



Toggle Free Smart series (TFs) High Pressure Die Casting Machines Technical Specifications from 1400t to 11000t



**Toggle Free Smart series
TFs 1400-TFs 3300**

**Toggle Free Smart series
TFs 3700-TFs 11000**

| | MAX DIE CLOSING FORCE (kN) | MACHINE MODEL | PLATENS DIMENSIONS | DISTANCE BETWEEN THE TIE-BARS | MIN-MAX DIE HEIGHT | CENTRAL EJECTION FORCE - forward and backward | CENTRAL EJECTION STROKE | INJECTION FORCE WITH 0/25 BAR BACKPRESSURE | INJECTION PLUNGER STROKE | INJECTION PLUNGER DIAMETERS | SHOT-SLEEVE POSITIONS | SHOT WEIGHT FOR ALUMINIUM ALLOYS (min/max)(in accordance with DIN 24480) | SPECIFIC INJECTION PRESSURE (min/max) | OVERALL DIMENSIONS (length x width x height) |
|-----------------|----------------------------|----------------|--------------------|-------------------------------|--------------------|---|-------------------------|--|--------------------------|-----------------------------|-----------------------|--|---|--|
| | kN | | mm | mm | mm | kN | mm | kN | mm | mm | mm | kg | Bar | mm |
| TFs 1400 | 13734 | TFs 1400 SC4.1 | 1820 | 1100 | 600 - 1100 | 527 | 240 | 1022/945 | 850 | 90/150 | 0/-400 | 9,0/25,0 | 578/1606 | 10200 x 4200 x 4400 |
| | | TFs 1400 SC4.2 | 1820 | 1100 | 600 - 1100 | 527 | 240 | 1427/1319 | 1050 | 90/160 | 0/-400 | 11,1/35,2 | 710/2243 | 10800 x 4200 x 4400 |
| TFs 1650 | 16187 | TFs 1650 SC4.1 | 2050 | 1250 | 700 - 1250 | 527 | 240 | 1022/945 | 850 | 90/150 | 0/-400 | 9,0/25,0 | 578/1606 | 10900 x 4500 x 4600 |
| | | TFs 1650 SC4.2 | 2050 | 1250 | 700 - 1250 | 527 | 240 | 1427/1319 | 1050 | 90/160 | 0/-400 | 11,1/35,2 | 710/2243 | 11400 x 4500 x 4600 |
| TFs 1850 | 18149 | TFs 1850 SC4.1 | 2100 | 1300 | 800 - 1400 | 527 | 280 | 1022/945 | 850 | 90/150 | 0/-400 | 9,0/25,0 | 578/1606 | 11200 x 4800 x 4600 |
| | | TFs 1850 SC4.2 | 2100 | 1300 | 800 - 1400 | 527 | 280 | 1427/1319 | 1050 | 90/160 | 0/-450 | 11,1/35,2 | 710/2243 | 11800 x 4800 x 4600 |
| TFs 2250 | 22073 | TFs 2250 SC4.2 | 2300 | 1400 | 900 - 1600 | 527 | 280 | 1427/1319 | 1050 | 90/160 | 0/-500 | 11,1/35,2 | 710/2243 | 12800 x 5000 x 4800 |
| | | TFs 2250 SC4.3 | 2300 | 1400 | 900 - 1600 | 527 | 280 | 2072/1916 | 1250 | 100/180 | 0/-500 | 16,4/53,0 | 814/2638 | 13300 x 5000 x 5300 |
| TFs2800 | 27468 | TFs 2800 SC4.2 | 2570 | 1550 | 1000 - 1800 | 766 | 320 | 1427/1319 | 1050 | 90/160 | 0/-500 | 11,1/35,2 | 710/2243 | 13700 x 5300 x 5100 |
| | | TFs 2800 SC4.3 | 2570 | 1550 | 1000 - 1800 | 766 | 320 | 2072/1916 | 1250 | 100/190 | 0/-600 | 16,4/59,1 | 731/2638 | 14200 x 5300 x 5600 |
| | | TFs 2800 SC4.4 | 2570 | 1550 | 1000 - 1800 | 766 | 320 | 2694/2495 | 1450 | 110/200 | 0/-600 | 27,3/75,9 | 857/2835 | 14900 x 5300 x 5800 |
| TFs 3300 | 32373 | TFs 3300 SC4.3 | 2630 | 1590 | 1000 - 2000 | 766 | 320 | 2072/1916 | 1250 | 110/190 | 0/-600 | 19,8/59,1 | 731/2180 | 14800 x 5300 x 5700 |
| | | TFs 3300 SC4.4 | 2630 | 1590 | 1000 - 2000 | 766 | 320 | 2694/2495 | 1450 | 120/200 | 0/-600 | 27,3/75,9 | 857/2382 | 15500 x 5300 x 5900 |

All data are subject to technical alterations



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| | MAX DIE CLOSING FORCE (kN) | MACHINE MODEL | PLATENS DIMENSIONS | DISTANCE BETWEEN THE TIE-BARS | MIN-MAX DIE HEIGHT | CENTRAL EJECTION FORCE - forward and backward | CENTRAL EJECTION STROKE | INJECTION FORCE WITH 0/25 BAR BACKPRESSURE | INJECTION PLUNGER STROKE | INJECTION PLUNGER DIAMETERS | SHOT-SLEEVE POSITIONS | SHOT WEIGHT FOR ALUMINIUM ALLOYS (min/max) (in accordance with DIN 24480) | SPECIFIC INJECTION PRESSURE (min/max) | OVERALL DIMENSIONS (length x width x height) |
|------------------|----------------------------|-----------------|---|-------------------------------|--------------------|---|-------------------------|--|--------------------------|-----------------------------|-----------------------|---|---|--|
| | kN | | mm | mm | mm | kN | mm | kN | mm | mm | mm | kg | Bar | mm |
| TFs 3700 | 36297 | TFs 3700 SC4.3 | 2900 | 1710 | 1000 - 2000 | 1106 | 350 | 2072/1916 | 1250 | 110/200 | 0/-600 | 19,8/65,4 | 660/2180 | 15300 x 5600 x 5900 |
| | | TFs 3700 SC4.4 | 2900 | 1710 | 1000 - 2000 | 1106 | 350 | 2694/2495 | 1450 | 120/220 | 0/-600 | 27,3/91,9 | 709/2382 | 16000 x 5600 x 6100 |
| TFs 4400 | 43164 | TFs 4400 SC4.3 | 3100 | 1850 | 1300 - 2100 | 1106 | 350 | 2072/1916 | 1250 | 120/210 | 0/-600 | 23,6/72,2 | 598/1832 | 15800 x 6100 x 6000 |
| | | TFs 4400 SC4.4 | 3100 | 1850 | 1300 - 2100 | 1106 | 350 | 2694/2495 | 1450 | 120/230 | 0/-600 | 27,3/100,4 | 648/2382 | 16500 x 6100 x 6200 |
| TFs 6100 | 59841 | TFs 6100 SC4.4 | 3640 | 2200 | 1400 - 2400 | 1329 | 400 | 2694/2495 | 1450 | 130/250 | 0/-700 | 32,1/118,6 | 549/2030 | 17400 x 6600 x 6600 |
| | | TFs 6100 SC4.5 | 3640 | 2200 | 1400 - 2400 | 1329 | 400 | 3325/3080 | 1800 | 130/250 | 0/-700 | 39,8/147,3 | 678/2506 | 18100 x 6600 x 7100 |
| TFs 7100 | 69651 | TFs 7100 SC4.5 | 4000 | 2400 | 1500 - 2500 | 1329 | 400 | 3325/3080 | 1800 | 150/280 | 0/-800 | 53,0/184,7 | 540/1882 | 18600 x 7400 x 7300 |
| | | TFs 7100 SC4.6 | 4000 | 2400 | 1500 - 2500 | 1329 | 400 | 5014/4723 | 2000 | 180/300 | 0/-800 | 93,3/259,2 | 613/1703 | 19100 x 7400 x 7400 |
| TFs 9000 | 88290 | TFs 9000 SC4.5 | 4250 | 2500 | 1500 - 2500 | 1608 | 400 | 3325/3080 | 1800 | 170/300 | 0/-800 | 68,1/212,1 | 470/1465 | 19200 x 7700 x 7500 |
| | | TFs 9000 SC4.6 | 4250 | 2500 | 1500 - 2500 | 1608 | 400 | 5014/4723 | 2000 | 180/300 | 0/-800 | 93,3/259,2 | 711/1975 | 19700 x 7700 x 7900 |
| TFs 11000 | 107910 | TFs 11000 SC4.5 | Contact your IPG sales representative to get the detailed technical data of the TF11000 | | | | | | | | | | | |
| | | TFs 11000 SC4.6 | | | | | | | | | | | | |

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