

Main Equipment List

Procedure	Process	EquipmentName	Manufacturer	Country Of Origin	Use Date	Quantity	Total
BoardCutting	BoardCutting	AutomaticCuttingMachine	SCHELLING	AUSTRIA	2000.12	1	1
	Drilling	2DrillingMachine	JINGYI	CHINA	2007.07	1	2
		2DrillingMachine	JINGYI	CHINA	2007.07	1	
	Pinning	PinInsertionMachine	Automax	TAIWAN	1999.04	1	1
	Tape	AutomatictapeMachine	Kyosha	JAPAN	2013.7.17	3	3
InternalLayer	Pretreatment	1InnerPretreatment	UNIVERSAL	CHINA	2002.03	1	2
		2InnerPretreatment	UNIVERSAL	CHINA	2006.07	1	
	Coating	LevelRollerCoatingMachine	ATOTECH	HONGKONG	2003.10	2	2
	Exposure	1AutomaticExposureMachine	BACHER	GERMANY	2004.09	1	6
		2ExposureMachine	BACHER	GERMANY	2006.07	1	
		34ExposureMachine	BACHER	GERMANY	2006.10	2	
		5ExposureMachine	STANDRISE	HONGKONG	2008. 01	1	
		6ExposureMachine	BACHER	GERMANY	2008. 04. 30	1	
	Etching	1DevelopingAndEtchingAndStrippingMachine	UNIVERSAL	CHINA	2002.03	1	2
		2DevelopingAndEtchingAndStrippingMachine	UNIVERSAL	CHINA	2006.07	1	
AOIInternalLayerAOI	AOIAutomaticOpticalInspection	AutomaticOpticalInspectionMachine	CAMTEK	ISRAEL	2008. 01. 10	4	8
		1AutomaticOpticalInspectionMachine	Optima	ISRAEL	2004.09	1	
		AutomaticOpticalInspectionMachine	Optima	ISRAEL	2001.05	1	
		AutomaticOpticalInspectionMachine	CAMTEK	ISRAEL	2012. 8. 17	2	

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Pressing	PilotHoleDrilling	PilotHoleDrillingMachine	SLDS	TAIWAN	2000.11	5	5
	PPPPDrilling	PPPPDrillingMachine	EVERWIN	CHINA	2008.09	1	1
	BrownOxidation	1BrownOxidationMachine	UNIVERSAL	CHINA	2008.06	1	2
		2BrownOxidationMachine	UNIVERSAL	CHINA	2006.01	1	
	Bonding	1BonningMachine	CEDAL	ITALY	2000.11	1	3
		BondingMachine	CEDAL	ITALY	2007.09	2	
	Layup	LayupMachine	CEDAL	ITALY	2003.04	2	3
		3LayupMachine	CEDAL	ITALY	2007.09	1	

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Pressing	Pressing	1PressingMachine	CEDAL	ITALY	2000.11	1	4
		23PressingMachine	CEDAL	ITALY	2003.04	2	
		4PressingMachine	CEDAL	ITALY	2007.09	1	
	Milling	MillingMachine	VIGOR	TAIWAN	2000.11	1	1
	Reductionofcopper	ReductionofcopperMachine	SCHMID	CHINA	2010.03	1	1
	Routing	1RoutingMachine	DALIANG	TAIWAN	2000.11	1	2
		2RoutingMachine	LIHSONG	TAIWAN	1996.04	1	
	PilotHoleDrilling	XRAYXRAYDrillingMachine	DERLIHFUH	TAIWAN	2010.08.31	1	2
		XRAYXRAYDrillingMachine	DERLIHFUH	TAIWAN	2012.8.9	1	
	Pressing	Oilpressingmachine	LIENCHIEH	TAIWAN	2010.02.12	1	1
Returnline	Layupreturnline	LANTHE	TAIWAN	2010.02.12	1	1	
Drilling	Pinning	AutomaticPinningMachine	Automax	TAIWAN	2008.05.20	1	1
	Laser	LaserDrillingMachine	MITSUBISHI	JAPAN	2009.07	3	5
		LaserDrillingMachine	MITSUBISHI	JAPAN	2011.06.29	2	
	MechanicalDrilling	HitachiDrillingMachine	HITACHI	JAPAN	2004.10	12	12
		SchmollSchmollDrillingMachine	SCHMOLL	GERMANY	2006.07	2	36
		SchmollSchmollDrillingMachine	SCHMOLL	GERMANY	2006.09	2	
		SchmollSchmollDrillingMachine	SCHMOLL	GERMANY	2007.07	21	
		SchmollSchmollDrillingMachine	SCHMOLL	GERMANY	2010.06.29	2	
		SchmollSchmollDrillingMachine	SCHMOLL	GERMANY	2010.08.06	3	
		SchmollSchmollDrillingMachine	SCHMOLL	GERMANY	2011.07.23	6	

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		SchmollSchmollDrillingMachineTwoSpindle	SCHMOLL	GERMANY	2009.01.09	1	1
Drilling	Eliminationoxidereplacementfilm	EliminationOxideReplacementFilmMachine	TENGTAI	HONGKONG	1996.10	1	1
	HoleInspection	HoleInspectionMachine	YAYATECH	TAIWAN	2006.11	1	1
	MicroViaInspect	MicroViaInspectMachine	YAYATECH	TAIWAN	2010.02	1	1
	HoleLocationAnalyzer	HoleLocationAnalyzerMachine	YAYATECH	TAIWAN	2010.02	1	1

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CopperPlating	Scrubbing	1ScrubbingMachine	UNIVERSAL	CHINA	2004.09	1	2
		2ScrubbingMachine	UNIVERSAL	CHINA	2005.07	1	
	Desmear	1LevelDesmearMachine	UNIVERSAL	CHINA	2004.01	1	2
		2LevelDesmearMachine	UNIVERSAL	CHINA	2008.07	1	
	PTH	ChemicalCopperLine	PAL	HONGKONG	2005.08	1	1
	AcidRinse	RinsingMachine	UNIVERSAL	CHINA	2004.11	1	1
	PanelPlating	1PlatingLine	PAL	HONGKONG	1996.10	1	5
		2PlatingLine	PAL	HONGKONG	1996.10	1	
		3PALPlatingLine	PAL	HONGKONG	2002.05	1	
		MCPVerticalContinuousPlatingMachine	PAL	HONGKONG	2008.11	1	
		VerticalContinuousPlatingMachine	PAL	HONGKONG	2011.08.08	1	
	Drying	MCPDryerMCP	UNIVERSAL	CHINA	08.10.19	1	5
		Dryer	UNIVERSAL	CHINA	2005.07	3	
Dryer		UNIVERSAL	CHINA	2011.08.12	1		
ExternalLayer	Pretreatment	1PretreatmentMachine	UNIVERSAL	CHINA	2005.06	1	3
		2PretreatmentMachine	UNIVERSAL	CHINA	2004.02	1	
		3PretreatmentMachine	SuzhouTopCreation	CHINA	2010.08.27	1	
	Lamination	12AutomaticLaminator	HITACHI	JAPAN	2007.05	2	3
		AutomaticLaminator	CSUN	TAIWAN	2010.11	1	
		0RCORCExposureMachine	ORC	JAPAN	2000.10	2	
		5ExposureMachine	CSUN	TAIWAN	2004.08	1	

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ExternalLayer	Exposure	CollimatedExposureMachine	ORC	JAPAN	2004.10	1	10
		CollimatedExposureMachine	ORC	JAPAN	2008.06	2	
		CCDCCDCollimatedExposureMachine	CSUN	TAIWAN	2009.09	2	
		CCDCCDCollimatedExposureMachine	CSUN	TAIWAN	2011.01	2	
	Developing	1DevelopingMachine	UNIVERSAL	CHINA	2005.06	1	3
		2DevelopingMachine	UNIVERSAL	CHINA	2004.02	1	
		3DevelopingMachine	SuzhouTopCreation	CHINA	2010.08.22	1	

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ExternalLayerEtching	Etching	1EtchingAndStrippingMachine	UNIVERSAL	CHINA	2005.08	1	3
		2EtchingAndStrippingMachine	UNIVERSAL	CHINA	2004.09	1	
		3EtchingAndStrippingMachine	AMPOCFAR	CHINA	2011.08.25	1	
AOIExternalLayerAOI	AOIAutomaticOpticalInspection	AutomaticOpticalInspectionMachine	CAMTEK	ISRAEL	2008.08	4	9
		1AutomaticOpticalInspectionMachine	CAMTEK	ISRAEL	2007.06	1	
		AutomaticOpticalInspectionMachine	CAMTEK	ISRAEL	2011.09	2	
		AutomaticOpticalInspectionMachine	CAMTEK	ISRAEL	2012.08	2	
	Verifying	VerifyingAndRepairingStation	CAMTEK	ISRAEL	2008.08	5	13
		VerifyingAndRepairingStation	CAMTEK	ISRAEL	2010.04.06	3	
		VerifyingAndRepairingStation	CAMTEK	ISRAEL	2011.09	3	
		VerifyingAndRepairingStation	CAMTEK	ISRAEL	2012.08	2	
SolderMask	Pretreatment	APretreatmentMachine	UNIVERSAL	CHINA	2004.02	1	2
		BPretreatmentMachine	UNIVERSAL	CHINA	2005.06	1	
	Printing	6ScreenPrintingMachine	CH	TAIWAN	1996.08	1	9
		ScreenPrinterMachine	LENSTAR	TAIWAN	2005.06	7	
		ElectricFlatScreenPrinter	RUIGUAN	CHINA	2011.11	1	
	PreCure	ATunnelFurnace	UNIVERSAL	CHINA	2004.02	1	2
		BTunnelFurnace	UNIVERSAL	CHINA	2004.08	1	
	Exposure	ExposureMachine	CSUN	TAIWAN	2008.1	4	5
		CExposureMachine	ORC	JAPAN	1996.08	1	
	Developing	ADevelopingMachine	UNIVERSAL	CHINA	2004.02	1	1

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SolderMask	Developing	BDevelopingMachine	UNIVERSAL	CHINA	2007.08	1	1	
	PostCure	3BakingOven	UNIVERSAL	CHINA	1996.08	1	1	
		ATunnelFurnace	UNIVERSAL	CHINA	2002.12	1	3	
		BTunnelFurnace	UNIVERSAL	CHINA	2002.12	1		
		CTunnelFurnace	UNIVERSAL	CHINA	2004.01	1		
ElectrolessNickelAndGold	Pretreatment	PretreatmentMachine	UNIVERSAL	CHINA	2001.03	1	3	
	Pretreatment	PretreatmentMachine	UNIVERSAL	CHINA	2011.9	1		
	Pretreatment	PretreatmentMachine	UNIVERSAL	CHINA	2011.09	1		
	ElectrolessNickelImmersionGold	ElectrolessNickelImmersionGold	PALElectrolessNickelImmersionGold	PAL	HONGKONG	2008.03	1	2
			ElectrolessNickelImmersionGold	PROTEK	CHINA	2010.09.02	1	
	PostProcessing	Dryer	UNIVERSAL	CHINA	2005.09	1	1	

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HotAirLereling	Baking	BakingOven	UNIVERSAL	CHINA	1996.08	1	1
	Pretreatment	PretreatmentMachine	UNIVERSAL	CHINA	2006.06	1	1
	HotAirLereling	HotAirLevelingMachine	WORLDWIDE	CHINA	1996.06	1	2
		HotAirLevelingMachineLeadFree	WORLDWIDE	CHINA	1998.05	1	
HotAirLereling	PostProcessing	RinsingMachine	UNIVERSAL	CHINA	2006.06	1	2
		RinsingMachine	UNIVERSAL	CHINA	2005.01	1	
Legend	Rinsing	RinsingMachine	UNIVERSAL	CHINA	2011.01	1	1
	Printing	ScreenPrinterMachine	CH	TAIWAN	1996.08	9	10
	Printing	ScreenPrinterMachine	ATMA	CHINA	2011.11	1	
	UVUVCure	UVUVCurerMachine	CSUN	TAIWAN	2005.08	2	2
	Baking	BakingOven	UNIVERSAL	CHINA	1996.08	2	2
Routing	Routing	RoutingMachine	DALIANG	TAIWAN	2002.12	6	7
		RoutingMachine	Youjia	TAIWAN	2009.12.14	1	
Routing	Routing	RoutingMachine	Youjia	TAIWAN	2010.06.11	1	16
		RoutingMachine	Youjia	TAIWAN	2010.07	3	
		RoutingMachine	Boffotto	CHINA	2011.05.09	2	
		RoutingMachine	Boffotto	CHINA	2011.07	4	
		RoutingMachine	Boffotto	CHINA	2012.8.8	1	
		RoutingMachine	Boffotto	CHINA	2013.8.1	2	
		RoutingMachine	Boffotto	CHINA	2013.9.1	1	
		RoutingMachine	Boffotto	CHINA	2013.9.12	2	

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Punching	Punching	PunchMachine	Shanghaimachinetool plant	CHINA	1996.10	4	9
		CrossShaftPrecisionPowerPress	AIDA	JAPAN	1999.06	1	
		CrossShaftPrecisionPowerPress	LAIFU	TAIWAN	2007.07	2	
		CrossShaftPrecisionPowerPress	YangLi	CHINA	2011.09.15	2	
	Vcut	VcutAutomaticVcutMachine	SHODA	JAPAN	1999.04	1	1
Punching	Rinsing	RinsingMachine	UNIVERSAL	CHINA	2001.02	1	2
		RinsingMachine	UNIVERSAL	CHINA	2002.09	1	

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ETElectricalTest	ElectricalTest	OS2000S2000TesterMachine	FOREVER	TAIWAN	1998.04	6	19
		OS7000S7000AutomaticTesterMachine	FOREVER	TAIWAN	2000.06	3	
		UTRONTesterMachine	UTRON	DONGGUAN	2004.08	4	
		HighVoltageUniversalGridTesterMachine	KAIMA	SHENZHEN	2008.08	2	
		RockerArmAutomaticUniversalGridTesterMachine	KAIMA	SHENZHEN	2010.12	1	
		UniversalGridTesterMachine	MASON	CHINA	2006.08	1	
		UniversalGridTesterMachine	MANIA	CHINA	2004.12	1	
	UniversalGridTesterMachine	CooperationAgencyJICA	CHINA	2011.08.12	1		
FlyingProbe	FlyingProbeTesterMachine	CooperationAgencyJICA	CHINA	2010.05	1	1	
PreFlux	PreFlux	PreFluxMachine	UNIVERSAL	CHINA	2005.08	1	1
FQCFinalQualityControl	Inspection	AVIAVIBoardInspectionMachine	CAMTEK	ISRAEL	2008.11	2	2
	Verifying	PVSPVVerificationSystemMachine	CAMTEK	ISRAEL	2009.5	6	6
	Baking	BakingOven	UNIVERSAL	CHINA	1996.10	3	3
Packing	Packing	1VacuumPackingMachine	ASTON	HONGKONG	1999.04	1	3
		2VacuumPackingMachine	QUALIPAC	HONGKONG	1996.11	1	
		3VacuumPackingMachine	HSINPACK	TAIWAN	2010.08.27	1	
	Strapping	1AutomaticStrappingMachine	FULLYSEMT	HONGKONG	1999.04	1	2
		2AutomaticStrappingMachine	FULLYSEMT	HONGKONG	2000.12	1	