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COMPLETE TECH

HOLMEN

A BEAUTIFUL BY-PRODUCT

Did you know, that paper is actually a by-product? Through sustainable forestry, we grow houses, and then we use the residue to produce climate-smart paper and paperboard for publications like the one you hold in your hand.

Everything we do starts in the forest. The growing trees, the water rushing in the rivers and the wind blowing through the treetops. This is the heart of Holmen, a business built around the forest ecocycle and the renewable products we can create from it.

When we harvest a tree, we use all of it. The tree trunk is used for climate-smart wood products, and the thinnest logs and residual wood chips from the sawmill are turned into innovative paper products and world-leading paperboard. Branches, bark and sawdust become bioenergy. Nothing goes to waste.

Welcome to Holmen Paper

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Product	Whiteness % CIE(W)	Bulk cm ³ /g	Opacity %	Finish	Grammage g/m ²												
					34	36	37	38	39	40	43	45	47				
Holmen EPIC	100	1.4-1.5	90-95	Semi Matt													
	Brightness % D65/10°																
Holmen TRND	80	1.6	97	Matt													
Holmen TRND	80	2.0	95-98	Matt													
Holmen VIEW	80	1.1	89-94	Silk													●
Holmen VIEW Matt	80	1.4	91-94	Silk Matt													●
	Brightness ISO %																
Holmen UNIQ	65-70	1.1	88-90	Gloss			○		●			●					●
Holmen UNIQ Extra	70	1.1	91	Extra Gloss								○					●
Holmen XLNT Classic	65-68	1.3-1.4	90-92	Semi Matt					○		○			●			
Holmen XLNT Light	60	1.4	89-92	Semi Matt	○	○					●	●					
Holmen PLUS	65-75	1.6	89-95	Semi Matt												○	
					34	36	37	38	39	40	43	45	47				
Holmen BOOK	74	1.6	94	Matt													
Holmen BOOK	74	1.8	94-95	Matt													
Holmen BOOK	74	2.0	95-97	Matt													
Holmen BOOK Cream	73.5	1.6	89-95	Matt													
Holmen BOOK Cream	73.5	1.8	91-95	Matt													
Holmen BOOK Cream	73.5	2.0	89-96	Matt													
Holmen BOOK Cream	73.5	2.2	92	Matt													
Holmen BOOK Bulky	58	2.3	93	Matt													
	Brightness % D65/10°																
Holmen BOOK Extra	80	2.0	95-97	Matt													
Holmen BOOK Extra Cream	80	2.0	93-95	Matt													
Holmen BOOK Extra White	80	1.6	97-98	Matt													
	Whiteness % CIE(W)																
Holmen BOOK Fine	100	1.4-1.5	90-94	Semi Matt													
	Brightness % D65/10°																
Holmen BOOK Fine Cream	80	1.5	88-94	Semi Matt													

All products are certified according to FSC® C020071 / PEFC™ /05-33-134, EU Ecolabel and Reach

Product	Whiteness % CIE(W)	Bulk cm ³ /g	Opacity %	Finish	Grammage g/m ²												End use							Printing methods													
					34	36	37	38	39	40	43	45	47	49	50	52	53	55	57	60	65	70	80	90	Newspaper	Inserts	Catalogues	Magazine	Direct Mail	Brochures	Books	Heatset	Coldset	Gravure	Digital Inkjet	Sheets	
Holmen EPIC	100	1.4-1.5	90-95	Semi Matt																																	
	Brightness % D65/10°																																				
Holmen TRND	80	1.6	97	Matt																																	
Holmen TRND	80	2.0	95-98	Matt																																	
Holmen VIEW	80	1.1	89-94	Silk																																	
Holmen VIEW Matt	80	1.4	91-94	Silk Matt																																	
	Brightness ISO %																																				
Holmen UNIQ	65-70	1.1	88-90	Gloss																																	
Holmen UNIQ Extra	70	1.1	91	Extra Gloss																																	
Holmen XLNT Classic	65-68	1.3-1.4	90-92	Semi Matt																																	
Holmen XLNT Light	60	1.4	89-92	Semi Matt																																	
Holmen PLUS	65-75	1.6	89-95	Semi Matt																																	
					34	36	37	38	39	40	43	45	47	49	50	52	53	55	57	60	65	70	80	90	Newspaper	Inserts	Catalogues	Magazine	Direct Mail	Brochures	Books	Heatset	Coldset	Gravure	Digital Inkjet	Sheets	
Holmen BOOK	74	1.6	94	Matt																																	
Holmen BOOK	74	1.8	94-95	Matt																																	
Holmen BOOK	74	2.0	95-97	Matt																																	
Holmen BOOK Cream	73.5	1.6	89-95	Matt																																	
Holmen BOOK Cream	73.5	1.8	91-95	Matt																																	
Holmen BOOK Cream	73.5	2.0	89-96	Matt																																	
Holmen BOOK Cream	73.5	2.2	92	Matt																																	
Holmen BOOK Bulky	58	2.3	93	Matt																																	
	Brightness % D65/10°																																				
Holmen BOOK Extra	80	2.0	95-97	Matt																																	
Holmen BOOK Extra Cream	80	2.0	93-95	Matt																																	
Holmen BOOK Extra White	80	1.6	97-98	Matt																																	
	Whiteness % CIE(W)																																				
Holmen BOOK Fine	100	1.4-1.5	90-94	Semi Matt																																	
	Brightness % D65/10°																																				
Holmen BOOK Fine Cream	80	1.5	88-94	Semi Matt																																	

- ● ● Standard grammage
- Available depending on trim
- Contact your sales representative for availability

EPIC

Holmen EPIC is a wood-containing paper that is truly capable of replacing wood-free alternatives. Excellent whiteness, high opacity and great image reproduction makes it perfect for magazines and direct mail.

Target value	Grammage g/m ²	Whiteness % CIE (W)	Brightness % D65/10°	Bulk cm ³ /g ±0.05	Opacity %
Holmen EPIC	52	100	85	1.5	90
	55	100	85	1.5	91
	60	100	85	1.5	93
	*65	100	85	1.4	94
	*70	100	85	1.4	95

Printing methods: Heatset, Coldset and Digital Inkjet

* Available depending on trim

Environment
ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Printing recommendations HEATSET

Print order	KCMY
Ink	MF or SC ink
Characteristic data	FOGRA 47, FOGRA 41
ICC-profile	PSO_Uncoated_ISO12647_eci.icc PSO_MFC_Paper_eci.icc
Screen ruling	133–150 lpi
Max tone value	260%

Printing recommendations COLDSET

Print order	CMYK
Ink	Coldset
Characteristic data	FOGRA 47, FOGRA 41
ICC-profile	PSO_Uncoated_ISO12647_eci.icc PSO_MFC_Paper_eci.icc
Screen ruling	133–150 lpi
Max tone value	260%

Printing recommendations DIGITAL INKJET

Characteristic data	FOGRA 39
ICC-profile	ISO_coated_v2_eci.icc
Screen ruling	150 lpi
Max tone value	270%

Recommended paper type and dot gain curve in line with ISO 12647-2 2013

Paper type	7
Dot gain curve	C

L* a* b* guideline values

ISO 13655 D50 2° M1

Measuring instrument

Techkon SpectroDens LED Premium

L*a*b* target values D50	L*	a*	b*	Fluorescence
Paper type 7 white background	89 +/-3	0+/-2	3+/-2	
Holmen EPIC	90.5	2.6	-6	Medium

TRND

Holmen TRND is the perfect paper if you dare to challenge conventions and have creative ambitions for your magazine. The rough surface gives it a both serious and bold feel. It makes your magazine stand out from the glossy magazines in the newsstands.

Target value	Grammage g/m ²	Brightness % D65/10°	Bulk cm ³ /g ±0.05	Opacity %
Holmen TRND	70	80	1.6	97
	55	80	2.0	95
	60	80	2.0	96
	70	80	2.0	97
	80	80	2.0	98

Printing methods: Heatset, Coldset, Digital Inkjet and Waterless

Environment
ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Printing recommendations HEATSET

Print order	KCMY
Ink	MF or SC ink
Characteristic data	FOGRA 47, FOGRA 41
ICC-profile	PSO_Uncoated_ISO12647_eci.icc PSO_MFC_Paper_eci.icc
Screen ruling	133–150 lpi
Max tone value	260%

Printing recommendations COLDSET

Print order	CMYK
Ink	Coldset
Characteristic data	FOGRA 47
ICC-profile	PSO_Uncoated_ISO12647_eci.icc
Screen ruling	133–150 lpi
Max tone value	260%

Printing recommendations DIGITAL INKJET

Characteristic data	FOGRA 39
ICC-profile	ISO_coated_v2_eci.icc
Screen ruling	150 lpi
Max tone value	270%

Recommended paper type and dot gain curve in line with ISO 12647-2 2013

Paper type	7
Dot gain curve	C

L* a* b* guideline values

ISO 13655 D50 2° M1

Measuring instrument

Techkon SpectroDens LED Premium

L*a*b* target values D50	L*	a*	b*	Fluorescence
Paper type 7 white background	89 +/-3	0 +/-2	3 +/-2	
Holmen TRND 1.6 and 2.0	89	2.4	-3.8	Low

VIEW

Elegance, charm and intelligence captured and embodied in a single product. The softness of the paper, the readability and the silky surface gives printed matter a boost with vibrant colours and a pleasant feeling.

Technical data for VIEW Matt are on the next spread.

Target value	Grammage g/m ²	Brightness % D65/10°	Bulk cm ³ /g ±0.05	Opacity %	Gloss 75°
Holmen VIEW	47	80	1.1	89	35
	50	80	1.1	90	35
	53	80	1.1	91	35
	57	80	1.1	92	35
	60	80	1.1	92	35
	*65	80	1.1	93	35
	*70	80	1.1	94	35

Printing methods: Heatset and Gravure

* Available depending on trim

Environment

ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Printing recommendations VIEW – HEATSET

Print order	KCMY
Ink	MF or SC ink
Characteristic data	FOGRA 41
ICC-profile	PSO-MFC-Paper-eci.icc
Screen ruling	133-150 lpi
Max tone value	260-280%

Printing recommendations VIEW – GRAVURE

Ink	Standard ink
Varnish	Standard
ICC-profile	PSR_SC_Plus_V2_PT.icc PSRgravureMF.icc
Screen ruling	172 lpi
Max tone value	280-340%

Recommended paper type and dot gain curve in line with ISO 12647-2 2013

Paper type	6
Dot gain curve	C

L* a* b* guideline values

ISO 13655 D50 2° M1

Measuring instrument

Techkon SpectroDens LED Premium

L*a*b* target values D50	L*	a*	b*	Fluorescence
Paper type 7 white background	89 +/-3	0 +/-2	3 +/-2	
Holmen VIEW	88.3	2.4	-4.7	Low

VIEW MATT

Elegance, charm and intelligence captured and embodied in a single product. The softness of the paper, the readability and the silky matt surface gives printed matter a luxurious feel that evokes emotion and commitment.

Technical data for VIEW are on the previous spread.

Target value	Grammage g/m ²	Brightness % D65/10°	Bulk cm ³ /g ±0.05	Opacity %	Gloss 75°
Holmen VIEW Matt	47	80	1.4	91	15
	50	80	1.4	92	15
	53	80	1.4	93	15
	57	80	1.4	94	15
	60	80	1.4	94	15

Printing methods: Heatsset, Coldset and Digital Inkjet

Environment
ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Printing recommendations VIEW MATT – HEATSET

Print order	KCMY
Ink	MF or SC ink
Characteristic data	FOGRA 47, FOGRA 41
ICC-profile	PSO_Uncoated_ISO12647_eci.icc PSO_MFC_Paper_eci.icc
Screen ruling	133–150 lpi
Max tone value	260%

Printing recommendations VIEW MATT – COLDSET

Print order	CMYK
Ink	Coldset
Characteristic data	FOGRA 47, FOGRA 41
ICC-profile	PSO_Uncoated_ISO12647_eci.icc PSO_MFC_Paper_eci.icc
Screen ruling	133–150 lpi
Max tone value	260%

Printing recommendations VIEW MATT – DIGITAL INKJET

Characteristic data	FOGRA 39
ICC-profile	ISO_coated_v2_eci.icc
Screen ruling	150 lpi
Max tone value	270%

Recommended paper type and dot gain curve in line with ISO 12647-2 2013

Paper type	7
Dot gain curve	C

L* a* b* guideline values

ISO 13655 D50 2° M1

Measuring instrument

Techkon SpectroDens LED Premium

L*a*b* target values D50	L*	a*	b*	Fluorescence
Paper type 7 white background	89 +/-3	0+/-2	3+/-2	
Holmen VIEW Matt	88.3	2.4	-4.7	Low

UNIQ

Holmen UNIQ is a super-calendered paper, bright and smooth, with an opacity that is unmatched in low grammages. A light-weight, climate-smart paper choice from sustainably managed Swedish forests.

Target value	Grammage g/m ²	Brightness % ISO	Bulk cm ³ /g ±0.05	Opacity %	Gloss 75°
Holmen UNIQ	*37	65	1.1	88	38
	39	69	1.1	89	38
	43	70	1.1	91	38
	47	70	1.1	89	38
	50	70	1.1	90	38
Holmen UNIQ Extra	47	70	1.1	91	45
	43	70	1.1	89	45

Printing methods: Heatset and Gravure

* Available depending on trim

Environment
ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Printing recommendations HEATSET

Print order	KCMY
Ink	MF or SC ink
Characteristic data	FOGRA 40
ICC-profile	SC_paper_eci.icc
Screen ruling	133-150 lpi
Max tone value	260-280%

Printing recommendations GRAVURE

Ink	Standard ink
Varnish	Standard
ICC-profile	PSR_SC_Plus_v2_PT.icc
Screen ruling	172 lpi
Max tone value	280-340%

Recommended paper type and dot gain curve in line with ISO 12647-2 2013

Paper type	6
Dot gain curve	C

L* a* b* guideline values

ISO 13655 D50 2° M1

Measuring instrument

Techkon SpectroDens LED Premium

L*a*b* target values D50

	L*	a*	b*	Fluorescence
Paper type 7 white background	89 +/-3	0 +/-2	3 +/-2	
Holmen UNIQ 39 gsm	87	0.9	2.8	None
Holmen UNIQ 43-50 gsm	88	0.6	2.8	None

XLNT

Holmen XLNT really lives up to its name: an excellent choice for direct marketing. A highly competitive alternative to traditional SC-B-papers that helps you keep down the cost for production and distribution.

Target value	Grammage g/m ²	Brightness % ISO	Bulk cm ³ /g ±0.05	Opacity %	Gloss 75°
Holmen XLNT Light	*34	60	1.4	89	22
	40	60	1.4	92	22
	43	60	1.4	92	22
Holmen XLNT Classic	*38	65	1.4	90	22
	*40	65	1.4	90	22
	45	68	1.3	89	22
	49	68	1.3	90	22
	52	68	1.3	92	22

Printing methods: Heatset and Gravure

* Available depending on trim

Environment
ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Printing recommendations HEATSET

Print order	KCMY
Ink	MF or SC ink
Characteristic data	FOGRA 48
ICC-profile	PSO_INP_Paper_eci.icc
Screen ruling	133-150 lpi
Max tone value	260-280%

Printing recommendations GRAVURE

Ink	Standard ink
Varnish	Anti-Penetration
ICC-profile	PSRgravureMF.icc
Screen ruling	160 lpi
Max tone value	280-340%

Recommended paper type and dot gain curve in line with ISO 12647-2 2013

Paper type	7
Dot gain curve	C

L* a* b* guideline values

ISO 13655 D50 2° M1

Measuring instrument

Techkon SpectroDens LED Premium

L*a*b* target values D50

	L*	a*	b*	Fluorescence
Paper type 7 white background	89 +/-3	0+/-2	3+/-2	
Holmen XLNT Classic 38 gsm	85	0.7	3.5	None
Holmen XLNT Classic 45-52 gsm	87	0.8	3.1	None

PLUS

Thanks to the matte surface of Holmen PLUS you can print direct mail, supplements and magazines with a genuine sense of quality.

Target value	Grammage g/m ²	Brightness % ISO	Bulk cm ³ /g ±0.05	Opacity %
Holmen PLUS	*45	65	1.6	91
	*49	65	1.6	92
	*45	68	1.6	91
	*49	68	1.6	92
	*52	68	1.6	93
	*45	72	1.6	89
	49	72	1.6	91
	52	72	1.6	92
	55	72	1.6	93
	60	72	1.6	95
	*49	75	1.6	90
	52	75	1.6	91
	55	75	1.6	93
	60	75	1.6	95

Printing methods: Heatset, Coldset and Digital Inkjet ≥ 52 g/m²

* Available depending on trim

Environment
ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Printing recommendations PLUS – HEATSET

Print order	KCMY
Ink	MF or SC ink
Characteristic data	FOGRA 47
ICC-profile	PSO_Uncoated_ISO12647_eci.icc
Screen ruling	133–150 lpi
Max tone value	260%

Printing recommendations PLUS – COLDSET

Print order	CMYK
Ink	Coldset
Characteristic data	FOGRA 47
ICC-profile	WAN-IFRANewspaper26v5.icc
Screen ruling	100–133 lpi
Max tone value	220–260%

Printing recommendations PLUS – DIGITAL INKJET

Characteristic data	FOGRA 39
ICC-profile	ISO_coated_v2_eci.icc
Screen ruling	150 lpi
Max tone value	270%

Recommended paper type and dot gain curve in line with ISO 12647-2 2013

Paper type	7
Dot gain curve	C

L* a* b* guideline values

ISO 13655 D50 2° M1

Measuring instrument

Techkon SpectroDens LED Premium

L*a*b* target values D50	L*	a*	b*	Fluorescence
Paper type 7 white background	89 +/-3	0+/-2	3+/-2	
Holmen PLUS 75	87	-0.3	3.6	None
Holmen PLUS 68	87	-0.4	2.7	None
Holmen PLUS 72	88	1.1	1.6	None
Holmen PLUS 75	89	1.1	1.1	None

BOOK

Holmen BOOK is a high quality book paper with great readability, developed exclusively for books and comics to make reading as easy and pleasurable as possible.

Target value	Grammage g/m ²	Whiteness % CIE(W)	Bulk cm ³ /g ±0.05	Opacity %	*Caliper µm to calculate the book-spine
Holmen BOOK Fine	52	100	1.5	90	73
	55	100	1.5	91	77
	60	100	1.5	93	85
	**65	100	1.4	94	88
	**70	100	1.4	95	95
		Brightness % D65/10°			
Holmen BOOK Fine Cream	**52	80	1.5	88	73
	**55	80	1.5	89	77
	**60	80	1.5	91	84
	**65	80	1.4	92	88

Printing methods: Heatset, Coldset and Digital Inkjet

* 10-Sheet measurement

** Available depending on trim

Environment

ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

Target value	Grammage g/m ²	Brightness % D65/10°	Bulk cm ³ /g ±0.05	Opacity %	*Caliper µm to calculate the book-spine
Holmen BOOK Extra	65	80	2.0	95	125
	80	80	2.0	96	154
	** 90	80	2.0	97	174
Holmen BOOK Extra Cream	**70	80	2.0	93	136
	**80	80	2.0	95	154
Holmen BOOK Extra White	70	80	1.6	97	108
	**80	80	1.6	98	123
		Brightness % ISO			
Holmen BOOK	49	74	1.6	94	76
	52	74	1.6	94	81
	52	74	1.8	94	90
	55	74	1.8	95	96
	55	74	2.0	95	106
	60	74	2.0	96	116
	70	74	2.0	97	136
Holmen BOOK Cream	52	73.5	1.6	89	81
	60	73.5	1.6	91	92
	70	73.5	1.6	93	108
	80	73.5	1.6	95	123
	60	73.5	1.8	91	104
	70	73.5	1.8	93	122
	80	73.5	1.8	95	140
	**49	73.5	2.0	89	95
	52	73.5	2.0	90	101
	55	73.5	2.0	91	107
	60	73.5	2.0	92	116
	70	73.5	2.0	93	136
	80	73.5	2.0	95	154
**90	73.5	2.0	96	174	
	65	73.5	2.2	92	138
Holmen BOOK Bulky	50	58	2.3	93	109
	52	58	2.3	93	114

GIFT

Holmen GIFT is a wrapping paper that comes with financial benefits and a great eco-profile. Holmen GIFT comes in different variations, so you can find the perfect product for your needs.

Target value	Grammage g/m ²	Brightness % ISO	Bulk cm ³ /g ±0.05	Opacity %	Burst strength kPa
Holmen GIFT Lite	47	70	1.1	92	70
	50	70	1.1	93	75
Holmen GIFT Vintage	70	74	2.0	93	110
		Brightness % D65/10°			
Holmen GIFT Silk	53	80	1.1	91	85
	57	80	1.1	92	90
	60	80	1.1	92	90
	*70	80	1.1	94	110
Holmen GIFT Matt	70	80	1.6	97	110
Holmen GIFT Rustic**	70	80	2.0	97	110

Printing methods: Gravure and Flexo

Core size: 76 mm. Diameter: 1.000, 1.250 mm

* Available depending on trim

** Flexo only

Suitable for Metallising

Environment

ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel and Reach

NOTE

Holmen NOTE is a paper perfect for notebooks. Within the Holmen NOTE family, you will find every possibility to attract and satisfy your customers.

Target value	Grammage g/m ²	Whiteness % CIE	Bulk cm ³ /g ±0.05	Opacity %	Caliper µm ±3	Roughness ml/min±30 Bendtsen
Holmen NOTE Cream	70		1.6	93	112	120
	70		2.0	93	140	320
Holmen NOTE Smart	55	100	1.5	91	80	90
	60	100	1.5	93	87	90
	*70	100	1.4	95	95	90
Holmen NOTE Smooth	60	86	1.4	94	84	60
Holmen NOTE Basic	55	60	1.6	93	88	80
	60	60	1.6	95	96	120

Printing methods: Heatset, Coldset, Digital inkjet and Flexo

* Available depending on trim

Environment

ISO 14001, FSC® C020071, PEFC™ /05-33-134, EU Ecolabel, Reach

CALCULATE CLAMPING FORCE

For paper reels from Holmen Paper, the recommended total clamping force in kN is calculated using a dynamic clamping factor of 1.2–1.5 kN. Calculate the clamping force as follows:

$$F_c = kd \times W \times g / 1\,000.$$

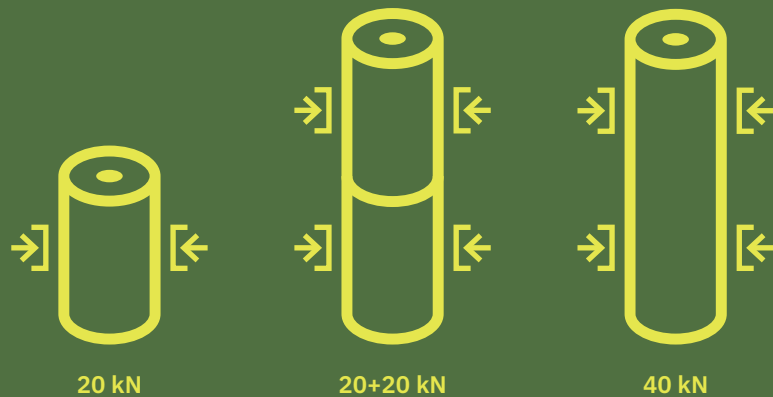
F_c = Clamping force in kN

kd = Dynamic clamping factor

W = Reel's weight in kg

g = Standard acceleration due to gravity, approx. 10 m/s²

Follow the clamping force recommendations printed on the paper reel.



Highest recommended clamping force

The table states the recommended clamping force for the total weight to be lifted.

Handling weight, kg	kN/reel, total
< 800	10
801–1 500	20
1 501–2 000	30
2 001–2 800	40
2 801–3 700	50
> 3 700	60

The dynamic clamping factor is affected by:

- Paper grade
- Reel's weight and dimensions
- Friction between contact pads and wrapping, Holmen recommends rubberised pads
- Wrapping and reel density
- Condition of contact pads, replace at regular intervals

Remember not to place the contact pads near the edge of the reel.



