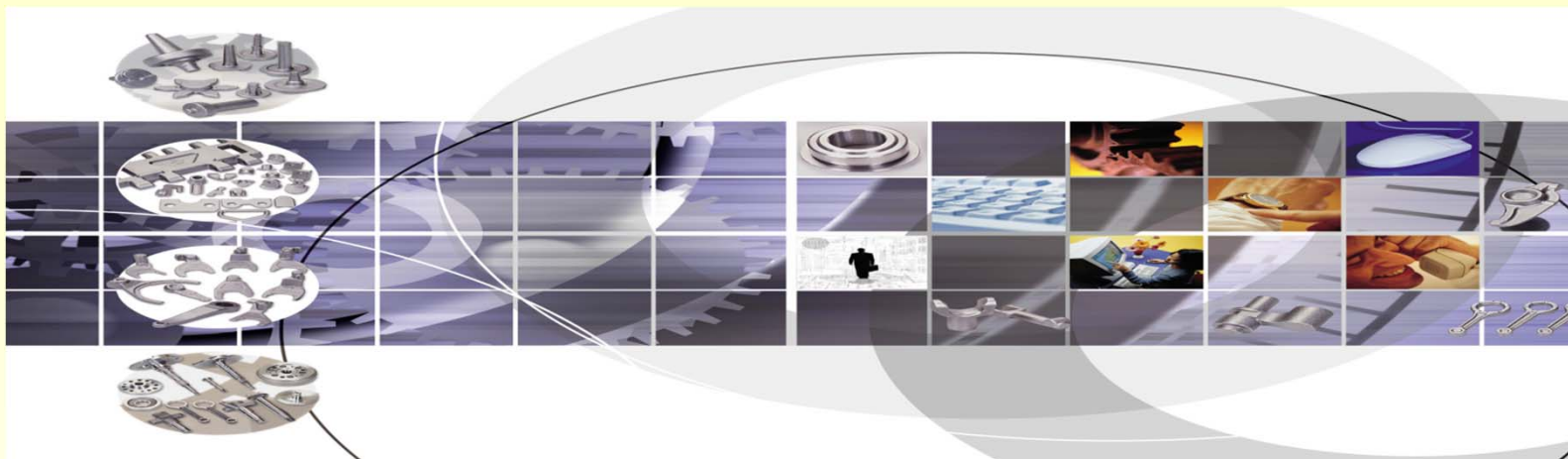


Supplier Presentations

2018

JIN KWANG



Automobile parts of Forging & Machining

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1. Company Overview
 - Vision
 - Location
 - Chronicles
 - Organization
2. Sales Status
3. Customer Base
4. Product Portfolio
5. Manufacturing Capability / Capacity
6. Inspection & Measurement
7. Processing flow charts
8. Quality Status

Vision

MOTTO

**Team Playing
Creativeness & Development
Cultivating Talent**

MANAGEMENT POLICY

**Creative Research & Development
Thrift & Saving Done
Customer Impression
Enthusiastic Decision Making
Mutual Respect of all staffs**

QUALITY POLICY

**Increased the ability of Q.C staffs
Achieve “ZERO” of customer complaint
Inspired the quality Critical to all staffs
Set up the Recurrence Prevention in inner**

Locations

Head Office & 1st Plant

- ADDRESS : #204-63, Yuha-Lo, Jang yu – Myun (50970), Gim Hae City, Kyung Nam, Korea
- AREA : Plot of Land – 114,378ft, building - 37,770ft.



Locations

2ND Plant

- ADDRESS : #1499, Seo Bu Lo, Ju chon – Myun,(50877), Gim Hae City, kyung Nam
- AREA : Plot of Land:47,738ft, Building:30,201ft.



Locations

3rd Plant

- ADDRESS :#80-101-Golden Root lo, Ju Cheon Myun,(50969), Gim Hae City, Kyung Nam
- AREA : Plot of Land:213,797ft, Building:163,363ft



Chronicles

JUL.1978:Established Jin Kwang Co.,Ltd.

OCT.1988:Established the mould plant.

SEP.1990:Installed 1,000Ton Line.

AUG.1993: Achieved No Accident three times
(Awarded the prize minister of labor Dept.)

MAR.1998:Installed the Q.T of Heat treatment furnace

FEB.1999: Installed 1,600Ton line.

APR.1999:Install auto-MCT machinery in the mould
plant .(CAD: R14, CAM: Euklid System)

JAN.2000:Acquired ISO 9002.

MAY.2000:Installed 1,300Ton Line.

MAY.2000:Installed Auto-sequence heat treatment of ISO.

NOV.2001:Acquired Hyundai Motor SQ Certification.

JUN.2002:Established 2nd factory in Nae Sam.

MAR.2003:Installed ERP System.

DEC.2004:Installed 1,600Ton in 2nd Plant.

FEB.2005:Acquired TS16949 Certification.

JAN.2006:Installed CMM & Conturo Measurement(Manual)

AUG.2006:Acquired ISO14001 Certification.

NOV.2006:Awarded Export of ten million monument.

JAN.2007:Installed Chemical component analyzer
(Belec compact port from Germany)

JUL.2009:Installed Cutting Machinery & Cold rolling machinery
equipment.

MAR.2012:Built add plant of MOBICO.

JUN.2012:Installed Auto-sequence heat treatment of NOR.

FEB.2013:Installed Auto-transfer in 2,500Ton.

AUG.2013:Installed Auto-transfer in 1,000Ton.

DEC.2013:Built the mould inventory.

JUL.2014: Installed the cutting machinery of 600Ton in
2nd plant.

SEP.2014: Installed New 750Ton line in the 1st plant.

OCT.2014:Registered to supplier as Tier 1 of SHOWA.

DEC.2014:Purchased the machining equipment –CNC & MCT.

DEC.2014:Installed 3rd plant for the machining parts.

SEP.2015:Move to set up the machinery in 3rd plant.

MAR.2016:Acquired SQ for heat treatment facilities by Hyundai

SEP.2016: Established Legal body in Mexico(Celaya)

DEC.2016:Installed 1600Ton warm forging press in 1st plant

JAN.2017:Installed CMM & Conturo Measurement(Auto)

Installed 3500Ton forging press in 1st plant.
(Auto-Transfer)

DEC.2017: Audited IATF 16949.

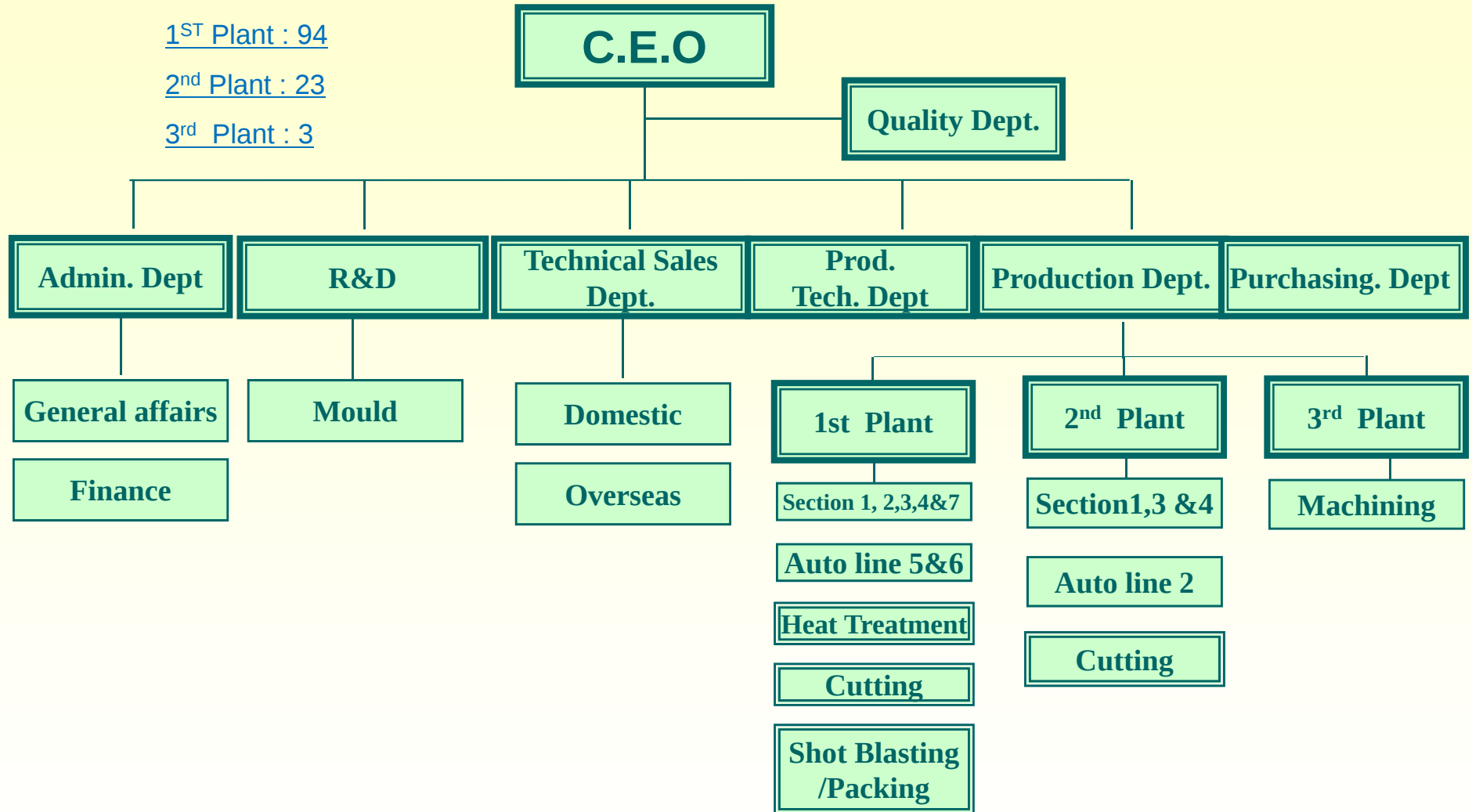
Organization

Total: 120

1ST Plant : 94

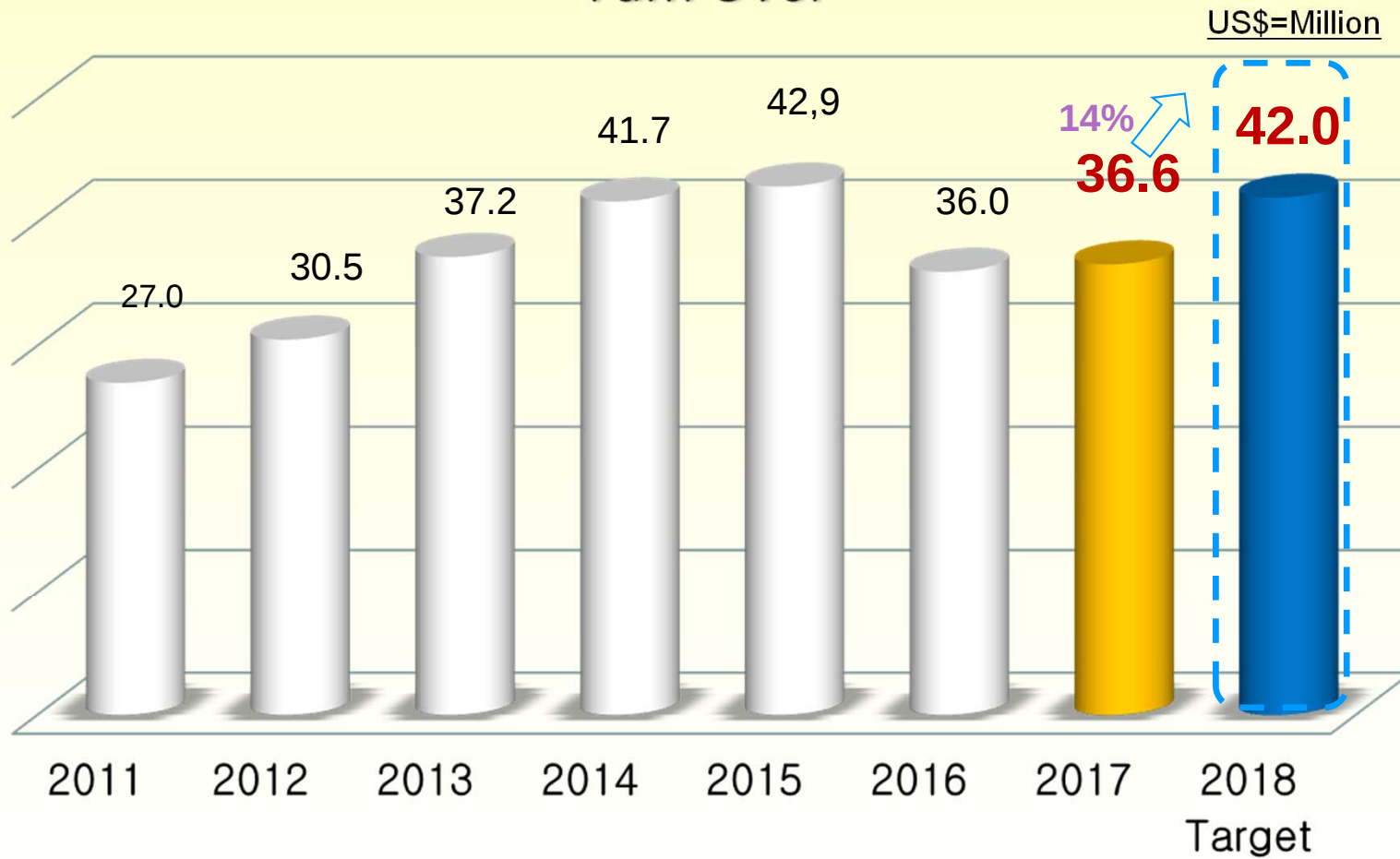
2nd Plant : 23

3rd Plant : 3



Sales status

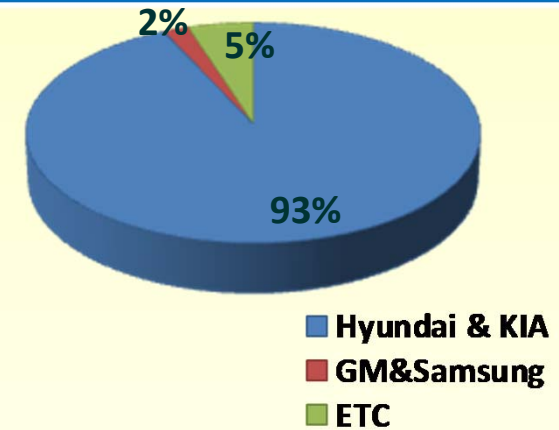
Turn Over



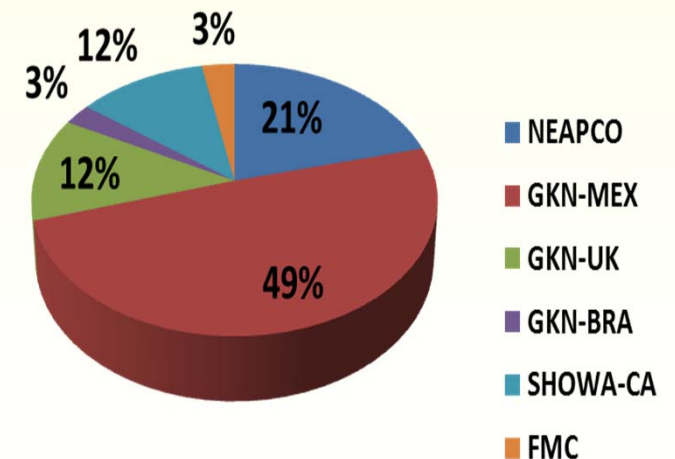
Customer Base

Customer		1st supplier	Engine Component	Driveline Components	Transmission Components	Refueling components
D o m e s t i c	Hyundai KIA	WOOSU AMS	Cam Shaft R/ARM	Yoke Shaft Flange Spindle Shaft S/Outer Tube Yokes Inner ROD	Hub Parking Sprag Gear Parts Sun Gear Parts Boss & Body C/Boss	Nozzle Holder Body Drive Shaft Head Rod
		DIC				
		CTR				
		CTR-DTS				
		MIBO GEAR				
		PYEONGHWA				
	GM Korea	HAEDONG MACHINERY	Clamp	Cross,Cap		
		S&T DYNAMICS				
	Renault Samsung	CTR-CMS			HUB	
	POLARIS	Neapco(USA)		CV-Bell, Yoke		
E x p o r t	HONDA	SHOWA(CANADA)		Yoke Stub		
	FCA,FORD	GKN(Mexico)		Stub Shaft Outer Race		
	LAND ROVER	GKN(U.K)		Tube/Yoke		
	Mercedes -Benz	GKN(Brazil)		Inner Race		

Domestics Customer



Overseas Customer



Main Products

STUB SHAFTS



RING & PINION GEAR



YOKES



YOKE SHAFTS



Manufacturing Capacity

Division	Production Lines	Capacity(10hr/Day)		Remark
		Ton/Month	Ton/Year	
1 st Plant	750Ton(2EA)	300Ton	3,600Ton	1shift
	800Ton	300Ton	3,600Ton	2shifts
	1,000Ton(Auto transfer)	300Ton	3,600Ton	1shift
	1,300Ton	320Ton	3,840Ton	1shift
	1,600Ton	350Ton	4,200Ton	1shift
	1,600Ton(Warm press)	250Ton	2,850Ton	Ready
	3,500Ton(Auto transfer)	630Ton	7,560Ton	1shift
2 nd Plant	1,350Ton	320Ton	3,840 Ton	1shift
	1,600Ton(2EA)	700Ton	8,400Ton	1shift
	1,600Ton(Auto transfer)	350Ton	4,200Ton	1shift
T O T A L		(2,100 Ton) 3,820Ton	(25,130Ton) 45,690Ton	55% of Spare

The Equipment of Forging Press



750T Hot Forging Press



800T Hot Forging Press



1000T Hot Forging Press



1300T Hot Forging Press



1600T Hot Forging Press

The Equipment of Forging Press



1600T Warm Forging Press



3500T Hot Forging Press

The Equipment of Heat Treatments & etc.



H.T – ISO * 2



H.T – Q.T



H.T – NOR



Raw Material –F.I. F.O



M.P. I Tester



Mould Inventory

Manufacturing Capability

- ◆ In-House Tooling Design & Build (CAD/CAM)
 - AutoCAD R14 / EUKLID (GERMANY)
 - Pro Engineer WF3.0 / Deform
 - High Speed Machining Center 5EA
- ◆ Installed ERP system
- ◆ In-House Heat Treatment Facility(4 Lines)
 - Continuous Furnace-NOR, Q.T & ISO(CA)
 - Capacity of Heat Treatment per year
 - NOR:4,500Ton.
 - Q.T:4,500Ton.
 - ISO:9,000Ton (2 furnaces)
- Machining Equipment Facility
 - MCT-3EA
 - AUTO Lathe(CNC)- 10EA, Rolling (DAIS)
 - Strategic special field for special customer

Production Facilities

Facility Name	Spec.	Q'TY
Forged Press	3,500TON	1
	1,600 TON	4
	1,300 TON	2
	1,000 TON	1
	800 TON	1
	750 TON	2
	1,600 TON (Warm)	1
Trimming Press	200 TON	4
	150 TON	2
	110 TON	2
Electric Induction Heater	1,000 KW	2
	700KW	2
	650 KW	3
	500 KW	3
	350 KW	3
Hydraulic Press	450 TON	1
Automatic Cutter	600TON	2
	CADY 80/50	2
	Circular	3
	Band Saw	1
Forklift	3.5 TON	7

Facility Name	Spec.	Q'TY
Continuous Heat Treat Furnace	390 kW	4
Shot blast M/C	1 TON	3
	1.5 TON	1
	0.5 TON	2
Electric Welding M/C	7.6 kW	2
MIG Welding M/C	50~60Hz	2
Electric Discharging M/C	SX-50A	3
	SX-100A	2
Milling Lathe M/C	DHB UB	3
	HMV-F-1300	2
	TMB-2S	1
CNC MCHN'G CNTR		5
Lathe	460-1000	3
	580-1000	3
Burr Removal M/C	400 x 1000	2
Drilling M/C	5~50mm	2
Compressor	700HP	3
	75 HP	3
	50 HP	2
Facility Name	Spec.	Q'TY
MCT	VC-510	3
CNC	LYUX-220A	10
ROLLING	DAIS	1

Inspection Equipment

Tester Name	Spec.	Qty
CMM	IMPACT600 (Manual)	1
	CONTURA (Auto)	1
Contour Measurement	CV-2000	1
	CV-2000M4	1
Spectrometer	Compact Port	2
M.P.I. Tester	DC 3000A	2
Profile Projector	CPJ-3015Z	1
Brinell Hardness Tester	3000 kg	3
Rockwell Hardness Tester	150Kg	2
Metallurgical Microscope	CV40M-32	2
Height Gauge(Digital)	300 mm	9
Gage Block Set	76-1	1
Bench Centers	650x400x150	1
Magnetic Block	180x180x180	3
Granite Surface Plate	750 x 1000	3

Tester Name	Spec.	Qty
Digital Caliper	200 mm	8
Depth Gauge	200 mm	4
Height Gauge	0~600mm	1
Vernier Calipers	200 mm	14
	300 mm(Digital)	1
Polishing M/C	NEOPOLZ-8	4
Micrometer	300 mm	3
	25~50mm(Digital)	1
Dial Gauge	0.01 mm	5
Digimatic Micrometer	150 mm	1
Dial Test Indicator	0.14x0.001	2
Bore Gauge	50-150x0.01	3
Angle Partition	0~180°	1
Comfortable Spectrometer	Bruker Modell SI Titan600	1

Process Flow Chart

Incoming Raw material	Cutting (Billet Saw M/C)	Mults heating	1 ST Forging Upsetting	1ST Forging	2 ND Forging	Trimming
						

Inspection	Heat treatment	Shot blasting	MPI TEST	Final inspection	Packing/ Shipping
					

Quality Status



	2014	2015	2016	2017	2018 Target
Process(ppm)	572	560	445	369	280
Customer(ppm)	500	497	386	279	210
Export(ppm)	0	0	0	50	0

Thank you very much!!

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