

**gna 7x**

**Panoramica prodotti**



**Products overview**



**Produktuebersicht**



**Gamme de produits**



P  
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09/09/2011

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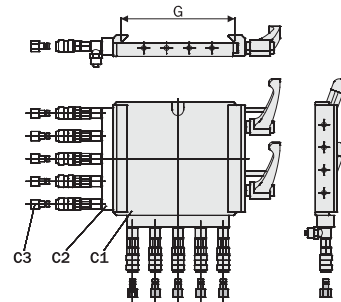
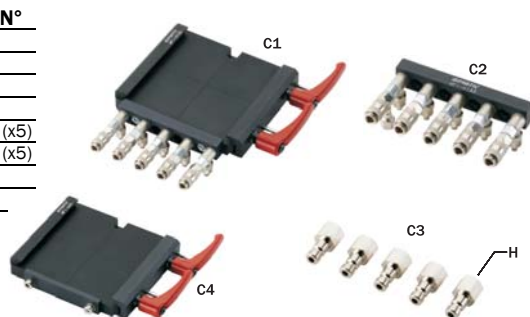
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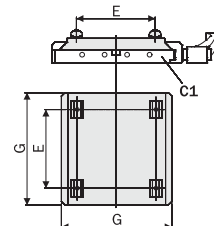
Cambia utensile (lato robot) / Quick changer (robot side) / Schnellwerkzeugwechsler (Robotseite) / Changeur d'outil rapide (Côté robot)

|                 | G [mm] | H    | m [g]   | N° |
|-----------------|--------|------|---------|----|
| <b>MFI-A130</b> | C1     | 100  | 620     |    |
| <b>MFI-A131</b> | C1     | 160  | 1650    |    |
| <b>MFI-A133</b> | C2     |      | 140     |    |
| <b>MFI-A132</b> | C2     |      | 450     |    |
| <b>MFI-A135</b> | C3     | M5   | 17 (x5) |    |
| <b>MFI-A134</b> | C3     | G1/8 | 40 (x5) |    |
| <b>MFI-A40</b>  | C4     |      | 500     |    |
| <b>MFI-A42</b>  | C4     |      | 1270    |    |



Cambia utensile (lato pinza) / Quick changer (gripper side) / Schnellwerkzeugwechsler (Greifenseite) / Changeur d'outil rapide (Côté pince)

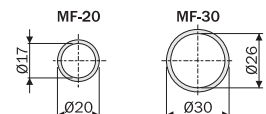
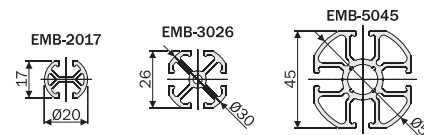
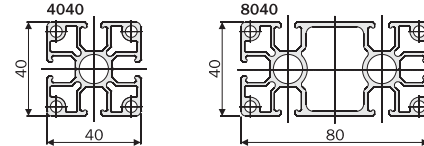
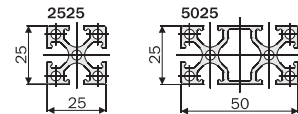
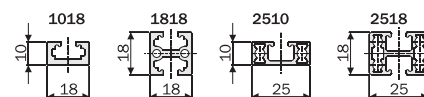
|                 | E [mm] | G [mm] | m [g] |
|-----------------|--------|--------|-------|
| <b>MFI-A130</b> | 70     | 100    | 270   |
| <b>MFI-A131</b> | 120    | 160    | 670   |


Profil estrusi  
Extruded profiles  
Aluprofile  
Profilé-filé

Tappi  
Plugs  
Verschluss  
Bouchon

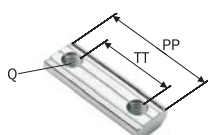

|                      | L [m] | m [g] |
|----------------------|-------|-------|
| <b>EMB-1018-1000</b> | 1     | 250   |
| <b>EMB-1018-2000</b> | 2     | 500   |
| <b>EMB-1818-1000</b> | 1     | 380   |
| <b>EMB-1018-2000</b> | 2     | 760   |
| <b>EMB-2510-1000</b> | 1     | 280   |
| <b>EMB-2510-2000</b> | 2     | 560   |
| <b>EMB-2518-1000</b> | 1     | 400   |
| <b>EMB-2518-2000</b> | 2     | 800   |
| <b>EMB-2525-1000</b> | 1     | 610   |
| <b>EMB-2525-2000</b> | 2     | 1220  |
| <b>EMB-5025-1000</b> | 1     | 1040  |
| <b>EMB-5025-2000</b> | 2     | 2080  |
| <b>EMB-4040-1000</b> | 1     | 1300  |
| <b>EMB-4040-2000</b> | 2     | 2600  |
| <b>EMB-8040-1000</b> | 1     | 2180  |
| <b>EMB-8040-2000</b> | 2     | 4360  |

| N°                   |
|----------------------|
| <b>MFI-A24</b> (x10) |
| <b>MFI-A24</b> (x10) |
| <b>MFI-A23</b> (x10) |
| <b>MFI-A23</b> (x10) |
| <b>MFI-A27</b> (x10) |
| <b>MFI-A27</b> (x10) |
| <b>MFI-A28</b> (x10) |
| <b>MFI-A28</b> (x10) |
| <b>MFI-A21</b> (x10) |
| <b>MFI-A21</b> (x10) |
| <b>MFI-A22</b> (x10) |
| <b>MFI-A22</b> (x10) |
| <b>MFI-A25</b> (x10) |
| <b>MFI-A25</b> (x10) |
| <b>MFI-A26</b> (x10) |
| <b>MFI-A26</b> (x10) |



Dadi / T-Nuts / Mutter / Écrous

|                | Q  | PP [mm] | TT [mm] | m [g] |
|----------------|----|---------|---------|-------|
| <b>MFI-177</b> | M4 | 15      |         | 5     |
| <b>MFI-025</b> | M5 | 15      |         | 5     |
| <b>MFI-178</b> | M6 | 15      |         | 5     |
| <b>MFI-003</b> | M4 | 16      | 8       | 5     |
| <b>MFI-006</b> | M5 | 20      | 10      | 7     |
| <b>MFI-009</b> | M5 | 25      | 15      | 9     |
| <b>MFI-148</b> | M5 | 25      | 20      | 9     |
| <b>MFI-016</b> | M5 | 32      | 22      | 11    |
| <b>MFI-027</b> | M5 | 35      | 25      | 13    |
| <b>MFI-055</b> | M5 | 38      | 28      | 14    |
| <b>MFI-050</b> | M5 | 40      | 30      | 15    |
| <b>MFI-029</b> | M5 | 45      | 35      | 16    |
| <b>MFI-020</b> | M5 | 50      | 40      | 18    |
| <b>MFI-043</b> | M5 | 60      | 50      | 22    |
| <b>MFI-022</b> | M5 | 70      | 60      | 26    |
| <b>MFI-045</b> | M5 | 100     | 90      | 38    |





**Moduli di fissaggio | Modular clamping system**  
**Klemmstücke | Modules de fixation**

Interfaccia / Interface / Schnittstelle / Interface

|                 | per /for / für / pour | m [g] |
|-----------------|-----------------------|-------|
| <b>MFI-A102</b> | QC90-B                | 160   |
| <b>MFI-A103</b> | QC150-B               | 490   |



Staffa in acciaio inox per fissaggio a 90° di profili / Stainless steel angle bracket for profiles  
 Winkelverbinder 90° aus Edelstahl für Profile/ Bride à angle droit en acier inox pour fixation

|                 |       | m [g] |
|-----------------|-------|-------|
| <b>MFI-A140</b> | 24x24 | 33    |
| <b>MFI-A141</b> | 49x49 | 82    |



Staffa per fissaggio a croce di profili / Cross mounting bracket for profiles  
 Kreuzplatte für Profile/ Bride pour fixation à croix de profiles

|                 | AA [mm] | AB [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A11</b>  | 25      | 25      | 75    |
| <b>MFI-A12</b>  | 50      | 50      | 170   |
| <b>MFI-A13</b>  | 25      | 50      | 155   |
| <b>MFI-A29</b>  | 40      | 40      | 85    |
| <b>MFI-A30</b>  | 80      | 80      | 255   |
| <b>MFI-A31</b>  | 40      | 80      | 175   |
| <b>MFI-A32</b>  | 25      | 80      | 140   |
| <b>MFI-A33</b>  | 35      | 40      | 75    |
| <b>MFI-A175</b> | 18      | 18      | 40    |



Staffa (quadra) per fissaggio a croce / Cross (square) joint connector  
 Kreuzverbinder (quadratisch) / Bride (carrée) pour fixation à croix

|                | AC [mm] | AE [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFI-A16</b> | 25      | 25      | 45    |
| <b>MFI-A17</b> | 50      | 50      | 65    |
| <b>MFI-A18</b> | 25      | 50      | 50    |



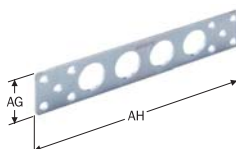
Staffa (tonda) per fissaggio a croce / Cross (round) joint connector  
 Kreuzverbinder (rund) / Bride (ronde) pour fixation à croix

|                 | AT [mm] | m [g] |
|-----------------|---------|-------|
| <b>MFI-A156</b> | Ø10     | 15    |
| <b>MFI-A37</b>  | Ø14     | 32    |
| <b>MFI-A38</b>  | Ø20     | 45    |
| <b>MFI-A39</b>  | Ø30     | 75    |
| <b>MFI-A178</b> | Ø50     | 150   |



Connettore piatto dritto / Flat straight connector  
 Endplatte / Connecteur plat droit

|                 | AG [mm] | AH [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A19</b>  | 28      | 148     | 60    |
| <b>MFI-A20</b>  | 53      | 148     | 100   |
| <b>MFI-A100</b> | 53      | 104     | 75    |
| <b>MFI-A101</b> | 28      | 104     | 50    |
| <b>MFI-A201</b> | 28      | 158     | 65    |
| <b>MFI-A202</b> | 53      | 104     | 110   |



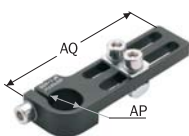
Staffa / Mounting bracket / Winkelklemmstück / Bride de fixation

|                 | AL [mm] | AM [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A01</b>  | Ø10     | 18      | 20    |
| <b>MFI-A02</b>  | Ø14     | 25      | 34    |
| <b>MFI-A03</b>  | Ø20     | 40      | 48    |
| <b>MFI-A204</b> | Ø20     | 25      | 45    |



Staffa / Mounting bracket / Winkelklemmstück / Bride de fixation

|                | AP [mm] | AQ [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFI-A04</b> | Ø10     | 70      | 23    |
| <b>MFI-A05</b> | Ø14     | 75      | 38    |
| <b>MFI-A06</b> | Ø14     | 85      | 40    |
| <b>MFI-A07</b> | Ø20     | 105     | 55    |
| <b>MFI-A08</b> | Ø30     | 115     | 95    |



Staffa esecuzione robusta / Heavy duty mounting bracket  
 Winkelklemmstück robuste Ausführung / Bride de fixation robuste exécution

|                 | AS [mm] | AT [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A207</b> | Ø10     | 40      | 30    |
| <b>MFI-A209</b> | Ø14     | 50      | 60    |
| <b>MFI-A205</b> | Ø20     | 60      | 85    |
| <b>MFI-A206</b> | Ø30     | 60      | 175   |



**Moduli di fissaggio | Modular clamping system**  
**Klemmstücke | Modules de fixation**

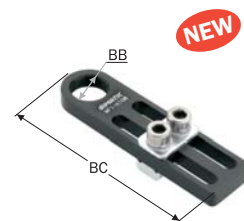
Staffa / Mounting bracket / Winkelklemmstück / Bride de fixation

|                | BA [mm] | m [g] |
|----------------|---------|-------|
| <b>MFI-A09</b> | Ø14     | 50    |
| <b>MFI-A10</b> | Ø20     | 70    |
| <b>MFI-A36</b> | Ø20     | 95    |
| <b>MFI-A34</b> | Ø30     | 90    |
| <b>MFI-A35</b> | Ø30     | 150   |



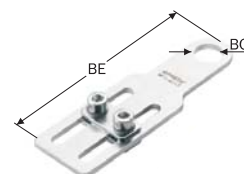
Staffa / Mounting bracket / Winkelklemmstück / Bride de fixation

|                 | BB [mm] | BC [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A104</b> | G1/8"   | 75      | 25    |
| <b>MFI-A105</b> | G1/8"   | 105     | 42    |
| <b>MFI-A106</b> | M10x1   | 75      | 30    |
| <b>MFI-A107</b> | M10x1   | 105     | 40    |
| <b>MFI-A108</b> | M14x1   | 75      | 20    |
| <b>MFI-A109</b> | M14x1   | 105     | 40    |
| <b>MFI-A210</b> | M14x1.5 | 75      | 20    |
| <b>MFI-A211</b> | M14x1.5 | 105     | 40    |
| <b>MFI-A110</b> | M16x1   | 75      | 20    |
| <b>MFI-A111</b> | M16x1   | 105     | 40    |
| <b>MFI-A112</b> | M20.5x1 | 75      | 30    |
| <b>MFI-A113</b> | M20.5x1 | 105     | 35    |
| <b>MFI-A114</b> | /       | 75      | 25    |
| <b>MFI-A115</b> | /       | 105     | 40    |



Staffa / Mounting bracket / Winkelklemmstück / Bride de fixation

|                 | BG [mm] | BE [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A116</b> | Ø10.5   | 100     | 60    |
| <b>MFI-A117</b> | Ø12.5   | 100     | 60    |
| <b>MFI-A118</b> | Ø14.5   | 100     | 60    |
| <b>MFI-A119</b> | Ø16.5   | 100     | 65    |
| <b>MFI-A120</b> | Ø20.5   | 100     | 60    |
| <b>MFI-A181</b> | Ø22.5   | 100     | 105   |
| <b>MFI-A182</b> | Ø25.5   | 100     | 100   |
| <b>MFI-A121</b> | Ø10.5   | 65      | 45    |
| <b>MFI-A122</b> | Ø12.5   | 65      | 45    |
| <b>MFI-A123</b> | Ø14.5   | 65      | 45    |
| <b>MFI-A124</b> | Ø16.5   | 65      | 45    |
| <b>MFI-A125</b> | Ø20.5   | 65      | 40    |
| <b>MFI-A183</b> | Ø22.5   | 70      | 75    |
| <b>MFI-A184</b> | Ø25.5   | 70      | 70    |



Staffa per attacco diretto ventosa / Direct connector for vacuum cup  
 Saugersanschluss / Bride de fixation directe ventouse

|                | BL [mm] | BH [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFI-A46</b> | G1/8"   | G1/8"   | 42    |
| <b>MFI-A47</b> | G1/4"   | G1/8"   | 40    |



Staffa per ventosa / Mounting bracket for vacuum cup  
 Winkelstück für Saugnapf / Bride pour ventouse

|                | BM [mm] | BP [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFI-A48</b> | M5      | M5      | 15    |
| <b>MFI-A49</b> | G1/8"   | G1/8"   | 45    |
| <b>MFI-A50</b> | G1/4"   | G1/8"   | 45    |



Staffa lunga per ventosa / Long mounting bracket for vacuum cup  
 Langes Winkelstück für Saugnapf / Bride longue pour ventouse

|                | BQ [mm] | BT [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFI-A51</b> | M5      | M5      | 20    |
| <b>MFI-A52</b> | G1/8"   | G1/8"   | 60    |
| <b>MFI-A53</b> | G1/4"   | G1/8"   | 60    |



Staffa ad angolo regolabile per ventosa / Adjustable angle connector for vacuum cup  
 Winkelstück 360° drehbar für Saugnapf / Bride à angle réglable pour ventouse

|                | CA [mm] | CB [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFI-A54</b> | M5      | M5      | 15    |
| <b>MFI-A55</b> | G1/8"   | G1/8"   | 45    |
| <b>MFI-A56</b> | G1/4"   | G1/8"   | 42    |



**Moduli di fissaggio | Modular clamping system**  
**Klemmstücke | Modules de fixation**

Gambo per ventosa / Leg for vacuum cup  
 Greifarm für Saugnapf / Tige pour ventouse

|                 | CM [mm] | CE [mm] | CH [mm] | m [g] |
|-----------------|---------|---------|---------|-------|
| <b>MFI-A170</b> | M5      | M5      | Ø10     | 10    |
| <b>MFI-A171</b> | M5      | M5      | Ø10     | 13    |
| <b>MFI-A172</b> | M5      | M5      | Ø10     | 17    |
| <b>MFI-A71</b>  | G1/8"   | G1/8"   | Ø14     | 17    |
| <b>MFI-A72</b>  | G1/8"   | G1/8"   | Ø14     | 25    |
| <b>MFI-A73</b>  | G1/8"   | G1/8"   | Ø14     | 32    |
| <b>MFI-A74</b>  | G1/4"   | G1/8"   | Ø20     | 40    |
| <b>MFI-A75</b>  | G1/4"   | G1/8"   | Ø20     | 60    |
| <b>MFI-A76</b>  | G1/4"   | G1/8"   | Ø20     | 75    |



Gambo con cravatta / Clamp leg  
 Winkelarm mit Klemmstück / Tige avec élément de serrage

|                 | CP [mm] | CT [mm] | CQ [mm] | m [g] |
|-----------------|---------|---------|---------|-------|
| <b>MFI-A93</b>  | Ø10     | Ø10     | 15      | 8     |
| <b>MFI-A203</b> | Ø10     | Ø10     | 15      | 8     |
| <b>MFI-A158</b> | Ø10     | Ø10     | 30      | 10    |
| <b>MFI-A159</b> | Ø10     | Ø10     | 60      | 15    |
| <b>MFI-A160</b> | Ø10     | Ø10     | 90      | 20    |
| <b>MFI-A157</b> | Ø14     | Ø14     | 20      | 15    |
| <b>MFI-A161</b> | Ø14     | Ø14     | 40      | 20    |
| <b>MFI-A162</b> | Ø14     | Ø14     | 80      | 30    |
| <b>MFI-A163</b> | Ø14     | Ø14     | 120     | 40    |
| <b>MFI-A94</b>  | Ø20     | Ø20     | 25      | 38    |
| <b>MFI-A77</b>  | Ø20     | Ø20     | 50      | 45    |
| <b>MFI-A78</b>  | Ø20     | Ø20     | 100     | 70    |
| <b>MFI-A79</b>  | Ø20     | Ø20     | 150     | 105   |
| <b>MFI-A95</b>  | Ø30     | Ø20     | 25      | 63    |
| <b>MFI-A164</b> | Ø30     | Ø30     | 80      | 170   |
| <b>MFI-A165</b> | Ø30     | Ø30     | 140     | 230   |
| <b>MFI-A166</b> | Ø30     | Ø30     | 200     | 300   |



Blocco distributore laterale (1 canale)  
 Side manifold block (1 channel)  
 Verteilerblock (1 Kanal)  
 Bloc distributeur latéral (1 canal)

|                | EA         | m [g] |
|----------------|------------|-------|
| <b>MFI-A68</b> | G1/8" (x5) | 30    |
| <b>MFI-A69</b> | G1/8" (x9) | 50    |



Blocco distributore laterale (2 canali)  
 Side manifold block (2 channels)  
 Verteilerblock (2 Kanäle)  
 Bloc distributeur latéral (2 canaux)

|                | EB          | m [g] |
|----------------|-------------|-------|
| <b>MFI-A70</b> | G1/8" (5+5) | 48    |



Blocco distributore / Side manifold block (2 channels)  
 Luftverteiler / Bloc distributeur

|                | EC         | m [g] |
|----------------|------------|-------|
| <b>MFI-A66</b> | G1/8" (x5) | 50    |
| <b>MFI-A67</b> | G1/4" (x5) | 80    |



Gomito con cravatta / Elbow arm  
 Gelenkam mit Klemmstück / Coude avec cravate

|                 | EG [mm] | EE [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A59</b>  | Ø10     | Ø10     | 20    |
| <b>MFI-A60</b>  | Ø14     | Ø14     | 32    |
| <b>MFI-A61</b>  | Ø14     | Ø14     | 42    |
| <b>MFI-A62</b>  | Ø14     | Ø14     | 50    |
| <b>MFI-A63</b>  | Ø20     | Ø20     | 70    |
| <b>MFI-A64</b>  | Ø20     | Ø20     | 90    |
| <b>MFI-A65</b>  | Ø20     | Ø20     | 120   |
| <b>MFI-A167</b> | Ø30     | Ø30     | 235   |
| <b>MFI-A168</b> | Ø30     | Ø30     | 300   |
| <b>MFI-A169</b> | Ø30     | Ø30     | 360   |



Gomito con cravatta esecuzione robusta/ Heavy duty elbow arm  
 Gelenkam mit Klemmstück robuste Ausführung / Coude avec cravate exécution robuste

|                 | ES [mm] | ET [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A195</b> | Ø20     | 50      | 95    |
| <b>MFI-A199</b> | Ø20     | 80      | 330   |
| <b>MFI-A200</b> | Ø20     | 140     | 380   |
| <b>MFI-A196</b> | Ø30     | 200     | 435   |
| <b>MFI-A197</b> | Ø30     | 100     | 115   |
| <b>MFI-A198</b> | Ø30     | 150     | 130   |



**Moduli di fissaggio | Modular clamping system**  
**Klemmstücke | Modules de fixation**

Gomito per ventosa / Elbow arm for vacuum cup  
 Gelenkam für Saugnapf / Coude pour ventouse

|                 | EL [mm] | EH [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A142</b> | M5      | Ø10     | 18    |
| <b>MFI-A143</b> | M5      | Ø10     | 27    |
| <b>MFI-A144</b> | G1/8"   | Ø14     | 33    |
| <b>MFI-A145</b> | G1/8"   | Ø14     | 50    |
| <b>MFI-A146</b> | G1/8"   | Ø20     | 60    |
| <b>MFI-A147</b> | G1/8"   | Ø20     | 100   |
| <b>MFI-A148</b> | G1/4"   | Ø20     | 75    |
| <b>MFI-A149</b> | G1/4"   | Ø20     | 115   |



Gomito per ventosa / Elbow arm for vacuum cup  
 Gelenkam für Saugnapf / Coude pour ventouse

|                 | EP [mm] | EQ [mm] | m [g] |
|-----------------|---------|---------|-------|
| <b>MFI-A154</b> | M5      | Ø10     | 10    |
| <b>MFI-A155</b> | M5      | Ø10     | 15    |
| <b>MFI-A150</b> | G1/8"   | Ø14     | 15    |
| <b>MFI-A151</b> | G1/8"   | Ø14     | 25    |
| <b>MFI-A152</b> | G1/4"   | Ø20     | 30    |
| <b>MFI-A153</b> | G1/4"   | Ø20     | 55    |



Staffa per il montaggio di tre unità  
 Mounting bracket for three units  
 Befestigungsplatte zur Befestigung von drei Einheiten  
 Bride pour le montage de trois unités

|                 | ET [mm] | m [g] |
|-----------------|---------|-------|
| <b>MFI-A194</b> | Ø20     | 200   |



Staffa per il montaggio della pinza OFP20 su profilo  
 OFP20 gripper mounting bracket, to use with profile  
 Bügel zur Befestigung des Greifers OFP20 an Profil  
 Bride pour le montage de la pince OFP20 sur profil

|                 | m [g] |
|-----------------|-------|
| <b>MFI-A176</b> | 95    |



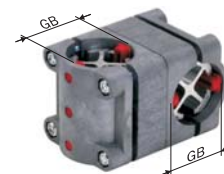
Kit di bloccaggio per estruso / Single block assembly  
 Klemmstücke für Einzel-Pressprofil / Kit de blocage pour profilé-filé

|                 | GA [mm] | m [g] |
|-----------------|---------|-------|
| <b>MFI-A188</b> | Ø20     | 48    |
| <b>MFI-A189</b> | Ø30     | 77    |
| <b>MFI-A190</b> | Ø50     | 510   |



Kit di bloccaggio per doppio estruso  
 Double block assembly  
 Klemmstücke für Doppel-Pressprofil  
 Kit de blocage pour double

|                 | GA [mm] | m [g] |
|-----------------|---------|-------|
| <b>MFI-A191</b> | Ø20     | 48    |
| <b>MFI-A192</b> | Ø30     | 77    |
| <b>MFI-A193</b> | Ø50     | 510   |



Linguette di centraggio tonde / Rounded centering feather keys  
 Abgerundete Zentrierfederkeile / Languettes de centrage rondes

|                 | per / for / für / pour | m [g] | N°    |
|-----------------|------------------------|-------|-------|
| <b>MFI-A185</b> | EMB-2017               | 10    | (x10) |
| <b>MFI-A186</b> | EMB-3026               | 20    | (x10) |
| <b>MFI-A187</b> | EMB-5045               | 40    | (x10) |



Basetta per fissaggio pinza con tubo Ø20 (kit completo di viti)  
 Gripper mounting bracket with Ø20 stud (kit with screws)  
 Befestigungshalter für Greifer mit Rohr Ø20 (Kit mit Schrauben)  
 Petite base pour fixation pince avec tube Ø20 (kit complet de vis)

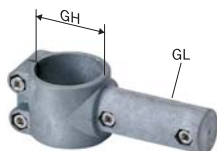
|                | per / for / für / pour | GG [mm] | m [g] |
|----------------|------------------------|---------|-------|
| <b>MFP-A01</b> | AA/GS-16/GW-16/SGP-32S | Ø20     | (x10) |
| <b>MFP-A04</b> | GS-10/GW-10/SGP-25S    | Ø10     | (x10) |



**Moduli di fissaggio | Modular clamping system**  
**Klemmstücke | Modules de fixation**

Staffa (kit con 2 semicorpi + viti)  
*Mounting bracket (2 half-pieces + screws)*  
 Klemmstück (Kit mit 2 Halbstücken + Schrauben)  
*Bride (kit avec 2 demi-corps + vis)*

|                | GH [mm] | GL [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFP-A05</b> | Ø36     | Ø20     | 54    |
| <b>MFP-A06</b> | Ø45     | Ø20     | 65    |
| <b>MFP-A07</b> | Ø56     | Ø20     | 82    |
| <b>MFP-A08</b> | Ø30     | Ø20     | 48    |



Staffa Ø20-10 (kit con 2 semicorpi + viti)  
*Mounting bracket Ø20-10 (2 half-pieces + screws)*  
 Klemmstück Ø20-10 (Kit mit 2 Halbstücken + Schrauben)  
*Bride Ø20-10 (kit avec 2 demi-corps + vis)*

|                | GP [mm] | GT [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFP-A03</b> | Ø10     | Ø20     | 35    |



Giunto angolare in plastica (kit con 2 semicorpi + viti)  
*Polymer T connector (2 half-pieces + screws)*  
 Winkelklemmstück aus Kunststoff (Kit mit 2 Halbstücken + Schrauben)  
*Connexion angulaire en plastique (kit avec 2 demi-coquilles + vis)*

|                | HA [mm] | m [g] |
|----------------|---------|-------|
| <b>MFP-A02</b> | Ø20     | 53    |
| <b>MFP-A09</b> | Ø30     | 82    |



Giunto angolare in acciaio (kit con 2 semicorpi + viti)  
*Steel T connector (2 half-pieces + screws)*  
 Winkelklemmstück aus Stahl (Kit mit 2 Halbstücken + Schrauben)  
*Connexion angulaire en acier (kit avec 2 demi-coquilles + vis)*

|                | HB [mm] | m [g] |
|----------------|---------|-------|
| <b>MFM-A02</b> | Ø20     | 200   |
| <b>MFM-A09</b> | Ø30     | 328   |
| <b>MFM-A85</b> | Ø50     | 660   |



Staffa in acciaio (kit completo di viti)  
*Steel mounting bracket (kit with screws)*  
 Klemmstück aus Stahl (Kit mit Schrauben)  
*Bride en acier (kit complet de vis)*

|                | HC [mm] | m [g] |
|----------------|---------|-------|
| <b>MFM-A30</b> | Ø30     | 69    |
| <b>MFM-A36</b> | Ø36     | 75    |
| <b>MFM-A45</b> | Ø45     | 80    |
| <b>MFM-A56</b> | Ø56     | 102   |



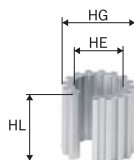
Staffa in alluminio (kit completo di viti)  
*Aluminium mounting bracket (kit with screws)*  
 Klemmstück aus Aluminium (Kit mit Schrauben)  
*Bride en aluminium (kit complet de vis)*

|                | m [g] |
|----------------|-------|
| <b>MFM-A11</b> | 308   |



Linguette di centraggio tonde / *Rounded centering feather keys*  
 Abgerundete Zentrierfederkeile / *Languettes de centrage rondes*

|                   | HE [mm] | HG [mm] | HL [mm] | m [g] |
|-------------------|---------|---------|---------|-------|
| <b>MFM-A55-38</b> | Ø14     | Ø20     | 38      | 16    |
| <b>MFM-A55-48</b> | Ø14     | Ø20     | 48      | 19    |
| <b>MFM-A106</b>   | Ø16     | Ø20     | 12      | 5     |
| <b>MFM-A10-20</b> | Ø20     | Ø30     | 20      | 13    |
| <b>MFM-A10-30</b> | Ø20     | Ø30     | 30      | 21    |
| <b>MFM-A10-48</b> | Ø20     | Ø30     | 48      | 33    |
| <b>MFM-A105</b>   | Ø24     | Ø30     | 12      | 8     |
| <b>MFM-A96</b>    | Ø30     | Ø50     | 65      | 240   |



**Moduli di fissaggio | Modular clamping system**  
**Klemmstücke | Modules de fixation**

Supporto orientabile / *Hinge with stud*  
 Gelenkhalter mit Rohr / *Support orientable*

|                | HP [mm] | m [g] |
|----------------|---------|-------|
| <b>MFM-A17</b> | Ø20     | 56    |
| <b>MFM-A18</b> | Ø30     | 82    |



Supporto per sospensione  
*Holder for suspensions*  
 Halter für gefederte Aufhängung  
*Support pour bras porte ventouse à ressort*

|                | HQ [mm] | HT [mm] | m [g] |
|----------------|---------|---------|-------|
| <b>MFM-A19</b> | Ø10.5   | Ø20     | 52    |
| <b>MFM-A20</b> | Ø12.5   | Ø20     | 52    |
| <b>MFM-A21</b> | Ø14.5   | Ø20     | 52    |
| <b>MFM-A22</b> | Ø16.5   | Ø30     | 84    |
| <b>MFM-A23</b> | Ø20.5   | Ø30     | 86    |



Interfaccia tubi con QC...B (kit completo di viti)  
*Interface between tubes and QC...B (kit with screws)*  
 Schnittstelle für Röhre zur Befestigung an QC...B (Kit mit Schrauben)  
*Interface tubes avec QC...B (kit complet de vis)*

|                | MB [mm] | m [g] |
|----------------|---------|-------|
| <b>MFM-A12</b> | Ø20     | 395   |
| <b>MFM-A16</b> | Ø30     | 1030  |



Blocchetto di fissaggio per pinza serie PB  
*Mounting connector for gripper series PB*  
 Befestigungsteil für Greifer Baureihe PB  
*Cale de fixage pour pince de préhension série PB*

|                | m [g] |
|----------------|-------|
| <b>MFM-A57</b> | 25    |



Interfaccia per pinze completa di viti  
*Interface for grippers with screws*  
 Schnittstelle für Greifer mit Schrauben  
*Interface pour pinces complète de vis*

|             | per / for / für / pour  | MC [mm] | m [g] |
|-------------|-------------------------|---------|-------|
| <b>i30K</b> | GS-10/GW-10             | G1/8    | 9     |
| <b>i31K</b> | GS-16/GW-16             | G1/8    | 14    |
| <b>i32K</b> | GS-20/GW-20             | G1/8    | 21    |
| <b>i33K</b> | GS-25/GW-25             | M15x1   | 43    |
| <b>i34K</b> | AA-22/AA-23/AA-26/AA-35 | M10x1   | 65    |
| <b>i35K</b> | AA-25                   | M10x1   | 65    |
| <b>i36K</b> | PE-16/PE-1625/PE-1640   | M16x1   | 190   |
| <b>i37K</b> | pinze AA/SGP-32/GS-16   | M10x1   | 85    |



Tubo di prolunga / *Extension tube*  
 Verlängerungsrohr / *Tube de rallonge*

|                 | MH [mm] | MP [mm] | MQ [mm] | m [g] |
|-----------------|---------|---------|---------|-------|
| <b>OF14L80</b>  | M12x1   | Ø14     | 80      | 10    |
| <b>OF20L100</b> | M17x1   | Ø20     | 100     | 30    |
| <b>OF30L120</b> | M27x1   | Ø30     | 120     | 65    |



Ribaltatori / *Tilt units*  
Kippeinheiten / *Culbuteurs*

## RBT

|              | C [Ncm] | m [g] |
|--------------|---------|-------|
| <b>RBT40</b> | >2400   | 1050  |
| <b>RBT50</b> | >4500   | 1635  |
| <b>RBT63</b> | >7800   | 2390  |



Ribaltatore per piccoli EOAT / *Tilt unit for small EOATs*  
Kippeinheit für kleine EOAT / *Basculeur pour petits EOAT*

## OFN

|                 | C [Ncm] | m [g] |
|-----------------|---------|-------|
| <b>OFN30-90</b> | 300     | 210   |



Cambia utensile / *Quick changer*  
Werkzeugwechsler / *Changeur d'outil*

## QC

|                | m [g] |
|----------------|-------|
| <b>QC50-A</b>  | 103   |
| <b>QC50-B</b>  | 65    |
| <b>QC90-A</b>  | 318   |
| <b>QC90-B</b>  | 227   |
| <b>QC150-A</b> | 1123  |
| <b>QC150-B</b> | 827   |



Attuatore pneumatico per cambia utensile QC  
*Pneumatic actuator for quick changer QC*  
Pneumatischer Antrieb für Werkzeugwechsler QC  
*Vérin pneumatique pour changeur d'outil QC*

## AQC

|               | m [g] |
|---------------|-------|
| <b>AQC90</b>  | 560   |
| <b>AQC150</b> | 1480  |



Modulo di connessione elettrica / *Electrical connection module*  
Stromverbindungsmodul / *Module de connexion électrique*

## C-QC

|             | m [g] |
|-------------|-------|
| <b>CAQC</b> | 30    |
| <b>CBQC</b> | 30    |
| <b>CEQC</b> | 150   |



Scatola di derivazione per sensori / *Sensor box*  
Klemmenkasten / *Boîte de dérivation à capteurs*

## SB

|              | m [g] |
|--------------|-------|
| <b>SB8F</b>  | 165   |
| <b>SB2C</b>  | 120   |
| <b>SB4C</b>  | 160   |
| <b>SB6C</b>  | 190   |
| <b>SB8C</b>  | 235   |
| <b>SB12C</b> | 325   |
| <b>SB15</b>  | 150   |



Pinze per staffaggio angolari / *Angular grippers for clamping*  
Winkelspanngreifer / *Pinces pour bridage angulaire*

## OFA

|                  | C [Ncm] | s   | m [g] |
|------------------|---------|-----|-------|
| <b>OFA14-35</b>  | 26      | 35° | 25    |
| <b>OFA20-35</b>  | 100     | 35° | 65    |
| <b>OFA20-35S</b> | 100     | 35° | 86    |
| <b>OFA30-35</b>  | 430     | 35° | 206   |
| <b>OFA30-35S</b> | 430     | 35° | 272   |
| <b>OFA50-35</b>  | 1900    | 35° | 860   |
| <b>OFA50-35S</b> | 1900    | 35° | 1060  |



Pinze per staffaggio radiali / *Radial grippers for clamping*  
Radialspanngreifer / *Pinces pour bridage radiaux*

## OFR

|                  | C [Ncm] | s   | m [g] |
|------------------|---------|-----|-------|
| <b>OFR14-95</b>  | 19      | 95° | 25    |
| <b>OFR20-95</b>  | 70      | 95° | 60    |
| <b>OFR20-95S</b> | 70      | 95° | 81    |
| <b>OFR30-95</b>  | 300     | 95° | 193   |
| <b>OFR30-95S</b> | 300     | 95° | 257   |
| <b>OFR50-95</b>  | 1250    | 95° | 790   |
| <b>OFR50-95S</b> | 1250    | 95° | 990   |



Pinze per staffaggio radiali / *Radial grippers for clamping*  
Radialspanngreifer / *Pinces pour bridage radiaux*

## OFS

|                  | C [Ncm] | s   | m [g] |
|------------------|---------|-----|-------|
| <b>OFS20-90</b>  | 70      | 95° | 60    |
| <b>OFS20-90S</b> | 70      | 95° | 80    |
| <b>OFR30-90</b>  | 300     | 95° | 185   |
| <b>OFR30-90S</b> | 300     | 95° | 245   |



Pinze per staffaggio angolari, con dito in plastica  
*Angular grippers for clamping with finger in polymer*  
Winkelspanngreifer mit Plastikfinger  
*Pinces pour bridage angulaires avec doigt en plastique*

## OFP

|                  | C [Ncm] | s   | m [g] |
|------------------|---------|-----|-------|
| <b>OFP20N-20</b> | 100     | 21° | 35    |
| <b>OFP20S-20</b> | 100     | 21° | 35    |
| <b>OFP20V-20</b> | 100     | 21° | 35    |
| <b>OFP20P-20</b> | 100     | 21° | 35    |
| <b>OFP21N-20</b> | 100     | 21° | 45    |
| <b>OFP21S-20</b> | 100     | 21° | 45    |
| <b>OFP21V-20</b> | 100     | 21° | 45    |
| <b>OFP21P-20</b> | 100     | 21° | 45    |



Pinze per staffaggio perpendicolari / *Perpendicular grippers for clamping*  
Spanngreifer mit senkrechter Bewegung / *Pinces pour bridage perpendiculaires*

## OFX

|                 | F [N]   | s [mm] | m [g] |
|-----------------|---------|--------|-------|
| <b>OFX14-06</b> | 13÷63   | 6      | 30    |
| <b>OFX20-10</b> | 20÷115  | 10     | 65    |
| <b>OFX30-15</b> | 44÷230  | 15     | 190   |
| <b>OFX50-20</b> | 100÷900 | 20     | 740   |



Cilindro a corsa breve / *Short stroke cylinder*  
Kurzhubzylinder / *Vérin pneumatique à faible course*

## OFL

|                | F [N] | s [mm] | m [g] |
|----------------|-------|--------|-------|
| <b>OFL2010</b> | 130   | 10     | 60    |
| <b>OFL3015</b> | 300   | 15     | 110   |





**Pinze a 2 griffe | 2-jaw grippers**  
**2-Backen-greifer | Pincas à 2 mâchoires**

Pinze autocentranti per materozze / Self-centering sprue grippers  
 Selbstzentrierende Angußgreifer / Pincas auto-centrantes pour carottes

| <b>AA</b>       | <b>C [Ncm]</b> | <b>s</b> | <b>m [g]</b> |
|-----------------|----------------|----------|--------------|
| <b>AA-22</b>    | 300-300        | 2x20°    | 115          |
| <b>AA-22-NO</b> | 250-350        | 2x20°    | 115          |
| <b>AA-23</b>    | 300-300        | 2x20°    | 100          |
| <b>AA-23-NO</b> | 250-350        | 2x20°    | 100          |
| <b>AA-26</b>    | 300-300        | 2x20°    | 120          |
| <b>AA-26-NO</b> | 250-350        | 2x20°    | 120          |
| <b>AA-35</b>    | 300-300        | 2x20°    | 140          |
| <b>AA-35-NO</b> | 250-350        | 2x20°    | 140          |



Pinze non autocentranti per materozze / Non-self-centering sprue grippers  
 Nichtselbstzentrierende Angußgreifer / Pincas non auto-centrantes pour carottes

| <b>PB</b>      | <b>C [Ncm]</b> | <b>s</b> | <b>m [g]</b> |
|----------------|----------------|----------|--------------|
| <b>PB-0008</b> | 48             | 2x10°    | 15           |
| <b>PB-0013</b> | 160            | 2x15°    | 55           |
| <b>PB-0014</b> | 160            | 2x15°    | 50           |
| <b>PB-0015</b> | 120-50         | 2x16°    | 50           |
| <b>PB-0017</b> | 160            | 2x15°    | 45           |
| <b>PB-0140</b> | 160            | 2x15°    | 75           |
| <b>PB-0150</b> | 160            | 2x15°    | 75           |



Pinze non autocentranti per materozze / Non-self-centering sprue grippers  
 Nichtselbstzentrierende Angußgreifer / Pincas non auto-centrantes pour carottes

| <b>BB</b>       | <b>C [Ncm]</b> | <b>s</b> | <b>m [g]</b> |
|-----------------|----------------|----------|--------------|
| <b>BB-12-00</b> | 130-40         | 2x15°    | 76           |
| <b>BB-12-NO</b> | 120            | 2x15°    | 77           |
| <b>BB-13-NO</b> | 120            | 2x15°    | 91           |



Pinze autocentranti per materozze / Self-centering sprue grippers  
 Selbstzentrierende Angußgreifer / Pincas auto-centrantes pour carottes

| <b>DD</b>        | <b>C [Ncm]</b> | <b>s</b> | <b>m [g]</b> |
|------------------|----------------|----------|--------------|
| <b>DD20-16R</b>  | 600            | 2x15°    | 170          |
| <b>DD20-16RS</b> | 600            | 2x15°    | 190          |
| <b>DD20-16A</b>  | 600            | 2x15°    | 140          |
| <b>DD20-16AS</b> | 600            | 2x15°    | 160          |
| <b>DD20-16E</b>  | 600            | 2x15°    | 160          |
| <b>DD20-16ES</b> | 600            | 2x15°    | 180          |
| <b>DD20-16K</b>  | 600            | 2x15°    | 165          |
| <b>DD20-16KS</b> | 600            | 2x15°    | 185          |
| <b>DD20-16M</b>  | 600            | 2x15°    | 165          |
| <b>DD20-16W</b>  | 600            | 2x15°    | 165          |



**NEW**

Ora con sensori regolabili / Now with adjustable sensors  
 Jetzt mit einstellbaren Sensoren / Maintenant avec capteurs réglables

| <b>SGP-S</b>   | <b>F [N]</b> | <b>s</b> | <b>m [g]</b> |
|----------------|--------------|----------|--------------|
| <b>SGP-20S</b> | 40-46        | 2x2      | 33           |
| <b>SGP-25S</b> | 94-104       | 2x3      | 43           |
| <b>SGP-32S</b> | 120-134      | 2x4      | 86           |
| <b>SGP-40S</b> | 146-160      | 2x6      | 170          |



**Pinze a 2 griffe | 2-jaw grippers**  
**2-Backen-greifer | Pincas à 2 mâchoires**

Pinze parallele a 2 griffe / 2-jaw parallel-acting grippers  
 2-Backen-Parallelgreifer / Pincas parallèles à 2 mâchoires

| <b>GS</b>    | <b>F [N]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|--------------|--------------|---------------|--------------|
| <b>GS-10</b> | 28-36        | 2x2.3         | 45           |
| <b>GS-16</b> | 86-100       | 2x3.4         | 98           |
| <b>GS-20</b> | 186-212      | 2x5.2         | 207          |
| <b>GS-25</b> | 254-282      | 2x7.2         | 365          |
| <b>GS-32</b> | 430-500      | 2x11          | 645          |
| <b>GS-40</b> | 614-700      | 2x15          | 1155         |



Pinze angolari a 2 griffe / 2-jaw angular-acting grippers  
 2-Backen-Winkelgreifer / Pincas angulaires à 2 mâchoires

| <b>GW</b>    | <b>C [Ncm]</b> | <b>s</b> | <b>m [g]</b> |
|--------------|----------------|----------|--------------|
| <b>GW-10</b> | 16-22          | 2x20°    | 39           |
| <b>GW-16</b> | 72-90          | 2x20°    | 88           |
| <b>GW-20</b> | 156-178        | 2x20°    | 171          |
| <b>GW-25</b> | 320-356        | 2x20°    | 300          |



Mini pinze angolari a due griffe / 2-jaw angular-acting mini grippers  
 Mini-Winkelgreifer mit zwei Backen / Mini pincas angulaires à deux mâchoires

| <b>TFA</b>       | <b>C [Ncm]</b> | <b>s</b> | <b>m [g]</b> |
|------------------|----------------|----------|--------------|
| <b>TFA10-25</b>  | 34             | 2x12.5°  | 12           |
| <b>TFA14-25</b>  | 96             | 2x12.5°  | 30           |
| <b>TFA20-25</b>  | 430            | 2x12.5°  | 95           |
| <b>TFA20-25S</b> | 430            | 2x12.5°  | 120          |



Kit opzionale per la sospensione  
 Optional suspension kit  
 Kit für die Aufhängung optional  
 Kit pour suspension optionnel



Pinza ad aghi / Needle gripper  
 Nadelgreifer / Pincas à aiguilles

| <b>PT</b>    | <b>F [N]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|--------------|--------------|---------------|--------------|
| <b>PT-25</b> | 90           | 2x7           | 165          |



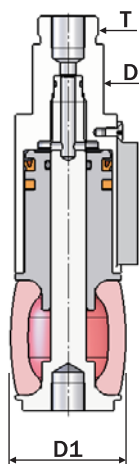
Pinza per agganciamento / Gripper for engagement  
 Kopplungsgreifer / Doigt de centrage

| <b>AGG</b>     | <b>m [g]</b> |
|----------------|--------------|
| <b>AGG30-B</b> | 380          |
| <b>AGG30-C</b> | 75           |



**MFD...CL**

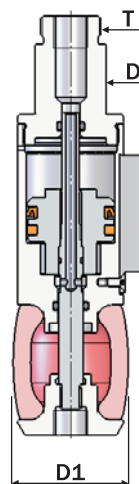
|            | T     | D [mm] | D1 [mm]   | m [g] |
|------------|-------|--------|-----------|-------|
| MFD08S01CL | M12x1 | Ø14    | Ø8+Ø11    | 15    |
| MFD08E02CL | M12x1 | Ø14    | Ø8+Ø11    | 15    |
| MFD10S01CL | M12x1 | Ø14    | Ø10.5+Ø14 | 16    |
| MFD10E02CL | M12x1 | Ø14    | Ø10.5+Ø14 | 16    |
| MFD12S01CL | M12x1 | Ø14    | Ø13+Ø17   | 17    |
| MFD12E02CL | M12x1 | Ø14    | Ø13+Ø17   | 17    |
| MFD14S01CL | M12x1 | Ø14    | Ø15+Ø19.5 | 18    |
| MFD14E02CL | M12x1 | Ø14    | Ø15+Ø19.5 | 18    |
| MFD18S01CL | M12x1 | Ø14    | Ø19.5+Ø25 | 28    |
| MFD18E02CL | M12x1 | Ø14    | Ø19.5+Ø25 | 28    |
| MFD22S01CL | M12x1 | Ø14    | Ø24+Ø31.5 | 42    |
| MFD22E02CL | M12x1 | Ø14    | Ø24+Ø31.5 | 42    |
| MFD27S01CL | M17x1 | Ø20    | Ø28+Ø37   | 80    |
| MFD27E02CL | M17x1 | Ø20    | Ø28+Ø37   | 80    |
| MFD33S01CL | M17x1 | Ø20    | Ø34+Ø45   | 118   |
| MFD33E02CL | M17x1 | Ø20    | Ø34+Ø45   | 118   |
| MFD41S01CL | M27x1 | Ø30    | Ø42+Ø54   | 275   |
| MFD41E02CL | M27x1 | Ø30    | Ø42+Ø54   | 275   |
| MFD51S01CL | M27x1 | Ø30    | Ø54+Ø68   | 480   |
| MFD51E02CL | M27x1 | Ø30    | Ø54+Ø68   | 480   |
| MFD63S01CL | M27x1 | Ø30    | Ø66+Ø85   | 790   |
| MFD63E02CL | M27x1 | Ø30    | Ø66+Ø85   | 790   |



Con il movimento verso il basso e alimentazione coassiale  
 With downward movement and coaxial air feeding  
 Mit Abwärtsbewegung und koaxialem Luftanschluss  
 Avec mouvement vers le bas et alimentation coaxiale

**MFU...CL**

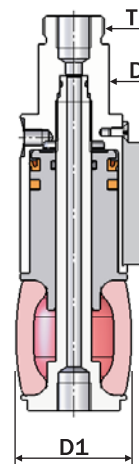
|            | T     | D [mm] | D1 [mm]   | m [g] |
|------------|-------|--------|-----------|-------|
| MFU08S01CL | M12x1 | Ø14    | Ø8+Ø11    | 16    |
| MFU08E02CL | M12x1 | Ø14    | Ø8+Ø11    | 16    |
| MFU10S01CL | M12x1 | Ø14    | Ø10.5+Ø14 | 17    |
| MFU10E02CL | M12x1 | Ø14    | Ø10.5+Ø14 | 17    |
| MFU12S01CL | M12x1 | Ø14    | Ø13+Ø17   | 18    |
| MFU12E02CL | M12x1 | Ø14    | Ø13+Ø17   | 18    |
| MFU14S01CL | M12x1 | Ø14    | Ø15+Ø19.5 | 20    |
| MFU14E02CL | M12x1 | Ø14    | Ø15+Ø19.5 | 20    |
| MFU18S01CL | M12x1 | Ø14    | Ø19.5+Ø25 | 33    |
| MFU18E02CL | M12x1 | Ø14    | Ø19.5+Ø25 | 33    |
| MFU22S01CL | M12x1 | Ø14    | Ø24+Ø31.5 | 49    |
| MFU22E02CL | M12x1 | Ø14    | Ø24+Ø31.5 | 49    |
| MFU27S01CL | M17x1 | Ø20    | Ø28+Ø37   | 90    |
| MFU27E02CL | M17x1 | Ø20    | Ø28+Ø37   | 90    |
| MFU33S01CL | M17x1 | Ø20    | Ø34+Ø45   | 130   |
| MFU33E02CL | M17x1 | Ø20    | Ø34+Ø45   | 130   |
| MFU41S01CL | M27x1 | Ø30    | Ø42+Ø54   | 295   |
| MFU41E02CL | M27x1 | Ø30    | Ø42+Ø54   | 295   |
| MFU51S01CL | M27x1 | Ø30    | Ø54+Ø68   | 505   |
| MFU51E02CL | M27x1 | Ø30    | Ø54+Ø68   | 505   |
| MFU63S01CL | M27x1 | Ø30    | Ø66+Ø85   | 800   |
| MFU63E02CL | M27x1 | Ø30    | Ø66+Ø85   | 800   |



Con il movimento verso l'alto e alimentazione coassiale  
 With upward movement and coaxial air feeding  
 Mit Aufwärtsbewegung und koaxialem Luftanschluss  
 Avec mouvement vers le haut et alimentation coaxiale

**MFD...HL**

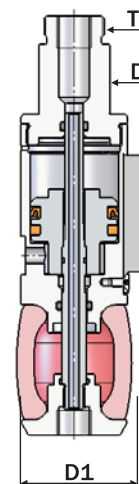
|            | T     | D [mm] | D1 [mm]   | m [g] |
|------------|-------|--------|-----------|-------|
| MFD08S01HL | M12x1 | Ø14    | Ø8+Ø11    | 15    |
| MFD08E02HL | M12x1 | Ø14    | Ø8+Ø11    | 15    |
| MFD10S01HL | M12x1 | Ø14    | Ø10.5+Ø14 | 16    |
| MFD10E02HL | M12x1 | Ø14    | Ø10.5+Ø14 | 16    |
| MFD12S01HL | M12x1 | Ø14    | Ø13+Ø17   | 17    |
| MFD12E02HL | M12x1 | Ø14    | Ø13+Ø17   | 17    |
| MFD14S01HL | M12x1 | Ø14    | Ø15+Ø19.5 | 18    |
| MFD14E02HL | M12x1 | Ø14    | Ø15+Ø19.5 | 18    |
| MFD18S01HL | M12x1 | Ø14    | Ø19.5+Ø25 | 28    |
| MFD18E02HL | M12x1 | Ø14    | Ø19.5+Ø25 | 28    |
| MFD22S01HL | M12x1 | Ø14    | Ø24+Ø31.5 | 42    |
| MFD22E02HL | M12x1 | Ø14    | Ø24+Ø31.5 | 42    |
| MFD27S01HL | M17x1 | Ø20    | Ø28+Ø37   | 80    |
| MFD27E02HL | M17x1 | Ø20    | Ø28+Ø37   | 80    |
| MFD33S01HL | M17x1 | Ø20    | Ø34+Ø45   | 118   |
| MFD33E02HL | M17x1 | Ø20    | Ø34+Ø45   | 118   |
| MFD41S01HL | M27x1 | Ø30    | Ø42+Ø54   | 275   |
| MFD41E02HL | M27x1 | Ø30    | Ø42+Ø54   | 275   |
| MFD51S01HL | M27x1 | Ø30    | Ø54+Ø68   | 480   |
| MFD51E02HL | M27x1 | Ø30    | Ø54+Ø68   | 480   |
| MFD63S01HL | M27x1 | Ø30    | Ø66+Ø85   | 790   |
| MFD63E02HL | M27x1 | Ø30    | Ø66+Ø85   | 790   |



Con il movimento verso il basso e foro passante  
 With downward movement and through hole  
 Mit Abwärtsbewegung und Durchgangsbohrung  
 Avec mouvement vers le bas et trou de passage

**MFU...HL**

|            | T     | D [mm] | D1 [mm]   | m [g] |
|------------|-------|--------|-----------|-------|
| MFU08S01HL | M12x1 | Ø14    | Ø8+Ø11    | 16    |
| MFU08E02HL | M12x1 | Ø14    | Ø8+Ø11    | 16    |
| MFU10S01HL | M12x1 | Ø14    | Ø10.5+Ø14 | 17    |
| MFU10E02HL | M12x1 | Ø14    | Ø10.5+Ø14 | 17    |
| MFU12S01HL | M12x1 | Ø14    | Ø13+Ø17   | 18    |
| MFU12E02HL | M12x1 | Ø14    | Ø13+Ø17   | 18    |
| MFU14S01HL | M12x1 | Ø14    | Ø15+Ø19.5 | 20    |
| MFU14E02HL | M12x1 | Ø14    | Ø15+Ø19.5 | 20    |
| MFU18S01HL | M12x1 | Ø14    | Ø19.5+Ø25 | 33    |
| MFU18E02HL | M12x1 | Ø14    | Ø19.5+Ø25 | 33    |
| MFU22S01HL | M12x1 | Ø14    | Ø24+Ø31.5 | 49    |
| MFU22E02HL | M12x1 | Ø14    | Ø24+Ø31.5 | 49    |
| MFU27S01HL | M17x1 | Ø20    | Ø28+Ø37   | 90    |
| MFU27E02HL | M17x1 | Ø20    | Ø28+Ø37   | 90    |
| MFU33S01HL | M17x1 | Ø20    | Ø34+Ø45   | 130   |
| MFU33E02HL | M17x1 | Ø20    | Ø34+Ø45   | 130   |
| MFU41S01HL | M27x1 | Ø30    | Ø42+Ø54   | 295   |
| MFU41E02HL | M27x1 | Ø30    | Ø42+Ø54   | 295   |
| MFU51S01HL | M27x1 | Ø30    | Ø54+Ø68   | 505   |
| MFU51E02HL | M27x1 | Ø30    | Ø54+Ø68   | 505   |
| MFU63S01HL | M27x1 | Ø30    | Ø66+Ø85   | 800   |
| MFU63E02HL | M27x1 | Ø30    | Ø66+Ø85   | 800   |



Con il movimento verso l'alto e foro passante  
 With upward movement and through hole  
 Mit Aufwärtsbewegung und Durchgangsbohrung  
 Avec mouvement vers le haut et trou de passage

**MFD...-K**

|         | per/for/fur/puor |
|---------|------------------|
| MFD27-K | MFD27...         |
| MFD33-K | MFD33...         |
| MFD41-K | MFD41...         |
| MFD51-K | MFD51...         |
| MFD63-K | MFD63...         |

**MFU...-K**

|         | per/for/fur/puor |
|---------|------------------|
| MFU27-K | MFU27...         |
| MFU33-K | MFU33...         |
| MFU41-K | MFU41...         |
| MFU51-K | MFU51...         |
| MFU63-K | MFU63...         |

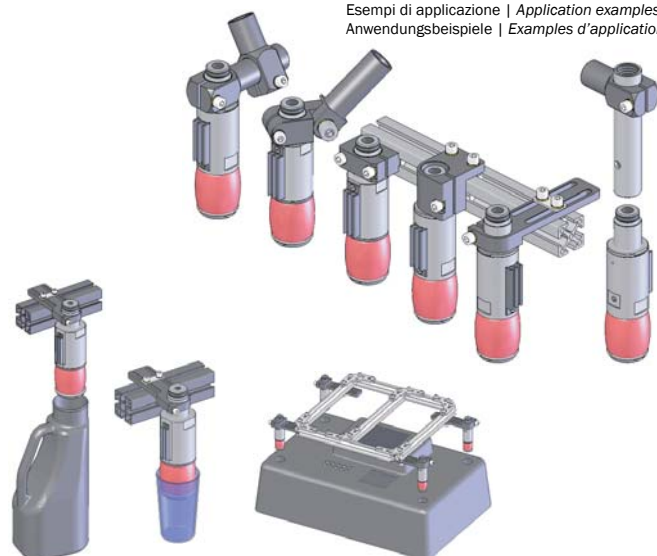
**IFU...RT**

|            | T     | D1 [mm]   | m [g] |
|------------|-------|-----------|-------|
| IFU04S01RT | M10x1 | Ø4.5+Ø5.4 | 7     |
| IFU04N03RT | M10x1 | Ø4.5+Ø5.4 | 7     |
| IFU05S01RT | M10x1 | Ø5.6+Ø6.7 | 7     |
| IFU05N03RT | M10x1 | Ø5.6+Ø6.7 | 7     |
| IFU06S01RT | M10x1 | Ø6.6+Ø7.6 | 8     |
| IFU06N03RT | M10x1 | Ø6.6+Ø7.6 | 8     |
| IFU07S01RT | M10x1 | Ø7.6+Ø8.7 | 9     |
| IFU07N03RT | M10x1 | Ø7.6+Ø8.7 | 9     |



Micro pinze ad espansione per interni con movimento verso l'alto  
 ID expansion micro grippers with upward movement  
 Micro-Innengreifer mit Aufwärtshub  
 Micro pincas à expansion pour internes avec mouvement vers le haut

Esempi di applicazione | Application examples  
 Anwendungsbeispiele | Exemples d'application



Taglierini pneumatici | *Air nippers*  
Pneumatische Schneidzangen | *Pinces coupantes pneumatiques*

Attuatori pneumatici per taglierini  
*Air nipper actuators*  
Pneumatische Schneidzangen  
*Pinces coupe-carotte pneumatiques*

| <b>GN</b>     | <b>C [Ncm]</b> | <b>s</b> | <b>m [g]</b> |
|---------------|----------------|----------|--------------|
| <b>GN-05</b>  | 22             | 2x7°     | 102          |
| <b>GN-05S</b> | 22             | 2x7°     | 125          |
| <b>GN-10</b>  | 76             | 2x5°     | 157          |
| <b>GN-10S</b> | 76             | 2x5°     | 208          |
| <b>GN-20</b>  | 134            | 2x7°     | 263          |
| <b>GN-20S</b> | 134            | 2x7°     | 370          |
| <b>GN-30</b>  | 300            | 2x7.5°   | 480          |
| <b>GN-30S</b> | 300            | 2x7.5°   | 715          |
| <b>GN-50</b>  | 232            | 2x12°    | 1100         |
| <b>GN-50S</b> | 232            | 2x12°    | 1440         |



Lame per taglierini pneumatici  
*Blades for air nippers*  
Schneideeinsätze für pneumatische Schneidzangen  
*Lames pour tronçonneuses pneumatiques*

| <b>G.N</b>      | <b>m [g]</b> |
|-----------------|--------------|
| <b>G.N5AJ</b>   | 33           |
| <b>G.N5AP</b>   | 34           |
| <b>G.N5PF</b>   | 35           |
| <b>G.N10LAJ</b> | 117          |
| <b>G.N10LAP</b> | 115          |
| <b>G.N10LPF</b> | 112          |
| <b>G.N20AJ</b>  | 121          |
| <b>G.N20AP</b>  | 120          |
| <b>G.N20PF</b>  | 124          |
| <b>G.N20AJL</b> | 220          |
| <b>G.N30AJ</b>  | 365          |
| <b>G.N30AP</b>  | 380          |
| <b>G.N30PF</b>  | 388          |



Griffe per GN  
*Fingers for GN*  
Spannbacken für GN  
*Mâchoires pour GN*

| <b>JG</b>          | <b>m [g]</b> |
|--------------------|--------------|
| <b>JGW-10S-A50</b> | 175          |
| <b>JGW-20S-A50</b> | 185          |
| <b>JGW-10S-A52</b> | 190          |
| <b>JGW-20S-A52</b> | 200          |



Slitte per GN  
*Slides for GN*  
Schlitten für GN  
*Glissières pour GN*

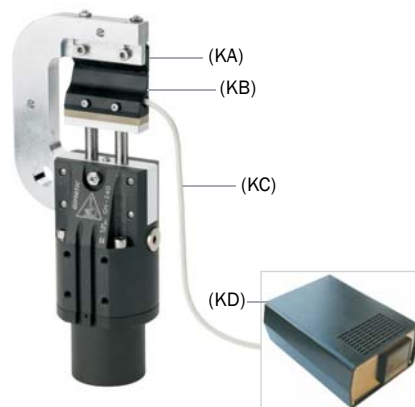
| <b>ZG</b>        | <b>F [N]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|------------------|--------------|---------------|--------------|
| <b>ZG-16-NO</b>  | 65-135       | 10            | 180          |
| <b>ZG-16S-NO</b> | 65-135       | 10            | 200          |
| <b>ZG-16-NC</b>  | 120-80       | 10            | 180          |
| <b>ZG-16S-NC</b> | 120-80       | 10            | 200          |
| <b>ZG-25-NO</b>  | 210-300      | 10            | 360          |
| <b>ZG-25S-NO</b> | 210-300      | 10            | 425          |
| <b>ZG-25-NC</b>  | 275-240      | 10            | 360          |
| <b>ZG-25S-NC</b> | 275-240      | 10            | 425          |



Taglierini pneumatici | *Air nippers*  
Pneumatische Schneidzangen | *Pinces coupantes pneumatiques*

Taglierini a ghigliottina  
*Thrust Cut Nippers*  
Angusschneidezange Guillotine  
*Pinces coupantes à guillotine*

| <b>GN-</b>    | <b>F [N]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|---------------|--------------|---------------|--------------|
| <b>GN-240</b> | 1470         | 20            | 1330         |
| <b>GN-263</b> | 3648         | 32            | 2900         |



|                                                              | <b>GN-240</b>          | <b>GN-263</b> |
|--------------------------------------------------------------|------------------------|---------------|
| Lame di ricambio<br><i>Spare blade</i>                       |                        |               |
| Ersatzschneideinsätze<br><i>Lames de rechange</i>            | (KA) 5620<br>(KB) 5619 | 5617<br>5616  |
| Resistenza + termocoppia<br><i>Cartridge + thermocouple</i>  |                        |               |
| Heizpatrone + Thermopaar<br><i>Résistance + Thermocouple</i> | (KC) R50-G             | R75-G         |
| Termoregolatore<br><i>Heater control box</i>                 |                        |               |
| Temperaturregler<br><i>Thermorégulateur</i>                  | (KD) CH102-G           | CH102-G       |

Slitte a doppia corsa  
*Double stroke slide*  
Schlitten mit Doppelhub  
*Glissières à double course*

| <b>ZJ</b>      | <b>F [N]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|----------------|--------------|---------------|--------------|
| <b>ZJ-3235</b> | 450          | 35            | 1330         |



Ventose piane / Flat vacuum cups / Flachsaugnapfe / Ventouses plates

## V01

|          | P/G | KL [mm] | m [g] |
|----------|-----|---------|-------|
| V0111S01 | P   | Ø11     | 0.6   |
| V0111E02 | P   | Ø11     | 0.6   |
| V0111R03 | P   | Ø11     | 0.6   |
| V0116S01 | P   | Ø16     | 0.6   |
| V0116E02 | P   | Ø16     | 0.6   |
| V0116R03 | P   | Ø16     | 0.6   |
| V0122S01 | G   | Ø22     | 1.3   |
| V0122E02 | G   | Ø22     | 1.2   |
| V0122R03 | G   | Ø22     | 1.2   |
| V0133S01 | G   | Ø33     | 2.7   |
| V0133E02 | G   | Ø33     | 2.6   |
| V0133R03 | G   | Ø33     | 2.7   |
| V0142S01 | G   | Ø42     | 4.8   |
| V0142E02 | G   | Ø42     | 4.6   |
| V0142R03 | G   | Ø42     | 4.7   |
| V0153S01 | G   | Ø53     | 8.9   |
| V0153E02 | G   | Ø53     | 8.4   |
| V0153R03 | G   | Ø53     | 8.6   |



Ventose a soffietto / Bellow vacuum cups / Balgsaugnapfe / Ventouses à soufflet

## V02

|          | P/G | KM [mm] | m [g] |
|----------|-----|---------|-------|
| V0211S01 | P   | Ø11     | 0.8   |
| V0211E02 | P   | Ø11     | 0.8   |
| V0211R03 | P   | Ø11     | 0.8   |
| V0216S01 | P   | Ø16     | 1.3   |
| V0216E02 | P   | Ø16     | 1.2   |
| V0216R03 | P   | Ø16     | 1.2   |
| V0222S01 | P   | Ø22     | 1.7   |
| V0222E02 | P   | Ø22     | 1.6   |
| V0222R03 | P   | Ø22     | 1.6   |
| V0233S01 | G   | Ø33     | 5.3   |
| V0233E02 | G   | Ø33     | 5     |
| V0233R03 | G   | Ø33     | 5.1   |
| V0242S01 | G   | Ø42     | 8.6   |
| V0242E02 | G   | Ø42     | 8.2   |
| V0242R03 | G   | Ø42     | 8.4   |
| V0253S01 | G   | Ø53     | 14.8  |
| V0253E02 | G   | Ø53     | 14    |
| V0253R03 | G   | Ø53     | 14.4  |



**S01**  
Silicone  
Silicone  
Silikon  
Silicone



**E02**  
EPDM  
EPDM  
EPDM  
EPDM



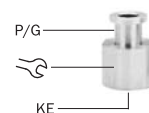
**R03**  
Gomma naturale  
Natural rubber  
Naturkautschuk  
Caoutchou natu



Nippli / Nipples / Nippel / Mamelons

## AV

|           | P/G | KE [mm] | m [g] |
|-----------|-----|---------|-------|
| AV01M5F08 | P   | M5      | 8     |
| AV0118F13 | P   | G1/8"   | 13    |
| AV0118F12 | G   | G1/8"   | 12    |
| AV0118F16 | G   | G1/8"   | 16    |
| AV0114F16 | G   | G1/4"   | 16    |



Nippli / Nipples / Nippel / Mamelons

## AV

|           | P/G | KG [mm] | m [g] |
|-----------|-----|---------|-------|
| AV01M5M08 | P   | M5      | 8     |
| AV0118M13 | P   | G1/8"   | 13    |
| AV0118M12 | G   | G1/8"   | 12    |
| AV0118M16 | G   | G1/8"   | 16    |
| AV0114M16 | G   | G1/4"   | 16    |



Nippli / Nipples / Nippel / Mamelons

## AF

|          | KU    | m [g] |
|----------|-------|-------|
| AF05M05M | M5    | 0.8   |
| AF18M18M | G1/8" | 4     |
| AF14M14M | G1/4" | 2.6   |
| AF12F16M |       | 25    |
| AF17F25M |       | 130   |
| AF27F33M |       | 140   |



Giunti angolari / Elbow arms / Gelenkverbindungen / Joints angulaires

## VA

|           | KT    | KP    | m [g] |
|-----------|-------|-------|-------|
| VAM5M5G   | M5    | M5    | 28    |
| VAM18M18G | G1/8" | G1/8" | 64    |
| VAM18M14G | G1/8" | G1/4" | 70    |
| VAM14M14G | G1/4" | G1/4" | 76    |



Giunti angolari / Elbow arms / Gelenkverbindungen / Joints angulaires

## VAC

|           | KQ    | KH    | m [g] |
|-----------|-------|-------|-------|
| VAC05F05F | M5    | M5    | 10    |
| VAC18F18F | G1/8" | G1/8" | 15    |
| VAC14F14F | G1/4" | G1/4" | 40    |



Pressore a molla / Spring rod / Federhalterung / Pressoir a ressort

## VSX

|         | m [g] |
|---------|-------|
| VSX1425 | 65    |





**Sospensioni | Suspensions**  
**Aufhängungen | Suspensions**

Sospensioni telescopiche anti-rotazione, con corpo filettato  
*Telescopic non-rotative vacuum suspensions, with threaded body*  
Drehgesicherte Teleskopaufhängungen, mit Gewindegehäuse  
*Suspensions télescopiques anti-rotation, avec corps taraudé*

| <b>VSC</b>     | <b>TF</b> | <b>TM</b> | <b>s [mm]</b> | <b>m [g]</b> |
|----------------|-----------|-----------|---------------|--------------|
| <b>VSC1620</b> | M5        | M16x1     | 20            | 35           |
| <b>VSC2230</b> | G1/8"     | M22x1.5   | 30            | 80           |
| <b>VSC2530</b> | G1/4"     | M25x1.5   | 30            | 115          |



Sospensioni telescopiche anti-rotazione, con corpo liscio  
*Telescopic non-rotative vacuum suspensions, with smooth body*  
Drehgesicherte Teleskopaufhängungen, mit glattem Gehäuse  
*Suspensions télescopiques anti-rotation, avec corps lisse*

| <b>VSL</b>     | <b>TF</b> | <b>TL</b> | <b>s [mm]</b> | <b>m [g]</b> |
|----------------|-----------|-----------|---------------|--------------|
| <b>VSL1620</b> | M5        | Ø16       | 20            | 25           |
| <b>VSL2030</b> | G1/8"     | Ø20       | 30            | 55           |
| <b>VSL2430</b> | G1/4"     | Ø24       | 30            | 70           |



Sospensioni telescopiche auto-ritraenti  
*Telescopic self-retracting suspensions*  
Selbst-einziehbare Teleskop-Aufhängungen  
*Suspensions télescopiques auto rétractables*

| <b>VSS</b>     | <b>TF</b> | <b>TM</b> | <b>s [mm]</b> | <b>m [g]</b> |
|----------------|-----------|-----------|---------------|--------------|
| <b>VSS2025</b> | M5        | G1/8"     | 25            | 40           |
| <b>VSS2050</b> | M5        | G1/8"     | 50            | 55           |



Sospensioni rotanti, con corpo liscio  
*Rotative vacuum suspensions, with smooth body*  
Drehbare Aufhängungen, mit glattem Gehäuse  
*Suspensions sans anti-rotation, avec corps lisse*

| <b>VSR</b>      | <b>TF</b> | <b>TL [mm]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|-----------------|-----------|----------------|---------------|--------------|
| <b>VSR1010S</b> | M5        | Ø10            | 10            | 7            |
| <b>VSR1010</b>  | M5        | Ø10            | 10            | 7            |
| <b>VSR1010H</b> | M5        | Ø10            | 10            | 7            |
| <b>VSR1025S</b> | M5        | Ø10            | 25            | 11           |
| <b>VSR1025</b>  | M5        | Ø10            | 25            | 11           |
| <b>VSR1025H</b> | M5        | Ø10            | 25            | 11           |
| <b>VSR1420S</b> | G1/8"     | Ø14            | 20            | 23           |
| <b>VSR1420</b>  | G1/8"     | Ø14            | 20            | 23           |
| <b>VSR1420H</b> | G1/8"     | Ø14            | 20            | 23           |
| <b>VSR1435S</b> | G1/8"     | Ø14            | 35            | 32           |
| <b>VSR1435</b>  | G1/8"     | Ø14            | 35            | 32           |
| <b>VSR1435H</b> | G1/8"     | Ø14            | 35            | 32           |
| <b>VSR2025S</b> | G1/8"     | Ø20            | 25            | 50           |
| <b>VSR2025</b>  | G1/8"     | Ø20            | 25            | 50           |
| <b>VSR2025H</b> | G1/8"     | Ø20            | 25            | 50           |
| <b>VSR2050S</b> | G1/8"     | Ø20            | 50            | 77           |
| <b>VSR2050</b>  | G1/8"     | Ø20            | 50            | 77           |
| <b>VSR2050H</b> | G1/8"     | Ø20            | 50            | 77           |



Sospensioni rotanti, con corpo filettato  
*Rotative vacuum suspensions, with threaded body*  
Drehbare Aufhängungen, mit Gewindegehäuse  
*Suspensions sans anti-rotation, avec corps taraudé*

| <b>VSRT</b>     | <b>TF</b> | <b>TM</b> | <b>s [mm]</b> | <b>m [g]</b> |
|-----------------|-----------|-----------|---------------|--------------|
| <b>VSRT1010</b> | M5        | M10x1     | 10            | 11           |
| <b>VSRT1025</b> | M5        | M10x1     | 25            | 16           |
| <b>VSRT1420</b> | G1/8"     | M14x1.5   | 20            | 32           |
| <b>VSRT1435</b> | G1/8"     | M14x1.5   | 35            | 42           |
| <b>VSRT1620</b> | G1/8"     | M16x1     | 20            | 40           |
| <b>VSRT1635</b> | G1/8"     | M16x1     | 35            | 50           |
| <b>VSRT2025</b> | G1/8"     | M20x1.5   | 25            | 70           |
| <b>VSRT2050</b> | G1/8"     | M20x1.5   | 50            | 104          |



**Sospensioni | Suspensions**  
**Aufhängungen | Suspensions**

Sospensioni anti-rotazione, con corpo liscio  
*Non-rotative vacuum suspensions, with smooth body*  
Drehgesicherte Aufhängungen, mit glattem Gehäuse  
*Suspensions anti-rotation, avec corps lisse*

| <b>VSN</b>      | <b>TF</b> | <b>TL [mm]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|-----------------|-----------|----------------|---------------|--------------|
| <b>VSN1010S</b> | M5        | Ø10            | 10            | 7            |
| <b>VSN1010</b>  | M5        | Ø10            | 10            | 7            |
| <b>VSN1010H</b> | M5        | Ø10            | 10            | 7            |
| <b>VSN1025S</b> | M5        | Ø10            | 25            | 11           |
| <b>VSN1025</b>  | M5        | Ø10            | 25            | 11           |
| <b>VSN1025H</b> | M5        | Ø10            | 25            | 11           |
| <b>VSN1420S</b> | G1/8"     | Ø14            | 20            | 24           |
| <b>VSN1420</b>  | G1/8"     | Ø14            | 20            | 24           |
| <b>VSN1420H</b> | G1/8"     | Ø14            | 20            | 24           |
| <b>VSN1435S</b> | G1/8"     | Ø14            | 35            | 33           |
| <b>VSN1435</b>  | G1/8"     | Ø14            | 35            | 33           |
| <b>VSN1435H</b> | G1/8"     | Ø14            | 35            | 33           |
| <b>VSN2025S</b> | G1/8"     | Ø20            | 25            | 54           |
| <b>VSN2025</b>  | G1/8"     | Ø20            | 25            | 54           |
| <b>VSN2025H</b> | G1/8"     | Ø20            | 25            | 54           |
| <b>VSN2050S</b> | G1/8"     | Ø20            | 50            | 80           |
| <b>VSN2050</b>  | G1/8"     | Ø20            | 50            | 80           |
| <b>VSN2050H</b> | G1/8"     | Ø20            | 50            | 80           |



Sospensioni anti-rotazione, con corpo filettato  
*Non-rotative vacuum suspensions, with threaded body*  
Drehgesicherte Aufhängungen, mit Gewindegehäuse  
*Suspensions anti-rotation, avec corps taraudé*

| <b>VSNT</b>     | <b>TF</b> | <b>TM</b> | <b>s [mm]</b> | <b>m [g]</b> |
|-----------------|-----------|-----------|---------------|--------------|
| <b>VSNT1010</b> | M5        | M10x1     | 10            | 12           |
| <b>VSNT1025</b> | M5        | M10x1     | 25            | 16           |
| <b>VSNT1620</b> | G1/8"     | M16x1.5   | 20            | 41           |
| <b>VSNT1635</b> | G1/8"     | M16x1.5   | 35            | 53           |
| <b>VSNT2025</b> | G1/8"     | M20x1.5   | 25            | 75           |
| <b>VSNT2050</b> | G1/8"     | M20x1.5   | 50            | 107          |



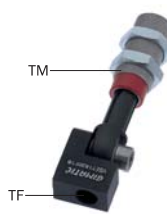
Sospensioni anti-rotazione con giunto angolare integrato, con corpo liscio  
*Non-rotative suspensions with integrated elbow arms, with smooth body*  
Drehgesicherte Aufhängungen mit integriertem Winkelgelenk, mit glattem Gehäuse  
*Suspensions anti-rotation avec joint angulaire intégré, avec corps lisse*

| <b>VSE</b>         | <b>TF</b> | <b>TL [mm]</b> | <b>s [mm]</b> | <b>m [g]</b> |
|--------------------|-----------|----------------|---------------|--------------|
| <b>VSE1010F05S</b> | M5        | Ø10            | 10            | 15           |
| <b>VSE1025F05S</b> | M5        | Ø10            | 25            | 20           |
| <b>VSE1420F18S</b> | G1/8"     | Ø14            | 20            | 45           |
| <b>VSE1420F18</b>  | G1/8"     | Ø14            | 20            | 45           |
| <b>VSE1435F18S</b> | G1/8"     | Ø14            | 35            | 55           |
| <b>VSE1435F18</b>  | G1/8"     | Ø14            | 35            | 55           |
| <b>VSE2025F18S</b> | G1/8"     | Ø20            | 25            | 70           |
| <b>VSE2025F18</b>  | G1/8"     | Ø20            | 25            | 70           |
| <b>VSE2025F14</b>  | G1/4"     | Ø20            | 25            | 90           |
| <b>VSE2050F18</b>  | G1/8"     | Ø20            | 50            | 105          |
| <b>VSE2050F18</b>  | G1/8"     | Ø20            | 50            | 105          |
| <b>VSE2050F14</b>  | G1/4"     | Ø20            | 50            | 120          |



Sospensioni anti-rotazione con giunto angolare integrato, con corpo filettato  
*Non-rotative suspensions with integrated elbow arms, with threaded body*  
Drehgesicherte Aufhängungen mit integriertem Winkelgelenk, mit Gewindegehäuse  
*Suspensions anti-rotation avec joint angulaire intégré, avec corps taraudé*

| <b>VSET</b>         | <b>TF</b> | <b>TM</b> | <b>s [mm]</b> | <b>m [g]</b> |
|---------------------|-----------|-----------|---------------|--------------|
| <b>VSET1010F05S</b> | M5        | M10x1     | 10            | 18           |
| <b>VSET1025F05S</b> | M5        | M10x1     | 25            | 23           |
| <b>VSET1620F18</b>  | G1/8"     | M16x1     | 20            | 57           |
| <b>VSET1635F18</b>  | G1/8"     | M16x1     | 35            | 70           |
| <b>VSET2025F18</b>  | G1/8"     | M20x1.5   | 25            | 88           |
| <b>VSET2025F14</b>  | G1/4"     | M20x1.5   | 25            | 109          |
| <b>VSET2050F18</b>  | G1/8"     | M20x1.5   | 50            | 125          |
| <b>VSET2050F14</b>  | G1/4"     | M20x1.5   | 50            | 142          |



## SS

|                  |                   |
|------------------|-------------------|
| <b>SS4N225-G</b> | PNP, 2.5m cable   |
| <b>SS3N203-G</b> | PNP, M8 connector |
| <b>SS4M225-G</b> | NPN, 2.5m cable   |
| <b>SS3M203-G</b> | NPN, M8 connector |



## SN

|                  |                   |
|------------------|-------------------|
| <b>SN4N225-G</b> | PNP, 2.5m cable   |
| <b>SN3N203-G</b> | PNP, M8 connector |
| <b>SN4M225-G</b> | NPN, 2.5m cable   |
| <b>SN3M203-G</b> | NPN, M8 connector |



## SL

|                  |                   |
|------------------|-------------------|
| <b>SL4N225-G</b> | PNP, 2.5m cable   |
| <b>SL3N203-G</b> | PNP, M8 connector |
| <b>SL4M225-G</b> | NPN, 2.5m cable   |
| <b>SL3M203-G</b> | NPN, M8 connector |



## SC

|                 |                   |
|-----------------|-------------------|
| <b>SC4N225Y</b> | PNP, 2.5m cable   |
| <b>SC3N203Y</b> | PNP, M8 connector |



## CB

|                |                   |
|----------------|-------------------|
| <b>CB3N2-G</b> | PNP, M8 connector |
| <b>CB3M2-G</b> | NPN, M8 connector |



## SM

|                 |                   |
|-----------------|-------------------|
| <b>SM3NR2-G</b> | PNP, M8 connector |
| <b>SM3MR2-G</b> | NPN, M8 connector |



## IFRM

|                      |     |
|----------------------|-----|
| <b>IFRM04N15A/L</b>  | NPN |
| <b>IFRM04P15A1/L</b> | PNP |



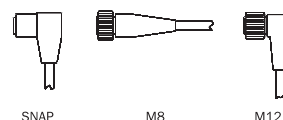
## SG

|                |                      |
|----------------|----------------------|
| <b>SG3A2-G</b> | Analog, M8 connector |
| <b>SG3N2-G</b> | PNP, M8 connector    |
| <b>SG3M2-G</b> | NPN, M8 connector    |



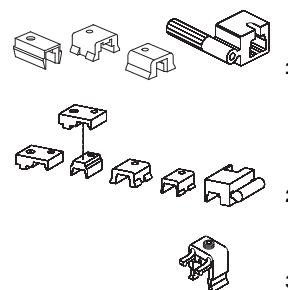
## CF

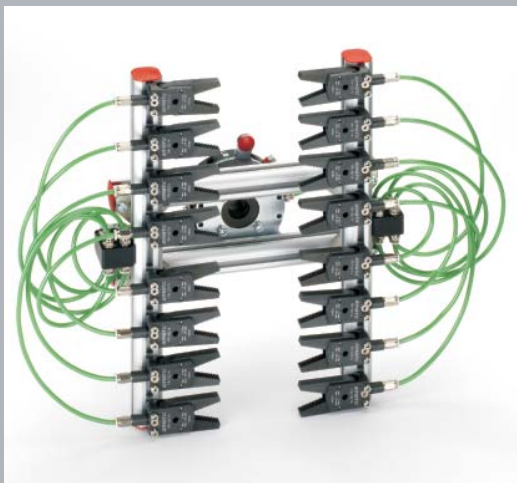
|                    |      |
|--------------------|------|
| <b>CFSM890225</b>  | SNAP |
| <b>CFSM890325</b>  | SNAP |
| <b>CFGM800225</b>  | M8   |
| <b>CFGM800325</b>  | M8   |
| <b>CFGM1290225</b> | M12  |
| <b>CFGM1290325</b> | M12  |



## K

|               |          |
|---------------|----------|
| <b>K-SENS</b> | <b>1</b> |
| <b>K-SL</b>   | <b>2</b> |
| <b>K-CB</b>   | <b>3</b> |

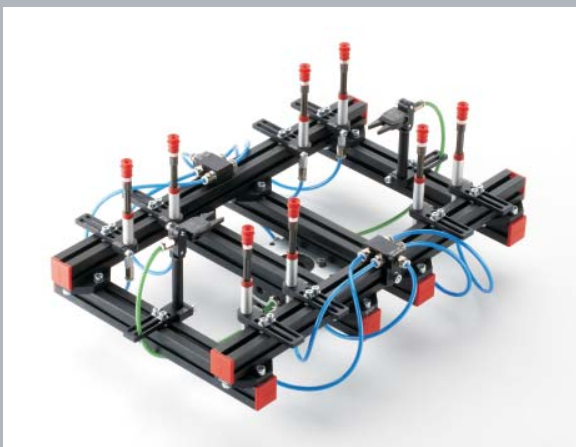




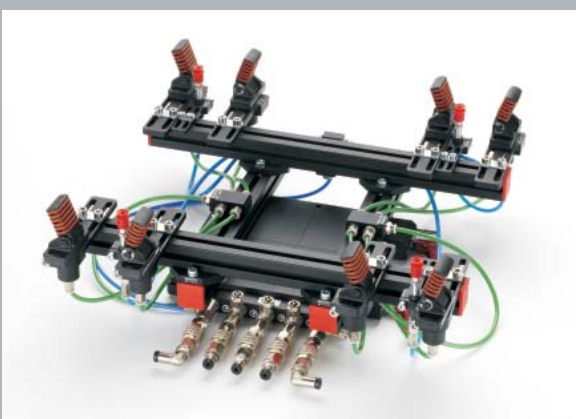
Pinze per materozze usate per la manipolazione di piccoli pezzi prelevati da stampo a 16 impronte  
Sprue grippers used for the handling of small parts out of a 16-cavity mould  
Verwendung von Anguss-Greifzangen zur Handhabung von kleinen Teilen aus einer Form mit 16 Ausbuchtungen  
Pincettes de préhension utilisées pour la manipulation de petites pièces prélevées d'un moule à 16 empreintes



Pinze OFX usate per avvicinare le ventose in uno spazio angusto  
OFX grippers used for the vacuum cup approaching in a tight space  
Verwendung von OFX Greifern zur Annäherung der Saugnapfe in einem engen Raum  
Doigts de préhension OFX utilisés pour approcher les ventouses dans un espace restreint



Ventose montate su sospensioni anti-rotazione  
Vacuum cups mounted on non-rotative suspensions  
Saugnapfe auf drehgesicherten Aufhängungen montiert  
Ventouses montées sur suspensions anti-rotation



Pinze mono-dito usate per tenere 4 pezzi per attrito  
One-finger angular grippers used to hold 4 parts by friction  
Einfingergreifer zum Halten von 4 Teilen durch Reibung  
Doigts de préhension utilisés pour tenir 4 pièces par friction



Visitate il nostro sito ed avrete a disposizione tutti gli strumenti necessari con gli aggiornamenti, in tempo reale, sulle ultime novità di prodotto, i prezzi e la rete di vendita.

L'offerta Gimatic, oltre ai prodotti della sezione PLASTICS mostrati in questa brochure, comprende una sezione HANDLING, dedicata ai componenti per la manipolazione generale ed una sezione SENSORS, dedicata ai sensori per l'automazione.

Visit our website and you'll have available all the necessary tools together with real time up-dates concerning the latest product news, the price lists and the sales network.

In addition to the products of the PLASTICS section shown in this brochure, the Gimatic offer includes a HANDLING section concerning the pneumatic components for general handling applications and a SENSORS section dedicated to sensors for automation.

Besuchen Sie unsere Site, in der alle nötigen Mittel und die Live-Aktualisierung der letzten Produktneuheiten, sowie die Preisliste und das Verkaufsnetz, zur Verfügung stehen.

Außer den in dieser Broschüre gezeigten Produkten PLASTICS enthält das Angebot Gimatic eine Rubrik HANDLING, die den Bestandteilen der allgemeinen Handhabung gewidmet ist, und einen Abschnitt SENSORS über Sensoren für die Automation.

Visitez notre site et vous aurez à disposition tous les instruments nécessaires avec toutes les mises à jour, en temps réel, sur les dernières nouveautés du produit, ainsi que la liste des prix et le réseau de vente.

L'offre Gimatic, en dehors des produits de la section PLASTICS montrés dans cette brochure, comprend une section HANDLING, dédiée aux composants pour la manipulation générale et une section SENSORS, dédiée aux capteurs pour l'automatisation.

## H A N D L I N G



## P L A S T I C S



## S E N S O R S



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CAT-SOM-PLASTICS 09/2011



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