

| UN800DP/UN900DP                                     |       |             |       |      |             |       |      |              |      |      |                |       |      |
|---|-------|-------------|-------|------|-------------|-------|------|--------------|------|------|----------------|-------|------|
| Description   | UNIT  |             |       |      |             |       |      |              |      |      |                |       |      |
| Injection Unit                                      |       |             |       |      |             |       |      |              |      |      |                |       |      |
| Model   |       | 4800        |       |      | 6150        |       |      | 9000         |      |      | 12050          |       |      |
| screw diameter                                      | mm    | 84          | 92    | 100  | 92          | 100   | 108  | 100          | 108  | 116  | 116            | 125   | 135  |
| theoretical shot volume                             | cm³   | 2217        | 2659  | 3142 | 2892        | 3416  | 3985 | 4320         | 5038 | 5813 | 6341           | 7363  | 8588 |
| shot weight   | g     | 2039        | 2446  | 2890 | 2660        | 3143  | 3666 | 3974         | 4636 | 5347 | 5833           | 6774  | 7901 |
| injection pressure                                  | MPa   | 218         | 181   | 154  | 213         | 180   | 155  | 209          | 179  | 155  | 190            | 164   | 140  |
| screw L: D ratio                                    |       | 21.9        | 20    | 20   | 21.7        | 20    | 20   | 21.6         | 20   | 20   | 22.1           | 20    | 20   |
| injection rate                                      | cm³/s | 460         | 552   | 652  | 578         | 683   | 797  | 766          | 894  | 1031 | 913            | 1060  | 1236 |
| max. injection speed                                | mm/s  | 83.0        |       |      | 86.9        |       |      | 97.6         |      |      | 86.4           |       |      |
| screw stroke  | µm    | 400         |       |      | 435         |       |      | 550          |      |      | 600            |       |      |
| max. screw speed                                    | r/min | 154         |       |      | 139         |       |      | 128          |      |      | 112            |       |      |
| screw torque  | Nm    | 6688        |       |      | 8639        |       |      | 11982        |      |      | 14769          |       |      |
| plasticizing rate (PS)                              | g/s   | 98          | 127   | 180  | 95          | 156   | 199  | 150          | 165  | 215  | 197            | 261   | 327  |
| heating capacity                                    | kW    | 38/43       |       |      | 42/47       |       |      | 46.5         |      |      | 63.3/66.3      |       |      |
| barrel heating zone number                          |       | 6           |       |      | 7           |       |      | 7            |      |      | 8              |       |      |
| nozzle contact force                                | kN    | 178.6       |       |      | 178.6       |       |      | 263.8        |      |      | 263.8          |       |      |
| carriage stroke                                     | mm    | 500         |       |      | 550         |       |      | 573          |      |      | 720            |       |      |
| Clamping Unit                                       |       |             |       |      |             |       |      |              |      |      |                |       |      |
| clamping force                                      | kN    | 8000/9000   |       |      |             |       |      |              |      |      |                |       |      |
| opening force                                       | kN    | 274/720     |       |      |             |       |      |              |      |      |                |       |      |
| platen size   | mm    | 1570x1540   |       |      |             |       |      |              |      |      |                |       |      |
| space between tie-bars                              | mm    | 1180x1020   |       |      |             |       |      |              |      |      |                |       |      |
| mold thickness                                      | mm    | 480/1120    |       |      |             |       |      |              |      |      |                |       |      |
| max. opening stroke                                 | mm    | 1650        |       |      |             |       |      |              |      |      |                |       |      |
| max. daylight                                       | mm    | 2130        |       |      |             |       |      |              |      |      |                |       |      |
| ejector force                                       | KN    | 220         |       |      |             |       |      |              |      |      |                |       |      |
| ejector stroke                                      | mm    | 320         |       |      |             |       |      |              |      |      |                |       |      |
| ejector number                                      |       | 17          |       |      |             |       |      |              |      |      |                |       |      |
| Electrical & Hydraulic Units                        |       |             |       |      |             |       |      |              |      |      |                |       |      |
| system pressure                                     | MPa   | 17.5 , 25   |       |      | 17.5 , 25   |       |      | 17.5 , 25    |      |      | 17.5 , 25      |       |      |
| motor   | kW    | 39.4+39.4   |       |      | 62+39.4     |       |      | 39.4+39.4+31 |      |      | 39.4+39.4+39.4 |       |      |
| pump flow   | L/min | 369         |       |      | 432         |       |      | 549          |      |      | 594            |       |      |
| total power   | kW    | 116.8       | 121.8 |      | 143.4       | 148.4 |      | 156.3        |      |      | 184.5          | 181.5 |      |
| General   |       |             |       |      |             |       |      |              |      |      |                |       |      |
| oil tank capacity                                   | L     | 1000        |       |      | 1000        |       |      | 1600         |      |      | 1800           |       |      |
| dry cycle   | s     | 4.8         |       |      | 4.8         |       |      | 4.5          |      |      | 4.5            |       |      |
| max. mold weight                                    | T     | 14          |       |      | 14          |       |      | 14           |      |      | 14             |       |      |
| machine weight (clamping + injection units, no oil) | T     | 27+10       |       |      | 27+10       |       |      | 27+14        |      |      | 27+17          |       |      |
| machine dimensions                                  | m     | 9.3x3.2x2.3 |       |      | 9.3x3.2x2.3 |       |      | 9.8x3.2x2.3  |      |      | 9.8x3.2x2.3    |       |      |

Note:

1. Dry cycle time accords with EUROMAP 6.
2. The mold-bearing capacity of moving platen is 2/3 of total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. Three kinds of screws are available for each model and the medium one is standard on the machine.
5. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm<sup>3</sup>] × injection pressure [MPa]/100
6. Plasticizing capacity is calculated by GPPS (for the injection unit model 18050 and smaller ones) or PP (for injection unit above model 18050).
7. The blue and green words respectively represent the standard configuration of clamping unit and injection unit.
8. Because of constant technical improvement, the machine specifications are subject to change without notice.

| UN1000DP/UN1100DP                                   |       |              |       |      |                |      |      |                |       |      |               |       |       |
|---|-------|--------------|-------|------|----------------|------|------|----------------|-------|------|---------------|-------|-------|
| Description   | UNIT  |              |       |      |                |      |      |                |       |      |               |       |       |
| Injection Unit                                      |       |              |       |      |                |      |      |                |       |      |               |       |       |
| Model   |       | 6150         |       |      | 9000           |      |      | 12050          |       |      | 18500         |       |       |
| screw diameter                                      | mm    | 92           | 100   | 108  | 100            | 108  | 116  | 116            | 125   | 135  | 135           | 145   | 155   |
| theoretical shot volume                             | cm³   | 2892         | 3416  | 3985 | 4320           | 5040 | 5812 | 6341           | 7363  | 8588 | 10020         | 11559 | 13208 |
| shot weight   | g     | 2660         | 3143  | 3666 | 3974           | 4636 | 5347 | 5833           | 6774  | 7901 | 9218          | 10634 | 12152 |
| injection pressure                                  | MPa   | 213          | 180   | 155  | 209            | 179  | 155  | 190            | 164   | 140  | 184           | 160   | 140   |
| screw L: D ratio                                    |       | 21.7         | 20    | 20   | 21.6           | 20   | 20   | 22.1           | 20    | 20   | 23.6          | 22    | 20    |
| injection rate                                      | cm³/s | 578          | 683   | 797  | 766            | 894  | 1031 | 913            | 1060  | 1236 | 1251          | 1444  | 1650  |
| max. injection speed                                | mm/s  | 86.9         |       |      | 97.6           |      |      | 86.4           |       |      | 87.4          |       |       |
| screw stroke  | µm    | 435          |       |      | 550            |      |      | 600            |       |      | 700           |       |       |
| max. screw speed                                    | r/min | 139          |       |      | 128            |      |      | 112            |       |      | 118           |       |       |
| screw torque  | Nm    | 8639         |       |      | 11982          |      |      | 14769          |       |      | 18949         |       |       |
| plasticizing rate (PS)                              | g/s   | 95           | 156   | 199  | 150            | 165  | 215  | 197            | 261   | 327  | 208           | 295   | 343   |
| heating capacity                                    | kW    | 42/47        |       |      | 46.5           |      |      | 63.3/66.3      |       |      | 93.7          |       |       |
| barrel heating zone number                          |       | 7            |       |      | 7              |      |      | 8              |       |      | 8             |       |       |
| nozzle contact force                                | kN    | 263.8        |       |      | 263.8          |      |      | 263.8          |       |      | 296.7         |       |       |
| carriage stroke                                     | mm    | 550          |       |      | 573            |      |      | 720            |       |      | 950           |       |       |
| Clamping Unit                                       |       |              |       |      |                |      |      |                |       |      |               |       |       |
| clamping force                                      | kN    | 10000/11000  |       |      |                |      |      |                |       |      |               |       |       |
| opening force                                       | kN    | 274/831      |       |      |                |      |      |                |       |      |               |       |       |
| platen size   | mm    | 1860x1850    |       |      |                |      |      |                |       |      |               |       |       |
| space between tie-bars                              | mm    | 1310x1200    |       |      |                |      |      |                |       |      |               |       |       |
| mold thickness                                      | mm    | 500/1200     |       |      |                |      |      |                |       |      |               |       |       |
| max. opening stroke                                 | mm    | 1850         |       |      |                |      |      |                |       |      |               |       |       |
| max. daylight                                       | mm    | 2350         |       |      |                |      |      |                |       |      |               |       |       |
| ejector force                                       | KN    | 274          |       |      |                |      |      |                |       |      |               |       |       |
| ejector stroke                                      | mm    | 360          |       |      |                |      |      |                |       |      |               |       |       |
| ejector number                                      |       | 24           |       |      |                |      |      |                |       |      |               |       |       |
| Electrical & Hydraulic Units                        |       |              |       |      |                |      |      |                |       |      |               |       |       |
| system pressure                                     | MPa   | 17.5 , 25    |       |      | 17.5 , 25      |      |      | 17.5 , 25      |       |      | 17.5,25       |       |       |
| motor   | kW    | 62+39.4      |       |      | 39.4+39.4+31   |      |      | 39.4+39.4+39.4 |       |      | 62x3          |       |       |
| pump flow   | L/min | 432          |       |      | 549            |      |      | 594            |       |      | 801           |       |       |
| total power   | kW    | 143.4        | 148.4 |      | 156.3          |      |      | 181.5          | 184.5 |      | 274           |       |       |
| General   |       |              |       |      |                |      |      |                |       |      |               |       |       |
| oil tank capacity                                   | L     | 1600         |       |      | 1600           |      |      | 1800           |       |      | 2500          |       |       |
| dry cycle   | s     | 6            |       |      | 5.8            |      |      | 5.6            |       |      | 5.5           |       |       |
| max. mold weight                                    | T     | 20           |       |      | 20             |      |      | 20             |       |      | 30            |       |       |
| machine weight (clamping + injection units, no oil) | T     | 39+10        |       |      | 39+14          |      |      | 39+17          |       |      | 39+28         |       |       |
| machine dimensions                                  | m     | 9.3x3.39x3.0 |       |      | 10.28x3.39x3.0 |      |      | 10.28x3.39x3.0 |       |      | 12.0x3.39x3.0 |       |       |

Note:

1. Dry cycle time accords with EUROMAP 6.
2. The mold-bearing capacity of moving platen is 2/3 of total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. Three kinds of screws are available for each model and the medium one is standard on the machine.
5. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm<sup>3</sup>] × injection pressure [MPa]/100
6. Plasticizing capacity is calculated by GPPS (for the injection unit model 18050 and smaller ones) or PP (for injection unit above model 18050).
7. The blue and green words respectively represent the standard configuration of clamping unit and injection unit.
8. Because of constant technical improvement, the machine specifications are subject to change without notice.

| UN1300DP/UN1500DP            |       |              |      |      |              |       |      |              |       |       |              |       |       |
|------------------------------|-------|--------------|------|------|--------------|-------|------|--------------|-------|-------|--------------|-------|-------|
| Description                  | UNIT  |              |      |      |              |       |      |              |       |       |              |       |       |
| Injection Unit               |       |              |      |      |              |       |      |              |       |       |              |       |       |
| Model                        |       | 9000         |      |      | 12050        |       |      | 18500        |       |       | 23750        |       |       |
| screw diameter               | mm    | 100          | 108  | 116  | 116          | 125   | 135  | 135          | 145   | 155   | 145          | 155   | 165   |
| theoretical shot volume      | cm³   | 4320         | 5039 | 5812 | 6341         | 7363  | 8588 | 10020        | 11559 | 13208 | 12385        | 14152 | 16037 |
| shot weight                  | g     | 3974         | 4636 | 5347 | 5833         | 6774  | 7901 | 9218         | 10634 | 12152 | 11394        | 13020 | 14756 |
| injection pressure           | MPa   | 209          | 179  | 155  | 190          | 164   | 140  | 184          | 160   | 140   | 192          | 168   | 148   |
| screw L: D ratio             |       | 21.6         | 20   | 20   | 22.1         | 20    | 20   | 23.6         | 22    | 20    | 23.5         | 22    | 20.1  |
| injection rate               | cm³/s | 766          | 894  | 1031 | 913          | 1060  | 1237 | 1251         | 1444  | 1650  | 1505         | 1715  | 1950  |
| max. injection speed         | mm/s  | 97.6         |      |      | 86.4         |       |      | 87.4         |       |       | 91.1         |       |       |
| screw stroke                 | µm    | 550          |      |      | 600          |       |      | 700          |       |       | 750          |       |       |
| max. screw speed             | r/min | 128          |      |      | 112          |       |      | 118          |       |       | 115          |       |       |
| screw torque                 | Nm    | 11982        |      |      | 14769        |       |      | 18949        |       |       | 24522        |       |       |
| plasticizing rate (PS)       | g/s   | 150          | 165  | 215  | 197          | 261   | 327  | 208          | 295   | 343   | 198          | 257   | 303   |
| heating capacity             | kW    | 46.5         |      |      | 66.3/63.3    |       |      | 93.7         |       |       | 106.6        |       |       |
| barrel heating zone number   |       | 7            |      |      | 8            |       |      | 8            |       |       | 10           |       |       |
| nozzle contact force         | kN    | 263.8        |      |      | 263.8        |       |      | 296.7        |       |       | 296.7        |       |       |
| carriage stroke              | mm    | 573          |      |      | 720          |       |      | 950          |       |       | 1050         |       |       |
| Clamping Unit                |       |              |      |      |              |       |      |              |       |       |              |       |       |
| clamping force               | kN    | 13000/15000  |      |      |              |       |      |              |       |       |              |       |       |
| opening force                | kN    | 476/1200     |      |      |              |       |      |              |       |       |              |       |       |
| platen size                  | mm    | 2340x2040    |      |      |              |       |      |              |       |       |              |       |       |
| space between tie-bars       | mm    | 1540x1280    |      |      |              |       |      |              |       |       |              |       |       |
| mold thickness               | mm    | 690/1460     |      |      |              |       |      |              |       |       |              |       |       |
| max. opening stroke          | mm    | 2410         |      |      |              |       |      |              |       |       |              |       |       |
| max. daylight                | mm    | 3100         |      |      |              |       |      |              |       |       |              |       |       |
| ejector force                | KN    | 300          |      |      |              |       |      |              |       |       |              |       |       |
| ejector stroke               | mm    | 380          |      |      |              |       |      |              |       |       |              |       |       |
| ejector number               |       | 24           |      |      |              |       |      |              |       |       |              |       |       |
| Electrical & Hydraulic Units |       |              |      |      |              |       |      |              |       |       |              |       |       |
| system pressure              | MPa   | 17.5,25      |      |      | 17.5 , 25    |       |      | 17.5,25      |       |       | 17.5 , 25    |       |       |
| motor                        | kW    | 39.4x2+31    |      |      | 39.4x3       |       |      | 62x3         |       |       | 62x3+39.4    |       |       |
| pump flow                    | L/min | 549          |      |      | 594          |       |      | 801          |       |       | 1008         |       |       |
| total power                  | kW    | 156.3        |      |      | 181.5        | 184.5 |      | 274.1        |       |       | 332          |       |       |
| General                      |       |              |      |      |              |       |      |              |       |       |              |       |       |
| oil tank capacity            | L     | 1600         |      |      | 2000         |       |      | 2500         |       |       | 3200         |       |       |
| dry cycle                    | s     | 7.2          |      |      | 6.8          |       |      | 6.7          |       |       | 6.4          |       |       |
| max. mold weight             | T     | 30           |      |      | 30           |       |      | 30           |       |       | 30           |       |       |
| injection units, no oil)     | T     | 55+14        |      |      | 55+19        |       |      | 55+28        |       |       | 55+30        |       |       |
| machine dimensions           | m     | 11.8x3.7x3.0 |      |      | 11.8x3.7x3.0 |       |      | 13.2x3.7x3.0 |       |       | 13.2x3.7x3.0 |       |       |

Note:

1. Dry cycle time accords with EUROMAP 6.
2. The mold-bearing capacity of moving platen is 2/3 of total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. Three kinds of screws are available for each model and the medium one is standard on the machine.
5. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm<sup>3</sup>] × injection pressure [MPa]/100
6. Plasticizing capacity is calculated by GPPS (for the injection unit model 18050 and smaller ones) or PP (for injection unit above model 18050).
7. The blue and green words respectively represent the standard configuration of clamping unit and injection unit.
8. Because of constant technical improvement, the machine specifications are subject to change without notice.

| UN1700DP                     |       |              |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
|------------------------------|-------|--------------|------|------|--------------|-------|------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
| Description                  | UNIT  |              |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| Injection Unit               |       |              |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| Model                        |       | 9000         |      |      | 12050        |       |      | 18500        |       |       | 23750        |       |       | 31750        |       |       |
| screw diameter               | mm    | 100          | 108  | 116  | 116          | 125   | 135  | 135          | 145   | 155   | 145          | 155   | 165   | 155          | 165   | 180   |
| theoretical shot volume      | cm³   | 4320         | 5039 | 5812 | 6341         | 7363  | 8588 | 10020        | 11559 | 13208 | 12385        | 14152 | 16037 | 15661        | 17747 | 21121 |
| shot weight                  | g     | 3974         | 4636 | 5347 | 5833         | 6774  | 7901 | 9218         | 10634 | 12152 | 11394        | 13020 | 14756 | 14407        | 16327 | 19430 |
| injection pressure           | MPa   | 209          | 179  | 155  | 190          | 164   | 140  | 184          | 160   | 140   | 192          | 168   | 148   | 203          | 179   | 155   |
| screw L: D ratio             |       | 21.6         | 20   | 20   | 22           | 20    | 20   | 23.6         | 22    | 20    | 23.5         | 22    | 20.1  | 23.4         | 22.1  | 20    |
| injection rate               | cm³/s | 766          | 894  | 1031 | 913          | 1060  | 1237 | 1251         | 1444  | 1650  | 1505         | 1715  | 1950  | 1680         | 1903  | 2265  |
| max. injection speed         | mm/s  | 97.6         |      |      | 86.4         |       |      | 87.4         |       |       | 91.1         |       |       | 89.0         |       |       |
| screw stroke                 | µm    | 550          |      |      | 600          |       |      | 700          |       |       | 750          |       |       | 830          |       |       |
| max. screw speed             | r/min | 128          |      |      | 112          |       |      | 118          |       |       | 115          |       |       | 129          |       |       |
| screw torque                 | Nm    | 11982        |      |      | 14769        |       |      | 18949        |       |       | 24522        |       |       | 28008        |       |       |
| plasticizing rate (PS)       | g/s   | 150          | 165  | 215  | 197          | 261   | 327  | 208          | 295   | 343   | 198          | 257   | 303   | 250          | 291   | 336   |
| heating capacity             | kW    | 46.5         |      |      | 63.3/66.3    |       |      | 93.7         |       |       | 106.6        |       |       | 126.1        |       |       |
| barrel heating zone number   |       | 7            |      |      | 8            |       |      | 8            |       |       | 10           |       |       | 10           |       |       |
| nozzle contact force         | kN    | 263.8        |      |      | 263.8        |       |      | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       |
| carriage stroke              | mm    | 573          |      |      | 720          |       |      | 950          |       |       | 1050         |       |       | 1050         |       |       |
| Clamping Unit                |       |              |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| clamping force               | kN    | 17000        |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| opening force                | kN    | 476/1700     |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| platen size                  | mm    | 2450x2200    |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| space between tie-bars       | mm    | 1870x1425    |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| mold thickness               | mm    | 750/1650     |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| max. opening stroke          | mm    | 2700         |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| max. daylight                | mm    | 3450         |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| ejector force                | KN    | 300          |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| ejector stroke               | mm    | 400          |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| ejector number               |       | 33           |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| Electrical & Hydraulic Units |       |              |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| system pressure              | MPa   | 17.5,25      |      |      | 17.5 , 25    |       |      | 17.5,25      |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       |
| motor                        | kW    | 39.4x2+31    |      |      | 39.4x3       |       |      | 62x3         |       |       | 62x3+39.4    |       |       | 62x4+39.4    |       |       |
| pump flow                    | L/min | 549          |      |      | 594          |       |      | 801          |       |       | 1008         |       |       | 1296         |       |       |
| total power                  | kW    | 156.3        |      |      | 181.5        | 184.5 |      | 274.1        |       |       | 332          |       |       | 413.5        |       |       |
| General                      |       |              |      |      |              |       |      |              |       |       |              |       |       |              |       |       |
| oil tank capacity            | L     | 1600         |      |      | 2000         |       |      | 2500         |       |       | 3200         |       |       | 4000         |       |       |
| dry cycle                    | s     | 7.2          |      |      | 6.8          |       |      | 6.7          |       |       | 6.4          |       |       | 6.4          |       |       |
| max. mold weight             | T     | 45           |      |      | 45           |       |      | 45           |       |       | 45           |       |       | 45           |       |       |
| injection units, no oil)     | T     | 68+14        |      |      | 68+19        |       |      | 68+28        |       |       | 68+30        |       |       | 68+37        |       |       |
| machine dimensions           | m     | 12.0x4.0x3.1 |      |      | 12.0x4.0x3.1 |       |      | 13.4x4.0x3.1 |       |       | 13.4x4.0x3.1 |       |       | 14.5x4.0x3.1 |       |       |

Note:

1. Dry cycle time accords with EUROMAP 6.
2. The mold-bearing capacity of moving platen is 2/3 of total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. Three kinds of screws are available for each model and the medium one is standard on the machine.
5. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm<sup>3</sup>] × injection pressure [MPa]/100
6. Plasticizing capacity is calculated by GPPS (for the injection unit model 18050 and smaller ones) or PP (for injection unit above model 18050).
7. The blue and green words respectively represent the standard configuration of clamping unit and injection unit.
8. Because of constant technical improvement, the machine specifications are subject to change without notice.

| UN2000DP/UN2300DP            |       |              |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
|------------------------------|-------|--------------|-------|------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
| Description                  | UNIT  |              |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| Injection Unit               |       |              |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| Model                        |       | 12050        |       |      | 18500        |       |       | 23750        |       |       | 31750        |       |       | 44500        |       |       |
| screw diameter               | mm    | 116          | 125   | 135  | 135          | 145   | 155   | 145          | 155   | 165   | 155          | 165   | 180   | 180          | 190   | 200   |
| theoretical shot volume      | cm³   | 6341         | 7363  | 8588 | 10020        | 11559 | 13208 | 12385        | 14152 | 16037 | 15661        | 17747 | 21121 | 23666        | 26368 | 29217 |
| shot weight                  | g     | 5833         | 6774  | 7901 | 9218         | 10634 | 12152 | 11394        | 13020 | 14756 | 14407        | 16327 | 19430 | 21536        | 23995 | 26588 |
| injection pressure           | MPa   | 190          | 164   | 140  | 184          | 160   | 140   | 192          | 168   | 148   | 203          | 179   | 150   | 189          | 169   | 153   |
| screw L: D ratio             |       | 22.1         | 20    | 20   | 23.6         | 22    | 20    | 23.5         | 22    | 20.1  | 23.4         | 22.1  | 20    | 23.4         | 22.1  | 20    |
| injection rate               | cm³/s | 913          | 1060  | 1237 | 1251         | 1444  | 1650  | 1505         | 1715  | 1950  | 1680         | 1903  | 2265  | 2175         | 2425  | 2685  |
| max. injection speed         | mm/s  | 86.4         |       |      | 87.4         |       |       | 91.1         |       |       | 89.0         |       |       | 85.5         |       |       |
| screw stroke                 | µm    | 600          |       |      | 700          |       |       | 750          |       |       | 830          |       |       | 930          |       |       |
| max. screw speed             | r/min | 112          |       |      | 117          |       |       | 115          |       |       | 129          |       |       | 75           |       |       |
| screw torque                 | Nm    | 14769        |       |      | 18949        |       |       | 24522        |       |       | 28008        |       |       | 33439        |       |       |
| plasticizing rate (PS)       | g/s   | 197          | 261   | 327  | 208          | 295   | 343   | 198          | 257   | 303   | 250          | 291   | 336   | 324          | 379   | 416   |
| heating capacity             | kW    | 66.3/63.3    |       |      | 93.7         |       |       | 106.6        |       |       | 170          | 183   | 189   | 170          |       |       |
| barrel heating zone number   |       | 8            |       |      | 8            |       |       | 10           |       |       | 10           |       |       | 8            |       |       |
| nozzle contact force         | kN    | 263.8        |       |      | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       |
| carriage stroke              | mm    | 720          |       |      | 950          |       |       | 1050         |       |       | 1050         |       |       | 1300         |       |       |
| Clamping Unit                |       |              |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| clamping force               | kN    | 20000/23000  |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| opening force                | kN    | 614/1700     |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| platen size                  | mm    | 2900x2440    |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| space between tie-bars       | mm    | 2020x1620    |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| mold thickness               | mm    | 750/1810     |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| max. opening stroke          | mm    | 3060         |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| max. daylight                | mm    | 3810         |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| ejector force                | KN    | 460          |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| ejector stroke               | mm    | 430          |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| ejector number               |       | 33           |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| Electrical & Hydraulic Units |       |              |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| system pressure              | MPa   | 17.5 , 25    |       |      | 17.5,25      |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       |
| motor                        | kW    | 39.4x3       |       |      | 62x2+56.4    |       |       | 62x3+39.4    |       |       | 62x4+39.4    |       |       | 62x5+39.4    |       |       |
| pump flow                    | L/min | 594          |       |      | 798          |       |       | 1008         |       |       | 1296         |       |       | 1584         |       |       |
| total power                  | kW    | 181.5        | 184.5 |      | 274.1        |       |       | 332          |       |       | 457.4        |       |       | 519.4        | 532.4 | 538.4 |
| General                      |       |              |       |      |              |       |       |              |       |       |              |       |       |              |       |       |
| oil tank capacity            | L     | 2000         |       |      | 2500         |       |       | 3200         |       |       | 4000         |       |       | 4000         |       |       |
| dry cycle                    | S     | 11.5         |       |      | 10.5         |       |       | 9.5          |       |       | 9            |       |       | 9            |       |       |
| max. mold weight             | T     | 60           |       |      | 60           |       |       | 60           |       |       | 60           |       |       | 60           |       |       |
| injection units, no oil)     | T     | 94+19        |       |      | 94+28        |       |       | 94+30        |       |       | 94+37        |       |       | 94+37        |       |       |
| machine dimensions           | m     | 12.8x4.4x3.4 |       |      | 14.1x4.4x3.4 |       |       | 14.1x4.4x3.4 |       |       | 15.2x4.4x3.4 |       |       | 15.2x4.4x3.4 |       |       |

Note:

- Dry cycle time accords with EUROMAP 6.
- The mold-bearing capacity of moving platen is 2/3 of total mold weight.
- The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
- Three kinds of screws are available for each model and the medium one is standard on the machine.
- The injection unit data are in international units and calculated as follows: theoretical shot volume [cm<sup>3</sup>] × injection pressure [MPa]/100
- Plasticizing capacity is calculated by GPPS (for the injection unit model 18050 and smaller ones) or PP (for injection unit above model 18050).
- The blue and green words respectively represent the standard configuration of clamping unit and injection unit.
- Because of constant technical improvement, the machine specifications are subject to change without notice.

| UN2700DP                     |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
|------------------------------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|
| Description                  | UNIT  |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| Injection Unit               |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| Model                        |       | 18500      |       |       | 23750      |       |       | 31750      |       |       | 44500      |       |       | 54500      |       |       | 75500      |       |       | 100000     |       |       |
| screw diameter               | mm    | 135        | 145   | 155   | 145        | 155   | 165   | 155        | 165   | 180   | 180        | 190   | 200   | 190        | 200   | 215   | 215        | 230   | 245   | 230        | 245   | 260   |
| theoretical shot volume      | cm³   | 10020      | 11559 | 13208 | 12385      | 14152 | 16037 | 15661      | 17747 | 21121 | 23666      | 26368 | 29217 | 28353      | 31416 | 36305 | 41025      | 46949 | 53272 | 56089      | 63644 | 71675 |
| shot weight                  | g     | 9218       | 10634 | 12152 | 11394      | 13020 | 14756 | 14407      | 16327 | 19430 | 21536      | 23995 | 26588 | 25803      | 28590 | 33038 | 37335      | 42725 | 48478 | 51043      | 57918 | 65225 |
| injection pressure           | MPa   | 184        | 160   | 140   | 192        | 168   | 148   | 203        | 179   | 150   | 189        | 169   | 153   | 193        | 174   | 151   | 185        | 161   | 142   | 183        | 161   | 143   |
| screw L: D ratio             |       | 23.6       | 22    | 22    | 23.5       | 22    | 20.1  | 23.4       | 22.1  | 20    | 23.4       | 22.1  | 20    | 23.4       | 22.1  | 20    | 23.4       | 22.1  | 20    | 23.4       | 22.1  | 20    |
| injection rate               | cm³/s | 1251       | 1444  | 1650  | 1505       | 1715  | 1950  | 1680       | 1903  | 2265  | 2175       | 2425  | 2685  | 1760       | 1950  | 2255  | 2190       | 2500  | 2845  | 2500       | 2840  | 3190  |
| max. injection speed         | mm/s  | 87.4       |       |       | 91.1       |       |       | 89.0       |       |       | 85.5       |       |       | 85.5       |       |       | 60.3       |       |       | 60.2       |       |       |
| screw stroke                 | µm    | 700        |       |       | 750        |       |       | 830        |       |       | 930        |       |       | 930        |       |       | 1130       |       |       | 1350       |       |       |
| max. screw speed             | r/min | 117        |       |       | 115        |       |       | 129        |       |       | 75         |       |       | 75         |       |       | 62         |       |       | 45         |       |       |
| screw torque                 | Nm    | 18949      |       |       | 24522      |       |       | 28008      |       |       | 33439      |       |       | 33439      |       |       | 55732      |       |       | 76433      |       |       |
| plasticizing rate (PS)       | g/s   | 208        | 295   | 343   | 198        | 257   | 303   | 250        | 291   | 336   | 324        | 379   | 416   | 324        | 379   | 416   | 430        | 530   | 599   | 338        | 413   | 450   |
| heating capacity             | kW    | 93.7       |       |       | 106.6      |       |       | 126.1      |       |       | 170        | 183   | 189   | 170        | 183   | 189   | 263        | 281   | 300   | 281        | 300   | 342   |
| barrel heating zone number   |       | 8          |       |       | 10         |       |       | 10         |       |       | 8          | 9     | 9     | 8          | 9     | 9     | 9          | 10    | 11    | 9          | 10    | 11    |
| nozzle contact force         | kN    | 296.7      |       |       | 296.7      |       |       | 296.7      |       |       | 296.7      |       |       | 296.7      |       |       | 296.7      |       |       | 296.7      |       |       |
| carriage stroke              | mm    | 950        |       |       | 1050       |       |       | 1050       |       |       | 1300       |       |       | 1300       |       |       | 2000       |       |       | 2000       |       |       |
| Clamping Unit                |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| clamping force               | kN    | 27000      |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| opening force                | kN    | 770/1950   |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| platen size                  | mm    | 2950x2600  |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| space between tie-bars       | mm    | 2180x1755  |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| mold thickness               | mm    | 790/2010   |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| max. opening stroke          | mm    | 3110       |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| max. daylight                | mm    | 4100       |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| ejector force                | KN    | 460        |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| ejector stroke               | mm    | 500        |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| ejector number               |       | 25         |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| Electrical & Hydraulic Units |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| system pressure              | MPa   | 17.5,25    |       |       | 17.5 , 25  |       |       | 17.5 , 25  |       |       | 17.5 , 25  |       |       | 17.5 , 25  |       |       | 17.5 , 25  |       |       | 17.5 , 25  |       |       |
| motor                        | kW    | 62x2+56.4  |       |       | 62x3+39.4  |       |       | 62x4+39.4  |       |       | 62x5+39.4  |       |       | 62x6+39.4  |       |       | 62x7+39.4  |       |       | 62x7+39.4  |       |       |
| pump flow                    | L/min | 798        |       |       | 1008       |       |       | 1296       |       |       | 1584       |       |       | 1872       |       |       | 2160       |       |       | 2160       |       |       |
| total power                  | kW    | 274.1      |       |       | 332        |       |       | 413.5      |       |       | 519.4      | 532.4 | 538.4 | 554        | 561   | 584   | 697        | 715   | 734   | 715        | 734   | 776   |
| General                      |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| oil tank capacity            | L     | 2500       |       |       | 3200       |       |       | 4000       |       |       | 4000       |       |       | 5300       |       |       | 5300       |       |       | 5300       |       |       |
| dry cycle                    | s     | 11         |       |       | 10.5       |       |       | 10         |       |       | 9.5        |       |       | 9.5        |       |       | 9          |       |       | 9          |       |       |
| max. mold weight             | T     | 75         |       |       | 75         |       |       | 75         |       |       | 75         |       |       | 75         |       |       | 75         |       |       | 60         |       |       |
| injection units, no oil)     | T     | 119+28     |       |       | 119+30     |       |       | 119+37     |       |       | 119+41     |       |       | 119+60     |       |       | 119+60     |       |       | 119+65     |       |       |
| machine dimensions           | m     | 149x49x3.7 |       |       | 149x49x3.7 |       |       | 162x49x3.7 |       |       | 163x49x3.7 |       |       | 202x49x3.7 |       |       | 202x49x3.7 |       |       | 232x49x3.7 |       |       |

Note:

1. Dry cycle time accords with EUROMAP 6.

2. The mold-bearing capacity of moving platen is 2/3 of total mold weight.

3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

4. Three kinds of screws are available for each model and the medium one is standard on the machine.

5. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm<sup>3</sup>] × injection pressure [MPa]/100

6. Plasticizing capacity is calculated by GPPS (for the injection unit model 18050 and smaller ones) or PP (for injection unit above model 18050).

7. The blue and green words respectively represent the standard configuration of clamping unit and injection unit.

8. Because of constant technical improvement, the machine specifications are subject to change without notice.

| UN3200DP                     |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
|------------------------------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
| Description                  | UNIT  |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| Injection Unit               |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| Model                        |       | 18500        |       |       | 23750        |       |       | 31750        |       |       | 44500        |       |       | 54500        |       |       | 75500        |       |       | 100000       |       |       |
| screw diameter               | mm    | 135          | 145   | 155   | 145          | 155   | 165   | 155          | 165   | 180   | 180          | 190   | 200   | 190          | 200   | 215   | 215          | 230   | 245   | 230          | 245   | 260   |
| theoretical shot volume      | cm³   | 10020        | 11559 | 13208 | 12385        | 14152 | 16037 | 15661        | 17747 | 21121 | 23666        | 26368 | 29217 | 28353        | 31416 | 36305 | 41025        | 46949 | 53272 | 56089        | 63644 | 71675 |
| shot weight                  | g     | 9218         | 10634 | 12152 | 11394        | 13020 | 14756 | 14407        | 16327 | 19430 | 21536        | 23995 | 26588 | 25803        | 28590 | 33038 | 37335        | 42725 | 48478 | 51043        | 57918 | 65225 |
| injection pressure           | MPa   | 184          | 160   | 140   | 192          | 168   | 148   | 203          | 179   | 150   | 189          | 169   | 153   | 193          | 174   | 151   | 185          | 161   | 142   | 183          | 161   | 143   |
| screw L: D ratio             |       | 23.6         | 22    | 22    | 23.5         | 22    | 20.1  | 23.4         | 22.1  | 20    | 23.4         | 22.1  | 20    | 23.4         | 22.1  | 20    | 23.4         | 22.1  | 20    | 23.4         | 22.1  | 20    |
| injection rate               | cm³/s | 1251         | 1444  | 1650  | 1505         | 1715  | 1950  | 1680         | 1903  | 2265  | 2175         | 2425  | 2685  | 1760         | 1950  | 2255  | 2190         | 2500  | 2845  | 2500         | 2840  | 3190  |
| max. injection speed         | mm/s  | 87.4         |       |       | 91.1         |       |       | 89.0         |       |       | 85.5         |       |       | 62.1         |       |       | 60.3         |       |       | 60.2         |       |       |
| screw stroke                 | µm    | 700          |       |       | 750          |       |       | 830          |       |       | 930          |       |       | 1000         |       |       | 1130         |       |       | 1350         |       |       |
| max. screw speed             | r/min | 117          |       |       | 115          |       |       | 129          |       |       | 75           |       |       | 65           |       |       | 62           |       |       | 45           |       |       |
| screw torque                 | Nm    | 18949        |       |       | 24522        |       |       | 28008        |       |       | 33439        |       |       | 46178        |       |       | 55732        |       |       | 76433        |       |       |
| plasticizing rate (PS)       | g/s   | 208          | 295   | 343   | 198          | 257   | 303   | 250          | 291   | 336   | 324          | 379   | 416   | 320          | 376   | 450   | 430          | 530   | 599   | 338          | 413   | 450   |
| heating capacity             | kW    | 93.7         |       |       | 106.6        |       |       | 126.1        |       |       | 170          | 183   | 189   | 182          | 189   | 212   | 263          | 281   | 300   | 281          | 300   | 342   |
| barrel heating zone number   |       | 8            |       |       | 10           |       |       | 10           |       |       | 8            | 9     | 9     |              | 899   |       | 9            | 10    | 11    | 9            | 10    | 11    |
| nozzle contact force         | kN    | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       | 296.7        |       |       |
| carriage stroke              | mm    | 950          |       |       | 1050         |       |       | 1050         |       |       | 1300         |       |       | 2000         |       |       | 2000         |       |       | 2000         |       |       |
| Clamping Unit                |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| clamping force               | kN    | 32000        |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| opening force                | kN    | 1010/2150    |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| platen size                  | mm    | 3050x2700    |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| space between tie-bars       | mm    | 2250x1810    |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| mold thickness               | mm    | 1090/2010    |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| max. opening stroke          | mm    | 3210         |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| max. daylight                | mm    | 4300         |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| ejector force                | KN    | 460          |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| ejector stroke               | mm    | 500          |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| ejector number               |       | 25           |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| Electrical & Hydraulic Units |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| system pressure              | MPa   | 17.5,25      |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       | 17.5 , 25    |       |       |
| motor                        | kW    | 62x2+56.4    |       |       | 62x3+39.4    |       |       | 62x4+39.4    |       |       | 62x5+39.4    |       |       | 62x6+39.4    |       |       | 62x7+39.4    |       |       | 62x7+39.4    |       |       |
| pump flow                    | L/min | 798          |       |       | 1008         |       |       | 1296         |       |       | 1584         |       |       | 1872         |       |       | 2160         |       |       | 2160         |       |       |
| total power                  | kW    | 274.1        |       |       | 332          |       |       | 413.5        |       |       | 519.4        | 532.4 | 538.4 | 554          | 561   | 584   | 697          | 715   | 734   | 715          | 734   | 776   |
| General                      |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |              |       |       |
| oil tank capacity            | L     | 2500         |       |       | 3200         |       |       | 4000         |       |       | 4000         |       |       | 5300         |       |       | 5300         |       |       | 5300         |       |       |
| dry cycle                    | s     | 13           |       |       | 12.5         |       |       | 12           |       |       | 11           |       |       | 11           |       |       | 10           |       |       | 9            |       |       |
| max. mold weight             | T     | 81           |       |       | 81           |       |       | 81           |       |       | 81           |       |       | 81           |       |       | 81           |       |       | 60           |       |       |
| injection units, no oil)     | T     | 143+28       |       |       | 143+30       |       |       | 143+37       |       |       | 143+41       |       |       | 143+60       |       |       | 143+60       |       |       | 143+65       |       |       |
| machine dimensions           | m     | 15.4x5.1x4.0 |       |       | 15.4x5.1x4.0 |       |       | 16.4x5.1x4.0 |       |       | 16.5x5.1x4.0 |       |       | 20.5x5.1x4.0 |       |       | 20.5x5.1x4.0 |       |       | 22.5x5.1x4.0 |       |       |

Note:

1. Dry cycle time accords with EUROMAP 6.
2. The mold-bearing capacity of moving platen is 2/3 of total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. Three kinds of screws are available for each model and the medium one is standard on the machine.
5. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm<sup>3</sup>] × injection pressure [MPa]/100
6. Plasticizing capacity is calculated by GPPS (for the injection unit model 18050 and smaller ones) or PP (for injection unit above model 18050).
7. The blue and green words respectively represent the standard configuration of clamping unit and injection unit.
8. Because of constant technical improvement, the machine specifications are subject to change without notice.