

# High-performance, high-precision and efficient

### **Highly productive**

The PET-Line is designed for continuous operation in preform production. All axes move at the maximum possible speed.

They reliably produce your preforms in excellent quality and with high availability.

## **Energy efficient**

Optimised axes and recovery of braking energy make the PET-Line the most economical preform system on the market.

You save energy costs and reduce your company's ecological footprint.

#### **Sustainable**

We want PET to stay in the cycle. That's why we have developed plasticising with a new screw for PET and recycled PET

You benefit from a large process window as well as low AA values and a low IV drop.



Symbol image (series)

Product comparison					
	Throughput, max.		880 kg/h	1220 kg/h	1600 kg/h
PET-Line   3000-4000		3550 g			
PET-Line   3000-6000	PET	5350 g			
PET-Line   4000-4000	Ę.	3550 g			
PET-Line   4000-6000	eigh.	5350 g			
PET-Line   4000-7300	×	6600 g			
PET-Line   5000-6000	Sho	5350 g			
PET-Line   5000-7300		6600 g			



# PET-Line | 3000-6000

Default per Newen (lethan (fi. x v)   mm	Clamping unit			3000	
The fact dismeter   mm	Clamping force	kN		3000	
Specimen	Distance between tiebars (h x v)	mm		785 x 785	
Moulal function   max	Tie bar diameter	mm		115	
Mould weight, max.	Opening stroke	mm		480	
Model darshing bolts	Mould hight, min max.	mm		555 - 1055	
Mould weight moving side max   Page   2000	Mould weight, max.	4) kg		5800	
gischor stroke   mm	Mould fastening bolts			M24	
pictor force	Mould weight moving side max.	4) kg		2000	
High Force* ejector force* jostroke   kkl/mm   608 / 20	Ejector stroke	mm		175	
	Ejector force	kN		80	
### Content of Unit	"High Force" ejector force /stroke	kN/ mm		608 / 20	
Score of diameter	Lock-to-Lock Time	1) s		~ 1.9	
Score of diameter	Injection Unit			6000	
Nozzle diameter mm 32 / 38 / 45 / 45 / 45 / 45 / 45 / 45 / 45 / 4	•				
Nozale contact surface radius mm 38 / 45 njection piston diameter mm 135 njection piston diameter 19b ar 1235 nicht weight, max 19 g 5350 nicht weight, max 1920  Electrical Connection EL UL  Nower supply 1 / 2 V 400 / - 400 / 48					
njection piston diameter					
bar     1235   1235     12					
Signatury   Sign	• •				
Security					
Electrical Connection         CE         UL           Power supply 1 / 2         V         400 / -         400 / 400           India power ross section 1         mm²         3P+N+PE 2x95         3P+PN+PE 2x95           India power ross section 2         mm²         -         3P+N+PE 2x95         3P+PE 2x95           Main power ross section 2         mm²         -         3P+PE 2x95         3P+PE 2x95           Main power ross section 2         mm²         -         3P+N+PE 2x95         3P+PE 2x95           Main power ross section 2         mm²         -         3P+PE 2x95         3P+PE 2x95           Main power ross section 2         mm²         -         1894 / Typ 3         1894 / Typ 3           Main power ross section 2         mm²         -         1894 / Typ 3         1894 / Typ 3           Main power ross section 2         mm²         -         1894 / Typ 3         1894 / Typ					
Power supply 1 / 2	Ihroughput, max.	³ <sup>7</sup> kg/h		1220	
Fequency 1 / 2	Electrical Connection		CE		UL
Main power cross section 1 mm² 3P+N+PE 2y50 3P+N+PE 2y50 4 Min power cross section 2 mm² - 3P+N+PE 2y50 139 / 207 Min power cross section 2 mm² - 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 139 / 207 Min power cross section 2 kW 346 / 140 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 2 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power cross section 3 kW 346 / 207 Min power 2 kW 346 / 207 Min powe	Power supply 1 / 2	V	400 / -		400 / 480
Main power cross section 2	Frequency 1 / 2	Hz	50 / -		60 / 60
Main power 1 / 2	Main power cross section 1	mm <sup>2</sup>	3P+N+PE 2x95		3P+N+PE 2x50
Post	Main power cross section 2	mm <sup>2</sup>	-		3P+PE 2x50
Seneral   Layout	Main power 1 / 2	kW	346 / -		139 / 207
Seneral   Layout	Protection class, IEC 60529 / UL50		IP54 / Typ 3		IP54 / Typ 3
Weight Injection side  t 17.01  Weight Lamping side (without mould) t 14.75  Weight post cooling and housing t 3.70  Take-out gripper load, max. kg 190  Total length m 10.66  Total width m 4.14  Total height m 3.01  Diffilling I 840  Diffugulity B HLP 46, DIN 51524-2   Cooling Circuit 1: Mould / Take-out  Telessure frop, min. bar Creasure drop, min. bar Creasure drop, min. Creasure drop, min. Bar Cooling Circuit 2: Machine  Telesware frop, min. Bar Cooling Circuit 3: Machine  Telesware frop, min. Bar Cooling Circuit 3: Machine  Telesware frop, min. Bar Cooling Circuit 4: Machine  Telesware frop, min. Bar Cooling Circuit 5: Machine  Telesware frop, min. Bar Cooling Circuit 5: Machine  Telesware frop, min. Bar Cooling Circuit 6: Machine  Telesware frop, min. Bar Cooling Circuit 7: Machine Bar Co	General	Lavout			
Meight damping side (without mould)   t		·		17.01	
Weight post cooling and housing t 3.70 lake-out gripper load, max. kg 190 lotal length m 10.66 lotal width m 4.14 lotal height m 3.01 lotifuling l l 840 lotifuling l l l 840 lotifuling l l 1840 lotifuling l 1840 lotifuling l 1840 lotifuling l 1840 lotifuling l					
Fake-out gripper load, max.         kg         190           fotal length         m         10.66           fotal length         m         4.14           fotal height         m         3.01           Dil filling         l         840           Dil quality         b         HLP 46, DIN 51524-2           Cooling Circuit 1: Mould / Take-out           nlet temperature         °C         12           nlet pressure, max.         bar         6.5           clow rate, max.         bar         5           clow rate, max.         °) m³/h         75 - 80           clow rate, max.         °) m³/h         75 - 80           clow rate, max.         °) m³/h         7.2 / 3.5           nlet temperature, max.         °) m³/h         7.2 / 3.5           nlet pressure         bar         5 - 6           result thread         inch         6 1 1/4           Compressed Air         inch         6 1 1/4           Compressure         bar         8 - 10           clow rate, max.         °) Nm³/h         75 - 90           clow rate, max.         °) Nm³/h         75 - 90           clow rate, max.         °) PET with IV 0.8         °) depending					
Total length m 10.66 Total width m 4.14 Total height m 3.01 Total height m 4.14 Total					
Total width         m         4.14           Total height         m         3.01           Dil quality         b         A40           Cooling Circuit 1: Mould / Take-out           Nel te temperature         °C         12           nlet temperature         bar         6.5           Pressure drop, min.         bar         5           Flow rate, max.         °S m³/h         75 - 80           Plange connection         2 x DN 50, 2 x 2"           Cooling Circuit 2: Machine           Inlet temperature, max.         2° °C         30 / 35           Flow rate, max.         2° m³/h         7.2 / 3.5           nlet pressure         bar         5 - 6           Pressure drop, min.         bar         2           Seemale thread         inch         G 1 1/4           Compressed Air           nlet pressure         bar         8 - 10           Flow rate, max.         "N Nm³/h         75 - 90           Hoose connection         inch         1           Help pressure         inch         1           Help pressure         inch         1           Help pressure         inch         1					
Fotal height m 3.01 Dil filling I 840 Dil quality 6 HLP 46, DIN 51524-2  Cooling Circuit 1: Mould / Take-out  Inlet temperature °C 12 Peressure drop, min. bar 5. Peressure drop, min. 5 m³/h 75 - 80 Peressure drop, min. 2 m³/h 7.2 / 3.5 Peressure drop, min. 5 m³/h 7.2 / 3.5 Peressure drop, min. 6 m² 6 m	•				
Dil filling I B40 Dil quality 6 HLP 46, DIN 51524-2  Cooling Circuit 1: Mould / Take-out  Inlet temperature					
HILP 46, DIN 51524-2   Cooling Circuit 1: Mould / Take-out	•	m			
Cooling Circuit 1: Mould / Take-out  Ilet temperature  C	•	6			
nelet temperature °C 12 nelet pressure, max. bar 6.5 Pressure drop, min. bar 5 Pressure drop, min. 75 - 80 Pressure drop, min. 75 - 90 Pressur				HLP 46, DIN 51524-2	
bar 6.5 Pressure drop, min. bar 5 Filow rate, max. 5 m³/h 75 - 80 Filange connection 2 x DN 50, 2 x 2"  Cooling Circuit 2: Machine Filow rate, max. 2 ° °C 30 / 35 Filow rate, max. 2 m³/h 7.2 / 3.5 Filow rate, max. 5 m²/h 7.2 / 3.5 Filow rate, max. 6 f m³/h 7.2 / 3.5 Filow rate, max. 6 f m³/h 7.2 / 3.5 Filow rate, max. 6 f m³/h 7.2 / 3.5 Filow rate, max. 7.2 m³/h 7.2 / 3.5 Filow rate, max. 6 f m³/h 7.2 / 3.5 Filow rate, max. 7.2 m³/h 7.2 / 3.5 Filow rate, max. 7.2 m³/h 7.2 / 3.5 Filow rate, max. 7.2 m³/h 7.2 / 3.5 Filow rate, max. 7.3 m³/h 7.2 m²/h 7.2 m²/	Cooling Circuit 1: Mould / Take-out				
Pressure drop, min.    Somo of the pressure of	Inlet temperature	°C		12	
Some series	Inlet pressure, max.	bar		6.5	
Flange connection 2 x DN 50, 2 x 2"  Cooling Circuit 2: Machine  Inlet temperature, max. 2) °C 30 / 35 Flow rate, max. 5 - 6 Pressure drop, min. bar 2 Female thread inch G 1 1/4  Compressed Air  Inlet pressure bar 8 - 10 Flow rate, max. 1) Nm³/h 75 - 90 Flow rate, max. 1) Nm³/h 75 - 90 Flow rate, max. 1) Nm³/h 10 Flow rate, max. 1) Nm³/	Pressure drop, min.	bar		5	
Cooling Circuit 2: Machine  Inlet temperature, max.  2) °C 30 / 35 Flow rate, max.  2) m³/h 7.2 / 3.5 Inlet pressure bar 5 - 6 Pressure drop, min. bar 2 Female thread inch 6 1 1/4  Compressed Air Inlet pressure bar 8 - 10 Flow rate, max. 1) Nm³/h 75 - 90 Hose connection inch 1  depending on preform, mould & process 3) PET with IV 0.8  3 depending on mould TS-PPF 30	Flow rate, max.	<sup>5)</sup> m <sup>3</sup> /h		75 - 80	
nlet temperature, max.  2) °C  30 / 35  Flow rate, max.  2) m³/h  7.2 / 3.5  het pressure  bar  5 - 6  Pressure drop, min.  bar  2  Female thread  inch  G 1 1/4    Compressed Air  nlet pressure  bar  8 - 10  Flow rate, max.  1) Nm³/h  75 - 90  Hose connection  inch  1  depending on preform, mould & process  3) PET with IV 0.8  5 depending on mould  TS-PPF 30	Flange connection			2 x DN 50, 2 x 2"	
nlet temperature, max.  2) °C  30 / 35  Flow rate, max.  2) m³/h  7.2 / 3.5  het pressure  bar  5 - 6  Pressure drop, min.  bar  2  Female thread  inch  G 1 1/4    Compressed Air  nlet pressure  bar  8 - 10  Flow rate, max.  1) Nm³/h  75 - 90  Hose connection  inch  1  depending on preform, mould & process  3) PET with IV 0.8  5 depending on mould  TS-PPF 30	Cooling Circuit 2: Machine				
2 m³/h   7.2 / 3.5		2) °C		30 / 35	
bar 5 - 6 Pressure drop, min. 2 Female thread inch G 1 1/4  Compressed Air  Inlet pressure bar 8 - 10 Flow rate, max. 10 Nm³/h 75 - 90 Hose connection inch 1  depending on preform, mould & process 3 PET with IV 0.8 9 depending on mould TS-PPF 30	·				
Pressure drop, min.  bar 2 Female thread inch G 1 1/4  Compressed Air  Inlet pressure bar 8 - 10 Flow rate, max.  Inlet pressure bar 10 Flow rate, max. 11 Flow rate, max. 12 Flow rate, max. 13 Flow rate, max. 14 Flow rate, max. 15 Flow rate, max. 16 Flow rate, max. 17 Flow rate, max. 18 Flow rate, max. 19 Flow rate, max. 10 Flow rate, max. 10 Flow rate, max. 11 Flow rate, max. 12 Flow rate, max. 13 Flow rate, max. 14 Flow rate, max. 15 Flow rate, max. 16 Flow rate, max. 17 Flow rate, max. 18 Flow rate, max. 19 Flow rate, max. 19 Flow rate, max. 10 Flow rate,					
Female thread inch G 1 1/4  Compressed Air  Inlet pressure bar 8 - 10  Flow rate, max. 10 Nm³/h 75 - 90  Hose connection inch 1  depending on preform, mould & process 30 PET with IV 0.8 0 depending on mould TS-PPF 30	·				
Compressed Air         8 - 10           nlet pressure         bar         8 - 10           Flow rate, max.         1) Nm³/h         75 - 90           Hose connection         inch         1           depending on preform, mould & process         3) PET with IV 0.8         9) depending on mould         TS-PPF 30	•				
Interpressure         bar         8 - 10           Flow rate, max.         1) Nm³/h         75 - 90           Hose connection         inch         1           depending on preform, mould & process         3) PET with IV 0.8         9) depending on mould         TS-PPF 30		IIICII		0 1 1/4	
Flow rate, max.  1) Nm³/h  Hose connection  1) nm³/h  1) nm³/h  1) nch  1  1 depending on preform, mould & process  3) PET with IV 0.8  3) depending on mould  TS-PPF 30	<u> </u>				
Hose connection inch 1 depending on preform, mould & process 3) PET with IV 0.8 5) depending on mould TS-PPF 30	Inlet pressure				
depending on preform, mould & process <sup>3)</sup> PET with IV 0.8 <sup>5)</sup> depending on mould TS-PPF 30	Flow rate, max.	<sup>1)</sup> Nm <sup>3</sup> /h			
	Hose connection	inch		1	
	1) depending on preform, mould & process	3) PET with IV 0.8			TS-PPF 302 Ver.8