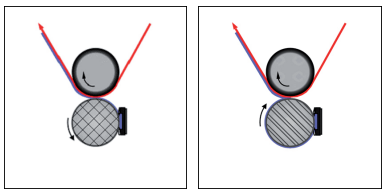
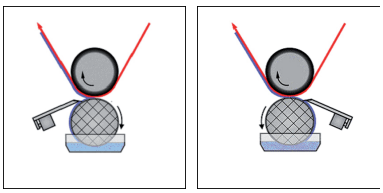
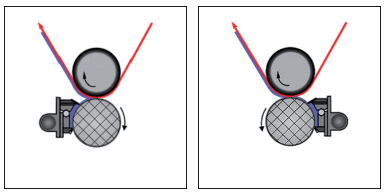
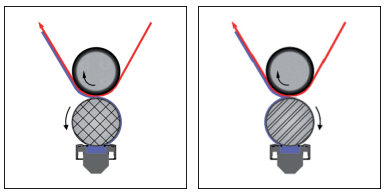
System comparison with screen roller application

chamber doctor blade with negative set metering blade in 3 o'clock or 9 o'clock position, T-Blade	conventional low pressure coating with direct or reverse running screen roller	chamber doctor blade with positive set metering blade in 3 o'clock or 9 o'clock position MG 300/900	chamber doctor blade with positive or negative adjustable metering blade in 6 o'clock position on the screen roller. MPG 600 CI
			
hexagonal screen roller	*hexagonal screen roller*	*hexagonal screen roller*	*hexagonal screen roller*
stable production speed			
800 m/min	400 m/min	600 m/min	1,500 m/min
dry coating weight			
0.1 - 15 g/m²	0.1 - 50 g/m²	0.1 - 50 g/m²	0.1 -200 g/m²
maximum dynamic viscosity			
ca. 500 mPas	500 mPas	500 mPas	2,000 mPas
application variance without screen roller change			
very little only through screen roller speed	very little only through screen roller speed and blade impression	very little only through screen roller speed and blade impression	40 to 200 % through chamber pressure adjustment
change from direct to reverse run in screen roll			
turn trolley downtime approx. 15 min.	turn trolley downtime approx. 15 min.	turn trolley downtime approx. 15 min.	turn inner blade (patented), downtime approx. 2 min.
temperability (cooling/heating of compound plate)			
no	yes, with double-walled pan	no	yes, with MPG chamber
oscillation			
no	with oscillating blade	by means of complete chamber	by means of complete chamber
quick blade change without flushing from chamber/pan of compound			
no	yes	yes	yes
compound in pan/chamber per meter			
approx. 7 l	approx. 20 - 40 l	approx. 7 l	approx. 5 l
danger of solvent evaporation on the pan/chamber			
none	very great	none	none
danger of solvent evaporation before transfer			
low to high (depending on time/distance)	very low	very low	low
likelihood of foam and air bubble development (H_2O compounnds)			
low	great	low	very low
sedimentation of pigmented dispersions			
medium	great	medium	small
cleaning effort			
low self-cleaning possible	high because of pan	low self-cleaning possible	low self-cleaning possible
user-friendly/maintenance			
good	good	good	good
wastage effort without chamber doctor blade			
edge seals	none	edge seals	edge seals
cost			
100 %	100 %	120 %	150 - 180 % depending on design