



# PUSH-PULL

**PPW 400**

wassergekühlt  
water cooled

## Handschweißbrenner *Welding Torch*



|   |  |
|---|--|
| <b>Technische Daten nach DIN EN 50 078:</b> | <b>450 A CO<sub>2</sub></b>                          |
| <b><i>Technical Data:</i></b>               | <b>400 A ArCO<sub>2</sub> / M2.1 nach DIN EN 439</b> |
| <b>ED / <i>Duty Cycle:</i></b>              | <b>@ 100 %</b>                                       |
| <b>Gasdurchfluß / <i>Gas Flow:</i></b>      | <b>10-18 l/min</b>                                   |
| <b>Draht-ø / <i>Wire Diameter:</i></b>      | <b>0.8-1.2 mm / .030"-.045"</b>                      |

### **Autogen Ritter® Push-Pull Brenner**

Alle Brenner sind standardmäßig ausgestattet mit geradem Brennerhals, Euro Zentralanschluß und 42 V Motor.

### ***Autogen Ritter® Push-Pull Torches***

*All torches are equipped with a straight swan neck, Euro connection and with a 42 V power motor.*

| <b>PPW 400</b>           | <b>6 m</b> | <b>8 m</b> | <b>10 m</b> |
|--------------------------|------------|------------|-------------|
| <i>gerade / straight</i> | 244.60.01  | 244.80.01  | 244.00.01   |
| 45 °                     | 244.60.02  | 244.80.02  | 244.00.02   |



|    |   |  |           |
|----|---|--|-----------|
| 1  | <b>Brennerbauteile</b><br><i>Torch Components</i>       | Brennerhals, gerade<br><i>Swan Neck, straight</i>  | 244.02.00 |
|    |   | Brennerhals 45 °<br><i>Swan Neck 45 °</i>  | 244.03.00 |
| 2  |   | Düsenstock, M 6 kurz<br><i>Tip Adapter M 6 short</i>   | 241.04.06 |
|    |   | Düsenstock, M 8 kurz<br><i>Tip Adapter M 8 short</i>   | 241.04.08 |
|    |   | Düsenstock, M 6 lang<br><i>Tip Adapter M 6 long</i>  | 241.04.16 |
|    |   | Düsenstock M 8 lang<br><i>Tip Adapter M 8 long</i>   | 241.04.18 |
| 3  | <b>Stromkontaktdüsen</b><br><i>Current Contact Tips</i> | M 8 x 30, ø in mm / ECu  | 241.06.xx |
|    |   | M 8 x 30, ø in mm / CuCrZr   | 241.76.xx |
|    |   | M 8 x 30, ø in mm / für / for Alu  | 241.66.xx |
|    |   | Stromdüsen erhältlich in ø 0.8/0.9/1.0/1.2 mm.<br>Bitte bei xx Drahtdurchmesser angeben. Beispiel:<br>ø 1,2 mm ist: 12; Art.-Nr.: = 241.06.12<br><i>Tips available in .030"/.035"/.039"/.045".</i><br><i>Please insert wire diameter at xx. Example:</i><br><i>ø .045" = 1.2 mm is 12; Art.-No.: = 241.06.12</i> |           |
|    |   |  |           |
| 4  | <b>Gasdüsen</b><br><i>Gas Nozzles</i>                   | Gasdüse, zylindrisch<br><i>Gas Nozzle, cylindrical</i>   | 241.08.01 |
|    |   | Gasdüse, konisch<br><i>Gas Nozzle, conical</i>   | 241.08.02 |
|    |   | Gasdüse, stark konisch<br><i>Gas Nozzle, tapered</i>   | 241.08.03 |
| 5  | <b>Verschleißteile</b><br><i>Spare Parts</i>            | Gasverteiler, weiß<br><i>Gas Diffuser, white</i>   | 241.07.02 |
|    |   | Gasverteiler, schwarz<br><i>Gas Diffuser, black</i>  | 241.07.00 |
| 8  |   | DF-Rohr, lang<br><i>Neck Liner, long</i>   | 266.02.01 |
|    |   | DF-Rohr, kurz<br><i>Neck Liner, short</i>  | 266.03.01 |
| 9  |   | Flachmutter<br><i>Lock Nut</i>   | 266.02.02 |
| 10 |   | Spannkappe kpl.<br><i>Snap-On-Head cpl.</i>  | 266.09.00 |
| 11 |   | Schraubkappe<br><i>Spring Cap</i>  | 266.09.03 |
| 12 |   | Feder / <i>Spring</i>  | 266.09.02 |
| 13 |   | Kugel / <i>Ball Bearing</i>  | 266.09.01 |
| 20 |   | Motor 42 V (standard) / <i>Motor standard 42 V</i>   | 266.22.00 |
|    |   | Motor 24 V / <i>Motor 24 V</i>   | 266.22.24 |
| 21 |   | Handgriff, linke & rechte Hälfte<br><i>Handle left &amp; right Half</i>  | 266.10.00 |
| 22 |   | Drücker kpl.<br><i>Trigger cpl.</i>  | 214.11.00 |
| 23 |   | 6-Kant Mutter / <i>Nut</i>   | 004.00.01 |

|    |   |  |            |
|----|---|--|------------|
| 24 | <b>Verschleißteile</b><br><i>Spare Parts</i>          | Schraube M 4 x 25<br><i>Screw M 4 x 25</i>   | 004.25.01  |
| 25 |   | Schraube M 3 x 20<br><i>Screw M 3 x 20</i>   | 003.20.01  |
| 26 |   | Schraube M 3 x 10<br><i>Screw M 3 x 10</i>   | 003.10.01  |
| 28 |   | Potentiometer (standard = 10 KOhm)<br><i>Poti 10 KOhm</i>                                | 266.13.100 |
| 29 |   | Drehknopf<br><i>Knob</i>   | 266.13.01  |
| 30 | <b>Drahtfördereinheit</b><br><i>Wire Feeding Unit</i> | Brennerkörper PPW 400<br><i>Torch Body PPW 400</i>                                       | 244.01.00  |
| 31 |   | Aufnahme für DF-Rolle<br><i>Drive Roll Seat</i>  | 266.23.00  |
| 32 |   | Drahtförderrolle Stahl $\phi$ 0.8 mm<br><i>Drive Roll Steel <math>\phi</math> 0.8 mm</i> | 266.24.08  |
|    |   | Drahtförderrolle Alu $\phi$ 0.8 mm<br><i>Drive Roll Alu <math>\phi</math> 0.8 mm</i>     | 266.24.09  |
|    |   | Drahtförderrolle Stahl $\phi$ 0.9 mm<br><i>Drive Roll Steel <math>\phi</math> 0.9 mm</i> | 266.24.19  |
|    |   | Drahtförderrolle Alu $\phi$ 0.9 mm<br><i>Drive Roll Alu <math>\phi</math> 0.9 mm</i>     | 266.24.18  |
|    |   | Drahtförderrolle Stahl $\phi$ 1.0 mm<br><i>Drive Roll Steel <math>\phi</math> 1.0 mm</i> | 266.24.10  |
|    |   | Drahtförderrolle Alu $\phi$ 1.0 mm<br><i>Drive Roll Alu <math>\phi</math> 1.0 mm</i>     | 266.24.11  |
|    |   | Drahtförderrolle Stahl $\phi$ 1.2 mm<br><i>Drive Roll Steel <math>\phi</math> 1.2 mm</i> | 266.24.12  |
|    |   | Drahtförderrolle Alu $\phi$ 1.2 mm<br><i>Drive Roll Alu <math>\phi</math> 1.2 mm</i>     | 266.24.13  |
| 33 |   | Befestigungsscheibe<br><i>Washer</i>   | 266.23.01  |
| 34 |   | Schraube<br><i>Screw</i>   | 003.10.03  |
| 35 |   | Andruckbügel<br><i>Pressure Arm</i>  | 266.01.01  |
| 36 |   | Gegendruckrolle<br><i>Pressure Roll</i>  | 266.25.00  |
| 37 |   | Beilagscheibe<br><i>Washer</i>   | 266.25.01  |
| 38 |   | 6-Kant Mutter / <i>Nut</i>   | 003.00.01  |
| 39 |   | O - Ring<br><i>O - Ring</i>  | 003.15.00  |
| 40 | <b>Schlauchpaket</b><br><i>Cable Assembly</i>         | Knickschutz, brennerseitig<br><i>Cable Support</i>                                       | 266.12.00  |
| 41 |   | Kunststoffschraube<br><i>Plastic Screw</i>   | 110.12.00  |
| 42 |   | Gasanschlußnippel<br><i>Gas Connector</i>  | 244.01.02  |



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|-----------|---|--|------------------|
| <b>43</b> | <b>Schlauchpaket</b><br><i>Cable Assembly</i> | Anschlußnippel für Drahttransport<br><i>Wire Conduit Connector</i>           | <b>266.01.03</b> |
| <b>50</b> |   | Anschlußmutter / <i>Plug Nut</i>   | <b>215.17.00</b> |
| <b>51</b> |   | MS-Überwurfmutter<br><i>Liner Positioner Nut</i>                             | <b>215.15.01</b> |
| <b>52</b> |   | ZA-Stecker, Wasser<br><i>Gun Plug Body, water (Euro)</i>                     | <b>241.15.00</b> |
| <b>54</b> |   | O - Ring / <i>O - Ring</i>   | <b>004.10.00</b> |
| <b>55</b> |   | Knickschutz 3-T, offen<br><i>Gun Plug Housing</i>                            | <b>241.16.00</b> |
| <b>56</b> |   | Schraube / <i>Screw</i>  | <b>004.06.01</b> |
| <b>57</b> |   | Doppelnippel<br><i>Threaded Nipple</i>                                       | <b>241.15.01</b> |
| <b>60</b> |   | Schlauchpaket, 4 m / <i>Cable Assembly, 4 m</i>                              | <b>244.39.40</b> |
|           |   | Schlauchpaket, 6 m / <i>Cable Assembly, 6 m</i>                              | <b>244.39.60</b> |
|           |   | Schlauchpaket, 8 m / <i>Cable Assembly, 8 m</i>                              | <b>244.39.80</b> |
|           |   | Schlauchpaket, 10 m / <i>Cable Assembly, 10 m</i>                            | <b>244.39.00</b> |
| <b>61</b> |   | Drahttransportschlauch 4 m<br><i>Wire Conduit 4 m</i>                        | <b>244.46.40</b> |
|           |   | Drahttransportschlauch 6 m<br><i>Wire Conduit 6 m</i>                        | <b>244.46.60</b> |
|           |   | Drahttransportschlauch 8 m<br><i>Wire Conduit 8 m</i>                        | <b>244.46.80</b> |
|           |   | Drahttransportschlauch 10 m<br><i>Wire Conduit 10 m</i>                      | <b>244.46.00</b> |
| <b>62</b> |   | Gasschlauch 4 m<br><i>Gas Hose 4 m</i>                                       | <b>244.43.40</b> |
|           |   | Gasschlauch 6 m<br><i>Gas Hose 6 m</i>                                       | <b>244.43.60</b> |
|           |   | Gasschlauch 8 m<br><i>Gas Hose 8 m</i>                                       | <b>244.43.80</b> |
|           |   | Gasschlauch 10 m<br><i>Gas Hose 10 m</i>                                     | <b>244.43.00</b> |
| <b>63</b> |   | Strom-Wasser-Kabel, kpl. 4 m<br><i>Power Cable, cpl. 4 m</i>                 | <b>244.41.40</b> |
|           |   | Strom-Wasser-Kabel, kpl. 6 m<br><i>Power Cable, cpl. 6 m</i>                 | <b>244.41.60</b> |
|           |   | Strom-Wasser-Kabel, kpl. 8 m<br><i>Power Cable, cpl. 8 m</i>                 | <b>244.41.80</b> |
|           |   | Strom-Wasser-Kabel, kpl. 10 m<br><i>Power Cable, cpl. 10 m</i>               | <b>244.41.00</b> |
| <b>64</b> |   | Wasservorlaufschlauch kpl. 4 m<br><i>Water Inlet Hose cpl. 4 m</i>           | <b>244.42.40</b> |
|           |   | Wasservorlaufschlauch kpl. 6 m<br><i>Water Inlet Hose cpl. 6 m</i>           | <b>244.42.60</b> |
|           |   | Wasservorlaufschlauch kpl. 8 m<br><i>Water Inlet Hose cpl. 8 m</i>           | <b>244.42.80</b> |
|           |   | Wasservorlaufschlauch kpl. 10 m<br><i>Water Inlet Hose cpl. 10 m</i>         | <b>244.42.00</b> |
| <b>66</b> |   | Steuerleitung kpl. 4 m<br><i>Control Cable, cpl. 4 m</i>                     | <b>266.44.40</b> |
|           |   | Steuerleitung kpl. 6 m<br><i>Control Cable, cpl. 6 m</i>                     | <b>266.44.60</b> |
|           |   | Steuerleitung kpl. 8 m<br><i>Control Cable, cpl. 8 m</i>                     | <b>266.44.80</b> |
|           |   | Steuerleitung kpl. 10 m<br><i>Control Cable, cpl. 10 m</i>                   | <b>266.44.10</b> |
| <b>67</b> |   | Wasserrücklaufschlauch 0.55 m, kpl.<br><i>Water Outlet Hose 0.55 m, cpl.</i> | <b>241.47.05</b> |

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|----|---|---|-----------|---------------------------------------|-----------|
| 69 | <b>Schlauchpaket</b><br><i>Cable Assembly</i>                         | Überzugschlauch kpl. 4 m                              | 244.45.40 |                                       |           |
|    |   | <i>Outer Cover Hose, cpl. 4 m</i>                     |           |                                       |           |
|    |   | Überzugschlauch kpl. 6 m                              | 244.45.60 |                                       |           |
|    |   | <i>Outer Cover Hose, cpl. 6 m</i>                     |           |                                       |           |
| 70 |   | Überzugschlauch kpl. 8 m                              | 244.45.80 |                                       |           |
|    |   | <i>Outer Cover Hose, cpl. 8 m</i>                     |           |                                       |           |
|    |   | Überzugschlauch kpl. 10 m                             | 244.45.00 |                                       |           |
|    |   | <i>Outer Cover Hose, cpl. 10 m</i>                    |           |                                       |           |
|    |   | Haltenippel, kurz für Spiralen 4.0 mm                 | 241.56.40 |                                       |           |
|    |   | <i>Collet for Steel Liner 4.0 mm</i>                  |           |                                       |           |
| 71 |   | Haltenippel, kurz für Spiralen 4.5 mm                 | 241.56.45 |                                       |           |
|    |   | <i>Collet for Steel Liner 4.5 mm</i>                  |           |                                       |           |
|    |   | Haltenippel, für Teflonseele 4.0 mm                   | 215.57.40 |                                       |           |
|    |   | <i>Collet for Teflon Liner 4.0 mm</i>                 |           |                                       |           |
| 72 |   | Haltenippel, für Teflonseele 4.7 mm                   | 241.57.47 |                                       |           |
|    |   | <i>Collet for Teflon Liner 4.7 mm</i>                 |           |                                       |           |
| 71 |   | O - Ring  | 003.15.00 |                                       |           |
|    |   | <i>O - Ring</i>                                       |           |                                       |           |
| 72 | <b>DF-Spiralen u. Teflonseelen</b><br><i>Steel- and Teflon Liners</i> | DF-Spirale / <i>Steel Liner</i> 1.5 x 4.0 mm / 4 m    | 340.15.41 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 1.5 x 4.0 mm / 6 m    | 340.15.61 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 1.5 x 4.0 mm / 8 m    | 340.15.81 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 1.5 x 4.0 mm / 10 m   | 340.15.11 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 1.5 x 4.0 mm / 4 m  | 341.15.40 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 1.5 x 4.0 mm / 6 m  | 341.15.60 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 1.5 x 4.0 mm / 8 m  | 341.15.80 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 1.5 x 4.0 mm / 10 m | 341.15.10 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.0 x 4.0 mm / 4 m  | 341.20.40 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.0 x 4.0 mm / 6 m  | 341.20.60 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.0 x 4.0 mm / 8 m  | 341.20.80 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.0 x 4.0 mm / 10 m | 341.20.10 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.0 x 4.5 mm / 4 m    | 345.20.41 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.0 x 4.5 mm / 6 m    | 345.20.61 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.0 x 4.5 mm / 8 m    | 345.20.81 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.0 x 4.5 mm / 10 m   | 345.20.11 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.5 x 4.5 mm / 4 m    | 345.25.41 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.5 x 4.5 mm / 6 m    | 345.25.61 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.5 x 4.5 mm / 8 m    | 345.25.81 |                                       |           |
|    |   | DF-Spirale / <i>Steel Liner</i> 2.5 x 4.5 mm / 10 m   | 345.25.11 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.7 x 4.7 mm / 4 m  | 347.27.40 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.7 x 4.7 mm / 6 m  | 347.27.60 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.7 x 4.7 mm / 8 m  | 347.27.80 |                                       |           |
|    |   | Teflonseele / <i>Teflon Liner</i> 2.7 x 4.7 mm / 10 m | 347.27.10 |                                       |           |
|    |   | 80  |           | Steuerplatine PP                      | 266.21.00 |
|    |   |   |           | <i>Printed Circuit Board PP (PCB)</i> |           |
|    |   |   |           | Steuerplatine PP-24 V Motor           | 266.21.24 |
|    |   | 90  |           | <i>PCB 24 V Motor</i>                 |           |
|    |   |   |           | Tuchelstecker 5 polig (standard)      | T3012002  |
|    |   |   |           | <i>Tuchel Plug 5-pole</i>             |           |