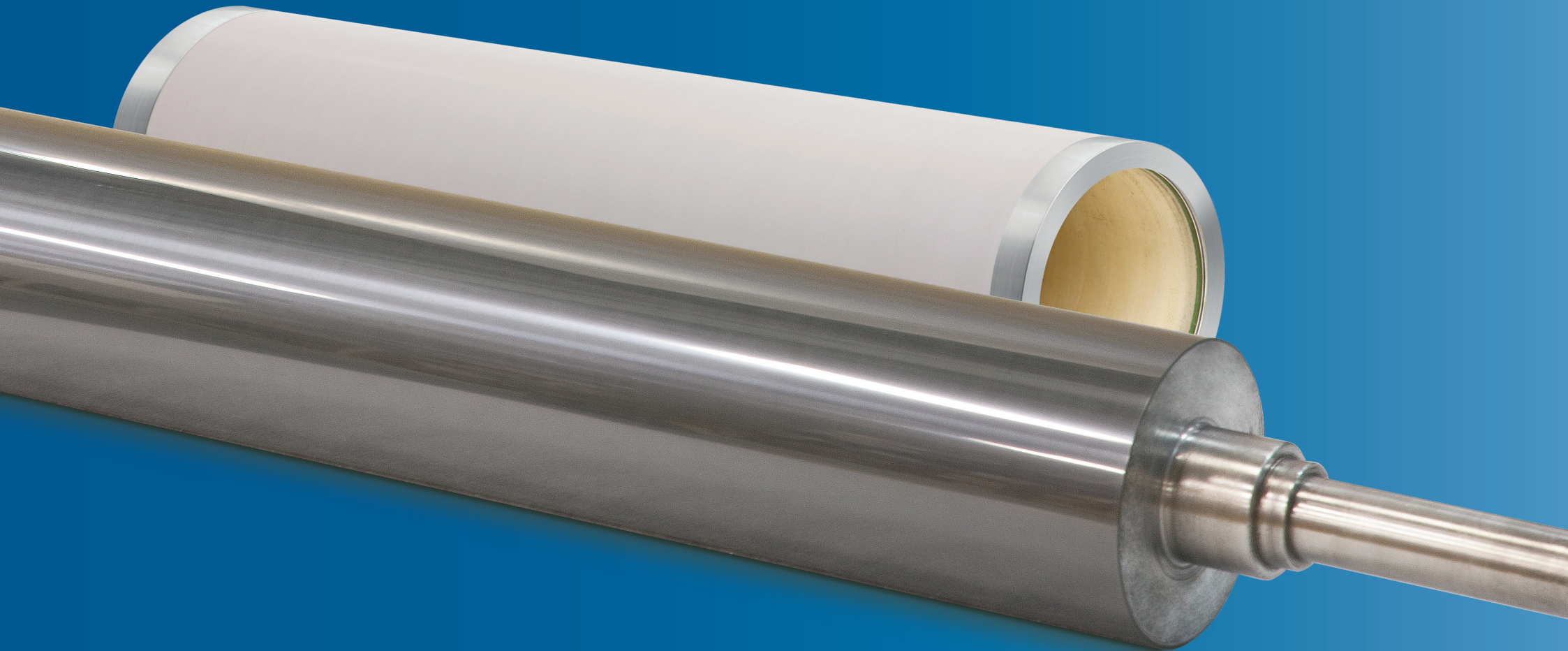


Making our world more productive



Selection Guide

Laser Engraving Anilox Rolls and Sleeves



Anilox Volume & Screen Guide

Metric

L/cm - cm³/m²		20	40	50	60	80	100	120	140	160	180	200	220	240	260	280	320	360	380	400	420	440	460	480	500	520	540	580	600
NOVALINE™	MAX	120.0	60.0	48.0	40.0	32.5	26.0	21.5	18.5	16.5	14.5	13.0	12.0	11.0	10.0	9.5	8.0	7.0	6.5	6.5	6.5	6.5	6.0	6.0	5.5	5.5	5.0	5.0	4.5
PROLINE™	MAX	100.0	50.0	40.0	33.5	25.0	20.0	16.5	14.5	12.5	11.0	10.0	9.0	8.5	7.5	7.0	6.0	5.0	4.5	4.5	4.0	4.0	4.0	3.5	3.5	3.5	3.5	3.0	3.0
	Best Performance Ratio	61.0	30.5	24.5	20.5	15.5	12.0	10.0	8.5	7.5	7.0	6.0	5.5	5.0	4.5	4.5	4.0	3.5	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.0	2.0
		42.5	21.5	17.0	14.0	10.5	8.5	7.0	6.0	5.5	4.5	4.5	4.0	3.5	3.5	3.0	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
	MIN.	22.5	11.5	9.0	7.5	5.5	4.5	4.0	3.0	3.0	2.5	2.5	2.0	2.0	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Imperial

Lpi - BCM		50	100	130	150	200	250	300	360	400	460	510	560	610	660	710	810	910	965	1016	1070	1120	1170	1220	1270	1320	1370	1470	1520
NOVALINE™	MAX	77.4	38.7	31.0	25.8	21.0	16.8	13.9	11.9	10.6	9.4	8.4	7.7	7.1	6.5	6.1	5.2	4.5	4.2	4.2	4.2	4.2	3.9	3.9	3.5	3.5	3.2	3.2	2.9
PROLINE™	MAX	64.52	32.26	25.81	21.61	16.13	12.90	10.65	9.35	8.06	7.10	6.45	5.81	5.48	4.84	4.52	3.87	3.23	2.90	2.90	2.58	2.58	2.58	2.26	2.26	2.26	2.26	1.94	1.94
	Best Performance Ratio	39.35	19.68	15.81	13.23	10.00	7.74	6.45	5.48	4.84	4.52	3.87	3.55	3.23	2.90	2.90	2.58	2.26	1.94	1.94	1.94	1.94	1.61	1.61	1.61	1.61	1.61	1.29	1.29
		27.42	13.87	10.97	9.03	6.77	5.48	4.52	3.87	3.55	2.90	2.90	2.58	2.26	2.26	1.94	1.61	1.61	1.29	1.29	1.29	1.29	1.29	1.29	0.97	0.97	0.97	0.97	0.97
	MIN.	14.52	7.42	5.81	4.84	3.55	2.90	2.58	1.94	1.94	1.61	1.61	1.29	1.29	0.97	0.97	0.97	0.97	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65

Correct Handling

- Avoid resting Anilox rolls/sleeves on their surface to prevent harm to the engraved surface
- Load sleeves straight in a horizontal line without applying force
- Always support the roll/sleeve from the journals
- Cover the Anilox roll body with a roll wrap, foam covering, or fluted cardboard to protect the engraved surface
- Always support the roll/sleeve from the journals to prevent chipped ceramic on the dead band areas of the roll

Plate to Anilox Screen | Calculator

Plate Screen		Anilox Screen for 1% dot		Anilox Screen for 2% dot		Anilox Screen for 3% dot		Anilox Screen for 4% dot		Anilox Screen for 5% dot	
Lpi	Lpcm	Lpi	Lpcm	Lpi	Lpcm	Lpi	Lpcm	Lpi	Lpcm	Lpi	Lpcm
45	18	350	140	280	110	230	90	180	70	120	50
50	20	400	160	290	115	250	100	190	75	140	55
55	22	450	175	330	130	270	105	200	80	150	60
65	26	530	210	380	150	300	120	250	100	180	70
70	28	570	225	400	160	330	130	260	105	185	75
85	34	700	275	500	195	400	160	330	130	230	90
100	38	760	300	570	225	450	180	380	150	270	105
110	42	840	330	650	255	500	200	400	160	290	115
120	48	915	360	700	275	560	220	450	180	320	125
133	50	1020	400	740	290	580	230	480	190	340	135
140	54	1070	420	760	300	640	250	500	200	350	140
150	60	1200	470	840	330	670	265	530	210	400	160
175	70	1370	540	990	390	790	310	610	240	450	175
200	80	1550	610	1120	440	920	360	710	280	510	200

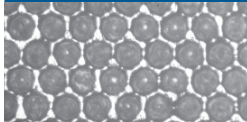
- Safely store rollers in a crate or rack and keep them covered with protective covers, foam, or fluted cardboard to avoid damage and dust
- Do not use a protective cover on a wet Anilox Roller

- Handle sleeves carefully to avoid sudden impacts or high local pressure that can cause problems with TIR or fitting
- Avoid using chlorine, ammonia, or 100% acidic cleaning liquids as they can attack the ceramic layer and cause corrosion

Print with Confidence | Engraving Solutions

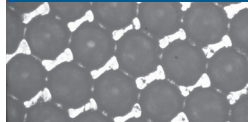
PROLINE™

60°-45°-30°



These are the most used patterns today. They effectively transfer ink onto the plate, creating consistent structures. The cell angle does not interfere with the plate angle.

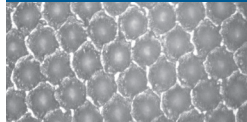
SLR



The SLR engraving process is highly durable. It is a standard 60° engraving technology that does not need any transfer tests or adjustments to the printing machine settings. Switching to SLR is easy and quick.



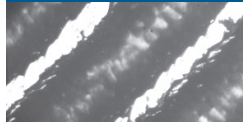
ISF



The ISF engraving technique, which stands for Ink Spitting-Free, helps prevent ink spitting. This is achieved by using channel engraving, which allows the ink to flow smoothly within the engraved channel across the anilox surface. This technique reduces ink build-up on the blade and minimizes hydraulic pressure.



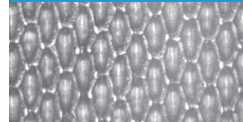
HELICAL



The open structure of HELICAL engraving provides an improved release for gravure and coater applications, making it more efficient for high-viscosity materials and high-volume operations.

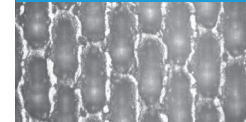
NOVALINE™

UVGOLD



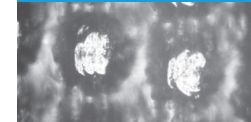
When it comes to using highly viscous (UV) inks, the UVGOLD engraving is an excellent choice due to its low ratio between volume and cell depth. Plus, it's effortless to clean. This engraving can increase the maximum achievable volume for a given screen count by 20% to 30%.

NOVASILVER



NOVASILVER can increase print density by 10% without requiring any specification changes. The rolls remain efficient and perform optimally, even on highly absorbent substrates. The structured engraving retains its quality with use and enhances ink release when using water-based inks.

ARTGOLD



ARTGOLD imprints are created using the Anilox Reverse Technology (ART), which raises "pins" between the cells. While initially developed for flexographic printing, it has become a widely used standard for offset coating and applying water-based and UV adhesives and coatings. This technology is particularly ideal for high-opacity white ink.

TIFG



TIFG engraving is ideal for achieving excellent ink density in high-viscosity materials. The helical grooves create a pattern that facilitates the movement of the doctor's blade. The continuous channels in the engraving ensure that coating materials flow smoothly and consistently.

Worldwide Service

Superior Ink Release

The final step in Linde's precision anilox roll process is laser engraving. We take extensive measures to ensure high quality and precision throughout the process. Each characteristic remains within your tight specifications to ensure smooth and consistent ink release. Our technology and process control afford you the choice between two unmatched families of anilox rolls -- PROLINE™ and NOVALINE™ -- each offering superior performance based on your critical requirements.



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