REFERENCE LIST

SEMICONDUCTOR SOLAR PHARMA POWER GENERATION **FOOD & BEVERAGE**

PULP AND PAPER

CHEMICAL OIL AND GAS MINING AEROSPACE AND TRANSPORT



Process & Wastewater Treatment

In the Pulp and Paper Industry



Client	Plant Type	Capac	ity
Mondi Syktivkar/Germany	Feasibility Study for WWTP upgrade	12,000	m³/h
UPM Plattling/Germany	Tertiary Paper Wastewater Treatment Extension of wastewater treatment with tertiary ozonation	510	m³/h
UPM Nordland Papier/Germany	and biofiltration BIOFIT® F Retrofitting two MBBR for pretreating wastewater from the paper industry		
	Aeration with AEROFIT V and BIOFIT® C1 carrier	750	m³/h
SCA Sovetsk/Russia	Treatment of wastewater from the paper industry Extension of raw water treatment with filtration Extension of wastewater treatment with FLOCOMAT®, moving bed reactor BIOFIT® H, aeration AEROFIT V, and biofiltration BIOFIT® F	180	m³/d
Vinakraft Vietnam	Treatment of wastewater from the paper industry Decalcification DECAFIT with AEROFIT V aerator and FLOCOPAC® thickener	250	m³/h
Mondi Swiecie/Poland	Treatment of wastewater from the paper industry Wastewater treatment plant refurbishment with AEROFIT V aerator	2,900	m³/h
PF Wattens Wattens/Austria	Treatment of wastewater from the paper industry Single-stage biofiltration (BIOFIT® F)	350	m³/h
Mondi Syktyvkar/Russia	Condensate polishing plant Cartridge filter, mixed bed exchanger, regeneration station, condensate storage tank	3 x 400	m³/h
Julius Schulte Trebsen/Germany	Treatment of wastewater from the paper industry Wastewater treatment plant refurbishment with AEROFIT V aerator	120	m³/h
TAZV Eisenhüttenstadt Eisenhüttenstadt/Germany	Treatment of wastewater from the paper industry Decalcification DECAFIT with AEROFIT V aerator and FLOCOPAC® thickener	960	m³/h
PM Gmund Gmund/Germany	Treatment of wastewater from the paper industry Membrane bioreactor MBR	33	m³/h
PM Königstein Königstein/Germany	Treatment of wastewater from the paper industry Membrane bioreactor MBR	70	m³/h
RKTK Rubesnoye/Ukraine	Treatment of wastewater from the paper industry Refurbishment aeration – moving bed anaerobic	500	m³/h
IPEK KAGIT Turkey	Treatment of wastewater from the paper industry New wastewater treatment plant with BIOFIT® F biofiltration and thickening for filter backwash wastewater	200	m³/h

1E640 Paper Ind Rev 9 Page: 2 Of: 8 Date: 09/11/2016

Client	Plant Type	Capacity
SCA Mainz-Kostheim	Treatment of wastewater from the paper industry	
Mainz-Kostheim/Germany		
·	New wastewater treatment plant with ANAFIT® AC anaerobic reactor with cogeneration unit, DECAFIT deliming, nitrification, and denitrification	220 m³/h
PMT Egypt	Treatment of wastewater from the paper industry	
шуург	New wastewater treatment plant with FLOCOMAT® T	60 m³/h
Bellesbumprom, Shklov/Belarus	Treatment of raw and wastewater from the paper industry	
	New raw water treatment plant with FLOCOPAC® L New wastewater treatment plant with FLOCOMAT® T, aerobic moving bed reactor, aeration AEROFIT V, aeration BIOFIT® F biofiltration, and tertiary treatment	270 m³/h
SCA Tula/Russia	Treatment of raw and wastewater from tissue production	
	New raw water treatment plant with filtration New wastewater treatment plant with aerobic moving bed reactor, aeration and AEROFIT V biofiltration	30,000 t/year
Phuong Nam Vietnam	Treatment of raw and wastewater from the pulp industry	100,000 t/year
	New raw water treatment plant with filtration New wastewater treatment plant with anaerobic ANAFIT® AC high-performance stage and AEROFIT V aeration.	
Sappi Stockstadt GmbH (form. M-real)	Treatment of wastewater from the pulp industry	
Stockstadt/Germany	Extension of plant capacity with BIOFIT® H biological high-performance stage upstream pure oxygen activated sludge plant	160,000 t/year
Feinpappenwerk Gebr. Schuster Hebertshausen/Germany	Treatment of wastewater resulting from carton production	
	Already existing trickling filter substituted by aerated BIOFIT® H high-performance stage upstream of an activated sludge plant	70 m³/h
Perlen Papier AG Perlen/Switzerland	Treatment of wastewater resulting from the paper industry	
	Extension of the existing activated sludge plant by a BIOFIT® H aerated high-performance stage	660 m³/h
Stora Enso Maxau GmbH & Co. KG Karlsruhe/Germany	Treatment of wastewater resulting from the paper industry	
	Optimisation of wastewater treatment plant by presedimentation with turbine circulation and extension by BIOFIT® H biological high-performance stage and partial stream cooling	850 m³/h
Paperfabrik Haindl Werk Walsum Walsum/Germany	Treatment of wastewater resulting from the paper industry	
,	Refurbishment of bio-filtration, 5 filter systems à 22 m², BIOFIT® F	1,000 m³/h

1E640 Paper Ind Rev 9 Page: 3 Of: 8 Date: 09/11/2016

Client	Plant Type	Сарас	ity
Buchmann Karton	Treatment of wastewater from carton production		
Annweiler/Germany	·		
	Fluidised bed reactor (two-stage), connecting piping, civil works, additional post-clarification basin (second stage of extension)	500	m³/h
Papierfabrik Palm Aalen/Germany	Boiler feed water treatment		
for	Filter for manganese removal, desalination	14	m³/h
Fab in Eltmann			
Felix Schoeller	Demineralisation		
Weissenborn/Germany	Cation, anion, and mixed bed exchangers	2 x 15	m³/h
	Condensate polishing		
	Cation and mixed bed exchangers	1 x 40	m³/h
Musi Pulp Mill Sumatra/Indonesia	Treatment of raw and wastewater from the pulp industry		
	Kraft pulp (bleached)	500,000	throa
	New raw water treatment plant with FLOCOPLUS® and	500,000	vyea
	filtration		
	New wastewater treatment plant with primary sedimentation, activated sludge process, and sludge thickening		
Ahlstrom-Jagenberg GmbH Neuss/Germany	Treatment of wastewater from the paper industry		
Neuss/Cermany	Single-stage biofiltration (BIOFIT® F)	300	m³/l
Carl Machen Brunnenthal/Germany	Treatment of wastewater from carton production		
	Extension of the existing activated sludge treatment by anaerobic fluidised bed	700	m³/d
SCA Laakirchen AG Laakirchen/Germany	Treatment of wastewater from the paper industry		
Laakiiciieiii Ceimaiiy	Biofiltration with 8 BIOFIT® filters	10,300	m³/ł
Ahlstrom-Kämmerer GmbH Osnabrück/Germany	Treatment of wastewater from the paper industry		
Comaditation Commany	Single-stage biofiltration (BIOFIT® F)	600	m³/l
Papierfabrik Königstein Königstein/Germany	Treatment of wastewater from the paper industry		
gerenn zerman,	Two-stage biofiltration (BIOFIT® F)	125	m³/ŀ
Buchmann GmbH Kartonfabrik	Treatment of wastewater from carton production		
Annweiler/Germany	Biofiltration (BIOFIT® F) downstream of existing activation	420	m³/l
Schoeller & Hoesch Gernsbach/Germany	Treatment of wastewater from the paper industry		
MD Davies C. 111	SIngle-stage biofiltration (BIOFIT® F)	1,500	m³/l
MD Papier GmbH Dachau/Germany	Treatment of surface water to produce process water		
	Cooling tower for wastewater cooling Two-stage biofiltration (BIOFIT® F) with flotation for filter backwash wastewater	900 690	m³/ł m³/ł

1E640 Paper Ind Rev 9 Page: 4 Of: 8 Date: 09/11/2016

Client	Plant Type	Сарас	ity
PWA Stockstadt	Treatment of wastewater from the paper industry		
Stockstadt/Germany	readilent of wastewater from the paper madeity		
	Chemico-physical wastewater treatment (FLOCOPAC® L)		m³/h
	Two-stage biofiltration (BIOFIT® F) Aerobic biological wastewater treatment (pure oxygen		m³/l m³/l
	biology)	010	111 /1
Papierfabrik	Demineralisation		
Scheufelen GmbH Lenningen/Germany	Cation exchanger, CO ₂ trickling degasifier, anion exchanger	2 x 25	m³/ł
	Condensate polishing	100	m³/ł
	Activated carbon filter, cation exchanger, mixed bed exchanger	100	111-71
Drewsen Spezialpapiere GmbH & Co. KG	Treatment of wastewater from the paper industry		
Lachendorf/Germany	Two-stage biofiltration (BIOFIT® F)	280	m³/ŀ
Sari Paper and Board Mill Mazandaran/Iran	Treatment of wastewater from carton production		
wazandaran/iran	Aerobic biological wastewater treatment	850	m³/h
Enso Gutzeit Oy/	Treatment of wastewater from the paper industry		
Sachsenpapier AG	FLOCOPAC® L and filtration (FILTRO G)	800	m³/ł
PWA Stockstadt Stockstadt am Main/Germany	Treatment of wastewater from the pulp industry		
,	Bleached paper pulp (magnesium hydrogen sulphite process)	160,000	t/yea
	Pure oxygen activated sludge plant		
Feinpappenwerk Gebr. Schuster	Treatment of wastewater from carton production		
Herbertshausen/Germany	Biological wastewater treatment (trickling filters activator-NKL)	70	m³/ŀ
Zanders Feinpapiere AG Bergisch Gladbach/Germany	Treatment of wastewater from the paper industry		
zorgicon chadzaciii connany	Biological treatment	1,080	
	Biological wastewater treatment (VKL-activator-NKL)	960	m³/h
Peter Temming AG	Treatment of wastewater from the paper industry		
Glückstadt/Germany	Biological treatment (linters wastewater)	750	m³/l
	Flotation		m³/h
	FLOCOPAC® L honeycomb clarifier for further	1,300	
	clarification Biological treatment (activator, flotation, BIOFIT® F)	200	m³/ŀ
Holtzmann E & Cie. GmbH	Demineralisation		
Fab Maxau Karlsruhe/Germany	Multimedia filter, cation exchanger, CO ₂ trickling degasifier, compound anion exchanger, mixed bed exchanger	2 x 34	m³/h
Papierfabrik Haindl	Treatment of wastewater from the paper industry		
Werk Walsum/Germany	Sedimentation	1,000	m³/h
	Biological filtration BIOFIT® F	800	

1E640 Paper Ind Rev 9 Page: 5 Of: 8 Date: 09/11/2016

Client	Plant Type	Сарас	ity
Papierfabrik Mochenwangen	Treatment of wastewater from the paper industry		
Mochenwangen/Germany		250	- 45 0
	Chemico-physical treatment with sludge dewatering Turbo-circulator/band filter press, trickling filter		m³/h
	FLOCOPAC® L and BIOFIT® F	300	m³/h
Munskj Dekor GmbH	Treatment of wastewater from the paper industry		
Aalen-Unterkochen/Germany	Biological filtration with BIOFIT® F	700	m³/h
Schoeller + Hoesch GmbH	Demineralisation		
Gernsbach/Germany	Servo® CLEANFLOW	3 x 250	m³/h
Julius Glatz GmbH	Treatment of wastewater from the paper industry		
Neidenfels/Germany	Biological filtration with BIOFIT® F	1,000	m³/h
MD Papier GmH	Treatment of wastewater from the paper industry		
Plattling/Germany	Extension of a plant installed in 1981	2 x 270	m³/h
Leykam Mürztaler Papier- und	(installation of a second line of identical design) Treatment of wastewater from the paper industry		
Zellstoff AG Gratkorn-Gratwein/Austria	Sedimentation, biological treatment with pure oxygen 30t/d BSB ₅	3,000	m³/h
Leykam Mürztaler Papier	Treatment of wastewater from the pulp industry		
und Zellstoff AG Gratkorn-Gratwein /Austria		240,000	t/v.c.c.
Gratkom-Gratwein /Austria	Bleached paper pulp (magnesium hydrogen sulphite process)	210,000	ı/year
	Pure oxygen activated sludge plant		
Homburger Papierfabrik W. Geldmacher GmbH	Treatment of wastewater from the paper industry		
Nürnbrecht/Germany	FLOCOMAT® T, sludge press	80	m³/h
Hannover Papier	Treatment of wastewater from the pulp industry		
Alfeld/Germany	Anaerobic contact sludge treatment	1,600	m³/d
Delligser Papierfabrik	Treatment of wastewater from the paper industry		
PVA GmbH und Co. Delligsen/Germany	Biological treatment with trickling filters and biofilters	105	m³/h
MD Papier GmbH	Treatment of wastewater from the paper industry		
Plattling/Germany	Sedimentation (turbo-circulator), biological treatment (AEROFIT D)	270	m³/h
Niederrheinische Papier- und	Treatment of wastewater from the paper industry		
Kartonfabrik GmbH Neuss/Germany	Sedimentation (FLOCOMAT® T), sludge dewatering (PressDeg)	400	m³/h
PWA Werk Miesbach	Treatment of wastewater from the paper industry		
Miesbach/Germany	Biological treatment DP 230	360	m³/h
Gissler und Pass AG	Treatment of wastewater from the paper industry		
Jülich/Germany	Closed water circulation with trickling filters, FLOCOMAT® T	60 / 90	m³/h

1E640 Paper Ind Rev 9 Page: 6 Of: 8 Date: 09/11/2016

Client	Plant Type	Capac	ity
Papierfabrik Miltenberg Miltenberg/Germany	Treatment of wastewater from the paper industry		
	Sedimentation	120	m³/h
Papierfabrik Jass Fulda/Germany	Treatment of wastewater from the paper industry		
	Sedimentation	200	m³/h
Papierfabrik Grünewald Kirchhunden/Germany	Treatment of wastewater from the paper industry		
·	Sedimentation	200	m³/h
Feldmühle AG Hagen/Germany	Treatment of wastewater from the paper industry		
	Sedimentation	1,000	m³/h
	Biological treatment	·	
Norddeutsche Papierwerke GmbH Düsseldorf- Reisholz/Germany	Condensate polishing	100	m³/h
Papier und Zellstoffabrik Teisnach/Germany	Condensate polishing	40	m³/h

1E640 Paper Ind Rev 9 Page: 7 Of: 8 Date: 09/11/2016

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