

EL-EXIS SP Hybrid Series

Specifications Chart
ENGLISH UNITS

| 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



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HYBRID EL-EXIS SP SERIES MACHINES (English Units)

| MODEL | CLAMPING UNIT | | | | | | | INJECTION UNIT | | | | | | | | MODEL |
|---------------------|-------------------------|-----------------------------|--------------------------------|--------------------------|------------------------------------|---------------------------------------|---------------------------------|-------------------|---|--|-------------------------------|---------------------------------------|-----------------------------|---------------------------------------|--|---------------------|
| | Clamp force (U.S. tons) | Tiebar clearance (HxV) (in) | Overall platen size (HxV) (in) | Opening stroke max. (in) | Mold space min.-max. (in) [option] | Ejector force stroke (U.S. tons/in) | Dry cycle (Euro-map 6) (sec-in) | Plasticizing unit | Screw diameter (mm) (* Special shear and mixing unit) | Injection weight (oz - PS) (* Special shear and mixing unit) | Injection speed max. (in/sec) | Injection capacity (in ³) | Injection pressure (p.s.i.) | Injection rate (in ³ /sec) | Plasticizing capacity (oz/sec) (* Special shear and mixing unit) | |
| EI-Exis SP 150/500 | 169 | 19.69 x 19.69 | 29.53 x 29.53 | 19.69 | 9.84 - 22.05 [25.98] | 7.3 / 3.94 | 0.9 - 13.78 | 475 | 35 / 40 / 35* / 40* | 5.7 / 7.4 / 4.5* / 6* | 39.4 | 10.8 / 14.1 | 35143 / 29747 | 58.7 / 76.7 | 1.4 / 2.1 / 1.2* / 1.8* | EI-Exis SP 150/500 |
| | | | | | | | | 675 | 40 / 45 / 40* / 45* | 8.2 / 10.4 / 6.6* / 8.3* | 39.4 | 15.6 / 19.7 | 35070 / 31618 | 76.7 / 97 | 1.9 / 2.3 / 1.6* / 2.1* | |
| | | | | | | | | 920 | 45 / 50 / 45* / 50* | 11.5 / 14.2 / 9.2* / 11.4* | 39.3 | 21.8 / 27 | 35186 / 31183 | 97 / 119.8 | 2.1 / 3.0 / 1.9* / 2.5* | |
| EI-Exis SP 200/560 | 225 | 22.05 x 22.05 | 32.68 x 32.68 | 22.64 | 12.2 - 25.98 [29.92] | 7.3 / 5.51 | 1.15 - 15.43 | 675 | 40 / 45 / 40* / 45* | 8.2 / 10.4 / 6.6* / 8.3* | 39.4 | 15.6 / 19.7 | 35070 / 31618 | 76.7 / 97 | 1.9 / 2.3 / 1.6* / 2.1* | EI-Exis SP 200/560 |
| | | | | | | | | 920 | 45 / 50 / 45* / 50* | 11.5 / 14.2 / 9.2* / 11.4* | 39.3 | 21.8 / 27 | 35186 / 31183 | 97 / 119.8 | 2.1 / 3.0 / 1.9* / 2.5* | |
| | | | | | | | | 1600 | 50 / 60 / 50* / 60* | 17 / 24.5 / 13.6* / 19.6* | 39.4 | 32.3 / 46.6 | 35186 / 30545 | 119.8 / 172.5 | 2.5 / 4.0 / 2.1* / 3.5* | |
| EI-Exis SP 250/630 | 281 | 24.8 x 24.8 | 37.4 x 37.4 | 26.38 | 12.99 - 27.95 [32.68] | 9.1 [18.54 opt.] / 7.87 [7.09 opt.] | 1.2 - 17.36 | 920 | 45 / 50 / 45* / 50* | 11.5 / 14.2 / 9.2* / 11.4* | 39.3 | 21.8 / 27 | 35186 / 31183 | 97 / 119.8 | 2.1 / 3.0 / 1.9* / 2.5* | EI-Exis SP 250/630 |
| | | | | | | | | 1600 | 50 / 60 / 50* / 60* | 17 / 24.5 / 13.6* / 19.6* | 39.4 | 32.3 / 46.6 | 35186 / 30545 | 119.8 / 172.5 | 2.54 / 4.0 / 2.1* / 3.5* | |
| | | | | | | | | 2500 | 60 / 70 / 60* / 70* | 28.6 / 38.9 / 22.9* / 31.2* | 39.3 | 54.4 / 74 | 35186 / 30081 | 172.5 / 234.8 | 3.56 / 4.9 / 3.1* / 4.4* | |
| EI-Exis SP 300/720 | 337 | 28.35 x 28.35 | 40.94 x 41.73 | 28.74 | 12.6 - 28.15 [36.22] | 9.1 / 7.87 | 1.35 - 19.84 | 920 | 45 / 50 / 45* / 50* | 11.5 / 14.2 / 9.2* / 11.4* | 39.3 | 21.8 / 27 | 35186 / 31183 | 97 / 119.8 | 2.1 / 3.0 / 1.9* / 2.5* | EI-Exis SP 300/720 |
| | | | | | | | | 1600 | 50 / 60 / 50* / 60* | 17 / 24.5 / 13.6* / 19.6* | 39.4 | 32.3 / 46.6 | 35186 / 30545 | 119.8 / 172.5 | 7.53 / 4.0 / 2.1* / 3.5* | |
| | | | | | | | | 2500 | 60 / 70 / 60* / 70* | 28.6 / 38.9 / 22.9* / 31.2* | 39.3 | 54.4 / 74 | 35186 / 30081 | 172.5 / 234.8 | 3.56 / 4.9 / 3.1* / 4.4* | |
| EI-Exis SP 350/820 | 393 | 32.28 x 32.28 | 47.24 x 47.24 | 30.31 | 13.78 - 31.30 [40.16] | 11.91 [26.75 opt.] / 9.06 [7.87 opt.] | 1.45 - 22.6 | 1600 | 50 / 60 / 50* / 60* | 17 / 24.5 / 13.6* / 19.6* | 39.4 | 32.3 / 46.6 | 35186 / 30545 | 119.8 / 172.5 | 2.5 / 4.0 / 2.1* / 3.5* | EI-Exis SP 350/820 |
| | | | | | | | | 2500 | 60 / 70 / 60* / 70* | 28.6 / 38.9 / 22.9* / 31.2* | 39.3 | 54.4 / 74 | 35186 / 30081 | 172.5 / 234.8 | 3.56 / 5.0 / 3.1* / 4.4* | |
| | | | | | | | | 3000 | 70 / 80 / 70* / 80* | 29.7 / 38.7 / 23.8* / 31.1* | 39.3 | 56.4 / 73.6 | 35143 / 29747 | 234.8 / 276.1 | 4.2 / 6.0 / 3.8* / 5.3* | |
| | | | | | | | | 4200 | 80 / 95 / 80* / 95* | 46 / 64.8 / 36.9* / 52* | 35.4 | 87.4 / 123.3 | 34519 / 30371 | 276.1 / 346 | 5.0 / 8.0 / 4.4* / 7.0* | |
| | | | | | | | | 6300 | 95 / 110 / 95* / 110* | 75.1 / 100.7 / 60.2* / 80.7* | 31.5 | 142.7 / 191.4 | 35302 / 29095 | 346 / 405.9 | 6.9 / 10.0 / 6.1* / 8.1* | |
| EI-Exis SP 420/820 | 472 | 32.28 x 32.28 | 47.24 x 47.24 | 30.31 | 13.78 - 31.3 [40.16] | 11.91 [26.75 opt.] / 9.06 [7.87 opt.] | 1.50 - 22.6 | 1600 | 50 / 60 / 50* / 60* | 17 / 24.5 / 13.6* / 19.6* | 39.4 | 32.3 / 46.6 | 35186 / 30545 | 119.8 / 172.5 | 2.5 / 4.0 / 2.1* / 3.5* | EI-Exis SP 420/820 |
| | | | | | | | | 2500 | 60 / 70 / 60* / 70* | 28.6 / 38.9 / 22.9* / 31.2* | 39.3 | 54.4 / 74 | 35186 / 30081 | 172.5 / 234.8 | 3.56 / 4.9 / 3.1* / 4.4* | |
| | | | | | | | | 3000 | 70 / 80 / 70* / 80* | 29.7 / 38.7 / 23.8* / 31.1* | 39.3 | 56.4 / 73.6 | 35143 / 29747 | 234.8 / 276.1 | 4.2 / 5.9 / 3.8* / 5.3* | |
| | | | | | | | | 4200 | 80 / 95 / 80* / 95* | 46 / 64.8 / 36.9* / 52* | 35.4 | 87.4 / 123.3 | 34519 / 30371 | 276.1 / 346 | 4.9 / 7.9 / 4.4* / 7.1* | |
| | | | | | | | | 6300 | 95 / 110 / 95* / 110* | 75.1 / 100.7 / 60.2* / 80.7* | 31.5 | 142.7 / 191.4 | 35302 / 29095 | 346 / 405.9 | 6.9 / 9.9 / 7.1* / 8.1* | |
| EI-Exis SP 450/920 | 506 | 36.22 x 36.22 | 51.18 x 51.18 | 33.46 | 14.17 - 34.65 [43.7] | 11.91 / 10.24 | 1.55 - 25.35 | 2500 | 60 / 70 / 60* / 70* | 28.6 / 38.9 / 22.9* / 31.2* | 39.3 | 54.4 / 74 | 35186 / 30081 | 172.5 / 234.8 | 3.5 / 4.9 / 3.1* / 4.4* | EI-Exis SP 450/920 |
| | | | 51.97 x 52.76 | | | | | 3000 | 70 / 80 / 70* / 80* | 29.7 / 38.7 / 23.8* / 31.1* | 39.3 | 56.4 / 73.6 | 35143 / 29747 | 234.8 / 276.1 | 4.2 / 5.9 / 3.8* / 5.3* | |
| | | | | | | | | 4200 | 80 / 95 / 80* / 95* | 46 / 64.8 / 36.9* / 52* | 35.4 | 87.4 / 123.3 | 34519 / 30371 | 276.1 / 346 | 4.9 / 7.9 / 4.4* / 5.6* | |
| | | | | | | | | 6300 | 95 / 110 / 95* / 110* | 75.1 / 100.7 / 60.2* / 80.7* | 31.5 | 142.7 / 191.4 | 35302 / 29095 | 346 / 405.9 | 6.8 / 9.9 / 6.1* / 8.1* | |
| EI-Exis SP 580/1020 | 652 | 40.16 x 40.16 | 57.08 x 57.87 | 36.61 | 14.57 - 37.01 [46.06] | 18.54 / 11.81 | 1.85 - 28.11 | 3000 | 70 / 80 / 70* / 80* | 29.7 / 38.7 / 23.8* / 31.1* | 58.0 | 56.4 / 73.6 | 35143 / 29747 | 234.8 / 276.1 | 4.2 / 5.9 / 3.8* / 5.3* | EI-Exis SP 580/1020 |
| | | | | | | | | 4200 | 80 / 95 / 80* / 95* | 46 / 64.8 / 36.9* / 52* | 35.4 | 87.4 / 123.3 | 34519 / 30371 | 276.1 / 346 | 4.9 / 7.9 / 4.4* / 7.0* | |
| | | | | | | | | 6300 | 95 / 110 / 95* / 110* | 75.1 / 100.7 / 60.2* / 80.7* | 31.5 | 142.7 / 191.4 | 35302 / 29095 | 346 / 405.9 | 6.9 / 9.9 / 6.1* / 8.1* | |
| EI-Exis SP 750/1120 | 843 | 44.09 x 44.09 | 63.78 x 63.78 | 40.55 | 15.75 - 40.16 [49.21] | 24.5 / 13.78 | 2.00 - 27.65 | 3000 | 70 / 80 / 70* / 80* | 29.7 / 38.7 / 23.8* / 31.1* | 39.3 | 56.4 / 73.6 | 35143 / 29747 | 234.8 / 276.1 | 4.2 / 5.9 / 3.8* / 5.3* | EI-Exis SP 750/1120 |
| | | | | | | | | 4200 | 80 / 95 / 80* / 95* | 46 / 64.8 / 36.9* / 52* | 35.4 | 87.4 / 123.3 | 34519 / 30371 | 276.1 / 346 | 4.9 / 7.9 / 4.4* / 7.0* | |
| | | | | | | | | 6300 | 95 / 110 / 95* / 110* | 75.1 / 100.7 / 60.2* / 80.7* | 31.5 | 142.7 / 191.4 | 35302 / 29095 | 346 / 405.9 | 6.9 / 9.9 / 6.1* / 8.1* | |

NOTE: Specifications subject to change without notice.