

Woollard & Henry References – AccuSteam/AccuShower

page 1 of 5

Project	Area/Country	Grade	Installation	Application	Benefits	Start Up
Mitsubishi Paper PM1 AccuSteam	Flensburg - Germany	Fine Paper	Press Section	Moisture Control / Production Increase	1.5% dryness increase 50% Reduction in 2Sigma Overall steam saving	April 2010
Kingdecor Zheijang PM2 AccuSteam	Quzhou - China	Decor Paper	Pre-Calender	Smoothness / Moisture Control	100%+ Smoothness increase	January 2011
Schattdecor AG AccuSteam	Thansau - Germany	Decor Paper	Converting Machine	Moisture Control / Curl Control	Curl eliminated Moisture control	September 2010
Kingdecor Zheijang PM1 AccuSteam	Quzhou - China	Decor Paper	Calender Installation	Smoothness / Moisture Control	100%+ smoothness increase	June 2011
Kingdecor Zheijang PM1 AccuSteam	Quzhou - China	Decor Paper	In front of Calender	Smoothness / Moisture Control	10% smoothness increase	June 2011
Schattdecor AccuSteam	Glucholazy - Poland	Decor Paper	Converting Machine	Moisture Control / Curl Control	Curl eliminated Moisture control	November 2010
Xianhe Special Paper AccuSteam	Henan - China	Decor Paper	Pre-Calender	Smoothness / Moisture Control	100%+ Smoothness increase	April 2011
Afil Paper AccuSteam	Bangladesh		Calender	Smoothness	Not Installed	August 2011
Tullis Russell AccuSteam	Scotland - UK	Writing and Printed Board	Press Section	Moisture Control / Production Increase	7% speed increase 60% Reduction in 2Sigma	October 2011
Interprint AccuSteam	Poland	Decor Paper	Converting Machine	Moisture Control / Curl Control	Curl eliminated Moisture control	April 2012
Schweighofer / AstroCel AccuSteam	Austria	Pulp Dryer	Fourdrinier	Production Increase / Moisture Control	3% dryness increase	June 2012
Schattdecor PML7 AccuSteam	Poland	Decor Paper	Converting Machine	Moisture Control / Curl Control	Curl eliminated Moisture control	February 2013
J.Vilaseca AccuSteam	Spain	Printing & Writing Security Papers.	Couch Roll	Moisture Control / Speed increase	45% reduction in 2Sigma Reduction in Dryer steam pressure	January 2014

Woollard & Henry References – AccuSteam/AccuShower

page 2 of 5

Project	Area/Country	Grade	Installation	Application	Benefits	Start Up
KingDecor Zheijang PM3 AccuSteam	Quzhou - China	Décor Paper	Pre-Calender	Smoothness/Moisture Control	100%+ Smoothness increase	December 2014
Arctic Paper AccuSteam	Germany	Fine Paper	Press Section	Production Increase	8% speed increase	April 2014
**** AccuSteam	****	Décor Paper	Pre-Calender	Smoothness/ Moisture Control	40% smoothness increase 2% moisture increase	July 2014
Ismax (PM1) AccuSteam	Spain	Tissue	Suction Press Roll	Speed Increase	10%+ speed increase	December 2014
ABK (Oumu PM19) AccuSteam	China	Décor Paper	Pre-Calender	Smoothness/ Moisture Control	Smoothness increase	July 2015
Neenah Gessner AccuShower	Germany	Filter paper	Pre-Winder	Moisture Control	2%+ moisture increase	August 2014
Schattdecor PML8 AccuSteam	Poland	Décor Paper	Converting Machine	Moisture Control/ Curl Control	Curl eliminated Moisture control	November 2014
Hangzhou Huawang (PM8) AccuSteam	China	Décor Paper	Pre-Calender	Smoothness/Moisture Control	Smoothness increase	February 2015
Interprint LM3 AccuSteam	Poland	Décor Paper	Converting Machine	Moisture Control/ Curl Control	Curl eliminated Moisture control	March 2015
UPM Schongau AccuSteam	Germany	Magazine/ Book Paper	Calender	Smoothness/Gloss	Smoothness increase	December 2014
Oumu PM20 AccuSteam	China	Décor Paper	Pre-Calender	Smoothness/Moisture Control	Smoothness increase	June 2015
Rotodecor AccuSteam	Germany	Décor Paper	Converting Machine	Moisture Control/Curl Control	Curl eliminated Moisture control	November 2015

Woollard & Henry References – AccuSteam/AccuShower

page 3 of 5

Project	Area/Country	Grade	Installation	Application	Benefits	Start Up
Pere Valls AccuSteam	Spain	Board	Press Section	Production Increase/Moisture Control	7% speed increase 40% reduction in 2Sigma	October 2015
Fomat AccuSteam	Italy	Packaging	Fourdrinier	Production Increase	Production increase	December 2015
**** AccuSteam	Germany	Security Paper	Couch Roll	Moisture Control	Moisture Control	November 2015
SE Sachsen Paper AccuShower	Germany	LWC	Pre-Calender	Moisture control/re-wetting	Moisture control/re-wetting	January 2016
Neenah Appleton AccuShower	USA	Specialty Paper	Pre-Winder	Moisture Control	2%+ moisture increase	December 2016
Celulosas del Gallur AccuSteam	Spain	Board	Press Section	Production Increase/Moisture Control	6%+ speed increase 2Sigma reduction	December 2016
Hengfeng Paper AccuSteam	China	Tipping Paper	1 st Calender	Smoothness Increase	Min 40% reduction in 2Sigma	March 2017
Henfeng Paper AccuSteam	China	Tipping Paper	2 nd Calender	Smoothness Increase	Min 40% reduction in 2Sigma	March 2017
Felix Schoeller AccuSteam	Germany	Décor Paper	Calender	Smoothness/Moisture Control	Min 40% reduction in 2Sigma and moisture control	September 2017
Favini AccuSteam	Italy	Specialty Paper	Press	Production Increase/Moisture Control	3%+ production increase and 30%+ smoothness increase	August 2017
Wattens AccuSteam	Vietnam	Specialty Paper	Embossing	De-Curl	Curl eliminated	January 2018
Bellmer GapCon AccuShower	Mexico	Board	Post Dryers	Moisture Control	Improved moisture control	December 2018
AM Chirnside AccuShower	UK	Specialty Papers	Before Reel-up	Moisture Increase and Control	3%+ moisture increase + improved moisture control	June 2018

Woollard & Henry References – AccuSteam/AccuShower

page 4 of 5

Project	Area/Country	Grade	Installation	Application	Benefits	Start Up
SE Sachsen AccuShower	Germany	LWC	Dryer Section	Moisture control	Moisture control	September 2018
Abelan long term Trial AccuSteam	Spain	Paperboard	Press	Production increase	4% speed increase	November 2018
Fourstones Sapphire Mill AccuSteam	UK	Tissue	Pre-Yankee	Production Increase/Moisture Control	50%+ reduction in 2Sigma / 7%+ speed increase	May 2019
Fourstones Hexham AccuSteam	UK	Tissue	Pre-Yankee	Moisture Control/Re-Moisturizing	50%+ reduction in 2Sigma / > 1.5% Re-Moisturizing	April 2019
Hangzhou Huawang PM9 AccuSteam	China	Décor Paper	Pre-Calender	VIB replacement	Moisture control/re-wetting	July 2019
Koehler Paper AccuSteam	Germany	Thermo Paper	Pre-Calender	Smoothness/moisture control	Moisture control/re-wetting	May 2020
Favini Crusinallo AccuSteam	Italy	Embossing M/c	Winder	De-curl + Smoothness	Improved Smoothness	October 2020
AM Chirnside AccuSteam	UK	Specialty Papers	Pre-Calender	VIB repair / replacement	Improved smoothness	April 2021
Kroenert AccuSteam	Germany	Décor Paper	Converting Machine	Coating Machine	Curl eliminated Moisture control	June 2021
Favini Crusinallo AccuSteam	Italy	Embossing M/c	Winder	De-curl + Smoothness	Improved quality	June 2021
Wattens AccuSteam	Vietnam	Specialty Papers	Embossing M/c	De-curl + Smoothness	Improved quality	July/Aug 2021
Neenah Feldkirchen AccuShower	Germany	Filter paper	Pre-Winder	Moisture Control		November 2021
Weifeng HiCredit AccuSteam	China/Scotland	Tissue	Pre-Yankee	Production Increase/Moisture Control		April/May 2024 project delay

Woollard & Henry References – AccuSteam/AccuShower

page 5 of 5

Project	Area/Country	Grade	Installation	Application	Benefits	Start Up
Bellmer Gapcon Imatra AccuShower	Germany/Finland	Board	Pre-Calender	Moisture Control	Improved quality	October 2022
DMS Industry AccuSteam	France	Glass Fibre	Above Trivac	Dryness Increase	Dryness Increased	June 2022
Bellmer Gapcon Iggesund AccuShower	Germany/Sweden	Board	Calender	Moisture Control	4-5 g/m2 moisture increase	November 2023
Bellmer Gapcon Iggesund AccuShower	Germany/Sweden	Board	Pre-Calender	Curl Control	10g/m2 water application, curlcontrol	November 2023
AM Dettingen - Trial AccuSteam	Germany	Specialty Papers	Pre Calender	Moisture increase + control	Moisture increase + control Good results, installation 2024	
Toniolo Iberica AccuSteam	Spain	Converting, Coating and Lamination	Coater	Moisture increase + control	Moisture increase + control	Aug 2023
Leipa AccuSteam	Germany	Board & Special Paper	Before 1 st press	Dryness Increase	3% dryness increase on 850 g/m2	Sep 2023
A. Celli AccuSteam	Italy/Finland	Fluting	Press	Dryness Increase	.*	Planned November 2023
Weifeng Hicredit AccuSteam	China	Pulp Board	Above Suction Boxes	Dryness Increase	.*	Del. 2023 Early 2024
James Cropper Trial AccuSteam	UK	W&P, Board	Press	Dryness Increase + Profile Imp.	Dryness increased + Profile Imp. 2sigma down by 80%	Aug 2023
A Chirnside AccuShower	UK	Specialty Papers	Pre-Calender	Moisture Increase + Profile Imp.	Moisture increased + Profile Imp. 2sigma down by 50%	Jan 2024