# EL-EXIS SP Ultra-High-Speed Hybrid Series

Detailed Specifications
METRIC UNITS

# Technical Data El-Exis SP 150/500

| Sumitomo (SHI) Demag | | El-Exis SP 150/500 | | |
|---|---|---|---|---|
| Model description | | El-Exis SP 150/500-475 | El-Exis SP 150/500-675 | El-Exis SP 150/500-920 |
| International size description | | 1500-475 | 1500-675 | 1500-920 |
| **Clamping unit** | | **150/500** | | |
| Clamping Force / Locking Force | [kN] | 1500/1650 | | |
| Max. mould opening stroke | [mm] | 500 | | |
| Mould height Min./WA211 | [mm] | 250 | | |
| Max./enlarged mould height | [mm] | 560/660 | | |
| Daylight between platens max./enl. | [mm] | 1060/1160 | | |
| Mould platen (h x v) | [mm] | 750x750 | | |
| Distance between tie bars (h x v) | [mm] | 500x500 | | |
| Min. permissible mould diameter (k) | [mm] | 300 | | |
| Max mould weight / mov./ fixed | [kg] | 2200 [1]/1550/1150 | | |
| Ejection stroke std./enlarged | [mm] | 100 | | |
| Ejection / Retraction force | [kN] | 65/32 | | |

| Injection unit | | 475 | | 675 | | 920 | |
|---|---|---|---|---|---|---|---|
| Screw diameter | [mm] | 35 | 40 | 40 | 45 | 45 | 50 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 25 | 25 | 25 | 25 | 25 | 25 |
| Spec. injection pressure (up to 400°C) | [bar] | 2423 | 2051 | 2418 | 2180 | 2426 | 2150 |
| Cylinder head volume, max. | [cm³] | 177 | 231 | 255 | 323 | 358 | 442 |
| Max. shot weight (PS, PE*) | [g] | 129* | 169* | 186* | 236* | 261* | 323* |
| **Max. rate of injection** | | | | | | | |
| > With accumulator | [cm³/s] | 962 | 1257 | 1257 | 1590 | 1590 | 1963 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **34*** | **51*** | **45*** | **60*** | **54*** | **71*** |
| Max. screw stroke | [mm] | 184 | | 203 | | 225 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 740/540 | 590/540 | 770/620 | 570/540 | 925/640 | 725/625 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | | 110 | |
| Number of heating zones | | 6 | 6 | 6 | 6 | 6 | 6 |

| General data | | 150/500-475 | | 150/500-675 | | 150/500-920 | |
|---|---|---|---|---|---|---|---|
| Oil tank capacity [4] | [ltr.] | 400 | | | | | |
| **Installed electrical rating** | | | | | | | |
| > Pump [5] | [~kW] | 18,5 | | | | | |
| > Electric screw drive (WA313) | [~kW] | 26,4 | | 35,8 | | 54,0 | |
| > Capacity clamp unit [6] | [~kW] | 22 | | 22 | | 22 | |
| > Heating capacity of screw cylinder [6] | [~kW] | 13,6 | 14,6 | 14,6 | 16,4 | 16,4 | 23,0 |
| > Total capacity | [~kW] | 80,5 | 81,5 | 90,9 | 92,7 | 110,9 | 117,5 |
| Dry cycle time (Euromap 6) [7] | [s-mm] | 1,0-350 | | | | | |
| Dry cycles with unlocking time | [s-mm] | 1,15-350 | | | | | |
| Net weight (without oil) [8] | [~kg] | 7665 | | 7823 | | 8243 | |
| Transport dimensions (l x w x h) | [~m] | 5,96x1,66x2,17 | | 6,16x1,66x2,17 | | 6,51x1,66x2,17 | |
| Electric drive projection max. (h) | [mm] | 179/853 | 322/853 | 323/1034 | 525/1034 | 613/1442 | 808/1442 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) First filling / operating
5) WA109
6) Parallel movement of all axis possible
7) Standard/twin pump (WA109)
8) The net weight of the machine may vary depending on equipment

# Technical Data El-Exis SP 200/560

| Sumitomo (SHI) Demag | | El-Exis SP 200/560 | | |
|---|---|---|---|---|
| Model description | | El-Exis SP 200/560-675 | El-Exis SP 200/560-920 | El-Exis SP 200/560-1600 |
| International size description | | 2000-675 | 2000-920 | 2000-1600 |
| **Clamping unit** | | **200/560** | | |
| Clamping Force / Locking Force | [kN] | 2000/2200 | | |
| Max. mould opening stroke | [mm] | 575 | | |
| Mould height Min./WA211 | [mm] | 310 | | |
| Max./enlarged mould height | [mm] | 660/760 | | |
| Daylight between platens max./enl. | [mm] | 1235/1335 | | |
| Mould platen (h x v) | [mm] | 830x830 | | |
| Distance between tie bars (h x v) | [mm] | 560x560 | | |
| Min. permissible mould diameter (k) | [mm] | 350 | | |
| Max mould weight / mov./ fixed | [kg] | 3300 [1]/1800/2500 | | |
| Ejection stroke std./enlarged | [mm] | 140 | | |
| Ejection / Retraction force | [kN] | 65/32 | | |

| Injection unit | | 675 | | 920 | | 1600 | |
|---|---|---|---|---|---|---|---|
| Screw diameter | [mm] | 40 | 45 | 45 | 50 | 50 | 60 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 25 | 25 | 25 | 25 | 25 | 25 |
| Spec. injection pressure (up to 400°C) | [bar] | 2418 | 2180 | 2426 | 2150 | 2426 | 2106 |
| Cylinder head volume, max. | [cm³] | 255 | 323 | 358 | 442 | 530 | 763 |
| Max. shot weight (PS, PE*) | [g] | 186* | 236* | 261* | 323* | 387* | 557* |
| **Max. rate of injection** | | | | | | | |
| > With accumulator | [cm³/s] | 1257 | 1590 | 1590 | 1963 | 1963 | 2827 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **45*** | **60*** | **54*** | **71*** | **60*** | **100*** |
| Max. screw stroke | [mm] | 203 | | 225 | | 270 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 625/460 | 425/325 | 725/440 | 525/425 | 985/465 | 660/440 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 730/565 | 530/430 | 830/545 | 630/530 | 1090/570 | 765/545 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | | 110 | |
| Number of heating zones | | 6 | 6 | 6 | 6 | 6 | 6 |

| General data | | 200/560-675 | | 200/560-920 | | 200/560-1600 | |
|---|---|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 400 | | | | | |
| **Installed electrical rating** | | | | | | | |
| > Pump [6] | [~kW] | 18,5 | | 30 | | 30 | |
| > Electric screw drive (WA313) | [~kW] | 35,8 | | 54,0 | | 58 | |
| > Capacity clamp unit [7] | [~kW] | 32,4 | | 32,4 | | 32 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 14,6 | 16,4 | 16,4 | 23,0 | 23,0 | 28,6 |
| > Total capacity | [~kW] | 101,3 | 103,1 | 132,8 | 139,4 | 143,0 | 148,6 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,15-392 | | | | | |
| Dry cycles with unlocking time | [s-mm] | 1,30-392 | | | | | |
| Net weight (without oil) [9] | [~kg] | 9713 | | 10185 | | 10427 | |
| Transport dimensions (l x w x h) | [~m] | 6,61x1,76x2,28 | | 6,92x1,76x2,28 | | 7,55x1,76x2,28 | |
| Electric drive projection max. (h) | [mm] | 123/850 | 325/850 | 413/1255 | 608/1255 | 922/2007 | 1252/2007 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment

# Technical Data El-Exis SP 250/630

| Sumitomo (SHI) Demag | | El-Exis SP 250/630 | | |
|---|---|---|---|---|
| Model description | | El-Exis SP 250/630-920 | El-Exis SP 250/630-1600 | El-Exis SP 250/630-2500 |
| International size description | | 2500-920 | 2500-1600 | 2500-2500 |
| **Clamping unit** | | **250/630** | | |
| Clamping Force / Locking Force | [kN] | 2500/2750 | | |
| Max. mould opening stroke | [mm] | 670 | | |
| Mould height Min./WA211 | [mm] | 330 | | |
| Max./enlarged mould height | [mm] | 710/830 | | |
| Daylight between platens max./enl. | [mm] | 1380/1500 | | |
| Min. permissible mould diameter (k) | [mm] | 400 | | |
| Mould platen (h x v) | [mm] | 950x950 | | |
| Distance between tie bars (h x v) | [mm] | 630x630 | | |
| Max mould weight / mov./ fixed | [kg] | 4300 [1]/2305/3300 | | |
| Ejection stroke std./enlarged | [mm] | 140 | | |
| Ejection stroke AWH forced (optional) | [mm] | 140 | | |
| Ejection / Retraction force | [kN] | 81/40 | | |
| Ejection/retraction force AWH forced (opt.) | [kN] | 165/59 | | |

| **Injection unit** | | **920** | | **1600** | | **2500** | |
|---|---|---|---|---|---|---|---|
| Screw diameter | [mm] | 45 | 50 | 50 | 60 | 60 | 70 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 25 | 25 | 25 | 25 | 25 | 25 |
| Spec. injection pressure (up to 400°C) | [bar] | 2426 | 2150 | 2426 | 2106 | 2420 | 2074 |
| Cylinder head volume, max. | [cm³] | 358 | 442 | 530 | 763 | 891 | 1212 |
| Max. shot weight (PS, PE*) | [g] | 261* | 323* | 387* | 557* | 650* | 885* |
| **Max. rate of injection** | | | | | | | |
| > With accumulator | [cm³/s] | 1590 | 1963 | 1963 | 2827 | 2827 | 3848 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **54*** | **71*** | **60*** | **100*** | **88*** | **126*** |
| Max. screw stroke | [mm] | 225 | | 270 | | 315 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 815/530 | 615/515 | 965/555 | 640/530 | 1065/530 | 710/515 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 920/635 | 720/620 | 1070/660 | 745/635 | 1170/635 | 815/620 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | | 110 | |
| Hopper capacity, optional | [ltr.] | 70 | | 110 | | 110 | |
| Number of heating zones | | 6 | 6 | 6 | 6 | 6 | 6 |

| **General data** | | **250/630-920** | | **250/630-1600** | | **250/630-2500** | |
|---|---|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 550 | | | | | |
| **Installed electrical rating** | | | | | | | |
| > Pump [6] | [~kW] | 30 | | 30 | | 45 | |
| > Electric screw drive (WA313) | [~kW] | 54 | | 57,9 | | 71 | |
| > Capacity clamp unit [7] | [~kW] | 47 | | 47 | | 47 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 16,4 | 23,0 | 23,0 | 28,6 | 28,6 | 32,9 |
| > Total capacity | [~kW] | 147,4 | 154,0 | 157,9 | 163,5 | 193,1 | 197,4 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,2-441 | | | | | |
| Dry cycles with unlocking time | [s-mm] | 1,35-441 | | | | | |
| Net weight (without oil) [9] | [~kg] | 14117 | | 14149 | | 15062 | |
| Transport dimensions (l x w x h) | [~m] | 7,18x1,92x2,41 | | 7,75x1,92x2,41 | | 8,13x1,92x2,41 | |
| Electric drive projection max. (h) | [mm] | 165/975 | 360/975 | 552/1617 | 882/1617 | 941/2105 | 1295/2105 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment

# Technical Data El-Exis SP 300/720

| Sumitomo (SHI) Demag | | El-Exis SP 300/720 | | |
|---|---|---|---|---|
| Model description | | El-Exis SP 300/720-920 | El-Exis SP 300/720-1600 | El-Exis SP 300/720-2500 |
| International size description | | 3000-920 | 3000-1600 | 3000-2500 |
| **Clamping unit** | | **300/720** | | |
| Clamping Force / Locking Force | [kN] | 3000/3300 | | |
| Max. mould opening stroke | [mm] | 730 | | |
| Mould height Min./WA211 | [mm] | 320 | | |
| Max./enlarged mould height | [mm] | 715/920 | | |
| Daylight between platens max./enl. | [mm] | 1445/1650 | | |
| Mould platen (h x v) | [mm] | 1040x1060 | | |
| Distance between tie bars (h x v) | [mm] | 720x720 | | |
| Min. permissible mould diameter (k) | [mm] | 400 | | |
| Max mould weight / mov./ fixed | [kg] | 4700 [1]/2300/3600 | | |
| Ejection stroke std./enlarged | [mm] | 150 | | |
| Ejection / Retraction force | [kN] | 81/40 | | |

| **Injection unit** | | **920** | | **1600** | | **2500** | |
|---|---|---|---|---|---|---|---|
| Screw diameter | [mm] | 45 | 50 | 50 | 60 | 60 | 70 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 25 | 25 | 25 | 25 | 25 | 25 |
| Spec. injection pressure (up to 400°C) | [bar] | 2426 | 2150 | 2426 | 2106 | 2420 | 2074 |
| Cylinder head volume, max. | [cm³] | 358 | 442 | 530 | 763 | 891 | 1212 |
| Max. shot weight (PS, PE*) | [g] | 261* | 323* | 387* | 557* | 650* | 885* |
| **Max. rate of injection** | | | | | | | |
| > With accumulator | [cm³/s] | 1590 | 1963 | 1963 | 2827 | 2827 | 3848 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **54*** | **71*** | **60*** | **100*** | **88*** | **126*** |
| Max. screw stroke | [mm] | 225 | | 270 | | 315 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 780/565 | 580/530 | 940/545 | 615/520 | 1100/565 | 745/550 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 885/670 | 685/635 | 1045/650 | 720/625 | 1205/670 | 850/655 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | | 110 | |
| Number of heating zones | | 6 | 6 | 6 | 6 | 6 | 6 |

| **General data** | | **300/720-920** | | **300/720-1600** | | **300/720-2500** | |
|---|---|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 550 | | | | | |
| **Installed electrical rating** | | | | | | | |
| > Pump [6] | [~kW] | 30 | | 30 | | 45 | |
| > Electric screw drive (WA313) | [~kW] | 54,0 | | 57,9 | | 71 | |
| > Capacity clamp unit [7] | [~kW] | 47 | | 47 | | 47 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 16,4 | 23,0 | 23,0 | 28,6 | 28,6 | 32,9 |
| > Total capacity | [~kW] | 147,4 | 154,0 | 157,9 | 163,5 | 193,1 | 197,4 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,35-504 | | | | | |
| Dry cycles with unlocking time | [s-mm] | 1,55-504 | | | | | |
| Net weight (without oil) [9] | [~kg] | 16275 | | 16832 | | 17430 | |
| Transport dimensions (l x w x h) | [~m] | 7,55x2,01x2,57 | | 8,12x2,01x2,57 | | 8,50x2,01x2,57 | |
| Electric drive projection max. (h) | [mm] | 165/940 | 360/940 | 552/1592 | 882/1592 | 941/2141 | 1295/2141 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment

# Technical Data El-Exis SP 350/820-1600...350/820-2500

| Sumitomo (SHI) Demag | | El-Exis SP 350/820 | |
|---|---|---|---|
| Model description | | El-Exis SP 350/820-1600 | El-Exis SP 350/820-2500 |
| International size description | | 3500-1600 | 3500-2500 |
| **Clamping unit** | | **350/820** | |
| Clamping Force / Locking Force | [kN] | 3500/3850 | |
| Max. mould opening stroke | [mm] | 770 | |
| Mould height Min./WA211 | [mm] | 350 | |
| Max./enlarged mould height | [mm] | 795/1020 | |
| Daylight between platens max./enl. | [mm] | 1565/1790 | |
| Mould platen (h x v) | [mm] | 1200x1200 | |
| Distance between tie bars (h x v) | [mm] | 820x820 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 6600 [1]/3240/5100 | |
| Ejection stroke std./enlarged | [mm] | 180 | |
| Ejection stroke AWH forced (optional) | [mm] | 180 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| Ejection/retraction force AWH forced (opt.) | [kN] | 238/132 | |

| Injection unit | | 1600 | | 2500 | |
|---|---|---|---|---|---|
| Screw diameter | [mm] | 50 | 60 | 60 | 70 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 25 | 25 | 25 | 25 |
| Spec. injection pressure (up to 400°C) | [bar] | 2426 | 2106 | 2420 | 2074 |
| Cylinder head volume, max. | [cm³] | 530 | 763 | 891 | 1212 |
| Max. shot weight (PS, PE*) | [g] | 387* | 557* | 650* | 885* |
| **Max. rate of injection** | | | | | |
| > With accumulator | [cm³/s] | 1963 | 2827 | 2827 | 3848 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **60*** | **100*** | **88*** | **126*** |
| Max. screw stroke | [mm] | 270 | | 315 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 1000/650 | 675/625 | 1105/625 | 750/610 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 1105/755 | 780/730 | 1210/730 | 855/715 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | |
| Number of heating zones | | 6 | 6 | 6 | 6 |

| General data | | 350/820-1600 | 350/820-2500 |
|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 30 | 45 |
| > Electric screw drive (WA313) | [~kW] | 57,9 | 71 |
| > Capacity clamp unit [7] | [~kW] | 47 | 47 |
| > Heating capacity of screw cylinder [7] | [~kW] | 23,0 / 28,6 | 28,6 / 32,9 |
| > Total capacity | [~kW] | 157,9 / 163,5 | 193,1 / 197,4 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,45-574 | |
| Dry cycles with unlocking time | [s-mm] | 1,65-574 | |
| Net weight (without oil) [9] | [~kg] | 22722 | 23111 |
| Transport dimensions (l x w x h) | [~m] | 8,46x2,21x2,78 | 8,90x2,21x2,78 |
| Electric drive projection max. (h) | [mm] | 0/844 / 138/844 | 197/1401 / 551/1401 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment

# Technical Data El-Exis SP 350/820-3000

| Sumitomo (SHI) Demag | | El-Exis SP 350/820 | |
|---|---|---|---|
| Model description | | El-Exis SP 350/820-3000 | |
| International size description | | 3500-3000 | |
| **Clamping unit** | | **350/820** | |
| Clamping Force / Locking Force | [kN] | 3500/3850 | |
| Max. mould opening stroke | [mm] | 770 | |
| Mould height Min./WA211 | [mm] | 350 | |
| Max./enlarged mould height | [mm] | 795/1020 | |
| Daylight between platens max./enl. | [mm] | 1565/1790 | |
| Mould platen (h x v) | [mm] | 1200x1200 | |
| Distance between tie bars (h x v) | [mm] | 820x820 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 6600 [1]/3240/5100 | |
| Ejection stroke std./enlarged | [mm] | 180 | |
| Ejection stroke AWH forced (optional) | [mm] | 180 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| Ejection/retraction force AWH forced (opt.) | [kN] | 238/132 | |
| **Injection unit** | | **3000** | |
| Screw diameter | [mm] | 70 | 80 |
| Screw geometry | | special [2] | special [2] |
| L/D ratio | | 23 | 24 |
| Spec. injection pressure (up to 400°C) | [bar] | 2432 | 2051 |
| Cylinder head volume, max. | [cm³] | 924 | 1206 |
| Max. shot weight (PS, PE*) | [g] | 674* | 881* |
| **Max. rate of injection** | | | |
| > With accumulator | [cm³/s] | 3848 | 4524 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **108*** | **150*** |
| Max. screw stroke | [mm] | 240 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 705/595 | 618/572 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 570/460 | 483/437 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | |
| Nozzle sealing force | [kN] | 110 | |
| Number of heating zones | | 7 | |
| **General data** | | **350/820-3000** | |
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 55 | |
| > Electric screw drive (WA313) | [~kW] | 96,9 | |
| > Capacity clamp unit [7] | [~kW] | 47 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 31,3 | 43,3 |
| > Total capacity | [~kW] | 230,2 | 242,2 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,45-574 | |
| Dry cycles with unlocking time | [s-mm] | 1,65-574 | |
| Net weight (without oil) [9] | [~kg] | 18386/9450/27836 [10] | |
| Transport dimensions (l x w x h) | [~m] | 4,60/5,21 [11]x2,27/2,78 [11]x2,78 | |
| Electric drive projection max. (h) | [mm] | 0/577 | 279/897 |

All data and information in this prospect have been complied with great care. However, we are unable to guarantee its correctness. Furthermore we indicate that individual illustrations and information may deviate from the actual delivery condition of the

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 350/820-4200...350/820-6300

| Sumitomo (SHI) Demag | | El-Exis SP 350/820 | |
|---|---|---|---|
| Model description | | El-Exis SP 350/820-4200 | El-Exis SP 350/820-6300 |
| International size description | | 3500-4200 | 3500-6300 |
| **Clamping unit** | | **350/820** | |
| Clamping Force / Locking Force | [kN] | 3500/3850 | |
| Max. mould opening stroke | [mm] | 770 | |
| Mould height Min./WA211 | [mm] | 350 | |
| Max./enlarged mould height | [mm] | 795/1020 | |
| Daylight between platens max./enl. | [mm] | 1565/1790 | |
| Mould platen (h x v) | [mm] | 1200x1200 | |
| Distance between tie bars (h x v) | [mm] | 820x820 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 6600 [1]/3240/5100 | |
| Ejection stroke std./enlarged | [mm] | 180 | |
| Ejection stroke AWH forced (optional) | [mm] | 180 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| Ejection/retraction force AWH forced (opt.) | [kN] | 238/132 | |

| Injection unit | | 4200 | | 6300 | |
|---|---|---|---|---|---|
| Screw diameter | [mm] | 80 | 95 | 95 | 110 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 24 | 24 | 24 | 24 |
| Spec. injection pressure (up to 400°C) | [bar] | 2391 | 2094 | 2434 | 2006 |
| Cylinder head volume, max. | [cm³] | 1433 | 2020 | 2339 | 3136 |
| Max. shot weight (PS, PE*) | [g] | 1046* | 1475* | 1708* | 2289* |
| **Max. rate of injection** | | | | | |
| > With accumulator | [cm³/s] | 4524 | 5671 | 5671 | 6652 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **125*** | **200*** | **173*** | **229*** |
| Max. screw stroke | [mm] | 285 | | 330 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 745/572 | 617/561 | 825/561 | 618/546 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 880/707 | 752/696 | 960/696 | 753/681 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | |
| Number of heating zones | | 7 | 7 | 7 | 8 |

| General data | | 350/820-4200 | | 350/820-6300 | |
|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 760 | | | |
| **Installed electrical rating** | | | | | |
| > Pump [6] | [~kW] | 55 | | 55 | |
| > Electric screw drive (WA313) | [~kW] | 90,0 | | 115,0 | |
| > Capacity clamp unit [7] | [~kW] | 47 | | 47 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 43,3 | 60,0 | 60,0 | 79,8 |
| > Total capacity | [~kW] | 235,3 | 252,0 | 277,0 | 296,8 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,45-574 | | | |
| Dry cycles with unlocking time | [s-mm] | 1,65-574 | | | |
| Net weight (without oil) [9] | [~kg] | 18386/11025/29411 [10] | | 18386/12600/30986 [10] | |
| Transport dimensions (l x w x h) | [~m] | 4,60/5,57 [11]x2,27/2,29 [11]x2,78 | | 4,60/6,35 [11]x2,27/2,29 [11]x2,78 | |
| Electric drive projection max. (h) | [mm] | 0/295 | 53/670 | 0/207 | 31/647 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 420/820-1600...420/820-2500

| Sumitomo (SHI) Demag | | El-Exis SP 420/820 | |
|---|---|---|---|
| Model description | | El-Exis SP 420/820-1600 | El-Exis SP 420/820-2500 |
| International size description | | 4200-1600 | 4200-2500 |
| **Clamping unit** | | **420/820** | |
| Clamping Force / Locking Force | [kN] | 4200/4620 | |
| Max. mould opening stroke | [mm] | 770 | |
| Mould height Min./WA211 | [mm] | 350 | |
| Max./enlarged mould height | [mm] | 795/1020 | |
| Daylight between platens max./enl. | [mm] | 1565/1790 | |
| Mould platen (h x v) | [mm] | 1200x1200 | |
| Distance between tie bars (h x v) | [mm] | 820x820 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 6600 [1]/3240/5100 | |
| Ejection stroke std./enlarged | [mm] | 180 | |
| Ejection stroke AWH forced (optional) | [mm] | 180 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| Ejection/retraction force AWH forced (opt.) | [kN] | 238/132 | |

| Injection unit | | 1600 | | 2500 | |
|---|---|---|---|---|---|
| Screw diameter | [mm] | 50 | 60 | 60 | 70 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 25 | 25 | 25 | 25 |
| Spec. injection pressure (up to 400°C) | [bar] | 2426 | 2106 | 2420 | 2074 |
| Cylinder head volume, max. | [cm³] | 530 | 763 | 891 | 1212 |
| Max. shot weight (PS, PE*) | [g] | 387* | 557* | 650* | 885* |
| **Max. rate of injection** | | | | | |
| > With accumulator | [cm³/s] | 1963 | 2827 | 2827 | 3848 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **60*** | **100*** | **88*** | **126*** |
| Max. screw stroke | [mm] | 270 | | 315 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 1000/650 | 675/625 | 1105/625 | 750/610 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 1105/755 | 780/730 | 1210/730 | 855/715 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | |
| Number of heating zones | | 6 | 6 | 6 | 6 |

| General data | | 420/820-1600 | 420/820-2500 |
|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 30 | 45 |
| > Electric screw drive (WA313) | [~kW] | 57,9 | 71 |
| > Capacity clamp unit [7] | [~kW] | 47 | 47 |
| > Heating capacity of screw cylinder [7] | [~kW] | 23,0 / 28,6 | 28,6 / 32,9 |
| > Total capacity | [~kW] | 157,9 / 163,5 | 193,1 / 197,4 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,50-574 | |
| Dry cycles with unlocking time | [s-mm] | 1,70-574 | |
| Net weight (without oil) [9] | [~kg] | 22722 | 23111 |
| Transport dimensions (l x w x h) | [~m] | 8,46x2,21x2,78 | 8,90x2,21x2,78 |
| Electric drive projection max. (h) | [mm] | 0/844 / 138/844 | 197/1401 / 551/1401 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment

# Technical Data El-Exis SP 420/820-3000

| Sumitomo (SHI) Demag | | El-Exis SP 420/820 | |
|---|---|---|---|
| Model description | | El-Exis SP 420/820-3000 | |
| International size description | | 4200-3000 | |
| **Clamping unit** | | **420/820** | |
| Clamping Force / Locking Force | [kN] | 4200/4620 | |
| Max. mould opening stroke | [mm] | 770 | |
| Mould height Min./WA211 | [mm] | 350 | |
| Max./enlarged mould height | [mm] | 795/1020 | |
| Daylight between platens max./enl. | [mm] | 1565/1790 | |
| Mould platen (h x v) | [mm] | 1200x1200 | |
| Distance between tie bars (h x v) | [mm] | 820x820 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 6600 [1]/3240/5100 | |
| Ejection stroke std./enlarged | [mm] | 180 | |
| Ejection stroke AWH forced (optional) | [mm] | 180 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| Ejection/retraction force AWH forced (opt.) | [kN] | 238/132 | |
| **Injection unit** | | **3000** | |
| Screw diameter | [mm] | 70 | 80 |
| Screw geometry | | special [2] | special [2] |
| L/D ratio | | 23 | 24 |
| Spec. injection pressure (up to 400°C) | [bar] | 2423 | 2051 |
| Cylinder head volume, max. | [cm³] | 924 | 1206 |
| Max. shot weight (PS, PE*) | [g] | 674* | 881* |
| **Max. rate of injection** | | | |
| > With accumulator | [cm³/s] | 3848 | 4524 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **108*** | **150*** |
| Max. screw stroke | [mm] | 240 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 705/595 | 618/572 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 570/460 | 483/437 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | |
| Nozzle sealing force | [kN] | 110 | |
| Number of heating zones | | 7 | 7 |
| **General data** | | **420/820-3000** | |
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 55 | |
| > Electric screw drive (WA313) | [~kW] | 96,9 | |
| > Capacity clamp unit [7] | [~kW] | 47 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 31,3 | 43,3 |
| > Total capacity | [~kW] | 230,1 | 242,1 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,50-574 | |
| Dry cycles with unlocking time | [s-mm] | 1,70-574 | |
| Net weight (without oil) [9] | [~kg] | 18386/9450/27836 [10] | |
| Transport dimensions (l x w x h) | [~m] | 4,60/5,21 [11]x2,27/2,78 [11]x2,78 | |
| Electric drive projection max. (h) | [mm] | 0/577 | 279/897 |

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 420/820-4200...420/820-6300

| Sumitomo (SHI) Demag | | El-Exis SP 420/820 | |
|---|---|---|---|
| Model description | | El-Exis SP 420/820-4200 | El-Exis SP 420/820-6300 |
| International size description | | 4200-4200 | 4200-6300 |
| **Clamping unit** | | **420/820** | |
| Clamping Force / Locking Force | [kN] | 4200/4620 | |
| Max. mould opening stroke | [mm] | 770 | |
| Mould height Min./WA211 | [mm] | 350 | |
| Max./enlarged mould height | [mm] | 795/1020 | |
| Daylight between platens max./enl. | [mm] | 1565/1790 | |
| Mould platen (h x v) | [mm] | 1200x1200 | |
| Distance between tie bars (h x v) | [mm] | 820x820 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 6600 [1]/3240/5100 | |
| Ejection stroke std./enlarged | [mm] | 180 | |
| Ejection stroke AWH forced (optional) | [mm] | 180 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| Ejection/retraction force AWH forced (opt.) | [kN] | 238/132 | |

| **Injection unit** | | **4200** | | **6300** | |
|---|---|---|---|---|---|
| Screw diameter | [mm] | 80 | 95 | 95 | 110 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 24 | 24 | 24 | 23 |
| Spec. injection pressure (up to 400°C) | [bar] | 2391 | 2094 | 2434 | 2006 |
| Cylinder head volume, max. | [cm³] | 1433 | 2020 | 2339 | 3136 |
| Max. shot weight (PS, PE*) | [g] | 1046* | 1475* | 1708* | 2289* |
| **Max. rate of injection** | | | | | |
| > With accumulator | [cm³/s] | 4524 | 5671 | 5671 | 6652 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **125*** | **200*** | **173*** | **229*** |
| Max. screw stroke | [mm] | 285 | | 330 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 745/572 | 617/561 | 825/561 | 618/546 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 880/707 | 752/696 | 960/696 | 753/681 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | |
| Number of heating zones | | 7 | 7 | 7 | 8 |

| **General data** | | **420/820-4200** | | **420/820-6300** | |
|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 760 | | | |
| **Installed electrical rating** | | | | | |
| > Pump [6] | [~kW] | 55 | | 55 | |
| > Electric screw drive (WA313) | [~kW] | 90 | | 115,0 | |
| > Capacity clamp unit [7] | [~kW] | 47 | | 47 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 43,3 | 60,0 | 60,0 | 79,8 |
| > Total capacity | [~kW] | 235,3 | 252,0 | 277,0 | 296,8 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,50-574 | | | |
| Dry cycles with unlocking time | [s-mm] | 1,70-574 | | | |
| Net weight (without oil) [9] | [~kg] | 18386/11025/29411 [10] | | 18386/12600/30986 [10] | |
| Transport dimensions (l x w x h) | [~m] | 4,60/5,57 [11]x2,27/2,78 [11]x2,78 | | 4,60/6,35 [11]x2,27/2,78 [11]x2,78 | |
| Electric drive projection max. (h) | [mm] | 0/295 | 53/670 | 0/207 | 31/647 |

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 450/920-2500

| Sumitomo (SHI) Demag | | El-Exis SP 450/920 | |
|---|---|---|---|
| Model description | | El-Exis SP 450/920-2500 | |
| International size description | | 4500-2500 | |
| **Clamping unit** | | **450/920** | |
| Clamping Force / Locking Force | [kN] | 4500/4950 | |
| Max. mould opening stroke | [mm] | 850 | |
| Mould height Min./WA211 | [mm] | 360 | |
| Max./enlarged mould height | [mm] | 880/1110 | |
| Daylight between platens max./enl. | [mm] | 1730/1960 | |
| Mould platen (h x v) | [mm] | 1300x1300 | |
| Distance between tie bars (h x v) | [mm] | 920x920 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 8700 [1]/4305/6700 | |
| Ejection stroke std./enlarged | [mm] | 200 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| **Injection unit** | | **2500** | |
| Screw diameter | [mm] | 60 | 70 |
| Screw geometry | | special [2] | special [2] |
| L/D ratio | | 25 | 25 |
| Spec. injection pressure (up to 400°C) | [bar] | 2420 | 2074 |
| Cylinder head volume, max. | [cm³] | 891 | 1212 |
| Max. shot weight (PS, PE*) | [g] | 650* | 885* |
| **Max. rate of injection** | | | |
| > With accumulator | [cm³/s] | 2827 | 3848 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **88*** | **126*** |
| Max. screw stroke | [mm] | 315 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 895/704 | 541/541 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 1000/809 | 646/646 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | |
| Nozzle sealing force | [kN] | 110 | |
| Number of heating zones | | 6 | 6 |
| **General data** | | **450/920-2500** | |
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 45 | |
| > Electric screw drive (WA313) | [~kW] | 71 | |
| > Capacity clamp unit [7] | [~kW] | 83,7 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 28,6 | 32,9 |
| > Total capacity | [~kW] | 229,8 | 234,1 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,55-644 | |
| Dry cycles with unlocking time | [s-mm] | 1,80-644 | |
| Net weight (without oil) [9] | [~kg] | 21153/6510/27663 [10] | |
| Transport dimensions (l x w x h) | [~m] | 4,60/4,88 [11]x2,36/2,29 [11]x2,89 | |
| Electric drive projection max. (h) | [mm] | 0/616 | 75/616 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 450/920-3000

| Sumitomo (SHI) Demag | | El-Exis SP 450/920 | |
|---|---|---|---|
| Model description | | El-Exis SP 450/920-3000 | |
| International size description | | 4500-3000 | |
| **Clamping unit** | | **450920** | |
| Clamping Force / Locking Force | [kN] | 4500/4950 | |
| Max. mould opening stroke | [mm] | 850 | |
| Mould height Min./WA211 | [mm] | 360 | |
| Max./enlarged mould height | [mm] | 880/1100 | |
| Daylight between platens max./enl. | [mm] | 1760/1960 | |
| Mould platen (h x v) | [mm] | 1300x1300 | |
| Distance between tie bars (h x v) | [mm] | 920x920 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 8700 [1]/4305/6700 | |
| Ejection stroke std./enlarged | [mm] | 200 | |
| Ejection / Retraction force | [kN] | 106/46 | |
| **Injection unit** | | **3000** | |
| Screw diameter | [mm] | 70 | 80 |
| Screw geometry | | special [2] | special [2] |
| L/D ratio | | 23 | 24 |
| Spec. injection pressure (up to 400°C) | [bar] | 2432 | 2051 |
| Cylinder head volume, max. | [cm³] | 924 | 1206 |
| Max. shot weight (PS, PE*) | [g] | 674* | 881* |
| **Max. rate of injection** | | | |
| > With accumulator | [cm³/s] | 3848 | 4524 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **108*** | **150*** |
| Max. screw stroke | [mm] | 240 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 755/643 | 668/620 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 620/508 | 533/485 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | |
| Nozzle sealing force | [kN] | 110 | |
| Number of heating zones | | 7 | 7 |
| **General data** | | **450/920-3000** | |
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 55 | |
| > Electric screw drive (WA313) | [~kW] | 96,9 | |
| > Capacity clamp unit [7] | [~kW] | 83,7 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 31,3 | 43,3 |
| > Total capacity | [~kW] | 266,9 | 278,8 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,55-644 | |
| Dry cycles with unlocking time | [s-mm] | 1,80-644 | |
| Net weight (without oil) [9] | [~kg] | 21153/9450/30603 [10] | |
| Transport dimensions (l x w x h) | [~m] | 4,60/5,22 [11]x2,36/2,29 [11]x2,89 | |
| Electric drive projection max. (h) | [mm] | 0/581 | 91/894 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 450/920-4200...450/920-6300

| Sumitomo (SHI) Demag | | El-Exis SP 450/920 | |
|---|---|---|---|
| Model description | | El-Exis SP 450/920-4200 | El-Exis SP 450/920-6300 |
| International size description | | 4500-4200 | 4500-6300 |
| **Clamping unit** | | **450/920** | |
| Clamping Force / Locking Force | [kN] | 4500/4950 | |
| Max. mould opening stroke | [mm] | 850 | |
| Mould height Min./WA211 | [mm] | 360 | |
| Max./enlarged mould height | [mm] | 880/1110 | |
| Daylight between platens max./enl. | [mm] | 1730/1960 | |
| Mould platen (h x v) | [mm] | 1300x1300 | |
| Distance between tie bars (h x v) | [mm] | 920x920 | |
| Min. permissible mould diameter (k) | [mm] | 420 | |
| Max mould weight / mov./ fixed | [kg] | 8700 [1]/4305/6700 | |
| Ejection stroke std./enlarged | [mm] | 200 | |
| Ejection / Retraction force | [kN] | 106/46 | |

| Injection unit | | 4200 | | 6300 | |
|---|---|---|---|---|---|
| Screw diameter | [mm] | 80 | 95 | 95 | 110 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 24 | 24 | 24 | 23 |
| Spec. injection pressure (up to 400°C) | [bar] | 2391 | 2094 | 2434 | 2006 |
| Cylinder head volume, max. | [cm³] | 1433 | 2020 | 2339 | 3136 |
| Max. shot weight (PS, PE*) | [g] | 1046* | 1475* | 1708* | 2287* |
| **Max. rate of injection** | | | | | |
| > With accumulator | [cm³/s] | 4524 | 5671 | 5671 | 6652 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **125*** | **200*** | **173*** | **229*** |
| Max. screw stroke | [mm] | 285 | | 330 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 795/620 | 667/609 | 875/609 | 668/594 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 930/755 | 802/744 | 1010/744 | 803/729 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | |
| Number of heating zones | | 7 | 7 | 7 | 8 |

| General data | | 450/920-4200 | | 450/920-6300 | |
|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 730 | | | |
| **Installed electrical rating** | | | | | |
| > Pump [6] | [~kW] | 55 | | 55 | |
| > Electric screw drive (WA313) | [~kW] | 90,0 | | 115,0 | |
| > Capacity clamp unit [7] | [~kW] | 83,7 | | 83,7 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 43,3 | 60,0 | 60,0 | 79,8 |
| > Total capacity | [~kW] | 272,0 | 288,7 | 313,7 | 333,5 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,55-644 | | | |
| Dry cycles with unlocking time | [s-mm] | 1,80-644 | | | |
| Net weight (without oil) [9] | [~kg] | 21153/11025/32178 [10] | | 21153/12600/33753 [10] | |
| Transport dimensions (l x w x h) | [~m] | 4,60/5,58 [11]x2,36/2,29 [11]x2,89 | | 4,60/6,36 [11]x2,36/2,29 [11]x2,89 | |
| Electric drive projection max. (h) | [mm] | 0/299 | 7/674 | 0/211 | 31/649 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 580/1020-3000

| Sumitomo (SHI) Demag | | El-Exis SP 580/1020 | |
|---|---|---|---|
| Model description | | El-Exis SP 580/1020-3000 | |
| International size description | | 5800-3000 | |
| **Clamping unit** | | **580/1020** | |
| Clamping Force / Locking Force | [kN] | 5800/6380 | |
| Max. mould opening stroke | [mm] | 930 | |
| Mould height Min./WA211 | [mm] | 370 | |
| Max./enlarged mould height | [mm] | 940/1170 | |
| Daylight between platens max./enl. | [mm] | 1870/2100 | |
| Mould platen (h x v) | [mm] | 1450x1470 | |
| Distance between tie bars (h x v) | [mm] | 1020x1020 | |
| Min. permissible mould diameter (k) | [mm] | 500 | |
| Max mould weight / mov./ fixed | [kg] | 11200 [1]/5330/8600 | |
| Ejection stroke std./enlarged | [mm] | 220 | |
| Ejection / Retraction force | [kN] | 165/84 | |
| **Injection unit** | | **3000** | |
| Screw diameter | [mm] | 70 | 80 |
| Screw geometry | | special [2] | special [2] |
| L/D ratio | | 23 | 24 |
| Spec. injection pressure (up to 400°C) | [bar] | 2432 | 2051 |
| Cylinder head volume, max. | [cm³] | 924 | 1206 |
| Max. shot weight (PS, PE*) | [g] | 674* | 881* |
| **Max. rate of injection** | | | |
| > With accumulator | [cm³/s] | 3848 | 4524 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **108*** | **150*** |
| Max. screw stroke | [mm] | 240 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 830/725 | 743/702 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 965/860 | 878/837 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | |
| Nozzle sealing force | [kN] | 110 | |
| Number of heating zones | | 7 | 7 |
| **General data** | | **580/1020-3000** | |
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 55 | |
| > Electric screw drive (WA313) | [~kW] | 96,9 | |
| > Capacity clamp unit [7] | [~kW] | 83,7 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 31,3 | 43,3 |
| > Total capacity | [~kW] | 266,9 | 278,9 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,85-714 | |
| Dry cycles with unlocking time | [s-mm] | 2,10-714 | |
| Net weight (without oil) [9] | [~kg] | 30839/9450/40289 [10] | |
| Transport dimensions (l x w x h) | [~m] | 5,00/5,20 [11]x2,52/2,29 [11]x2,97 | |
| Electric drive projection max. (h) | [mm] | 0/574 | 0/894 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 580/1020-4200...580/1020-6300

| Sumitomo (SHI) Demag | | El-Exis SP 580/1020 | |
|---|---|---|---|
| Model description | | El-Exis SP 580/1020-4200 | El-Exis SP 580/1020-6300 |
| International size description | | 5800-4200 | 5800-6300 |
| **Clamping unit** | | **580/1020** | |
| Clamping Force / Locking Force | [kN] | 580/6380 | |
| Max. mould opening stroke | [mm] | 930 | |
| Mould height Min./WA211 | [mm] | 370 | |
| Max./enlarged mould height | [mm] | 940/1170 | |
| Daylight between platens max./enl. | [mm] | 1870/2100 | |
| Mould platen (h x v) | [mm] | 1450x1470 | |
| Distance between tie bars (h x v) | [mm] | 1020x1020 | |
| Min. permissible mould diameter (k) | [mm] | 500 | |
| Max mould weight / mov./ fixed | [kg] | 11200 [1]/5330/8600 | |
| Ejection stroke std./enlarged | [mm] | 220 | |
| Ejection / Retraction force | [kN] | 165/84 | |

| Injection unit | | 4200 | | 6300 | |
|---|---|---|---|---|---|
| Screw diameter | [mm] | 80 | 95 | 95 | 110 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 24 | 24 | 24 | 23 |
| Spec. injection pressure (up to 400°C) | [bar] | 2391 | 2094 | 2434 | 2006 |
| Cylinder head volume, max. | [cm³] | 1433 | 2020 | 2339 | 3136 |
| Max. shot weight (PS, PE*) | [g] | 1046* | 1475* | 1708* | 2289* |
| **Max. rate of injection** | | | | | |
| > With accumulator | [cm³/s] | 4524 | 5671 | 5671 | 6652 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **125*** | **200*** | **173*** | **229*** |
| Max. screw stroke | [mm] | 285 | | 330 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 870/702 | 742/691 | 950/691 | 743/676 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 1005/837 | 877/826 | 1085/826 | 878/811 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | |
| Number of heating zones | | 7 | 7 | 7 | 8 |

| General data | | 580/1020-4200 | | 580/1020-6300 | |
|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 730 | | | |
| **Installed electrical rating** | | | | | |
| > Pump [6] | [~kW] | 55 | | 55 | |
| > Electric screw drive (WA313) | [~kW] | 90,0 | | 115,0 | |
| > Capacity clamp unit [7] | [~kW] | 83,7 | | 83,7 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 43,3 | 60,0 | 60,0 | 79,8 |
| > Total capacity | [~kW] | 272,0 | 288,7 | 313,7 | 333,5 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 1,85-714 | | | |
| Dry cycles with unlocking time | [s-mm] | 2,10-714 | | | |
| Net weight (without oil) [9] | [~kg] | 30839/11025/41864 [10] | | 30839/12600/43439 [10] | |
| Transport dimensions (l x w x h) | [~m] | 5,00/5,56 [11]x2,52/2,92 [11]x2,97 | | 5,00/6,35 [11]x2,52/2,29 [11]x2,97 | |
| Electric drive projection max. (h) | [mm] | 0/292 | 0/667 | 0/204 | 0/644 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 750/1120-3000

| Sumitomo (SHI) Demag | | El-Exis SP 750/1120 | |
|---|---|---|---|
| Model description | | El-Exis SP 750/1120-3000 | |
| International size description | | 7500-3000 | |
| **Clamping unit** | | **750/1120** | |
| Clamping Force / Locking Force | [kN] | 7500/8250 | |
| Max. mould opening stroke | [mm] | 1030 | |
| Mould height Min./WA211 | [mm] | 400 | |
| Max./enlarged mould height | [mm] | 1020/1250 | |
| Daylight between platens max./enl. | [mm] | 2050/2280 | |
| Mould platen (h x v) | [mm] | 1620x1620 | |
| Distance between tie bars (h x v) | [mm] | 1120x1120 | |
| Min. permissible mould diameter (k) | [mm] | 700 | |
| Max mould weight / mov./ fixed | [kg] | 14000 [1]/5165/10800 | |
| Ejection stroke std./enlarged | [mm] | 270 | |
| Ejection / Retraction force | [kN] | 218/113 | |
| **Injection unit** | | **3000** | |
| Screw diameter | [mm] | 70 | 80 |
| Screw geometry | | special [2] | special [2] |
| L/D ratio | | 23 | 24 |
| Spec. injection pressure (up to 400°C) | [bar] | 2432 | 2051 |
| Cylinder head volume, max. | [cm³] | 924 | 1206 |
| Max. shot weight (PS, PE*) | [g] | 674* | 881* |
| **Max. rate of injection** | | | |
| > With accumulator | [cm³/s] | 3848 | 4524 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **108*** | **150*** |
| Max. screw stroke | [mm] | 240 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 890/785 | 803/762 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 1025/920 | 938/897 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | |
| Nozzle sealing force | [kN] | 110 | |
| Heating capacity | [kW] | 7 | 7 |
| **General data** | | **750/1120-3000** | |
| Oil tank capacity [5] | [ltr.] | 760 | |
| **Installed electrical rating** | | | |
| > Pump [6] | [~kW] | 55 | |
| > Electric screw drive (WA313) | [~kW] | 96,9 | |
| > Capacity clamp unit [7] | [~kW] | 90 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 31,3 | 43,3 |
| > Total capacity | [~kW] | 273,2 | 285,2 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 2,00-784 | |
| Dry cycles with unlocking time | [s-mm] | 2,25-784 | |
| Net weight (without oil) [9] | [~kg] | 39500/9450/48950 [10] | |
| Transport dimensions (l x w x h) | [~m] | 5,56/5,00 [11]x2,73/2,29 [11]x3,07 | |
| Electric drive projection max. (h) | [mm] | 0/572 | 91/892 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Technical Data El-Exis SP 750/1120-4200...750/1120-6300

| Sumitomo (SHI) Demag | | El-Exis SP 750/1120 | |
|---|---|---|---|
| Model description | | El-Exis SP 750/1120-4200 | El-Exis SP 750/1120-6300 |
| International size description | | 7500-4200 | 7500-6300 |
| **Clamping unit** | | **750/1120** | |
| Clamping Force / Locking Force | [kN] | 7500/8250 | |
| Max. mould opening stroke | [mm] | 1030 | |
| Mould height Min./WA211 | [mm] | 400 | |
| Max./enlarged mould height | [mm] | 1020/1250 | |
| Daylight between platens max./enl. | [mm] | 2050/2280 | |
| Mould platen (h x v) | [mm] | 1620x1620 | |
| Distance between tie bars (h x v) | [mm] | 1120x1120 | |
| Min. permissible mould diameter (k) | [mm] | 700 | |
| Max mould weight / mov./ fixed | [kg] | 14000 [1]/5165/10800 | |
| Ejection stroke std./enlarged | [mm] | 270 | |
| Ejection / Retraction force | [kN] | 218/113 | |

| Injection unit | | 4200 | | 6300 | |
|---|---|---|---|---|---|
| Screw diameter | [mm] | 80 | 95 | 95 | 110 |
| Screw geometry | | special [2] | special [2] | special [2] | special [2] |
| L/D ratio | | 24 | 24 | 24 | 23 |
| Spec. injection pressure (up to 400°C) | [bar] | 2391 | 2094 | 2434 | 2006 |
| Cylinder head volume, max. | [cm³] | 1433 | 2020 | 2339 | 3136 |
| Max. shot weight (PS, PE*) | [g] | 1046* | 1475* | 1708* | 2289* |
| **Max. rate of injection** | | | | | |
| > With accumulator | [cm³/s] | 4524 | 5671 | 5671 | 6652 |
| **Plasticising rate (PS, PE*)** | **[g/s]** | **125*** | **200*** | **173*** | **229*** |
| Max. screw stroke | [mm] | 285 | | 330 | |
| Max. dist. nozz. retract./auto mode [3] | [mm] | 930/762 | 802/751 | 1010/751 | 803/736 |
| Max. dist. nozz. retr./auto mode ZE372 [4] | [mm] | 1065/897 | 937/886 | 1145/886 | 938/871 |
| Max. nozzle dipping depth (WA650) | [mm] | 20 | | 20 | |
| Nozzle sealing force | [kN] | 110 | | 110 | |
| Heating capacity | [kW] | 7 | 7 | 7 | 8 |

| General data | | 750/1120-4200 | | 750/1120-6300 | |
|---|---|---|---|---|---|
| Oil tank capacity [5] | [ltr.] | 730 | | 730 | |
| **Installed electrical rating** | | | | | |
| > Pump [6] | [~kW] | 55 | | 55 | |
| > Electric screw drive (WA313) | [~kW] | 90,0 | | 115,0 | |
| > Capacity clamp unit [7] | [~kW] | 90 | | 90 | |
| > Heating capacity of screw cylinder [7] | [~kW] | 43,3 | 60,0 | 60,0 | 79,8 |
| > Total capacity | [~kW] | 278,3 | 295,0 | 320,0 | 339,8 |
| Dry cycle time (Euromap 6) [8] | [s-mm] | 2,00-784 | | | |
| Dry cycles with unlocking time | [s-mm] | 2,25-784 | | | |
| Net weight (without oil) [9] | [~kg] | 39500/11025/50525 [10] | | 39500/12600/52100 [10] | |
| Transport dimensions (l x w x h) | [~m] | 5,56/5,72 [11]x2,73/2,29 [11]x3,07 | | 5,56/6,35 [11]x2,73/2,29 [11]x3,07 | |
| Electric drive projection max. (h) | [mm] | 0/290 | 0/647 | 0/202 | 0/642 |

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Increased mould weights for stack moulds on demand
2) Shear and mixing unit
3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
5) First filling / operating
6) WA109
7) Parallel movement of all axis possible
8) Standard/twin pump (WA109)
9) The net weight of the machine may vary depending on equipment
10) CU/IU/total
11) CU/IU

# Equipment EI-Exis SP 150 ... 750

| Clamping unit | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 2 - Short-lengtht 5-point double toggle clamping unit | ● | ● |
| 22 - Ejector coupling to DPG | ● | ● |
| 24 - Tie bars of clamping unit chromed | ● | ● |
| 27 - Upper tiebar on non-operator side retractable | - | - |
| 41 - Central ejector with multi-stroke and stroke, pressure and speed programmable | - | - |
| 43 - Short/long stroke ejector | ● | ● |
| 46 - Disforming clamping unit free prammable; movements parallel | ● | ● |
| 94 - Five-stagedmould clamping- and four-staged mould-opening sequence | ● | ● |
| 203 - Reduced centering diameter on fixed platen | ● | ● |
| 2031 - Fixed mould mounting platen reinforced | ○ | ○ |
| 204 - Mould mounting dimensions in accordance to Euromap, without side ejector plate | ● | ● |
| 205 - Mould mounting dimensions in accordance to Euromap, with side ejector plate | ○ | ○ |
| 207 - Mould mounting dimensions similar to SPI | ○ | ○ |
| 2091 - Mould mounting dimensions similar to JIS | ○ | ○ |
| 210 - Standard mould height | ● | ● |
| 211 - Extended mould height | ○ | ○ |
| 215 - Mould and ejector movements only when safety gate closed | ● | ● |
| 2171 - Operating when safety gate is open on non-operator side | ○ | ○ |
| 219 - Ejector programmable for simultaneous operation with mould movement | ● | ● |
| 2192 - Reinforced ejector | ○ | - |
| 224ff - 1-6 pneumatik 5/2 directional valves, mounted to moving or fixed platen and freely programmable | ○ | ○ |
| 228 - Central service unit for pneumatic valves | ○ | ○ |
| 229ff - Core puller with 1-6 circuits over proportional valve on mov. platen; Q-independent programmable; with unlockable check-valves against core-moving; incl. Manual pressure relief for core-puller 1-6 circuits on movable platen over one common valve | ○ | ○ |
| 237 - Additional ports for 2 core pullers on fixed mould platen | ○ | ○ |
| 242 - Cover widened on non-operator side | ○ | ○ |
| 243 - Blow through for mould cooling lines; manual | ○ | ○ |
| 244ff - Cooling water controller 4, 8, 12 circuits with temperature gauge | ○ | ○ |
| 252 - Shut-off mould cooling, time programmable | ● | ● |
| 282+283 - Pneumatical core puller 1 or 2-circuit via b/w valve on the movable platen including tubing | ○ | ○ |
| 261 - Automatic mould height adjustment | ○ | ○ |
| 18 - Moving platen supported by linear guides on machine base | ● | ● |
| 264 - Manual clamping mechanism for tiebar retraction | ○ | ○ |
| 266ff - Hot runner control (number of zones depending on machine size, max. 24) | ○ | ○ |
| 275 - Hydraulic control for hot runner nozzles | ○ | ○ |
| 276 - Pneumatic hot runner shut off control; 1x 5/2 directional valve | ○ | ○ |
| 290 - Clamp force control with indication | ● | ● |
| 293 - activeQ: Active mould safety via sensor with mould movement | ● | ● |
| 2931 - ActiveQ: Active mould safety via sensor with mould movement \"mould open\" | ○ | ○ |
| 295 - Additional manual adjustable control button mould-open-position | ○ | ○ |

| Clamping unit | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 299 - Central grease lubrication manual | | |
| 2991 - Central grease lubrication automatic | ○ | ○ |

| Injection unit | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 92 - Regulated parameter for injection speed, pressure, ram pressure and screw speed programmable via profile | ○ | ○ |
| 300 - Injection unit horizontal | ● | ● |
| 313 - Electrical screw motor, frequency-controlled | ● | ● |
| 320 - Hopper | ○ | ○ |
| 322 - Hopper shutoff with emptying capability (with drill pattern for material conveyor) | ● | ● |
| 341 - Temperature of funnel-zone-cooling regulated; maximum temperature 90°C tolerance | ● | ● |
| 343 - Injection limitation profile (traverse with 10 stabilization points) with time monitoring | ○ | ○ |
| 350 - Holding pressure switchover depending on hydraulic pressure with maximum value recording and pressure recording | ● | ● |
| 352ff - Holding pressure switchover depending on cavity pressure with pressure recording for 1, 2, 4 pressure taker | ○ | ○ |
| 357 - Holding pressure switchover over extern exit | ○ | ○ |
| 355 - Back pressure programmable over screw-back stroke, polygon over 6 stabilisation points | ● | ● |
| 370 - Melt temperature measuring (only for open nozzles) | ○ | ○ |
| 372 - carriage position prepared for snorkel of stack molds | | |
| 380 - Nozzle sealing force with closed mould, programmable | ● | ● |
| 385 - Nozzle system residual pressure with open mould , programmable | ● | ● |
| 386 - Nozzle movement parallel to closing movement | ● | ● |
| 388 - Screw position-controlled high speed | ● | ● |
| 411 - Start injection stroke-dependent to mould movement and nozzle-system pressure over complete cycle | ● | ● |

| Electrical system | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 110 - Supply voltage 400 V+-10 %/ 50 Hz; 3 Ph + N + PE | ● | ● |
| 111-117 - Specific national supply voltage | ○ | ○ |
| 121 - Separate power supply for both drive and heating | ● | ● |
| 160 - Single-phase 230 V/50 Hz/ 10 A socket in specific national version, defeatable over main switch | ● | ● |
| 1601 - Socket CEE 3Ph/400V/16A, defeatable over main switch | ○ | ○ |
| 1602 - Socket CEE 3Ph/400V/32A, defeatable over main switch | ○ | ○ |
| 161ff - Socket combination integrated, country-specific | ○ | ○ |
| 186 - Digital and wearfree stroke measuring system ultrasonic, respectively high-resolution rotary sensors for injection and injection unit movement, clamp and ejector movement | ● | ● |
| 4921 - Integrated mesuring of energy consumption and the costs per piece (activeEcon) | ○ | ○ |

| Functions | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 413 - Simultaneous stamping control | ○ | ○ |
| 420 - Process data entry (PDE) with 100 % monitoring and statistics with graphics for of process parameters | ● | ● |
| 421 - Extended intern saving option for PDE-data, mould-records and journal entry | ○ | ○ |
| 422 - Overlay of parameters of consecutive cycles in multiple graphs on one screen for a convenient evaluation of the process stability | ● | ● |
| 424 - Pallet control; uses 2 seperate to ordering programmable input/output | ○ | ○ |

● Basic equipment

○ Additional price

The shown specifications reflect the state at the time of printing and refer to the standard cofiguration. We reserve the right to modifiy specifications.

| Functions | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 425 - Storing program for extern storage of statistic data | ● | ● |
| 427 - Temperatur reduction over switchpoint with timing in manual mode activatable | ● | ● |
| 428 - Dry cycle without heat via program switch | ● | ● |
| 429 - Preselection part counter forstartup reject parts after every break of automatic-mode | ● | ● |
| 430 - Start up program in 3 stages; including back pressure | ● | ● |
| 440 - Switch-on program / switch-off program with purging | ● | ● |
| 445 - Flexible movement sequence for the injection unit without/with multiple movements from ejector and core pullers | ● | ● |
| 446 - Flexible movement of the injection unit | ● | ● |
| 460 -Printer program for automatic printing of screens, change report, alarms, and process data | ○ | ○ |
| 461 - Change reason | ● | ● |
| 462 - Event journal | ○ | ○ |
| 471 - factory data capture integrated in machine control | ○ | ○ |
| 480 - Help function; integrated control indication over control | ● | ● |
| 481 - Additional operating language | ○ | ○ |
| 486 - Ergosupport: program for faster fault recognition on basic setting/process optimisation and for extended monitoring of process sequence and deviations | ○ | ○ |
| 488 - Service page | ● | ● |
| 489 - Analysis of cycle time | ● | ● |
| 493 - Two freely programmable sides | ● | ● |
| 494 - Additional two freely programable sides | ○ | ○ |
| 495 - Integration of extern user interfaces in operator panel with VNC-client (Active Remote) | ○ | ○ |

| Interfaces | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 450 - Inputs / outputs freely programmable; 3 inputs and 3 outputs | ○ | ○ |
| 454 - Inputs / outputs freely programmable; 6 inputs and 6 outputs | ○ | ○ |
| 510 - Socket for second nozzle heater band | ○ | ○ |
| 523 - 50-pin handling device interface conf. to Euromap 67 (VDMA) | ○ | ○ |
| 529 - Interface for handling device, version Asia | ○ | ○ |
| 528 - Adapter cable for Euromap 67 (50-pole) to Euromap 12 (32-pole) and SPI AN-116 (32-pole) | ○ | ○ |
| 532 - Additional controller nozzle 1 circuit | ○ | ○ |
| 540 - Interfaces for ejector limit switch in mould, side action with LS and product detection | ○ | ○ |
| 541 - Interface for mould protection (ejector plate safety) | ● | ● |
| 542 - Interface for component ejection monitoring | ○ | ○ |
| 544 - Interface for mould safety, side core safety mechanism | ○ | ○ |
| 546 - Interface for screw-back unit | ○ | ○ |
| 555 - Interface for mould temperature indication, 2 circuits | ○ | ○ |
| 552 - CAN-Bus interface for temperature controllers (2 or 4 circuits), Demag-specific signal | ○ | ○ |
| 556 - 20 mA interface (TTY-V24) for up to 6 units temperature controllers | ○ | ○ |
| 562 - Interface machine status | ○ | ○ |
| 563 - Data interface for main computer systems to Euromap 63 and SPI AN-142 | ○ | ○ |
| 571 - WC5 - DPG World Connect; Remote maintenance and control of the machine | ● | ● |

| General | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 10 - Injection moulding machine with CE-declaration of conformity (without periphery and automation), safety devices according to EN201 USA: machine and safety devices according to ANSI | ● | ● |

| General | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 12 - Main memory for: fast injecion speed, core-, ejector- and injection unit movement | ● | ● |
| 14 - Oil pre-heating | ● | ● |
| 15 - Ports for external oil cleaning | ● | ● |
| 17 - Two staged filter control | ● | ● |
| 23 - Clamp force adjustable at Ergocontrol control, including indication of actual valve | ● | ● |
| 50 - Interface for handling device, mechanical according to VDMA 24466/Euromap 18 | ● | ● |
| 52 - Fault indication: free allocable output | ● | ● |
| 67 - DPG-Interface mechanic (drilling pattern) for material conveyor | ● | ● |
| 71 - USB-Device | ● | ● |
| 80 - Interface for extern printer (hardcopy) | ● | ● |
| 95 - Machine setup modus (reduced speed) | ● | ● |
| 96 - Alarm management (alarms + indications) | ● | ● |
| 97 - Setpoint entry switch-over to physical values (bar, cm³, mm/s) | ● | ● |
| 98 - Process control | ● | ● |
| 122 - Increasement of mashine bed of 100 mm | ○ | - |
| 123 - Kill switch on operator side | ● | ● |
| 126 - Data display colored | ● | ● |
| 135 - Oil cooling (cooling water supply up to 25°C) | ● | ● |
| 137 - Integrated oil cleaning unit for microfibre bypass filtration | ● | ● |
| 139 - Water supply for mould- and machine-cooling seperated | ● | ● |
| 136 - Oil cooling unit with increased cooling capacity | ● | ● |
| 170 - Fault indication by flashing lamp | ● | ● |
| 171 - Fault indication by acoustic alarm | ● | ● |
| 180 - Anti-vibration mounts | ● | ● |
| 705 - QS-switch with control; 2 directions | ● | ● |
| 790 - Integrated printer including driver software | ● | ● |
| 802 - ErgoCheck: Dokumentation of machine operative readiness locally | ● | ● |
| 870 - PC-program for visualisation mould records | ● | ● |

| Plastification | 150 ... 420 | 450 ... 750 |
|---|---|---|
| 60 - Cylinder change manual | ● | ● |
| 61 - Central connector for cylinder heating and thermo sensor | ● | ● |
| 68 - Operating range of screw cylinder up to 400°C | ● | ● |
| 65 - Each temperature control circuit with setpoint deviation control and thermocouple break protection; barrel operating temperatures up to 450°C, with pressure limitation above 400°C | ● | ● |
| 66 - Fast cylinder change with main plugs für heating and thermo indicator and with automatic cylinder detection | ● | ● |
| 601 - Energy-saving thermal insulation of the plasticizing | ○ | ○ |
| 610 - Wear and corrosion resistant universal thermoplastic screw, nitrided barrel | ● | ● |
| 611ff - High-performance plastication unit; customised | ● | ● |
| 640 - Flow back barrier, three-part ring-version | ● | ● |
| 642 - Flow back barrier, ball-version | ○ | ○ |
| 650 - Open nozzle | ● | ● |
| 665 - Pneumatic shut off nozzle incl. control | ● | ● |

| Practical values of the melt correction factor for use in the calculation of shot weight for some common plastics. | |
|---|---|
| Material | Melt correction factor |
| HD-PE | 0.75 |
| LD-PE | 0.73 |
| PP | 0.73 |
| PS | 0.91 |
| SB | 0.91 |
| ABS | 0.91 |
| SAN | 0.91 |
| PA | 0.93 |
| PA 6 +30 % GF | 1.14 |
| PC | 0.97 |
| PC/ABS | 0.94 |
| PMMA | 0.97 |
| POM | 1.15 |
| PET | 1.08 |
| PBT | 1.08 |
| CA | 1.03 |
| CAB | 0.98 |
| PVC-w | 1.05 |
| PVC-h | 1.15 |
| shot weight = melt correction factor x swept volume | |
| The melt correction factor takes into account the change in volume at process temperature and also includes a factor for the flow characteristics of the shut off device on the end of the screw. | |

Certified according to VDA 6.4

NOTE: Specifications subject to change without notice.

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