

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_{pA}(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 _{pA}	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

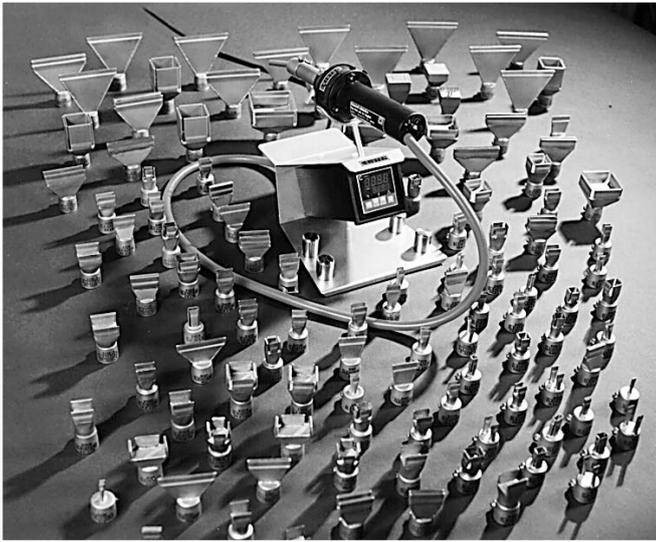
HOT JET S DIGITAL



- 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

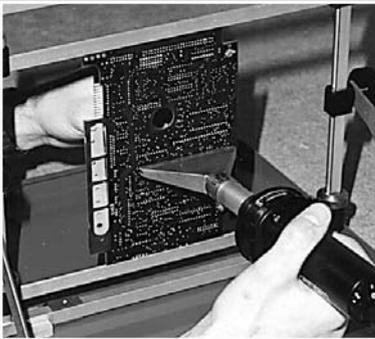
Technical Data

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 _{pA}	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.

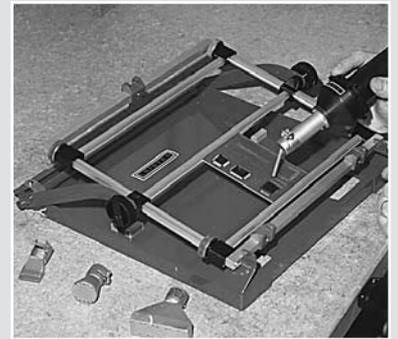
Changing nozzles is done quickly and easily by push-fitting required nozzles onto the tapered refined steel tube on the LEISTER tool.



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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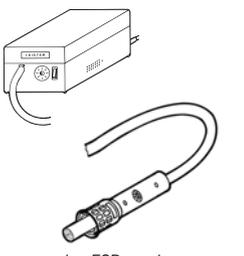
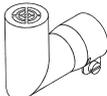
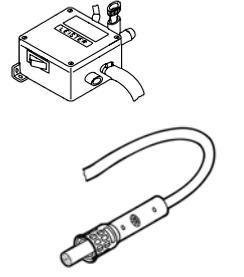
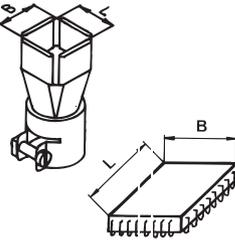
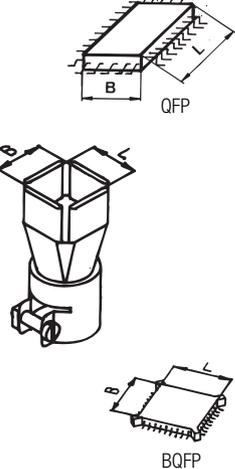
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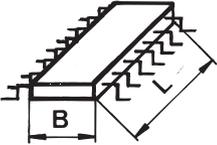
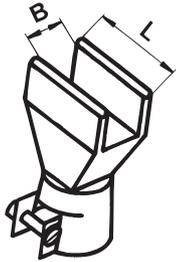
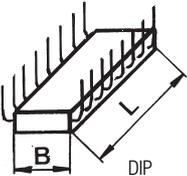
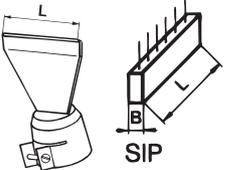
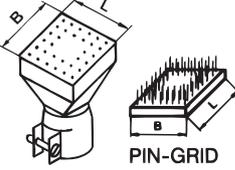
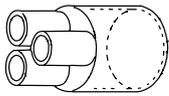


Our close worldwide network of more than 120 Sales and Service Centres in more than 60 countries.

Accessories for contactless soldering

	<p>HOT-JET S Hot air soldering tool </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>107.148</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>> LABOR S > HOT JET S > HOT JET S DIGITAL</p>																																																																					
	<p>HOT-JET S DIGITAL Hot air soldering station with PID control </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>107.151</p> <p>Soldering nozzle Ø 4 mm for contactless de-soldering and soldering, push fit on</p> <p>> LABOR S > HOT JET S > HOT JET S DIGITAL</p>																																																																					
 <p>plus ESD version</p>	<p>LABOR S Hot air soldering tool </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>105.641</p> <p>Angled nozzles 21,3 × 33/45 mm, push fit on</p> <p>> LABOR S > HOT JET S > HOT JET S DIGITAL</p>																																																																					
 <p>plus ESD version</p>	<p>LABOR S Hot air soldering tool </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>31D5A</p>  <p>PLCC, LCCC FPPLCC</p>	<p>De-soldering nozzle four-sided for PLCC, LCCC, FPPLCC bevelled</p> <table border="1"> <tbody> <tr><td>104.567</td><td>PLCC 18</td><td>11.7 × 6</td></tr> <tr><td>104.584</td><td>PLCC 20</td><td>10.1 × 10.1</td></tr> <tr><td>104.554</td><td>PLCC 28</td><td>12.6 × 12.6</td></tr> <tr><td>104.530</td><td>PLCC 32</td><td>14.7 × 12.2</td></tr> <tr><td>104.507</td><td>PLCC 44+48</td><td>17.7 × 17.7</td></tr> <tr><td>104.473</td><td>PLCC 52</td><td>20.4 × 20.4</td></tr> <tr><td>104.438</td><td>PLCC 68</td><td>25.3 × 25.3</td></tr> <tr><td>104.403</td><td>PLCC 84</td><td>30.7 × 30.7</td></tr> <tr><td>104.382</td><td>PLCC 100</td><td>34.5 × 34.5</td></tr> <tr><td>104.584</td><td>LCCC 20</td><td>10.1 × 10.1</td></tr> <tr><td>104.544</td><td>LCCC 22</td><td>14 × 9</td></tr> <tr><td>104.576</td><td>LCCC 24</td><td>11 × 11</td></tr> <tr><td>104.438</td><td>LCCC 68</td><td>25.3 × 25.3</td></tr> </tbody> </table>	104.567	PLCC 18	11.7 × 6	104.584	PLCC 20	10.1 × 10.1	104.554	PLCC 28	12.6 × 12.6	104.530	PLCC 32	14.7 × 12.2	104.507	PLCC 44+48	17.7 × 17.7	104.473	PLCC 52	20.4 × 20.4	104.438	PLCC 68	25.3 × 25.3	104.403	PLCC 84	30.7 × 30.7	104.382	PLCC 100	34.5 × 34.5	104.584	LCCC 20	10.1 × 10.1	104.544	LCCC 22	14 × 9	104.576	LCCC 24	11 × 11	104.438	LCCC 68	25.3 × 25.3																														
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	<p>High pressure blower ROBUST</p> <p>Regenerative blower</p> <p>* 3 × 380 – 440V * 3 × 230V ** 1 × 230V with capacitor</p>	<p>31D5</p>  <p>QFP BQFP</p>	<p>De-soldering nozzle four-sided for QFP, TAB and BQFP</p> <table border="1"> <tbody> <tr><td>104.583</td><td>QFP 48</td><td>10.1 × 10.1</td></tr> <tr><td>104.539</td><td>QFP 44,52,60</td><td>14.1 × 14.1</td></tr> <tr><td>104.506</td><td>QFP 64</td><td>17.7 × 17.7</td></tr> <tr><td>104.477</td><td>QFP 64,80,100,128</td><td>20.1 × 14.1</td></tr> <tr><td>104.472</td><td>QFP 72</td><td>20.4 × 20.4</td></tr> <tr><td>104.421</td><td>QFP 100,120,144</td><td>28 × 28</td></tr> <tr><td>104.394</td><td>QFP 184</td><td>32.5 × 32.5</td></tr> <tr><td>104.482</td><td>BQFP 100</td><td>20 × 20</td></tr> <tr><td>109.120</td><td>BQFP 132</td><td>24.2 × 24.2</td></tr> <tr><td>104.409</td><td>BQFP 164</td><td>29.6 × 29.6</td></tr> <tr><td>104.381</td><td>BQFP 196</td><td>34.5 × 34.5</td></tr> <tr><td>104.607</td><td></td><td>7 × 7</td></tr> <tr><td>104.604</td><td></td><td>8 × 8</td></tr> <tr><td>104.651</td><td></td><td>12.2 × 7,6</td></tr> <tr><td>104.551</td><td></td><td>13 × 10</td></tr> <tr><td>104.532</td><td></td><td>14.5 × 8,5</td></tr> <tr><td>104.524</td><td></td><td>16 × 12</td></tr> <tr><td>104.515</td><td></td><td>16.7 × 16.7</td></tr> <tr><td>104.495</td><td></td><td>18.9 × 14.9</td></tr> <tr><td>104.465</td><td></td><td>22 × 16</td></tr> <tr><td>104.444</td><td></td><td>24.3 × 24,3</td></tr> <tr><td>104.364</td><td></td><td>37.5 × 37.5</td></tr> <tr><td>104.356</td><td></td><td>40.1 × 40.1</td></tr> </tbody> </table>	104.583	QFP 48	10.1 × 10.1	104.539	QFP 44,52,60	14.1 × 14.1	104.506	QFP 64	17.7 × 17.7	104.477	QFP 64,80,100,128	20.1 × 14.1	104.472	QFP 72	20.4 × 20.4	104.421	QFP 100,120,144	28 × 28	104.394	QFP 184	32.5 × 32.5	104.482	BQFP 100	20 × 20	109.120	BQFP 132	24.2 × 24.2	104.409	BQFP 164	29.6 × 29.6	104.381	BQFP 196	34.5 × 34.5	104.607		7 × 7	104.604		8 × 8	104.651		12.2 × 7,6	104.551		13 × 10	104.532		14.5 × 8,5	104.524		16 × 12	104.515		16.7 × 16.7	104.495		18.9 × 14.9	104.465		22 × 16	104.444		24.3 × 24,3	104.364		37.5 × 37.5	104.356		40.1 × 40.1
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Accessories for contactless soldering

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

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