

Ultra-high pressure pumps

Z-Baureihe (21 750 psi / 1 500 bar)

150 Z | 185 Z | 250 Z

400 Z | 550 Z | 700 Z | 1000 Z

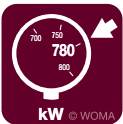
WOMA®Pumps

With operating pressures up to 21 750 psi/1 500 bar and rated volume up to 160 gpm / 605 l/min¹⁾, this series is ideal for hand tool operations like heavy concrete removal, stripping of coatings and de-scaling.

This series offers gear box cooling and being slow speed pumps, are low wear, resulting in long life and longer operation between maintenance cycles. The modular design provides a greater degree of flexibility as you can change the output parameters simply by changing the interchangeable plunger set. An auxiliary shaft end multiplies the possibilities further, because you can connect a second pump and thus double the output. The pumps are designed for suction flow temperatures up to 65 °C or 90 °C* in special cases. The series meets the ATEX standards as well as the API standards**.

* optional, ** pressure-dependent and volume flow-dependent

¹⁾ 1 liter \approx 0.2641 US.liq.gal



Example of an available model



All illustrations are examples
of available models only

WOMA® Ultra-high pressure pump 400 Z

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WOMA®Pumps

Technical Features

Gear Box

- Proven industrial Gear Box with pressurized oil lubrication and 3 available gear ratios (WOMA® standard)

Pump head

- Stress-free pump head in central valve design
- High volumetric efficiency due to minimal dead space
- Low-pulsation operation thanks to optimised valve kinematics
- High life expectancy of all pump head components due to the use of materials with high strength and yield
- Maintenance-friendly due to ease of assembly and access

Interchangeable plunger set

- Interchangeable plunger set system, equipped with ceramic, hard metal or steel plungers and dynamic sealing system

Additional equipment

- Pressure regulation valve with pneumatic activation
- Pneumatically controlled 2/2-way directional relief valve
- Pneumatically actuated check valve for 3/2-way directional function
- Pneumatically controlled high-pressure valves for the simultaneous operation of several users




Special model

- Set and valves in special materials for aggressive media being pumped, e.g. sea water
- Water temperatures above 65 °C

Directives and standards



- ATEX 94/9/EC
- API 674 (pressure and volume flow-dependent)
- Quality management system according to DIN ISO EN 9001

Features of the Z-series

| | Plunger-diameter (mm) | Gear ratio | | | Crankshaft (rpm) | Required driving power (HP/kW) | Max. flow rate (USG pm/l/min) | Max. operating pressure (psi / bar) |
|---|-----------------------|-------------------------|-------------------------|-------------------------|------------------|--------------------------------|-------------------------------|-------------------------------------|
| | | Pinion shaft (rpm) 1500 | Pinion shaft (rpm) 1800 | Pinion shaft (rpm) 2100 | | | | |
|   Installation variations | 19 | - | - | 4.57 | 460 | 128.7 / 96 | 9.2 / 35 | 21750/1500 |
| | 19 | - | 3.69 | - | 487 | 135.4 / 101 | 9.8 / 37 | 21750/1500 |
| | 19 | - | 4.57 | - | 393 | 110.0 / 82 | 7.9 / 30 | 21750/1500 |
| | 19 | 2.96 | - | - | 506 | 142.1 / 106 | 10.3 / 39 | 21750/1500 |
| | 19 | 3.69 | - | - | 406 | 114.0 / 85 | 8.2 / 31 | 21750/1500 |
| | 19 | 4.57 | - | - | 328 | 91.2 / 68 | 6.6 / 25 | 21750/1500 |
| | 20 | - | - | 4.57 | 460 | 119.3 / 89 | 10.3 / 39 | 18125/1250 |
| | 20 | - | 3.69 | - | 487 | 124.7 / 93 | 10.8 / 41 | 18125/1250 |
| | 20 | - | 4.57 | - | 393 | 100.6 / 75 | 8.7 / 33 | 18125/1250 |
| | 20 | 2.96 | - | - | 506 | 131.4 / 98 | 11.4 / 43 | 18125/1250 |
| | 20 | 3.69 | - | - | 406 | 103.3 / 77 | 9.0 / 34 | 18125/1250 |
| | 20 | 4.57 | - | - | 328 | 83.1 / 62 | 7.1 / 27 | 18125/1250 |
| | 22 | - | - | 4.57 | 460 | 115.3 / 86 | 12.4 / 47 | 14500/1000 |
| | 22 | - | 3.69 | - | 487 | 122.0 / 91 | 13.2 / 50 | 14500/1000 |
| | 22 | - | 4.57 | - | 393 | 97.9 / 73 | 10.6 / 40 | 14500/1000 |
| | 22 | 2.96 | - | - | 506 | 127.4 / 95 | 13.7 / 52 | 14500/1000 |
| | 22 | 3.69 | - | - | 406 | 103.3 / 77 | 11.1 / 42 | 14500/1000 |
| | 22 | 4.57 | - | - | 328 | 83.1 / 62 | 9.0 / 34 | 14500/1000 |
| | 26 | - | - | 4.57 | 460 | 123.4 / 92 | 17.7 / 67 | 10875/750 |
| | 26 | - | 3.69 | - | 487 | 130.1 / 97 | 18.8 / 71 | 10875/750 |
| | 26 | - | 4.57 | - | 393 | 106.0 / 79 | 15.3 / 58 | 10875/750 |
| | 26 | 2.96 | - | - | 506 | 135.4 / 101 | 19.6 / 74 | 10875/750 |
| | 26 | 3.69 | - | - | 406 | 110.0 / 82 | 15.9 / 60 | 10875/750 |
| | 26 | 4.57 | - | - | 328 | 88.5 / 66 | 12.7 / 48 | 10875/750 |
| | 30 | - | - | 4.57 | 460 | 124.7 / 93 | 23.8 / 90 | 8265/570 |
| | 30 | - | 3.69 | - | 487 | 132.8 / 99 | 25.1 / 95 | 8265/570 |
| | 30 | - | 4.57 | - | 393 | 107.3 / 80 | 20.3 / 77 | 8265/570 |
| | 30 | 2.96 | - | - | 506 | 138.1 / 103 | 26.2 / 99 | 8265/570 |
| | 30 | 3.69 | - | - | 406 | 110.0 / 82 | 20.9 / 79 | 8265/570 |
| | 30 | 4.57 | - | - | 328 | 89.8 / 67 | 17.0 / 64 | 8265/570 |
| 35 | - | - | 4.57 | 460 | 124.7 / 93 | 32.5 / 123 | 6090/420 | |
| 35 | - | 3.69 | - | 487 | 132.8 / 99 | 34.3 / 130 | 6090/420 | |
| 35 | - | 4.57 | - | 393 | 107.3 / 80 | 27.7 / 105 | 6090/420 | |
| 35 | 2.96 | - | - | 506 | 138.1 / 103 | 36.0 / 136 | 6090/420 | |
| 35 | 3.69 | - | - | 406 | 111.3 / 83 | 28.8 / 109 | 6090/420 | |
| 35 | 4.57 | - | - | 328 | 89.8 / 67 | 23.2 / 88 | 6090/420 | |
|  185 Z | 20 | - | - | 4.57 | 460 | 138.1 / 103 | 10.0 / 38 | 21750/1500 |
| | 20 | - | 3.69 | - | 488 | 146.2 / 109 | 10.6 / 40 | 21750/1500 |
| | 20 | - | 4.57 | - | 394 | 118.0 / 88 | 8.5 / 32 | 21750/1500 |
| | 20 | 2.96 | - | - | 507 | 152.9 / 114 | 11.1 / 42 | 21750/1500 |
| | 20 | 3.69 | - | - | 407 | 122.0 / 91 | 9.0 / 34 | 21750/1500 |
| | 20 | 4.57 | - | - | 328 | 97.9 / 73 | 7.1 / 27 | 21750/1500 |
| | 22 | - | - | 4.57 | 460 | 146.2 / 109 | 12.2 / 46 | 18850/1300 |
| | 22 | - | 3.69 | - | 488 | 155.6 / 116 | 13.0 / 49 | 18850/1300 |
| | 22 | - | 4.57 | - | 394 | 124.7 / 93 | 10.6 / 40 | 18850/1300 |
| | 22 | 2.96 | - | - | 507 | 161.0 / 120 | 13.5 / 51 | 18850/1300 |
| | 22 | 3.69 | - | - | 407 | 128.7 / 96 | 10.8 / 41 | 18850/1300 |
| | 22 | 4.57 | - | - | 328 | 104.6 / 78 | 8.7 / 33 | 18850/1300 |

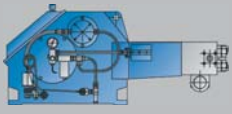
1mm = 0.03937 inch • 1kW = 1.341 HP; 1 kW = 1.36 PS • 1 liter = 0.26417 US.liq.gal • 1 l/min. = 0.26417 USG pm • 1 USG pm = 3.785 liter/s • 1 bar = 14.503 psi

Features of the Z-series

| | Plunger-diameter (mm) | Gear ratio | | | Crankshaft (rpm) | Required driving power (HP/kW) | Max. flow rate (USG pm/l/min) | Max. operating pressure (psi / bar) | |
|---|-----------------------|-------------------------|-------------------------|-------------------------|------------------|--------------------------------|-------------------------------|-------------------------------------|------------|
| | | Pinion shaft (rpm) 1500 | Pinion shaft (rpm) 1800 | Pinion shaft (rpm) 2100 | | | | | |
|  Installation variations | 185 Z | 26 | - | - | 4.57 | 460 | 151.5 / 113 | 17.4 / 66 | 13775/950 |
| | 26 | - | 3.69 | - | 488 | 161.0 / 120 | 18.5 / 70 | 13775/950 | |
| | 26 | - | 4.57 | - | 394 | 130.1 / 97 | 15.1 / 57 | 13775/950 | |
| | 26 | 2.96 | - | - | 507 | 167.6 / 125 | 19.3 / 73 | 13775/950 | |
| | 26 | 3.69 | - | - | 407 | 134.1 / 100 | 15.3 / 58 | 13775/950 | |
| | 26 | 4.57 | - | - | 328 | 108.6 / 81 | 12.4 / 47 | 13775/950 | |
| | 28 | - | - | - | 4.57 | 460 | 150.2 / 112 | 20.3 / 77 | 11600/800 |
| | 28 | - | 3.69 | - | 488 | 158.2 / 118 | 21.7 / 82 | 11600/800 | |
| | 28 | - | 4.57 | - | 394 | 128.7 / 96 | 17.4 / 66 | 11600/800 | |
| | 28 | 2.96 | - | - | 507 | 165.0 / 123 | 22.5 / 85 | 11600/800 | |
| | 28 | 3.69 | - | - | 407 | 132.8 / 99 | 18.0 / 68 | 11600/800 | |
| | 28 | 4.57 | - | - | 328 | 107.3 / 80 | 14.5 / 55 | 11600/800 | |
|  Installation variations | 250 Z | 24 | - | - | 4.52 | 464 | 201.2 / 150 | 15.1 / 57 | 21750/1500 |
| | 24 | - | 3.57 | - | 504 | 218.6 / 163 | 16.4 / 62 | 21750/1500 | |
| | 24 | - | 4.52 | - | 398 | 173.0 / 129 | 12.9 / 49 | 21750/1500 | |
| | 24 | 3.04 | - | - | 493 | 213.2 / 159 | 15.9 / 60 | 21750/1500 | |
| | 24 | 3.57 | - | - | 420 | 182.4 / 136 | 13.5 / 51 | 21750/1500 | |
| | 24 | 4.52 | - | - | 331 | 143.5 / 107 | 10.6 / 40 | 21750/1500 | |
| | 26 | - | - | - | 4.52 | 464 | 206.5 / 154 | 17.7 / 67 | 18850/1300 |
| | 26 | - | 3.57 | - | 504 | 224.0 / 167 | 19.3 / 73 | 18850/1300 | |
| | 26 | - | 4.52 | - | 398 | 177.0 / 132 | 15.1 / 57 | 18850/1300 | |
| | 26 | 3.04 | - | - | 493 | 220.0 / 164 | 18.8 / 71 | 18850/1300 | |
| | 26 | 3.57 | - | - | 420 | 186.4 / 139 | 15.9 / 60 | 18850/1300 | |
| | 26 | 4.52 | - | - | 331 | 147.5 / 110 | 12.7 / 48 | 18850/1300 | |
| | 28 | - | - | - | 4.52 | 464 | 214.6 / 160 | 20.6 / 78 | 16675/1150 |
| | 28 | - | 3.57 | - | 504 | 232.0 / 173 | 22.2 / 84 | 16675/1150 | |
| | 28 | - | 4.52 | - | 398 | 183.7 / 137 | 17.7 / 67 | 16675/1150 | |
| | 28 | 3.04 | - | - | 493 | 228.0 / 170 | 21.9 / 83 | 16675/1150 | |
| | 28 | 3.57 | - | - | 420 | 193.1 / 144 | 18.5 / 70 | 16675/1150 | |
| | 28 | 4.52 | - | - | 331 | 152.9 / 114 | 14.5 / 55 | 16675/1150 | |
| | 30 | - | - | - | 4.52 | 464 | 213.2 / 159 | 24.0 / 91 | 14500/1000 |
| | 30 | - | 3.57 | - | 504 | 233.3 / 174 | 26.2 / 99 | 14500/1000 | |
| | 30 | - | 4.52 | - | 398 | 185.1 / 138 | 20.6 / 78 | 14500/1000 | |
| | 30 | 3.04 | - | - | 493 | 229.3 / 171 | 25.4 / 96 | 14500/1000 | |
| | 30 | 3.57 | - | - | 420 | 194.4 / 145 | 21.7 / 82 | 14500/1000 | |
| | 30 | 4.52 | - | - | 331 | 154.2 / 115 | 17.2 / 65 | 14500/1000 | |
| | 35 | - | - | - | 4.52 | 464 | 214.6 / 160 | 32.5 / 123 | 10440/720 |
| | 35 | - | 3.57 | - | 504 | 232.0 / 173 | 35.1 / 133 | 10440/720 | |
| | 35 | - | 4.52 | - | 398 | 183.7 / 137 | 27.7 / 105 | 10440/720 | |
| | 35 | 3.04 | - | - | 493 | 228.0 / 170 | 34.3 / 130 | 10440/720 | |
| | 35 | 3.57 | - | - | 420 | 193.1 / 144 | 29.3 / 111 | 10440/720 | |
| | 35 | 4.52 | - | - | 331 | 152.9 / 114 | 23.2 / 88 | 10440/720 | |

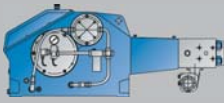
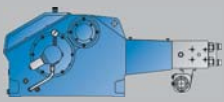
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Features of the Z-series

| | Plunger-diameter (mm) | Gear ratio | | | Crankshaft (rpm) | Required driving power (HP/kW) | Max. flow rate (USG pm/l/min) | Max. operating pressure (psi / bar) |
|--|-----------------------|-------------------------|-------------------------|-------------------------|------------------|--------------------------------|-------------------------------|-------------------------------------|
| | | Pinion shaft (rpm) 1500 | Pinion shaft (rpm) 1800 | Pinion shaft (rpm) 2100 | | | | |
| 400 Z  | 26 | - | - | 4.23 | 496 | 346.0 / 258 | 25.9 / 98 | 21750/1500 |
| | 26 | - | 3.60 | - | 500 | 348.7 / 260 | 26.2 / 99 | 21750/1500 |
| | 26 | - | 4.23 | - | 425 | 296.4 / 221 | 22.2 / 84 | 21750/1500 |
| | 26 | 2.96 | - | - | 506 | 352.7 / 263 | 26.4 / 100 | 21750/1500 |
| | 26 | 3.60 | - | - | 416 | 289.7 / 216 | 21.7 / 82 | 21750/1500 |
| | 26 | 4.23 | - | - | 354 | 246.7 / 184 | 18.5 / 70 | 21750/1500 |
| | 28 | - | - | 4.23 | 496 | 351.3 / 262 | 30.1 / 114 | 18850/1300 |
| | 28 | - | 3.60 | - | 500 | 354.0 / 264 | 30.4 / 115 | 18850/1300 |
| | 28 | - | 4.23 | - | 425 | 301.7 / 225 | 25.9 / 98 | 18850/1300 |
| | 28 | 2.96 | - | - | 506 | 358.0 / 267 | 30.6 / 116 | 18850/1300 |
| | 28 | 3.60 | - | - | 416 | 295.0 / 220 | 25.1 / 95 | 18850/1300 |
| | 28 | 4.23 | - | - | 354 | 250.8 / 187 | 21.4 / 81 | 18850/1300 |
| | 30 | - | - | 4.23 | 496 | 359.3 / 268 | 34.6 / 131 | 16675/1150 |
| | 30 | - | 3.60 | - | 500 | 362.1 / 270 | 34.9 / 132 | 16675/1150 |
| | 30 | - | 4.23 | - | 425 | 308.4 / 230 | 29.6 / 112 | 16675/1150 |
| | 30 | 2.96 | - | - | 506 | 367.4 / 274 | 34.9 / 132 | 16675/1150 |
| | 30 | 3.60 | - | - | 416 | 301.7 / 225 | 29.1 / 110 | 16675/1150 |
| | 30 | 4.23 | - | - | 354 | 256.1 / 191 | 24.6 / 93 | 16675/1150 |
| | 35 | - | - | 4.23 | 496 | 367.4 / 274 | 47.8 / 181 | 12325/850 |
| | 35 | - | 3.60 | - | 500 | 370.1 / 276 | 48.3 / 183 | 12325/850 |
| | 35 | - | 4.23 | - | 425 | 315.1 / 235 | 40.9 / 155 | 12325/850 |
| | 35 | 2.96 | - | - | 506 | 375.5 / 280 | 48.9 / 185 | 12325/850 |
| | 35 | 3.60 | - | - | 416 | 308.4 / 230 | 40.2 / 152 | 12325/850 |
| | 35 | 4.23 | - | - | 354 | 262.8 / 196 | 34.1 / 129 | 12325/850 |
| | 45 | - | - | 4.23 | 496 | 363.4 / 271 | 81.1 / 307 | 7250/500 |
| | 45 | - | 3.60 | - | 500 | 366.1 / 273 | 81.4 / 308 | 7250/500 |
| | 45 | - | 4.23 | - | 425 | 312.5 / 233 | 69.5 / 263 | 7250/500 |
| | 45 | 2.96 | - | - | 506 | 371.5 / 277 | 82.7 / 313 | 7250/500 |
| | 45 | 3.60 | - | - | 416 | 305.7 / 228 | 67.9 / 257 | 7250/500 |
| | 45 | 4.23 | - | - | 354 | 260.2 / 194 | 57.9 / 219 | 7250/500 |
| 50 | - | - | 4.23 | 496 | 360.7 / 269 | 100.1 / 379 | 5800/400 | |
| 50 | - | 3.60 | - | 500 | 363.4 / 271 | 100.9 / 382 | 5800/400 | |
| 50 | - | 4.23 | - | 425 | 309.8 / 231 | 85.9 / 325 | 5800/400 | |
| 50 | 2.96 | - | - | 506 | 368.8 / 275 | 102.2 / 387 | 5800/400 | |
| 50 | 3.60 | - | - | 416 | 303.1 / 226 | 84.0 / 318 | 5800/400 | |
| 50 | 4.23 | - | - | 354 | 257.5 / 192 | 71.3 / 270 | 5800/400 | |


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Features of the Z-series

| | Plunger-diameter (mm) | Gear ratio | | | Crankshaft (rpm) | Required driving power (HP/kW) | Max. flow rate (USG pm/l/min) | Max. operating pressure (psi / bar) |
|--|-----------------------|-------------------------|-------------------------|-------------------------|------------------|--------------------------------|-------------------------------|-------------------------------------|
| | | Pinion shaft (rpm) 1500 | Pinion shaft (rpm) 1800 | Pinion shaft (rpm) 2100 | | | | |
|  <p>550 Z</p> | 30 | - | - | 4.60 | 457 | 456.0 / 340 | 33.0 / 125 | 21750/1500 |
| | 30 | - | 3.96 | - | 455 | 454.6 / 339 | 33.0 / 125 | 21750/1500 |
| | 30 | - | 4.60 | - | 391 | 391.6 / 292 | 28.3 / 107 | 21750/1500 |
| | 30 | 3.30 | - | - | 455 | 454.6 / 339 | 33.0 / 125 | 21750/1500 |
| | 30 | 3.96 | - | - | 379 | 378.2 / 282 | 27.5 / 104 | 21750/1500 |
| | 30 | 4.60 | - | - | 326 | 325.9 / 243 | 23.5 / 89 | 21750/1500 |
| | 35 | - | - | 4.60 | 457 | 544.4 / 406 | 45.4 / 172 | 18850/1300 |
| | 35 | - | 3.96 | - | 455 | 541.8 / 404 | 45.4 / 172 | 18850/1300 |
| | 35 | - | 4.60 | - | 391 | 466.7 / 348 | 39.1 / 148 | 18850/1300 |
| | 35 | 3.30 | - | - | 455 | 541.8 / 404 | 45.4 / 172 | 18850/1300 |
| | 35 | 3.96 | - | - | 379 | 452.0 / 337 | 37.8 / 143 | 18850/1300 |
| | 35 | 4.60 | - | - | 326 | 388.9 / 290 | 32.5 / 123 | 18850/1300 |
| | 40 | - | - | 4.60 | 457 | 555.2 / 414 | 60.5 / 229 | 14500/1000 |
| | 40 | - | 3.96 | - | 455 | 552.5 / 412 | 60.2 / 228 | 14500/1000 |
| | 40 | - | 4.60 | - | 391 | 476.1 / 355 | 51.8 / 196 | 14500/1000 |
| | 40 | 3.30 | - | - | 455 | 552.5 / 412 | 60.2 / 228 | 14500/1000 |
| | 40 | 3.96 | - | - | 379 | 461.3 / 344 | 50.2 / 190 | 14500/1000 |
| | 40 | 4.60 | - | - | 326 | 397.0 / 296 | 43.1 / 163 | 14500/1000 |
| | 45 | - | - | 4.60 | 457 | 568.6 / 424 | 77.4 / 293 | 11600/800 |
| | 45 | - | 3.96 | - | 455 | 566.0 / 422 | 76.9 / 291 | 11600/800 |
| | 45 | - | 4.60 | - | 391 | 486.8 / 363 | 66.3 / 251 | 11600/800 |
| 45 | 3.30 | - | - | 455 | 566.0 / 422 | 76.9 / 291 | 11600/800 | |
| 45 | 3.96 | - | - | 379 | 472.0 / 352 | 64.2 / 243 | 11600/800 | |
| 45 | 4.60 | - | - | 326 | 406.3 / 303 | 76.6 / 290 | 11600/800 | |
| 50 | - | - | 4.60 | 457 | 574.0 / 428 | 96.2 / 364 | 9425/650 | |
| 50 | - | 3.96 | - | 455 | 572.6 / 427 | 95.6 / 362 | 9425/650 | |
| 50 | - | 4.60 | - | 391 | 492.1 / 367 | 82.4 / 312 | 9425/650 | |
| 50 | 3.30 | - | - | 455 | 572.6 / 427 | 95.6 / 362 | 9425/650 | |
| 50 | 3.96 | - | - | 379 | 476.1 / 355 | 79.8 / 302 | 9425/650 | |
| 50 | 4.60 | - | - | 326 | 410.3 / 306 | 68.7 / 260 | 9425/650 | |
|  <p>700 Z</p> | 30 | - | - | 3.96 | 530 | 529.7 / 395 | 38.3 / 145 | 21750/1500 |
| | 30 | - | 3.45 | - | 522 | 521.6 / 389 | 37.8 / 143 | 21750/1500 |
| | 30 | 3.30 | - | - | 455 | 454.6 / 339 | 33.0 / 125 | 21750/1500 |
| | 30 | - | 3.30 | - | 545 | 545.8 / 407 | 39.6 / 150 | 21750/1500 |
| | 35 | - | - | 3.96 | 530 | 633.0 / 472 | 52.8 / 200 | 18850/1300 |
| | 35 | - | 3.45 | - | 522 | 622.2 / 464 | 52.0 / 197 | 18850/1300 |
| | 35 | 3.30 | - | - | 455 | 541.8 / 404 | 45.4 / 172 | 18850/1300 |
| | 40 | - | - | 3.96 | 530 | 645.0 / 481 | 70.3 / 266 | 14500/1000 |
| | 40 | - | 3.45 | - | 522 | 634.3 / 473 | 68.9 / 261 | 14500/1000 |
| | 40 | 3.30 | - | - | 455 | 552.5 / 412 | 60.2 / 228 | 14500/1000 |
| | 45 | - | - | 3.96 | 530 | 659.8 / 492 | 89.8 / 340 | 11600/800 |
| | 45 | - | 3.45 | - | 522 | 649.0 / 484 | 88.2 / 334 | 11600/800 |
| | 45 | 3.30 | - | - | 455 | 566.0 / 422 | 76.9 / 291 | 11600/800 |
| | 50 | - | - | 3.96 | 530 | 667.8 / 498 | 111.7 / 423 | 9425/650 |
| | 50 | - | 3.45 | - | 522 | 657.1 / 490 | 109.9 / 416 | 9425/650 |
| | 50 | 3.30 | - | - | 455 | 572.6 / 427 | 95.6 / 362 | 9425/650 |

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| | Plunger-diameter (mm) | Gear ratio | | | Crankshaft (rpm) | Required driving power (HP/kW) | Max. flow rate (USG pm/l/min) | Max. operating pressure (psi / bar) |
|---|-----------------------|-------------------------|-------------------------|-------------------------|------------------|--------------------------------|-------------------------------|-------------------------------------|
| | | Pinion shaft (rpm) 1500 | Pinion shaft (rpm) 1800 | Pinion shaft (rpm) 2100 | | | | |
| 1000 Z  | 30 | - | - | 4.23 | 496 | 954.8 / 712 | 69.2 / 262 | 21750/1500 |
| | 30 | - | 3.69 | - | 488 | 941.4 / 702 | 68.2 / 258 | 21750/1500 |
| | 30 | - | 4.23 | - | 425 | 816.7 / 609 | 59.2 / 224 | 21750/1500 |
| | 30 | 3.00 | - | - | 500 | 962.8 / 718 | 69.7 / 264 | 21750/1500 |
| | 30 | 3.69 | - | - | 406 | 780.5 / 582 | 56.5 / 214 | 21750/1500 |
| | 30 | 4.23 | - | - | 354 | 682.6 / 509 | 49.4 / 187 | 21750/1500 |
| | 35 | - | - | 4.23 | 496 | 954.8 / 712 | 94.3 / 357 | 15950/1100 |
| | 35 | - | 3.69 | - | 488 | 938.7 / 700 | 92.7 / 351 | 15950/1100 |
| | 35 | - | 4.23 | - | 425 | 818.0 / 610 | 80.8 / 306 | 15950/1100 |
| | 35 | 3.00 | - | - | 500 | 962.8 / 718 | 95.1 / 360 | 15950/1100 |
| | 35 | 3.69 | - | - | 406 | 780.5 / 582 | 77.1 / 292 | 15950/1100 |
| | 35 | 4.23 | - | - | 354 | 679.9 / 507 | 67.1 / 254 | 15950/1100 |
| | 40 | - | - | 4.23 | 496 | 962.8 / 718 | 123.1 / 466 | 12325/850 |
| | 40 | - | 3.69 | - | 488 | 946.7 / 706 | 121.0 / 458 | 12325/850 |
| | 40 | - | 4.23 | - | 425 | 824.7 / 615 | 105.4 / 399 | 12325/850 |
| | 40 | 3.00 | - | - | 500 | 970.9 / 724 | 124.2 / 470 | 12325/850 |
| | 40 | 3.69 | - | - | 406 | 787.2 / 587 | 100.6 / 381 | 12325/850 |
| | 40 | 4.23 | - | - | 354 | 686.6 / 512 | 87.7 / 332 | 12325/850 |
| | 45 | - | - | 4.23 | 496 | 1 020.5 / 761 | 158.5 / 600 | 10150/700 |
| | 45 | - | 3.69 | - | 488 | 1 005.8 / 750 | 156.1 / 591 | 10150/700 |
| | 45 | - | 4.23 | - | 425 | 874.3 / 652 | 135.8 / 514 | 10150/700 |
| | 45 | 3.00 | - | - | 500 | 1 029.9 / 768 | 159.8 / 605 | 10150/700 |
| | 45 | 3.69 | - | - | 406 | 835.4 / 623 | 129.7 / 491 | 10150/700 |
| | 45 | 4.23 | - | - | 354 | 728.2 / 543 | 113.1 / 428 | 10150/700 |

1mm = 0.03937 inch • 1kW = 1.341 HP; 1 kW = 1.36 PS • 1 liter = 0.26417 US.liq.gal • 1 l/min. = 0.26417 USG pm • 1 USG pm = 3.785 liter/s • 1 bar = 14.503 psi

Example of an available model

All illustrations are examples of available models only



Setup example:
 Ultra-high pressure water jet system
 with 1000 Z boxer pump