

# Digital Engineering (DE)

Customer	Country	Machine	Grades	Installation	actuator type	No. of actuators	Machine / Headbox type	QCS	CD improvement
Union Geithus	Norway	PM	grease proof	March-91	Caliper actuators	24	Devron Induction	Accuray	85 %
Klippan	Sweden	PM	fine paper	June-91	BW Slice lip	20	Escher Wyss	Accuray	78 %
Klippan	Sweden	PM2	fine paper	August-91	BW Slice lip	17	Escher Wyss	Measorex	56 %
Union Geithus	Norway	PM	grease proof	March-93	BW Slice lip	24	Valmet	ABB	54 %
Chartham Papers	UK	PM2	printing	April-94	BW Slice lip	22	Alstrom	Lippke / LSC	52 %
NBM / YFY	Taiwan	PM19	board	April-94	BW Slice lip	33	Bruderhaus	Impact	54 %
Denayer Paper	Belgium	PM3	release paper	August-95	BW Slice lip	30	Voith Escher Wyss	ABB	~60 %
Denayer Paper	Belgium	PM4	release paper	August-95	BW Slice lip	20	Alstrom	Lippke	64 %
Borreg. Hellefos	Norway	PM1	bible paper	November-95	BW Slice lip	41	Valmet	Lippke / LSC	45 %
Union Geithus	Norway	PM4	fine paper	November-95	BW Slice lip	24	Valmet	ABB	55 %
Sinar Mas, Pune	India	PM1	fine paper	April-96	BW Slice lip	33	Voith Escher Wyss	Yokogawa	50 %
Yen Foong Yu	Taiwan	OMC2	fine paper	June-96	CW actuators	2 * 106			?
Klippan	Sweden	PM2	fine paper	August-97	BW Slice lip	17	KMV (Valmet)	ABB	57 %
Klippan	Sweden	PM2	fine paper	January-99	Caliper actuators	25		Accuray	75 %
Klippan	Sweden	PM1	fine paper	November-99	Caliper actuators	46		Accuray	85 %
Hoffm. & Engel	Germany		paper / board	February-01	BW Slice lip	39	Bellmer	ABB	60 %
Hoffm. & Engel	Germany		paper / board	February-01	BW Slice lip	39	Bellmer	ABB	
PAMA Machinery	Germany	PMx	pilot machine	April-01	BW Dilution	4	dilution control		
Klippan Lessebo	Sweden	PM2	fine paper	April-01	BW Slice lip upgrade	17	Escher Wyss	Measorex	55+20
Laga Mill	Sweden	PM14	waste board	September-01	Caliper sensor	1		Accuray	N/A
Yue Li Machinery	Taiwan	PM1,2	fine paper	October-01	BW Slice lip	87	no control		
Laga Mill	Sweden	PM15	board	March-02	BW Slice lip	24	Escher Wyss	Impact	65 %
Cartiera Grillo	Italy	PM	fine paper	September-02	BW Slice lip	30	Comer	Lippke / LSC	55 %
DG International Spain	Turkey	PM	fine paper	October-02	BW Dilution box	30	Dgi/Circular distrib.	Format	64 %
Laga Mill	Sweden	PM 14	Board	April-03	QCS upgrade		Accu Ray 1180		N/A
BBA Nonwovens	Sweden	line2	nonwoven	June-03	Profilecontrol	32	Reisenhauser	Scienta	50 %
Rakta Paper Ind.	Egypt	PM2,3,4	fine paper	July-03	BW Slice lip	33	Escher Wyss	ABB	N/A
Brandia	Spain	PM 1	Spec. Paper	August-03	Bw Slice lip control	22	Valmet	LSC	55 %
Hansol Paper	Korea	PM53	Special Paper	November-04	Bw profile Control	20	Local mfg.	Abb	55 %
Chartham	England	PM 2	Special Paper	January-05	BW 2 profile upgrade	22	Alstrom	LSC	65 %
Papelera Potosina	Mexico	PM n	board	January-05	Dilution Control	38	Dgi/Circular distrib.	Fomat	65 %
Chartham	Belgium	PM 6	Board	May-05	BW upgrade	35	Voith	LSC	N/A
Bilt paper group	India	PM1	fine paper	June-05	Review/upgrade	33	Voith Escher Wyss	Yokogawa	N/A
Hansol Paper	Korea	PM 51	Special Paper	July-05	BW slice	17	Local/mfg.	ABB	55 %
Glomma Papp	Norway	PM 1	Board	August-05	BW Dilution	36	Dgi/Cir. distrib.	LSC	80 %
Malta Decor	Poland	PM 1	Fine Paper	August-05	BW Slice	28	Oriental	LSC	60 %
Malta Decor	Poland	PM 2	Fine paper	October-05	BW slice	28	Oriental	LSC	60 %
Klippan Lessebo	Sweden	PM2	fine paper	October-05	Upgrade Bw slice	17	Voith Escher V	Mx	70 %
Kreuzau	Germany	PM 2	board	April-06	Dilution Control	75	PM Poland	Metso	> 60 %
Kreuzau	Philippines	PM1	fine paper	June-06	Dilution Control	53	Voith	Honeywell	> 70 %
Batan Baesa	Philippines	PM1	fine paper	November-06	Caliper control	32		Jasch	65 %
Vida Paper	Sweden	PM1	fine paper	November-06	Upgr.Bw, Caliper	45	KMV (Valmet)	Abb	67 %
Vida Paper	Sweden	PM 2		July-07	Caliper control	33	Hunt Mos so cal	Mx	75 %
Hollingsw & Vose	China	PM z	Filter paper	December-07	Dilution Control	20	Hogekamp	SSS	60 %
Papcel	Czech		fine paper	July-08	Slicecontrol	24	Papcel	Abb	54 %
Malta Decor	Poland	PM2	finepaper	July-08	Slicecontrol	24	Papcel	abb	>50 %
Bellmer	China	Board	Board	August-08	Dilution Control	60	Bellmer	HMX	55 %
Muda Paper	Malaysia	PM 7	Board	October-09	Dilution Control	64	Bristol formers	Yokogawa	71 %
Vreden	Germany		board	October-09	Dilutionvalves	44	Bellmer		N/A
Seshasayee	India	PM 5	fine paper	October-09	Slice actuators.	24	Voith	Abb 1190	54 %
Hellefoss Paper	Norway	PM 1	book paper	March-10	Slice actuators.	41	Metso	Measorex	N/A
Muda Paper	Malaysia	PM4	board	July-10	Slice actuators.	24	Holder	Abb	65 %
Muda Paper	Malaysia	PM 6	liner	October-10	Slice actuators.	40	Holder ?	Abb	
Muda Paper	Malaysia	PM8	liner	November-10	Dilution Control	64	Black Clawson	Mahlo	69 %
Bellmer	Germany		Rumania projekt	May-11	Dilution valves	56	Octapus	Abb	
Hollingsworth & Vose	Spain			July-11	Dilution Control		Bellmer	LSC	
Hollingsworth & Vose	England	PM1	Filter paper	July-11	Dilution Control	40	Parsons Reiss		
Bellmer	Germany		Argentina	July-11	Dilution valves	56	Octapus	Honeywell	
Hollingsworth & Vose	England/USA	KM 1	special paper	September-11	Dilution Control	118	Bristol formers	ABB	65 %
Geasa	Brazil		finepaper	November-11	slice control	18	Holder	Fomat	> 50
Bhigwan	Bilt India		fine paper	December-11	upgrade Bw slice	33	Voith	Abb	2 sigma 0.16
Bellmer				February-12	Dilution valves	55	Octapus		
TCP	Thailand	PM 3	Craft	September-12	Slice Control	40	Overmeccanica.	Yokogawa	64 %
AKPC	Thailand	PM 2	fine	October-12	Dilution	54	Allimand	Yokogawa.	
AKPC	Thailand	PM18	fine	November-12	Slice	31	Bruderhauser.	Impact	85 %
AKPC	Korea	PM 2	fine	July-13	Slice	31	Sumitomo/Valm.	Impact	66 %
Muda Paper	Malaysia	PM9	MG	November-13	Slice	22	Escher Wyss	Yokogawa.	72 %
Morrum	Sweden	M2	Pulp	March-14	Dilution	45	GLV	Abb dcs Blix scanner	60 %
Morrum	India	PM1	fine paper	April-14	Dilution	51	Valtec	Jasch	85 %
	Kuvait		finepaper	April-14	slice	31		Jasch	
Tjiwi Kimia	Indonesia	PM 4	fine papers	June-14	Slice	24	Voith	Yokogawa	74 %
LOI	Vietnam		board	May-15	Dilution	56		Jasch	
Battle Creek	USA		Board	May-15	Dilution	43		Honeywell	85 %
Muda Paper	Malaysia		special paper	May-16		24		Yokogawa.	65 %
Malta decor Rudawa	Poland		Special Paper	May-16					
Confidential	USA		Board	September-16	Dilution				
Kuan Yan	Taiwan		Board	June-17	Dilution	77		S-tec	
Confidential	USA		board	March-18	Dilution	86		HMX	
United Paper	Thailand		Board	May-18	Dilution	48		S-tec	
JK Paper	India		fine paper	June-18	Dilution	58		ABB	
JK Paper	India		Filter paper	February-19	Dilution	40		ABB	
Confidential Mexico			Board	March-19	Dilution	36		Emfasi	
Mes LOI	Korea		Filter paper	April-19	Slice	32		Jasch	
United Paper repeat order LOI			Board	August-19		48			
IBS 3 x CD mois.	Austria		Germany		Steambox Control				
Papcel	Checz/Russia		board		Slice Control	36	Papcel	Metso	>50 %
PCM	Mexico		fine paper		Slice control	24		Fomat	
Casalino	Italy		Board	November-21	Dilution Control	39	Andritz	Eurotronix	
Yeletz	Russia		Tobacco	September-22	Slice Control	25	Bellmer	Scienta	
Giacosa	Italy		Board	August-22	Dilution Control	41	Andritz	Enfasi	
Confidential	Thailand		Board	April-23	Dilution Control	48		S-Tec	
Confidential			Board	December-23	Dilution	61	Bellmer	Honeywell	

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