLSTER SIZE	5000*2500	4600*2500	3000*2000
4 SLIDER STROKE	800	800	600
5 SLIDER ADJUSTMENT	600	600	600
6 SPM	300	18	20
7 CUSHION STROKE	300	280	300

試模線配置圖 Press Line Layout:

2400T Mechanical Servo Press X1 set Table Size 5MX2.5M

1000T High Speed Hydraulic Press X3 sets Table Size 5MX2.5M

CNC 加工機 HIGH SPEED MACHINE

五面加工機 12000 RPM

D/P	QTY	TABLE SIZE
WELE MG 530Z2	2	5000*2800
WELE LB 325Z	1	3000*2400
WELE MG 530	1	5000*2800
WELE AA 965	2	1100*650
AWEA LG5030	1	5000*3000
AWEA LG4030	1	4000*3000
AWEA SP3016	1	3000*1600
AWEA LP3021	1	3000*2100
SEKI 11	1	4000*2000
AWEA LG4630	1	4600*3000

Our Partners: Taiwan

- Ejee Pressing Dies
- Van Guard Mold Enterprise
- S-Tooling
- Sunbird Mold Ind

CMM-Blue Light Scanning

The image shows a blue light scanning setup on a tripod and a computer monitor displaying a 3D point cloud of a car part. The software interface includes various measurement and analysis tools.

CMM Machine Specification

DEA 3D Coordinate Measuring Machine Included 3D Laser Scanning System

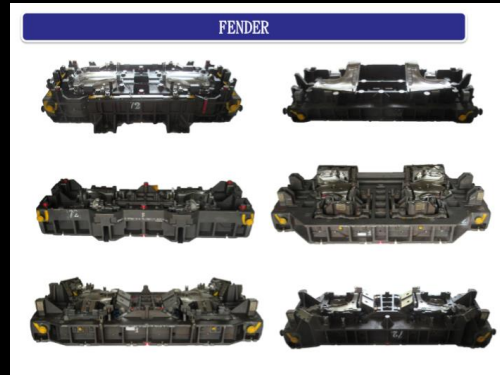
DIP	Qty	Specification
ALPHA IMAGE 25.50.18	1	Measuring Strokes: 2500*5000*1800(mm) Software: PC-DIMS ScanShark V4i 3D Laser Scanning System

The image shows a large CMM machine in a factory setting and a diagram of a 3D laser scanning system with a red laser beam.

CMM REPORT ANALYSIS

The image shows a screenshot of CMM report analysis software. It includes a table for SPIR/PAP Data Review and a 3D model of a part.

Project	Part # & Name	Batch	EC Level	Block Length (mm)	Clamp R/R/A	Passes
6827647	ROOF GUARD 0809					



Contact: John Fernandez
313-492-0500
jfernandez@usdietrack.com



Our Partners: Taiwan

- Ejee Pressing Dies
- **Van Guard Mold Enterprise**
- S-Tooling
- Sunbird Mold Ind



- Van Guard Mold Enterprise
 - ✓ Established in 1992
 - ✓ Capital: US\$ 2,900.000
 - ✓ Annual: US\$10,000.000
 - ✓ 75 employees

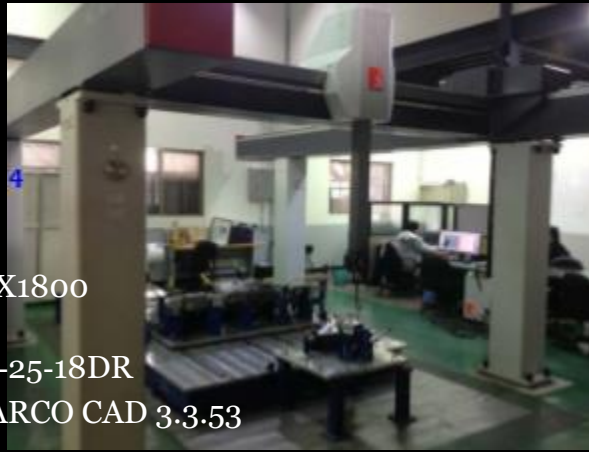
設備名 Name	規格 SPEC(mm)	廠牌 Maker	台數 Q'ty
CNC AA1880	FANUC 18iMB 1800x800x1100	WELE	1
CNC LP4021	FANUC OIMD 4000x2100x760	AWEA	1
CNC LP4025	5A Universal head FANUC 18MC 4000x3200x1000	AWEA	1
CNC LB432Z	5A Universal head FANUC 31iMB 4060x3200x400-1400	WELE	1
CNC LG5030	FANUC 18iMB 5000x3000x1000	AWEA	1
CNC MG530	5A Universal head FANUC 31iMB 5000x3000x400-1400	WELE	1
Other machine	銑床(Milling machine)		1
	懸臂鑽床 (Radial Drills)		3
	萬向懸臂鑽床 (Universal Radial Drills)		1
	平面研磨機(surface grinding machine)		1
	平面拋光機 (Flat-surface polishing machine)		1
	補焊機(spotter)		6
	感應淬火設備(induction hardening)		1
	天車Crane	30ton/10ton	2
天車Crane	20ton/10ton	3	
天車Crane	10ton/5ton	3	

設備名 Name	規格 SPEC(mm)	廠牌 Maker	台數 Q'ty
Spotting Press 合模機 合わせ用プレス 300ton	2000x3000x1500 (Die Hight)	YUNG THE	1
Hydraulic 油圧プレス 600ton	2000x3000x1500 (Die Hight)	FENGYU	1
Hydraulic 油圧プレス 1000ton	2500x4600x1700 (Die Hight)	YUNG THE	1
Hydraulic 油圧プレス 1000ton	2500x4600x1700 (Die Hight)	YUNG THE	1
Mechanical 機械プレス 2000ton	2500x4600x1500 (Die Hight)	CENTRO LINE	1
Quality and Reliability			
CMM 測定器機	5000x2500x1800 MCT NT 50-25-18DR	COORD3	1
Compact Scan/ GOM Inpect	5M Digitizing System	ATOS	1
攜帶式精密型超音波測厚計 / Portable Ultrasonic Thickness Gauges Tester			1
攜帶式硬度計/ Portable Hardness Tester			2
攜帶式表面粗度測定機 / Portable surface Roughness Tester			1

Our Partners: Taiwan

- Ejee Pressing Dies
- Van Guard Mold Enterprise
- S-Tooling
- Sunbird Mold Ind

CMM: 5000X2500X1800
 MAKER: COORD3
 Model: MCT NT 50-25-18DR
 Software Version: ARCO CAD 3.3.53



感謝客戶對本公司技術指導及業務提供

Great appreciation to below customer for offering technical support and business to VG.

Aluminum Experience

Car Company	Model	Country	Material	thickness	Part Name	Die Type	Operation	Timing
Tesla	Model S	USA	Aluminum 5754-O	2.00	REINF SHOCK TOWER RR L/R	Transfer	03:03	2012
Tesla	Model S	USA	Aluminum 5754-O	2.00	REINF SHOCK TOWER FR L/R	Transfer	03:03	2012
Tesla	Model S	USA	Aluminum 5754-O	1.20	PNL RR QTR INR L/R	Tandem	4	2012
Tesla	Model S	USA	Aluminum 5754-O	1.20	PNL WHEEL ARCH OTR L/R	Tandem	4	2012
Tesla	Model S	USA	Aluminum 5754-O	1.20	REINF C PILLAR L/R	Tandem	4	2012
Tesla	Model S	USA	Aluminum 6022-T4	2.00	PNL B PILLAR INR L/R	Tandem	03:03	2012
Tesla	Model S	USA	Aluminum 6022-T4	2.00	REINF B PILLAR OTR L/R	Tandem	04:04	2012
Tesla	Model S	USA	Aluminum 6022-T4E32	1.00	ROOF	Tandem	3	2012
Tesla	Model S	USA	Aluminum 5754-O	1.20	PNL RR FLOOR/SEAT,FR FLOOR/SEAT(1 in, 4 out)	Tandem	3	2012
Tesla	Model S	USA	Aluminum 5754-O	1.20	Reinf. Rr Lamp Housing	Transfer	3	2012
Tesla	Model S	USA	Aluminum 5754-O	1.60	PNL RR WHEELHOUSE L/R	Tandem	3	2012
FORD	(F150)P552	USA	Aluminum	1.00	(L)Floor	Tandem	4	2013
FORD	(F150)P552	USA	Aluminum	1.00	(S)Floor	Tandem	4	2013
Tesla	Model X	USA	Aluminum 6016-T4	1.60	PNL-FR HINGE PILLAR INR L/R	Tandem	4	2015
Tesla	Model X	USA	Aluminum 6016-T4	2.50	PNL-A PILLAR INR LH/RH	Transfer	05:05	2015
Tesla	Model X	USA	Aluminum 6016-T4	0.95	A PLR UPR OTR L/R (2 in 2 out)	Tandem	5	2015
Tesla	Model X	USA	Aluminum 5754-O	1.80	SPINE HEADER LWR	Transfer	4	2015
Tesla	Model X	USA	Aluminum 6016-T4	1.80	B PLR HRADER UPR	Transfer	4	2015
CJLR	X281	China	Aluminum AC600	3.00	PLR FRT BDY LWR PLR R/L	Tandem	5	2015
CJLR	X281	China	Aluminum AC600	3.00	REINF CTR BDY PLR R/L (2 in 2 out)	Tandem	4	2015
CJLR	X281	China	Aluminum AC600	3.00	PLR CTR BDY INR UPR RH/LHL (2 in 2 out)	Tandem	4	2015
FORD	U553-4	USA	Aluminum	1.00	(L) Floor	Tandem	4	2016
FORD	U553-4	USA	Aluminum	1.00	(M)Floor	Tandem	4	2016
FORD	U553-4	USA	Aluminum 6DR1	0.90	Panel ROOF & Moon ROOF	Tandem	5	2016

Our Partners: Taiwan

- Ejee Pressing Dies
- Van Guard Mold Enterprise
- **S-Tooling**
- Sunbird Mold Ind

- S-Tooling
 - ✓ Established in 1990
 - ✓ Capital: US\$ 3,200.000
 - ✓ Annual: US\$9,400.000
 - ✓ 30 employees

Direct Clients

Indirect Clients

Equipment name	Specifications Model	Make
1600 Ton Mechanical Press	Bolster Area : 3930 x 2230 mm Die Cushion Capacity : 200 Ton Die Cushion Stroke : 175 mm	MVN
1200Ton Hydraulic Press	Bolster Area : 3600 x 2400 mm Die Cushion Capacity : 180 Ton Die Cushion Stroke : 0 ~ 450 mm	HOMRING
800 Ton Hydraulic Press	Bolster Area : 4700 x 2400 mm	HOMRING
600 Ton Hydraulic Press	Bolster Area : 3000 x 2200 mm Die Cushion Capacity : 75 Ton Die Cushion Stroke : 0 ~ 330 mm	JAAN YEE
Backup press solution: 2000 Ton & 1600 Ton Mechanical Press	Bolster Area: 2000 Ton = 5000 x 2500mm / 1600 Ton = 4600 x 2500mm Die Cushion Capacity: 300 Ton Die Cushion Stroke: 400mm	FONYU
Production Bridge Milling	LP4025Z X: 4000 Y: 2500 Z: 1000 Spindle speed / feed speed : 5000 rpm / 10 m/min Ancillary equipment Side milling head+Universal head(5°/Rotate)+Extended head	AWEA
Production Bridge Milling	MG530 X: 5000 Y: 3000 Z: 1200 Spindle speed / feed speed : 12000 rpm / 10 m/min Ancillary equipment Side milling head+Universal head(5°/Rotate)+Extended head	WELE
Gantry CMM Coordinate Measuring Machine	MCT Starlight 30.20.15 Measuring Range : X: 3000 Y: 2000 Z: 1500 Accuracy Requirement : 5+5L/1000 (µm)	Coord3 Industries
3D Scanner	ATOS Compact Scan 5M System	RAT
Pneumatic polishing machine	LPM-48 SIZE : 2800 x 1600 x 2500 mm Lap plate speed : 0~60 rpm	SECULAR
Crane	7.5 / 4+3.5 / 3+2 TONS	LIFAN
Crane	20 + 7.5 TONS	Cheng Chang

Our Partners: Taiwan

- Ejee Pressing Dies
- Van Guard Mold Enterprise
- **S-Tooling**
- Sunbird Mold Ind



Contact: John Fernandez
 313-492-0500
jfernandez@usdietrack.com

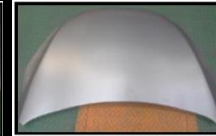







High Strength Steel

		
Rail-2 Lwr Outer R/L SCGA440-45 1.6t	Rein Fr Side Mbr Rr R/L SPC590DU 2.0t	UP FRAME D R/L RR HCT 600X+ZF 1.8t
		
Strength, Side Sill Outer JSC590RN 1.6t	CROSS MEMBER RH JSH780Y 1.2t	FR DR INR SUPPORT DP780 1.0t

Aluminum

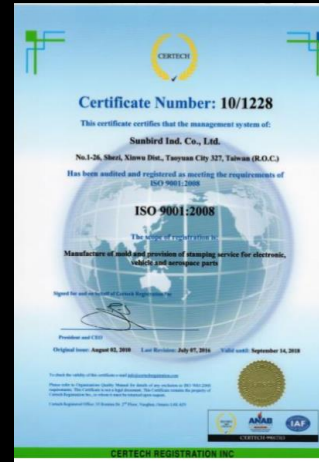
		
REAR QTR OTR LWR 6016-T4 0.95t	Extn. Rr Qtr Upr 6016-T4 0.95t	Rein Fr Bdy Ler Plr R/L AC600 T4 2.5t
		
PNL-C PILLAR UPR INR L/R 6016-T4 2.0t	Verbindungsteil_Boden_Heck_li / re TL091 1.7t	

Steel

			
Hood Outer H 220 B/+ZE 0.7t	Trunk Lid Outer H 220 B/+ZE 0.7t	Tail Gate Outer H 220 BD+ZF 0.75t	Frame RR Door Window FR UPR LH/RH DX 53 D+Z 0.8t
			
Floor Rear RR DC 05/+ZE 0.8t	Hood Inner DX 53 D+ZF 0.6t	Verstaerkung_Gasfeder_li / re CR4 1.5t	Frame FR Door Window RR LH/RH DX 53 D+Z 0.8t

Our Partners: Taiwan

- Ejee Pressing Dies
- Van Guard Mold Enterprise
- S-Tooling
- **Sunbird Mold Ind**



- Sunbird Mold Industry
 - ✓ Establishment : 1987
 - ✓ Capital : YS\$930,000
 - ✓ Average annual turnover : US\$3,500,000
 - ✓ Current number of employee: 50
 - ✓ Shop floor : 10,578 m²

CAD	CAM	CAE	CAV
<ul style="list-style-type: none"> • CATIA 	<ul style="list-style-type: none"> • POWERMILL • CATIA 	<ul style="list-style-type: none"> • AUTOFORM 	<ul style="list-style-type: none"> • ATOS GOM

Shop A- Rough – Medium machining, 5 axis machining, Rotary CAM unit machining.
Crane capacity 20t x2

- Horizontal NC machine UHM 800T
- AWEA 5025 X 2
- AWEA 5 FACE NC machine
- AWEA 3016 X 3
- AWEA 2012 X 2
- AWEA 8040
- 800T hydraulic press, 200t mechanical press x 2 , 110t mechanical press x 2
- SANCO SVM 1100 NC machine

Shop B – Bench working area
Crane capacity 20t x2

- 500t hydraulic tryout press
- Driller IL-1700 X 2

Shop C – Fine machining
Crane capacity 20t x2

- SANCO 5228L NC machines x 7

Our Partners: Taiwan

- Ejee Pressing Dies

- Van Guard Mold Enterprise

- S-Tooling

- **Sunbird Mold Ind**

- ✓ Automotive body inner parts tooling manufacture

- ✓ Automotive body outer parts tooling manufacture

- ✓ Automotive chassis parts tooling manufacture

- ✓ High tensile part tooling manufacturing



- ✓ Tryout Press: 1. 1600t Mechanical press 2. 800t Hydraulic press 3. 600t Hydraulic press 4. 400y Hydraulic press
- ✓ Fast-responding NC center machine: 1. AQ1050 (1000 X 500 X 600) 2. LG4025Z (4000 X 2500 X 1000) 3. MG530 (5000 X 3000 X 1200)
- ✓ CMM: X – 3000 / Y – 2000 / Z – 1500
- ✓ Blue light scanner: ATOS GOM system
- ✓ Crane: 1. 15t 2. 25t

Contact: John Fernandez
313-492-0500
jfernandez@usdietrack.com

Our Partners: Korea

- Goitech (Stamping)
- NPC Moltek (Plastic Injection Mold)
- Raymold (Plastic Injection Mold)



OKUMA MDB-A1
1,500 x 3,000



OKUMA MCV-A1
1,500 x 3,000



OKUMA MCR-A5CII (5 Axis)
1,500 x 3,000



OKUMA MCR-A
2,000 x 4,000



OKUMA MCR-A5C
2,000 x 4,000



OKUMA MCR-A (5 Axis)
2,000 x 4,000



OKUMA MCR-A5CII (5 Axis)
2,500 x 5,000



OKUMA MCR-A5CII (5 Axis)
2,500 x 5,000

Machine Tools	NAME	CAPACITY	QTY
MACHINE	HIGH SPEED MILL'G (5 AXIS)	2,500 x 5,000 x 1,000 (,1650)	2
	HIGH SPEED MILL'G (One 5 AXIS)	2,000 x 4,000 x 1,000 (,1650)	3
	HIGH SPEED MILL'G	1,500 x 3,000 x 750 (,1530)	2
	HIGH SPEED MILL'G (5 AXIS)	1,500 x 3,000 x 750 (,1530)	1
	MILLING MACHINE	850 x 350 x 450	1
	NC MACHINE CENTER	2,100 x 850 x 750	3
	RADIAL DRILLING M/C	800 x 910 x 2,000	6
	UNIVERSAL MILLING M/C	1,600 x 720 x 750	1
	CNC 3D MEASURING MACHINE	4,000 x 1,600 x 2,000	1
	LASER SCANNING (LEICA AT960)	249 x 148 x 59	1
PRESS	MECHANICAL PRESS	2,400T 2,000T 1,500T 1,000T	4
	HYDRAULIC PRESS	800T 300T 200T 50T	4
CRANE	HOIST OVERHEAD CRANE	50T (Sub 30T)	2
	HOIST OVERHEAD CRANE	30T (Sub 15T)	6

Our Partners: Korea

- Goitech (Stamping)
- NPC Moltek (Plastic Injection Mold)
- Raymold (Plastic Injection Mold)

● LASER SCANNER (LEICA AT960)



249 x 148 x 59

- MECHANICAL



2400T 5,000 x 2,600



2000T 5,000 x 2,800



1500T 4,000 x 2,500



1000T 4,000 x 2,500

- HYDRAULIC



800T 3,500 x 2,500



300T 5,000 x 2,600



200T 4,200 x 2,400



50T 3,000 x 2,000

● COIL FEEDER (ANLF - 1600) -Blank & Progressive



Width : 1600 Thickness : Max 3.2

Weight : 10 ton

● 3D MEASURING MACHINE (PC DIMS)



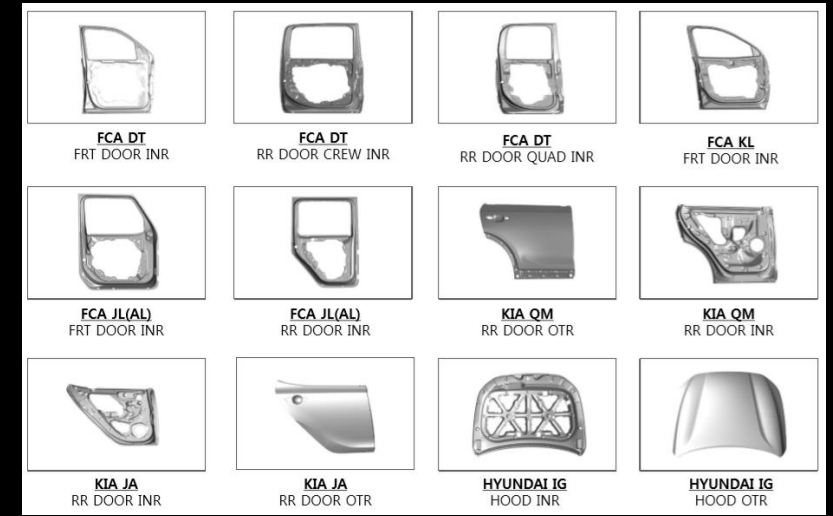
Brand Name : Hexagon
4,000 x 2,000 x 1,600



Brand Name : DEA (Germany)
4,000 x 2,500 x 1,600

Our Partners: Korea

- **Goitech (Stamping)**
- NPC Moltek (Plastic Injection Mold)
- Raymold (Plastic Injection Mold)



Contact: John Fernandez
 313-492-0500
jfernandez@usdietrack.com

Our Partners: Korea

- Goitech (Stamping)
- **NPC Moltek (Plastic Injection Mold)**
- Raymold (Plastic Injection Mold)

✓ - Capital: \$2.5M(USD)

✓ Date of establishment:
1994. 3.1

✓ Employee: 50

✓ Revenue: \$18M(USD)

✓ Head quarter: National
Moltek in Korea

✓ Subsidiary company:
NPC SIAM in Thailand

✓ Mass product of:

- ✓ Pallets & Boxes
- ✓ Produce Mold



Machining



Assembly

Automobile



Pallet



Container



Electronic



Others



Our Partners: Korea

- Goitech (Stamping)
- **NPC Moltek (Plastic Injection Mold)**
- Raymold (Plastic Injection Mold)

- Know-how
 - For the last 48 years, National Moltek has accumulated cutting-edge mold technology while producing various kinds of mold ranging from auto parts to industrial product
- Top-notch resources
 - Operates R&D center consisted of top-class engineers
 - Supports R&D center with state-of-the-art class CAD/CAM/CAE systems

Equipment

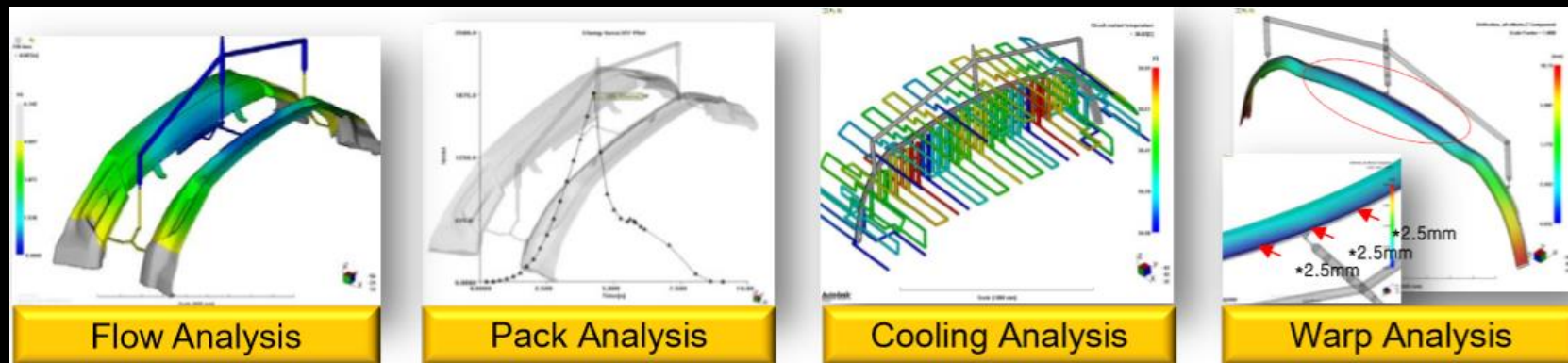
NAME	MODEL	Q'TY	MAKER/COUNTRY	STROKE	LOAD
Machining Center	HNC2213-A30	1	MAKINO/J	2,200 × 1,300 × 1,000	10
	KBT-13E.A	1	KURAKI	3,000 x 2,000 x 1,300	15
	SIRIUS-2500	1	HWACHEON/K	4,000 × 2,300 × 900	10
	SIRIUS-1250	1	HWACHEON/K	2,500 × 1,250 × 750	5
	SIRIUS-850	2	HWACHEON/K	2,000 × 850 × 750	4
	SIRIUS-UL+	1	HWACHEON/K	1,050 × 600 × 550	0.8
E.D.M	ECOMIL-A24	1	HWACHEON/K	2,150 × 850 × 750	5
	CH-400N-CNC	1	DONGYANG/K	1,450 × 950 × 600	
	EDNC-65S	1	MAKINO	650 x 450 x 350	
	EDNC 64	1	MAKINO	600 x 400 x 250	
Milling Machine	MAKINO(156)	1	MAKINO/J	2,500 × 1,300 × 1,500	
Milling Machine	DMTH-2	2	HWACHEON/K	750 × 300 × 450	0.5
Lathe	HL580×1500G	2	HWACHEON/K	580 × 1500	
Radial DR.	DRD-1100	2	HWACHEON/DOOSAN/K	600 × 840 × 1,280	
FOR. GRD.	YGS-46	1	UIL/K	300 × 130	
	SFG-200MB	1	SAMSUNG/K	200 × 140	
Die Spot	KSRP-400	1	KUKDONGENG/K	3,000 × 2,000 × 2,700	
	DSP2000	1	ASAI/J	2,000×1,500×1,600	20
3D Coordinate Measuring Machine	Epsolute 7530	1	DELCAM/U	3,000 × 2,000	
Hoist	30 +15 TON	1	BANDO/K		
	30 TON	1	BANDO/K		
	20 + 10 TON	2	BANDO/K		
	15 TON	1	BANDO/K		
	10 TON	5	BANDO/K		

CLASS	DESCRIPTION	VERSION	Q'TY
CAD	UG	NX7.5	6
	CADKYE	19	3
	AUTOCAD	2012	5
	CATIA	V5	1
CAM	UG	NX7.5	2
	MS	10	2
CAE	AUTODESK MOLD FLOW IN SIGHT	2014	2
Production Dep.	UG	NX7.5	1
		VIEW	3
DNC	NC BRAIN	PLUS	7
	DATA SERVER		1

Our Partners: Korea

- Goitech (Stamping)
- **NPC Moltek (Plastic Injection Mold)**
- Raymold (Plastic Injection Mold)

- CAE Simulation and Analysis
 - Mold flow system prevents deformation after injection and increases production efficiency by reducing injection cycle time
 - National Moltek continuously builds database by comparing final trial result with initial simulation and analysis



Contact: John Fernandez
313-492-0500
jfernandez@usdietrack.com

Our Partners: Korea

- Goitech (Stamping)
 - NPC Moltek (Plastic Injection Mold)
 - Raymold (Plastic Injection Mold)
-
- Founded: 1981
 - Capital: US\$ 5 M
 - Employees:
 - 113 (2017) -Suwon factory
 - 75 -kunpo factory: 38
 - Sales:
 - US\$ 23M (2016)
 - Suwon factory: USD 12.5M
 - Kunpo factory: USD 10.5M
 - Location:
 - Suwon: Saneop-ro Gyeonggi-do, Korea
 - Kunpo: Beon-gil, Gyeonggi-do, Korea
 - Products:
 - Automotive (Plastic, interior & exterior)
 - Precision & optical (Headlamp, Ambient Light)
 - Electronics (TV, Home Audio, Printer, Mobile Phone)



Our Partners: Korea

- Goitech (Stamping)
- NPC Moltek (Plastic Injection Mold)
- Raymold (Plastic Injection Mold)



MODEL	QTY	MAKER	Tie bar distance
100 ton	3	FANUC	410 x 410
130 ton(2K)	1	SUMITOMO	860 x 830
140 ton	1	FCS	860 x 830
220 ton	1	ENGEL	700 x 710
220 ton(2K)	1	Woojin	700 x 710
450 ton	8	JSW/NIGATA	810 x 810
650 ton	2	JSW/TOSHIBA	960 x 960
1,300 ton	1	JSW	1,400 x 1,400



Machine	Range	Precision	QTY
High speed	1300 x 900 x 700	5 μm	1
High speed	700 x 600 x 500 800 x 600 x 500	5 μm	5
Wire cut	550 x 350 x 300	10 μm	4
Electric spark	1100 x 700 x 500	10 μm	2
Electric spark	700 x 500 x 400	10 μm	4



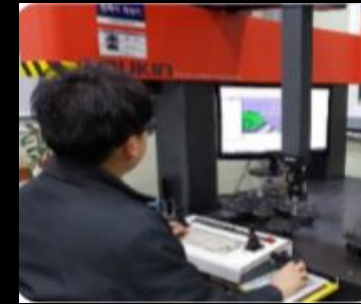
Develop micro pattern and optical parts

Machine	Range	RPM	Precision	Qty
HSM	1,300 x 900 x 700	24,000	5 μm	1
HSM	800 x 600 x 500	42,000	5 μm	3
HSM	700 x 600 x 500	42,000	5 μm	2
CNC	2,500 x 1,250 x 750	12,000	10 μm	2
CNC	1,500 x 750 x 650	12,000	10 μm	2
CNC	2,000 x 960 x 800	12,000	10 μm	1
CNC	1,200 x 680 x 600	12,000	10 μm	2

Our Partners: Korea

- Goitech (Stamping)
- NPC Moltek (Plastic Injection Mold)
- Raymold (Plastic Injection Mold)

Machine	QTY	Range	Precision
Non-contact 3D	2	700 x 1,000 x 600	1 μm
Contact 3D	2	600 x 600 x 150	1 μm



Contact: John Fernandez
313-492-0500
jfernandez@usdietrack.com

Our Partners: Brasil

- **TEC Tooling_Aethra**
- Injetaq_TAQ



Our Clients

Item	Nbr People	Comments
TOTAL EMPLOYEES	230	
ENGINEERING	18	Project Managing, Feasibility, Process Engineering, Die Design Engineering
MANUFACTURING	157	Machining Shop, Tooling Shop, Try-out Shop
SUPPORT AREAS	55	PCP, Metrology, Quality, Accounting, Warehouse, Maintenance, etc.
CURRENT CAPACITY (hours/year)	255.000	Considering 230 employees
INSTALLED CAPACITY (hours/year)	430.000	Considering 330 employees

CURRENT CAPACITY (hours/year)	255.000	Considering 230 employees
INSTALLED CAPACITY (hours/year)	430.000	Considering 330 employees



Our Partners: Brasil

- **TEC Tooling_Aethra**
- Injetaq_TAQ



Assembling
Devices

Portfolio



Assembling
Lines Jigs



Master Cubing
Devices



Checking
Fixtures



Stamping Dies



SOFTWARES (CAD / CAE)



CAD

UNIGRAPHICS **NX 9**
CATIA V5 **6R.2016**
SOLIDEDGE
AUTOCAD
POWERSCKET
POWERSHAPE
OMNICAD



CAM

POWERMILL



FEASIBILITY

PAMSTAMP **2017.0**
AUTOMFORM **R7**



SCANNING

GEOMAGIC STUDIO
GEOMAGIC QUALIFY



METROLOGY

PCDMIS
CAM2
METROLOG



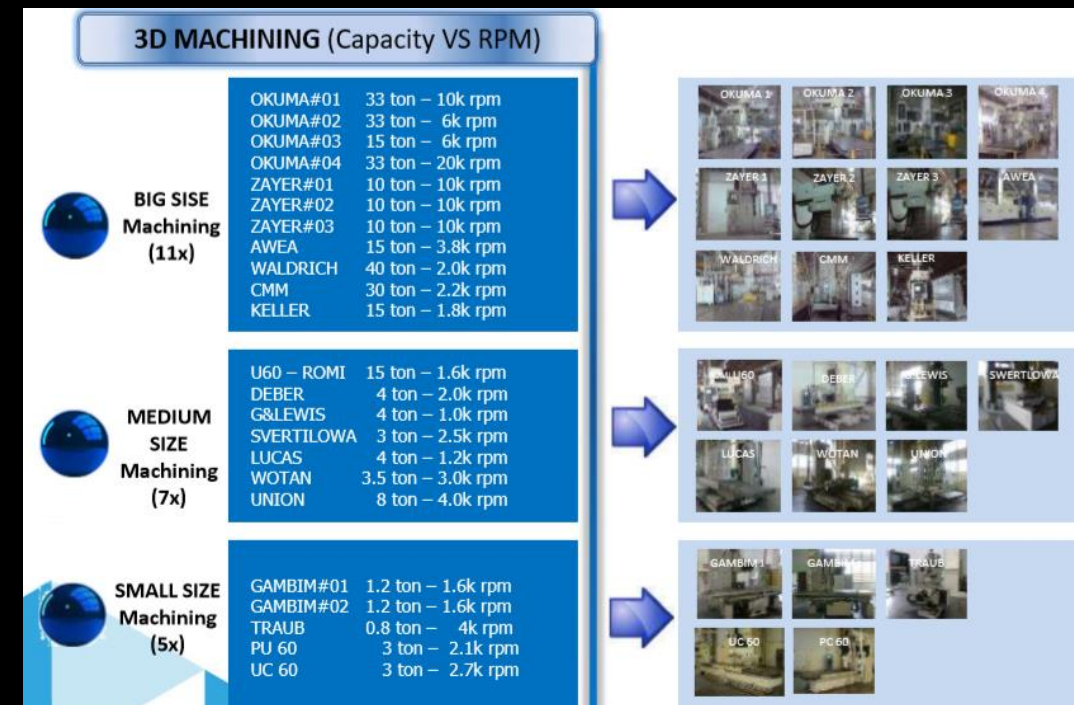
VISUALIZATION

3D TEAMCENTER VISUALIZATION

Our Partners: Brasil

- TEC Tooling_Aethra
- Injetaq_TAQ

Class	Model	X axis (mm)	Y axis (mm)	Z axis (mm)	Spin (RPM)	Speed rate (mm/min)	Capacity (Ton)	Comand	Power
BIG	OKUMA 1	5000	3700	800	10000	10000	33 T	OSP700M	84 Kva.
BIG	OKUMA 2	5000	3700	800	6000	10000	33 T	OSP – U 100	54 Kva.
BIG	OKUMA 3	4000	2000	450	6000	15000	12 T	OSP – E100L	34 Kva.
BIG	OKUMA 4	5000	3700	800	20000	20000	33 T	OSP – E100M	64 Kva.
BIG	ZAYER 1	4700	1500	2000	6000	25000	10 T	FIDIA C20	37 Kw.
BIG	ZAYER 2	3700	1500	2000	10000	25000	10 T	FIDIA C20	37 Kw.
BIG	ZAYER 3	3700	1500	2000	10000	25000	10 T	FIDIA C20	37 Kw.
BIG	AWEA	5000	2800	800	3800	10000	15 T	FANUC Series 18i – MB	80 Kva.
BIG	WALDRICH	13500	4750	1000	2000	8000	40 T	SIEMENS - 840D	55 Kw.
BIG	CMM	9000	2825	1000	2200	5000	30 T	SIEMENS - 840D	50 Kw.
BIG	KELLER	3000	1480	480	1800	3000	15 T	SIEMENS – 802	49 HP
MED	U60 - ROMI	2300	1250	960	1600	4000	15 T	SIEMENS – 802	10 HP
MED	DEBER	3450	1000	1300	2000	5000	4 T	FIDIA COPY MILL	18 HP
MED	G&LEWIS	2200	1440	1280	1050	5000	4 T	FIDIA COPY MILL	20 HP
MED	SVERTILOVA	2045	1450	300	2500	1800	3 T	CONVENTIONAL	18 HP
MED	LUCAS	2210	1350	850	1200	5000	4 T	FIDIA COPY MILL	20 HP
MED	WOTAN	1800	1350	1000	3000	1600	3,5 T	CONVENTIONAL	15 HP
MED	UNION	2750	1930	1000	4000	1000	8 T	SIEMENS-840D	18 HP
SML	GAMBIM 1	1700	590	700	1600	3500	1,2 T	Z32	6 Kw.
SML	GAMBIM 2	1700	590	700	1600	3500	1,2 T	FIDIA COPY MILL	4 Kw.
SML	TRAUB	450	450	480	4000	1800	0,8 T	HENTENHAI TNC 175	1,8 Kw.
SML	PC 60	1365	636	520	2144	9000	3 T	ECS 2401	-
SML	UC60	1710	350	795	2700	9000	3 T	ECS 2401	-



Our Partners: Brasil

- **TEC Tooling_Aethra**

- Injetaq_TAQ



Try-out Presses Specs

Class	Brand	Sort	BOLSTER Dimensions	SLIDER STROKE (Max / Min)	RAM STROK (Max/Min)
BIG	SIMPAC 2000	SINGLE ACTION UPR/LWR Cushion	2500X5000mm	Máx. 1650mm / Min. 1100mm	N/A
BIG	DANLY 2000	DOUBLE ACTION	2400X3960mm	Máx. 1955mm / Min. 1700mm	Máx. 1830mm / Min. 1565mm
BIG	VERSON 2000	DOUBLE ACTION	2400X4570mm	Máx. 1815mm / Min. 1605mm	Máx. 1670mm / Min. 1450mm
MED	LUXOR 1000	SINGLE ACTION LWR Cushion	1840X3965mm	Máx. 1345mm / Min. 890mm	N/A
MED	DANLY 950	DOUBLE ACTION	2135X3345mm	Máx. 1540mm / Min. 1185mm	Máx. 1440mm / Min. 1085mm
MED	SCHULER 800	DOUBLE ACTION	1676X2743mm	Máx. 1545mm / Min. 1050mm	Máx. 1470mm / Min. 980mm
MED	RIO NEGRO 250	SINGLE ACTION	2450X3000mm	Máx. 1770mm / Min. 1055mm	N/A
SML	DANLY 400	SINGLE ACTION	1524X2743mm	Máx. 940mm / Min. 655mm	N/A
SML	PIRATININGA 400	HIDRAULIC	1600X2470mm	Máx. 1540mm / Min. 520mm	N/A
SML	HIMECA 250	HIDRAULIC	1500X2000mm	Máx. 500mm / Min. 200mm	N/A
SML	LUXOR 400	HIDRAULIC	1300X1500mm	Máx. 1290mm / Min. 400mm	N/A
SML	LUXOR 400	HIDRAULIC	1300X1500mm	Máx. 1290mm / Min. 400mm	N/A

QUALITY RESOURCES

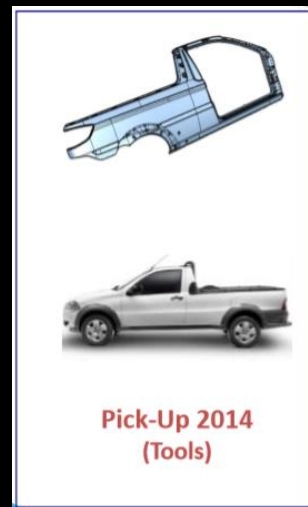
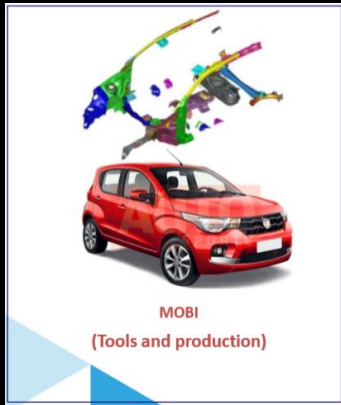
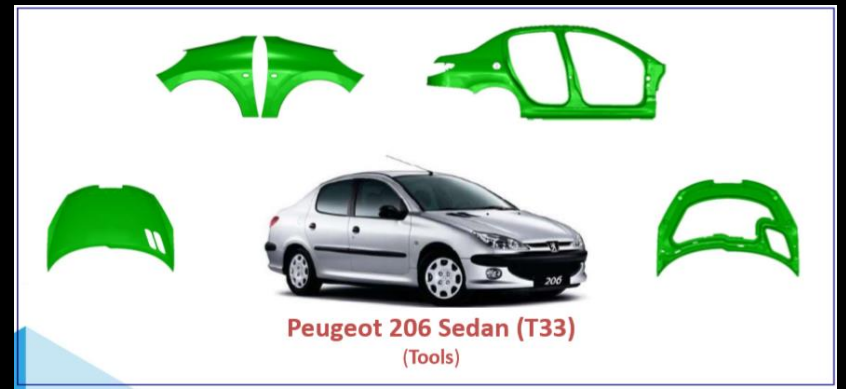
- METROLOGY Devices**
 - CNC CMM - DEA BETA (pcdims)
 - MANUAL STIEFELMAYER (pcdims)
- METROLOGY Accessories**
 - Braço FARO #01 (geomagic)
 - Braço FARO #02 (geomagic)
 - 01x LASER SCAN device
- Certificates**
 - ISO 9001:2015 (ABS)
 - ISO TS 16949:2009 (ABS)
 - ISO 14001:2004 (ABS)
 - VDA6 - part3 (MBB & VW)
 - QSB (FIAT & GM)
 - EAQF (ASES) (RENAULT)
 - Q1 (FORD)

TRY-OUT PRESSES (tonnage)

- BIG SIZE PRESS (3x)**
 - SIMPAC S/A 2000.ton (upr+ lwr cushion)
 - DANLY D/A 2000.ton
 - VERSON D/A 2000.ton
- MEDIUM SIZE PRESS (4x)**
 - LUXOR S/A 1000.ton (lwr cushion)
 - DANLY D/A 950.ton
 - DANLY S/A 400.ton
 - PIRATININGA 400.ton HIDRAULIC
- SMALL SIZE PRESS (5x)**
 - RIO NEGRO 250.ton HIDRAULIC
 - HIMECA 250.ton HIDRAULIC
 - DANLY 400.ton
 - LUXOR 400.ton HIDRAULIC
 - LUXOR 400.ton HIDRAULIC

Our Partners: Brasil

- **TEC Tooling_Aethra**
- Injetaq_TAQ



Contact: John Fernandez
313-492-0500
jfernandez@usdietrack.com

Our Partners: Brasil

- TEC Tooling_Aethra
- Injetaq_TAQ



- Founded: 1991
- Capital: US\$ 25 M
- Employees: 121

- Sales: US\$ 19 M (2018)

- Location: Santo Andre, SP Brasil

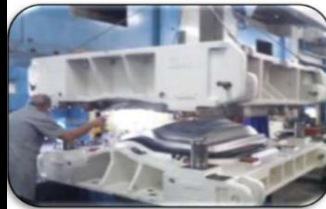
- Products: Automotive Panels (small/medium):
 - Semi-Exposed
 - Closures
 - Brackets
 - Underbody



Our Partners: Brasil

- TEC Tooling_Aethra
- Injetaq_TAQ

Clients



Our Partners: Brasil

- TEC Tooling_Aethra
- Injetaq_TAQ

For more information on Injetaq capacities, equipment, current projects, etc. please contact me at the Number and Email below.



Contact: John Fernandez
313-492-0500
jfernandez@usdietrack.com

Summary

We support our customers from Kick Off in product development to mass production. Because of our years of expertise, we are able to coordinate complex tool engineering projects. For major projects, we support our customers in implementing complex technical systems in the field of component development with experts in Stamping (Cold & Hot), sheet metal forming & plastic Injection



- Supervision and acceptance from drawing simulations, 3D methods, tool designs and die cast models.
- Validation of tool quotes or modification costs
- Technical documentation and project reporting
- Supervision of external tool and part suppliers
- Quality assurance and determination of component-changing actions and change or corrective action
- Surface audit and coordination of sampling
- Tool pre-acceptance for tool manufacturers and approvals on production presses up to the point of process reliability, PPAP.
- Coordination of Tool Relocations/Shipment
- Insurance and achievement of project targets (costs, quality, deadlines)
- Escalation management

President: John Fernandez

My name is John Fernandez and I am the owner of Die Track, LLC. Having completed my apprenticeship in Brazil at 18 y/o, I have been in the Tool & Die world for over 30 years.

Some of my experience contains a 13 year journey at Ford Motor Co, as a member of management at Dearborn Tool & Die, 4 years at Toyota Texas, where I was a member of the Launch team, launching the Plant, 3 different Tundra versions, and a vehicle transfer, FCA as the Plant manager at Mount Elliott Tool and Die, and latest as a Global Program manager, responsible for all Die Related Projects for Jeep, The Ram truck, the Compass Brazil, Compass Mexico (Toluca), and the China Cherokee (7 passenger China vehicle only).

As the owner of Die Track, I personally oversee every project, regardless of size, complexity, or location.

Die Tack has been able to form a team of experts, globally, and is a major presence in the Automotive World.

With members in the biggest automotive market in the world, as in USA, China, South America, Europe, we speak every language. Period.

Our strength is in stamping, but we're definitely not limited to it.

We have permanent representatives in China, Taiwan, Korea, Germany, Italy, Brazil, and of course the United States of America, Canada and Mexico.

I speak Fluent Spanish, Native Portuguese, and Native English, (and some Italian without bragging rights)..

