

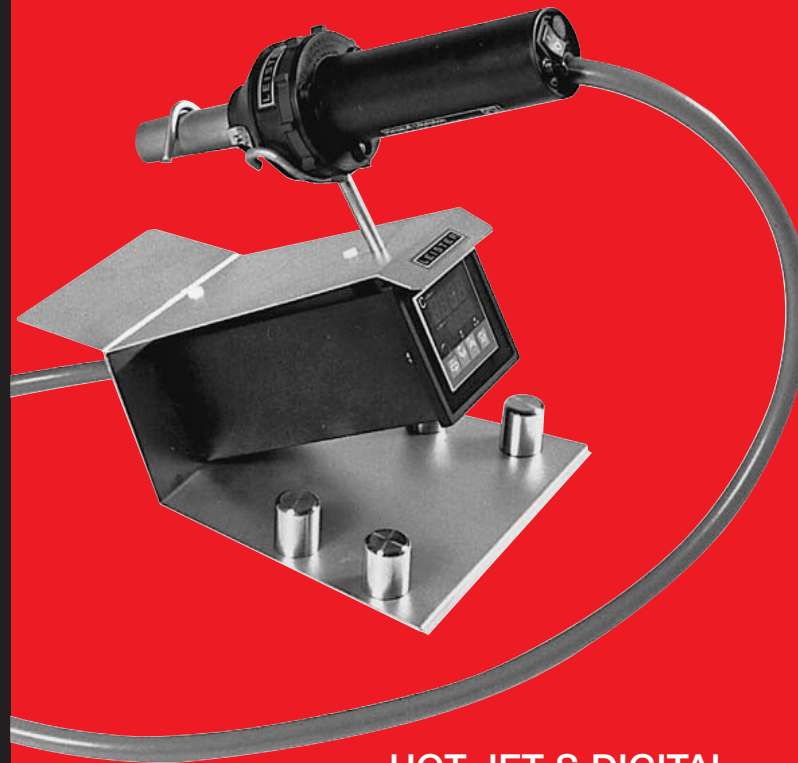
**LEISTER**

PLASTIC WELDING

**Contactless  
soldering and  
de-soldering of  
SMD and  
thru-hole  
components**



**HOT JET S**



**HOT JET S DIGITAL**

# Soldering and de-soldering with hand tool HOT JET S and HOT JET S DIGITAL: Done in seconds, precise, reliable and ESD-protected

Hand tool

## HOT JET S



- Worldwide the smallest hand tool
- Sufficient hot air supply is assured for fast de-soldering by means of the high heating capacity and air flow
- Air flow electronically steplessly adjustable from 20 to 80 l/min.
- The hot air stream can be adjusted as finely as necessary for de-soldering and soldering the smallest components
- Temperature electronically steplessly controlled from 20°C to 600°C
- Installation into machines and appliances is possible under certain conditions
- Safe handling by using the adjustable plastic stand which can be easily removed
- Pleasant to work with because of the emission level of only 59 L<sub>pA</sub>(dB)
- Connection of an ESD-lead to the standard size stud is possible
- Further applications: Shrinking and welding of plastics, polymerization of glassfibre light-conductor connections

### Technical Data

Voltage	V~	100	120	230
Power consumption	W	460		
Frequency	Hz	50 / 60		
Temperature	°C	20 – 600		
Air flow (20°C)	l/min	20 – 80		
Pressure static	Pa	max. 1600 (16 mbar)		
Noise emission level L <sub>pA</sub>	dB	59		
Size (L x Ø)	mm	235 x 70, handle Ø 40		
Weight	kg	0.6 (with 3 m cord)		
Marking of conformity		CE		
Approval mark		Ⓢ		
Certification scheme		CCA		
Protection class II		□		

Hand tool

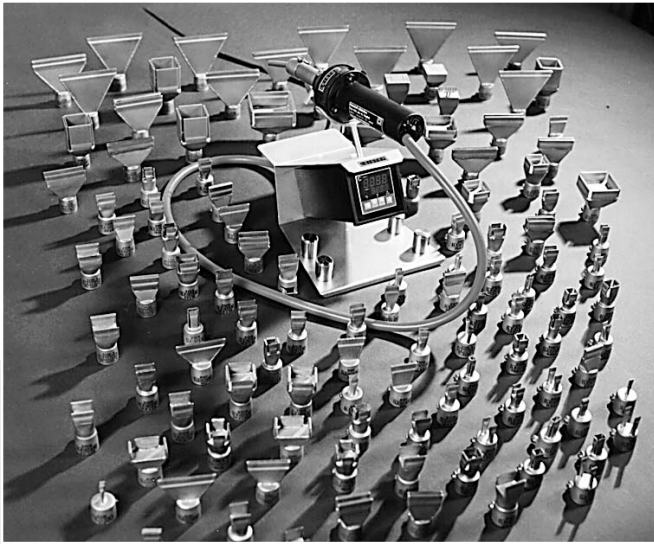
## HOT JET S DIGITAL



- Temperature control by means of thermocouple
- Enhanced stability and very quickly balanced through PID control
- Simultaneous digital display of actual and set value
- Precise temperature and control +/- 1°C
- Reproducible soldering and de-soldering processes
- Air flow electronically adjustable
- Within EMV standard
- ESD connection facility
- Userfriendly tool stand
- Fireproof holder for nozzles
- Over 800 different de-soldering nozzles
- Further applications: Shrinking and welding of plastics, polymerization of glassfibre light-conductor connections

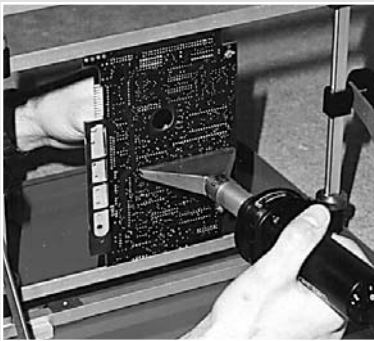
### Technical Data

Voltage	V~	100	120	230
Power consumption	W	460		
Frequency	Hz	50 / 60		
Temperature	°C	20 – 500		
Air flow	l/min	20 – 80		
Pressure static	Pa	max. 1600 (16 mbar)		
Noise emission level L <sub>pA</sub>	dB	59		
Size (L x Ø)	mm	245 x 180 x 200, handle Ø 40		
Weight	kg	2.1 (with 3 m cord)		
Marking of conformity		CE		
Protection class II		□		



We supply special nozzles according to customer requirements world-wide within 2 – 3 weeks on submission of drawings or components with circuit board.

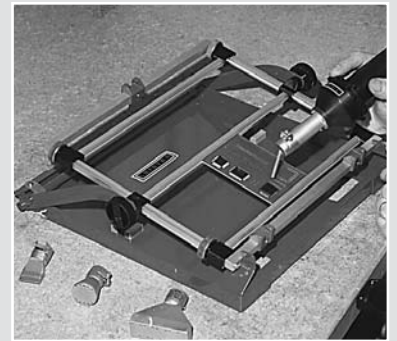
Changing nozzles is done quickly and easily by push-fitting required nozzles onto the tapered refined steel tube on the LEISTER tool.



De-soldering a large PIN-connector.



Removing excess solder with hot air and de-solder braid.



After positioning the SMD component it is then soldered in seconds.

### Hot air soldering station with PID control



There are available over 800 different standard and special nozzles for PLCC, LCCC, FPPLCC, QFP, TAB, BQFP, SO, SOL, TSOP, VSO, DIP, SIP, PIN-Grids.

Also, fine pitch components and PIN-Grids (PGA) can be contactlessly soldered without solder bridges.

Shrinking of heat shrink sleeves, -films, -tapes, -solder connections and -moulded parts. Drying of water-damp surfaces. Welding of thermoplastic materials.



**Headquarter:**

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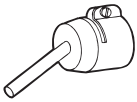
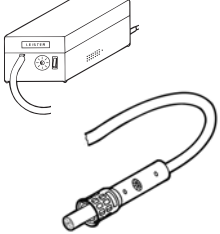

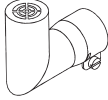
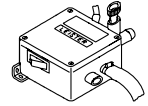


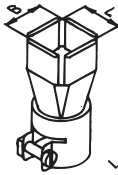
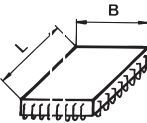

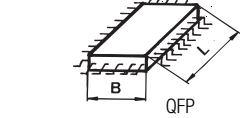
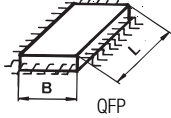
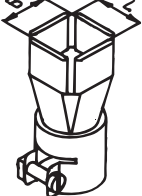
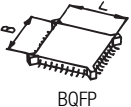
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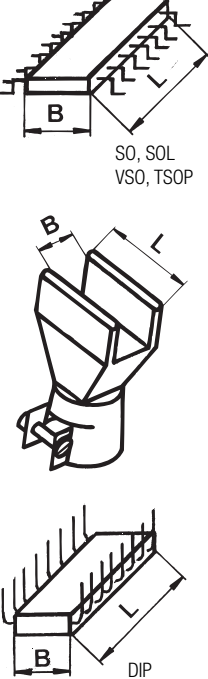
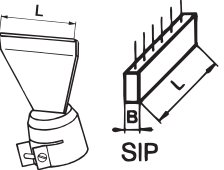
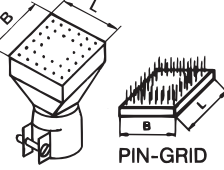
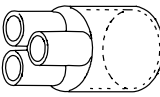


Our close worldwide network of more than 120 Sales and Service Centres in more than 60 countries.

## Accessories for contactless soldering

	<p><b>HOT-JET S Hot air soldering tool</b> </p> <p>230V~, 50/60 Hz, 460 W 100V, 120V~, 50/60 Hz, 460W</p> <p>Temperature electronically steplessly controlled Air flow electronically steplessly adjustable</p>		<p><b>107.148</b></p> <p>Soldering nozzle 3 × 1,5 mm oval for contactless de-soldering and soldering with fine hot air jet, push fit on</p> <p><b>&gt; LABOR S &gt; HOT JET S &gt; HOT JET S DIGITAL</b></p>																																																																					
	<p><b>HOT-JET S DIGITAL Hot air soldering station with PID control</b> </p> <p>230V~, 50/60 Hz, 460 W 100V, 120V~, 50/60 Hz, 460W</p> <p>Temperature electronically steplessly controlled Air flow electronically steplessly adjustable</p>		<p><b>107.151</b></p> <p>Soldering nozzle Ø 4 mm for contactless de-soldering and soldering, push fit on</p> <p><b>&gt; LABOR S &gt; HOT JET S &gt; HOT JET S DIGITAL</b></p>																																																																					
 <p>plus ESD version</p>	<p><b>LABOR S Hot air soldering tool</b> </p> <p>incl. blower</p> <p>230V~, 50/60Hz, 800W 120V~, 50/60Hz, 700W 100V~, 50/60Hz, 500W</p> <p>Weight 2.5 kg</p> <p>Temperature electronically steplessly controlled Air flow electronically steplessly adjustable</p>		<p><b>105.641</b></p> <p>Angled nozzles 21,3 × 33/45 mm, push fit on</p> <p><b>&gt; LABOR S &gt; HOT JET S &gt; HOT JET S DIGITAL</b></p>																																																																					
  <p>plus ESD version</p>	<p><b>LABOR S Hot air soldering tool</b> </p> <p>without blower unit, with connecting box and 3 m hose for connecting to Longlife or an existing air supply</p> <p>230V~, 50/60Hz, 700W 120V~, 50/60Hz, 600W 100V~, 50/60Hz, 400W</p> <p>Temperature electronically steplessly controlled Air flow electronically steplessly adjustable</p>	<p><b>31D5A</b></p>   <p>PLCC, LCCC FPPLCC</p>	<p>De-soldering nozzle four-sided for PLCC, LCCC, FPPLCC bevelled</p> <table border="1"> <tbody> <tr><td><b>104.567</b></td><td>PLCC 18</td><td>11.7 × 6</td></tr> <tr><td><b>104.584</b></td><td>PLCC 20</td><td>10.1 × 10.1</td></tr> <tr><td><b>104.554</b></td><td>PLCC 28</td><td>12.6 × 12.6</td></tr> <tr><td><b>104.530</b></td><td>PLCC 32</td><td>14.7 × 12.2</td></tr> <tr><td><b>104.507</b></td><td>PLCC 44 + 48</td><td>17.7 × 17.7</td></tr> <tr><td><b>104.473</b></td><td>PLCC 52</td><td>20.4 × 20.4</td></tr> <tr><td><b>104.438</b></td><td>PLCC 68</td><td>25.3 × 25.3</td></tr> <tr><td><b>104.403</b></td><td>PLCC 84</td><td>30.7 × 30.7</td></tr> <tr><td><b>104.382</b></td><td>PLCC 100</td><td>34.5 × 34.5</td></tr> <tr><td><b>104.584</b></td><td>LCCC 20</td><td>10.1 × 10.1</td></tr> <tr><td><b>104.544</b></td><td>LCCC 22</td><td>14 × 9</td></tr> <tr><td><b>104.576</b></td><td>LCCC 24</td><td>11 × 11</td></tr> <tr><td><b>104.438</b></td><td>LCCC 68</td><td>25.3 × 25.3</td></tr> </tbody> </table>	<b>104.567</b>	PLCC 18	11.7 × 6	<b>104.584</b>	PLCC 20	10.1 × 10.1	<b>104.554</b>	PLCC 28	12.6 × 12.6	<b>104.530</b>	PLCC 32	14.7 × 12.2	<b>104.507</b>	PLCC 44 + 48	17.7 × 17.7	<b>104.473</b>	PLCC 52	20.4 × 20.4	<b>104.438</b>	PLCC 68	25.3 × 25.3	<b>104.403</b>	PLCC 84	30.7 × 30.7	<b>104.382</b>	PLCC 100	34.5 × 34.5	<b>104.584</b>	LCCC 20	10.1 × 10.1	<b>104.544</b>	LCCC 22	14 × 9	<b>104.576</b>	LCCC 24	11 × 11	<b>104.438</b>	LCCC 68	25.3 × 25.3																														
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	<p><b>High pressure blower ROBUST</b></p> <p>Regenerative blower</p> <p>* 3 × 380 – 440V * 3 × 230V ** 1 × 230V with capacitor</p>	<p><b>31D5</b></p>     <p>QFP</p> <p>BQFP</p>	<p>De-soldering nozzle four-sided for QFP, TAB and BQFP</p> <table border="1"> <tbody> <tr><td><b>104.583</b></td><td>QFP 48</td><td>10.1 × 10.1</td></tr> <tr><td><b>104.539</b></td><td>QFP 44,52,60</td><td>14.1 × 14.1</td></tr> <tr><td><b>104.506</b></td><td>QFP 64</td><td>17.7 × 17.7</td></tr> <tr><td><b>104.477</b></td><td>QFP 64,80,100,128</td><td>20.1 × 14.1</td></tr> <tr><td><b>104.472</b></td><td>QFP 72</td><td>20.4 × 20.4</td></tr> <tr><td><b>104.421</b></td><td>QFP 100,120,144</td><td>28 × 28</td></tr> <tr><td><b>104.394</b></td><td>QFP 184</td><td>32.5 × 32.5</td></tr> <tr><td><b>104.482</b></td><td>BQFP 100</td><td>20 × 20</td></tr> <tr><td><b>109.120</b></td><td>BQFP 132</td><td>24.2 × 24.2</td></tr> <tr><td><b>104.409</b></td><td>BQFP 164</td><td>29.6 × 29.6</td></tr> <tr><td><b>104.381</b></td><td>BQFP 196</td><td>34.5 × 34.5</td></tr> <tr><td><b>104.607</b></td><td></td><td>7 × 7</td></tr> <tr><td><b>104.604</b></td><td></td><td>8 × 8</td></tr> <tr><td><b>104.651</b></td><td></td><td>12.2 × 7,6</td></tr> <tr><td><b>104.551</b></td><td></td><td>13 × 10</td></tr> <tr><td><b>104.532</b></td><td></td><td>14.5 × 8,5</td></tr> <tr><td><b>104.524</b></td><td></td><td>16 × 12</td></tr> <tr><td><b>104.515</b></td><td></td><td>16.7 × 16,7</td></tr> <tr><td><b>104.495</b></td><td></td><td>18.9 × 14,9</td></tr> <tr><td><b>104.465</b></td><td></td><td>22 × 16</td></tr> <tr><td><b>104.444</b></td><td></td><td>24.3 × 24,3</td></tr> <tr><td><b>104.364</b></td><td></td><td>37.5 × 37,5</td></tr> <tr><td><b>104.356</b></td><td></td><td>40.1 × 40,1</td></tr> </tbody> </table>	<b>104.583</b>	QFP 48	10.1 × 10.1	<b>104.539</b>	QFP 44,52,60	14.1 × 14.1	<b>104.506</b>	QFP 64	17.7 × 17.7	<b>104.477</b>	QFP 64,80,100,128	20.1 × 14.1	<b>104.472</b>	QFP 72	20.4 × 20.4	<b>104.421</b>	QFP 100,120,144	28 × 28	<b>104.394</b>	QFP 184	32.5 × 32.5	<b>104.482</b>	BQFP 100	20 × 20	<b>109.120</b>	BQFP 132	24.2 × 24.2	<b>104.409</b>	BQFP 164	29.6 × 29.6	<b>104.381</b>	BQFP 196	34.5 × 34.5	<b>104.607</b>		7 × 7	<b>104.604</b>		8 × 8	<b>104.651</b>		12.2 × 7,6	<b>104.551</b>		13 × 10	<b>104.532</b>		14.5 × 8,5	<b>104.524</b>		16 × 12	<b>104.515</b>		16.7 × 16,7	<b>104.495</b>		18.9 × 14,9	<b>104.465</b>		22 × 16	<b>104.444</b>		24.3 × 24,3	<b>104.364</b>		37.5 × 37,5	<b>104.356</b>		40.1 × 40,1
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## Accessories for contactless soldering

<p><b>31D6</b></p>  <p>SO, SOL VSO, TSOP</p> <p>DIP</p>	<p>De-soldering nozzle two-sided for SO, SOL, TSOP, VSO and DIP</p> <table border="0"> <tr><td><b>104.956</b></td><td>SO 8</td><td>5.3 × 4</td></tr> <tr><td><b>104.934</b></td><td>SO 14</td><td>8.5 × 4</td></tr> <tr><td><b>104.919</b></td><td>SO 16</td><td>10.2 × 4</td></tr> <tr><td><b>104.902</b></td><td>SO 20</td><td>12.2 × 5.5</td></tr> <tr><td><b>104.950</b></td><td>SO 8L</td><td>5.3 × 7.6</td></tr> <tr><td><b>104.914</b></td><td>SO 16L</td><td>10.2 × 7.6</td></tr> <tr><td><b>104.899</b></td><td>SO 20L</td><td>12.2 × 7.6</td></tr> <tr><td><b>104.873</b></td><td>SO 24L</td><td>15.4 × 7.6</td></tr> <tr><td><b>104.845</b></td><td>SO 28L</td><td>18.5 × 7.6</td></tr> <tr><td><b>104.842</b></td><td>TSOP 28</td><td>18.5 × 8.5</td></tr> <tr><td><b>104.892</b></td><td>VSO 30</td><td>12.2 × 14.2</td></tr> <tr><td><b>104.873</b></td><td>VSO 40</td><td>15.4 × 7.6</td></tr> <tr><td><b>104.820</b></td><td>VSO 52</td><td>20 × 9.2</td></tr> <tr><td><b>104.813</b></td><td>VSO 56</td><td>20 × 13</td></tr> <tr><td><b>104.947</b></td><td>DIP 6</td><td>6 × 6</td></tr> <tr><td><b>104.925</b></td><td>DIP 8</td><td>9.2 × 6</td></tr> <tr><td><b>104.876</b></td><td>DIP 14</td><td>15.4 × 6</td></tr> <tr><td><b>104.824</b></td><td>DIP 16</td><td>20 × 6</td></tr> <tr><td><b>104.802</b></td><td>DIP 18</td><td>22 × 6</td></tr> <tr><td><b>104.791</b></td><td>DIP 20</td><td>25.3 × 6</td></tr> <tr><td><b>104.787</b></td><td>DIP 22</td><td>25.3 × 8.1</td></tr> <tr><td><b>104.741</b></td><td>DIP 24</td><td>31 × 13</td></tr> <tr><td><b>104.725</b></td><td>DIP 28</td><td>34.5 × 13</td></tr> <tr><td><b>104.701</b></td><td>DIP 32</td><td>41.7 × 13</td></tr> <tr><td><b>104.667</b></td><td>DIP 40</td><td>50.5 × 13</td></tr> <tr><td><b>104.642</b></td><td>DIP 64</td><td>57.5 × 17.7</td></tr> </table> <p>Plug connections (2-rows)</p> <table border="0"> <tr><td><b>104.907</b></td><td>12.2 × 0.5</td></tr> <tr><td><b>104.855</b></td><td>18.5 × 0.6</td></tr> <tr><td><b>104.804</b></td><td>22 × 0.7</td></tr> <tr><td><b>104.794</b></td><td>25.3 × 0.0</td></tr> <tr><td><b>104.732</b></td><td>34.5 × 0.0</td></tr> <tr><td><b>104.709</b></td><td>41.7 × 0.0</td></tr> <tr><td><b>104.687</b></td><td>46.5 × 0.2</td></tr> <tr><td><b>104.636</b></td><td>62.5 × 0.0</td></tr> <tr><td><b>104.623</b></td><td>75 × 0.0</td></tr> <tr><td><b>104.952</b></td><td>5.3 × 6.3</td></tr> <tr><td><b>104.918</b></td><td>10.2 × 5.7</td></tr> <tr><td><b>104.917</b></td><td>10.2 × 6.4</td></tr> <tr><td><b>104.871</b></td><td>15.4 × 8.8</td></tr> <tr><td><b>104.868</b></td><td>15.4 × 9.5</td></tr> <tr><td><b>104.822</b></td><td>20 × 8.1</td></tr> <tr><td><b>104.728</b></td><td>34.5 × 5.4</td></tr> <tr><td><b>104.646</b></td><td>57.5 × 5.5</td></tr> </table>	<b>104.956</b>	SO 8	5.3 × 4	<b>104.934</b>	SO 14	8.5 × 4	<b>104.919</b>	SO 16	10.2 × 4	<b>104.902</b>	SO 20	12.2 × 5.5	<b>104.950</b>	SO 8L	5.3 × 7.6	<b>104.914</b>	SO 16L	10.2 × 7.6	<b>104.899</b>	SO 20L	12.2 × 7.6	<b>104.873</b>	SO 24L	15.4 × 7.6	<b>104.845</b>	SO 28L	18.5 × 7.6	<b>104.842</b>	TSOP 28	18.5 × 8.5	<b>104.892</b>	VSO 30	12.2 × 14.2	<b>104.873</b>	VSO 40	15.4 × 7.6	<b>104.820</b>	VSO 52	20 × 9.2	<b>104.813</b>	VSO 56	20 × 13	<b>104.947</b>	DIP 6	6 × 6	<b>104.925</b>	DIP 8	9.2 × 6	<b>104.876</b>	DIP 14	15.4 × 6	<b>104.824</b>	DIP 16	20 × 6	<b>104.802</b>	DIP 18	22 × 6	<b>104.791</b>	DIP 20	25.3 × 6	<b>104.787</b>	DIP 22	25.3 × 8.1	<b>104.741</b>	DIP 24	31 × 13	<b>104.725</b>	DIP 28	34.5 × 13	<b>104.701</b>	DIP 32	41.7 × 13	<b>104.667</b>	DIP 40	50.5 × 13	<b>104.642</b>	DIP 64	57.5 × 17.7	<b>104.907</b>	12.2 × 0.5	<b>104.855</b>	18.5 × 0.6	<b>104.804</b>	22 × 0.7	<b>104.794</b>	25.3 × 0.0	<b>104.732</b>	34.5 × 0.0	<b>104.709</b>	41.7 × 0.0	<b>104.687</b>	46.5 × 0.2	<b>104.636</b>	62.5 × 0.0	<b>104.623</b>	75 × 0.0	<b>104.952</b>	5.3 × 6.3	<b>104.918</b>	10.2 × 5.7	<b>104.917</b>	10.2 × 6.4	<b>104.871</b>	15.4 × 8.8	<b>104.868</b>	15.4 × 9.5	<b>104.822</b>	20 × 8.1	<b>104.728</b>	34.5 × 5.4	<b>104.646</b>	57.5 × 5.5
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<p><b>31D7</b></p>  <p>SIP</p>	<p>De-soldering nozzle straight line for SIP-housing and PIN-connector</p> <table border="0"> <tr><td><b>105.070</b></td><td>25</td></tr> <tr><td><b>105.066</b></td><td>30</td></tr> <tr><td><b>105.053</b></td><td>50</td></tr> <tr><td><b>105.039</b></td><td>80</td></tr> <tr><td><b>105.036</b></td><td>100</td></tr> </table> <p>&gt; LABOR S &gt; HOT JET S &gt; HOT JET S DIGITAL</p>	<b>105.070</b>	25	<b>105.066</b>	30	<b>105.053</b>	50	<b>105.039</b>	80	<b>105.036</b>	100																																																																																																						
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<p><b>31D8</b></p>  <p>PIN-GRID</p>	<p>De-soldering nozzle for PIN-Grids and socket</p> <table border="0"> <tr><td><b>105.249</b></td><td>PGA 136</td><td>38 × 38</td></tr> <tr><td><b>105.317</b></td><td>PGA 68</td><td>30 × 30</td></tr> <tr><td><b>105.336</b></td><td>PGA 81</td><td>26 × 26</td></tr> <tr><td><b>105.341</b></td><td>PGA 48</td><td>26 × 26</td></tr> </table> <p>Other sizes and pin hole configurations, also available</p> <p>&gt; LABOR S &gt; HOT JET S &gt; HOT JET S DIGITAL</p>	<b>105.249</b>	PGA 136	38 × 38	<b>105.317</b>	PGA 68	30 × 30	<b>105.336</b>	PGA 81	26 × 26	<b>105.341</b>	PGA 48	26 × 26																																																																																																				
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	<p>Hose connection adaptor, push fit on LONGLIFE blower, to connect 3 LABOR S tools</p> <p><b>107.281</b></p>																																																																																																																

Nozzles are not included to the hand tools.  
Technical data are subject to change without notice.