

# Successful with EXJECTION®

## Convincing Examples from Series Implementation



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EXJECTION®

[www.exjection.com](http://www.exjection.com)



Powered by  
HYBRID COMPOSITE PRODUCTS GmbH  
and IB STEINER

## TRIM STRIP

Main dimensions: 900 mm x 25 mm x 12 mm (l x w x h)

Wall thickness: 3 mm

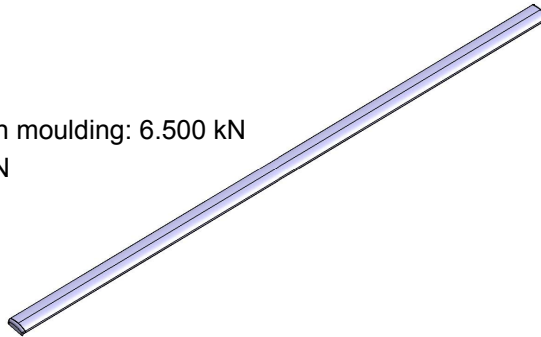
Part weight: ca. 76 g

Applied material SAN

Number of cavities: 1

Clamp force demand:

- Conventional injection moulding: 6.500 kN
- EXJECTION®: 550 kN



EXJECTION® - Injection Moulding in a new Dimension

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## TRIM STRIP

COMPONENT	UNIT	INJECTION MOULDING	EXJECTION®
<b>Investment</b>			
Machine	EUR	370.000	146.000
Mould	EUR	105.000	124.000
Total	EUR	475.000	270.000
<b>Investment Ratio</b>	<b>%</b>	<b>100</b>	<b>57</b>
Production costs (Invest inc.)	EUR/ Pcs.	0,79	0,55
<b>Production Cost Ratio</b>	<b>%</b>	<b>100</b>	<b>70</b>

EXJECTION® Benefits:

- Significantly reduced investment volume: -43 %
- Significantly reduced production costs: -30 %
- Reduced internal stress level with improved surface quality  
Suitable for back moulding processes (decor films)

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## CONTROL STRIP

Main dimensions: 660 mm x 25 mm x 13 mm (l x w x h)

Wall thickness: 2,5 mm

Part weight: ca. 80 g

Applied material: ABS

Number of cavities: 1

Clamp force demand:

- Conventional injection moulding: 5.000 kN
- EXJECTION®: 550 kN



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## CONTROL STRIP

COMPONENT	UNIT	INJECTION MOULDING	EXJECTION®
<b>Investment</b>			
Machine	EUR	340.000	146.000
Mould	EUR	80.000	125.000
Total	EUR	420.000	271.000
<b>Investment Ratio</b>	<b>%</b>	<b>100</b>	<b>65</b>
Production costs (Invest inc.)	EUR/ Pcs.	0,58	0,51
<b>Production Cost Ratio</b>	<b>%</b>	<b>100</b>	<b>88</b>

EXJECTION® Benefits:

- Significantly reduced investment volume : -35 %
- Significantly reduced production costs : -12 %
- Post treatment / rework avoided
- Reduced warpage

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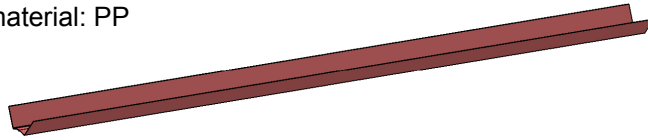
## COVER

Main dimensions: 1.600 mm x 90 mm x 40 mm (l x w x h)

Wall thickness: 1,0 mm

Part weight: ca. 200 g

Applied material: PP



Number of cavities: 1

Clamp force demand:

- Conventional injection moulding: 10.000 kN
- EXJECTION®: 1.500 kN

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## COVER

COMPONENT	UNIT	INJECTION MOULDING	EXJECTION®
<b>Investment</b>			
Machine	EUR	550.000	270.000
Mould	EUR	120.000	190.000
Total	EUR	670.000	460.000
<b>Investment Ratio</b>	<b>%</b>	<b>100</b>	<b>69</b>
Production costs (Invest inc.)	EUR/ Pcs.	0,89	0,81
<b>Production Cost Ratio</b>	<b>%</b>	<b>100</b>	<b>91</b>

EXJECTION® Benefits:

- Significantly reduced investment volume: -31 %
- Significantly reduced production costs: -9 %
- Improved surface quality
- Material savings due to reduced wall thickness

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## Calculation Basis

- Machine costs for 1 component, standard injection moulding machine without special equipment considered
- Machine investment includes EXJECTION® license costs
- Amortization period for moulding machines: 8 years
- Amortization period for moulds: 5 years
- For calculation of hourly rates a 3 shift working pattern has been considered

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## Your Contact to EXJECTION®



**IB STEINER**

Innovation Business

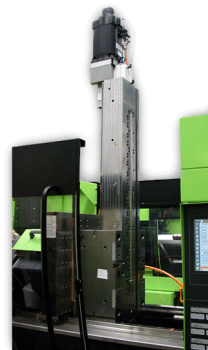
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