



TUBE TOOLS

SLUGGING / STRIKING WRENCHES



SHINGARETM
INDUSTRIES PVT LTD

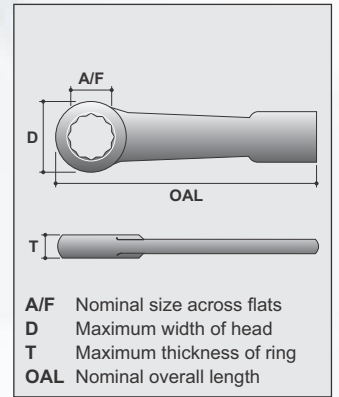
MANUFACTURER & EXPORTER OF

Tube Cleaners, Tube Tools, Tube Expanders,
Bolting Tools, Impact Sockets, Pipe Beveling Machines,
Pipe Cold Cutting Machines, High Pressure
Water Jet Cleaning Machines & Tapping Machines

SLUGGING / STRIKING WRENCHES



TUBE TOOLS



STRAIGHT RING TYPE :

METRIC BIHEXAGON

| MODEL NO. | A/F mm | T mm | D mm | OAL mm | Wt. lbs. |
|-----------|--------|------|------|--------|----------|
| SMSW22 | 22 | 18.0 | 48.0 | 182.0 | 0.610 |
| SMSW23 | 23 | 18.0 | 48.0 | 182.0 | 0.610 |
| SMSW24 | 24 | 18.0 | 48.0 | 182.0 | 0.610 |
| SMSW25 | 25 | 18.0 | 48.0 | 182.0 | 0.590 |
| SMSW26 | 26 | 18.0 | 48.0 | 182.0 | 0.590 |
| SMSW27 | 27 | 18.0 | 48.0 | 182.0 | 0.590 |
| SMSW28 | 28 | 18.0 | 54.0 | 185.0 | 0.580 |
| SMSW29 | 29 | 18.0 | 54.0 | 185.0 | 0.560 |
| SMSW30 | 30 | 18.0 | 54.0 | 185.0 | 0.550 |
| SMSW31 | 31 | 18.0 | 54.0 | 185.0 | 0.540 |
| SMSW32 | 32 | 18.0 | 54.0 | 185.0 | 0.550 |
| SMSW33 | 33 | 18.0 | 54.0 | 185.0 | 0.540 |
| SMSW34 | 34 | 18.0 | 54.0 | 185.0 | 0.540 |
| SMSW35 | 35 | 18.0 | 54.0 | 185.0 | 0.540 |
| SMSW36 | 36 | 22.0 | 64.0 | 215.0 | 1.060 |
| SMSW37 | 37 | 22.0 | 64.0 | 215.0 | 1.060 |
| SMSW38 | 38 | 22.0 | 64.0 | 215.0 | 1.040 |
| SMSW39 | 39 | 22.0 | 64.0 | 215.0 | 1.030 |
| SMSW40 | 40 | 22.0 | 64.0 | 215.0 | 1.030 |
| SMSW41 | 41 | 22.0 | 64.0 | 215.0 | 1.030 |
| SMSW42 | 42 | 22.0 | 64.0 | 215.0 | 1.020 |
| SMSW43 | 43 | 25.0 | 76.0 | 238.0 | 1.480 |
| SMSW44 | 44 | 25.0 | 76.0 | 238.0 | 1.470 |
| SMSW45 | 45 | 25.0 | 76.0 | 238.0 | 1.430 |
| SMSW46 | 46 | 25.0 | 76.0 | 238.0 | 1.400 |
| SMSW47 | 47 | 25.0 | 76.0 | 238.0 | 1.380 |
| SMSW48 | 48 | 25.0 | 80.0 | 240.0 | 1.360 |
| SMSW49 | 49 | 25.0 | 80.0 | 240.0 | 1.350 |
| SMSW50 | 50 | 25.0 | 80.0 | 240.0 | 1.340 |
| SMSW51 | 51 | 25.0 | 80.0 | 240.0 | 1.400 |
| SMSW52 | 52 | 25.0 | 80.0 | 240.0 | 1.400 |
| SMSW54 | 54 | 25.0 | 80.0 | 240.0 | 2.350 |
| SMSW55 | 55 | 28.0 | 88.0 | 262.0 | 2.320 |
| SMSW56 | 56 | 28.0 | 88.0 | 262.0 | 2.325 |
| SMSW57 | 57 | 28.0 | 88.0 | 262.0 | 2.310 |
| SMSW58 | 58 | 28.0 | 88.0 | 262.0 | 2.300 |
| SMSW59 | 59 | 28.0 | 94.0 | 265.0 | 2.250 |
| SMSW60 | 60 | 28.0 | 94.0 | 265.0 | 2.140 |
| SMSW61 | 61 | 28.0 | 94.0 | 265.0 | 2.140 |

METRIC BIHEXAGON (cont.)

| MODEL NO. | A/F mm | T mm | D mm | OAL mm | Wt. lbs. |
|-----------|--------|------|-------|--------|----------|
| SMSW62 | 62 | 28.0 | 94.0 | 265.0 | 2.500 |
| SMSW65 | 65 | 30.0 | 104.0 | 285.0 | 2.710 |
| SMSW67 | 67 | 30.0 | 104.0 | 285.0 | 2.770 |
| SMSW70 | 70 | 35.0 | 110.0 | 315.0 | 3.410 |
| SMSW73 | 73 | 35.0 | 110.0 | 315.0 | 3.410 |
| SMSW75 | 75 | 35.0 | 110.0 | 315.0 | 3.400 |
| SMSW76 | 76 | 35.0 | 110.0 | 315.0 | 3.370 |
| SMSW80 | 80 | 38.0 | 126.0 | 340.0 | 4.860 |
| SMSW85 | 85 | 38.0 | 126.0 | 340.0 | 4.400 |
| SMSW86 | 86 | 38.0 | 126.0 | 340.0 | 4.300 |
| SMSW90 | 90 | 42.0 | 152.0 | 400.0 | 4.650 |
| SMSW95 | 95 | 42.0 | 152.0 | 400.0 | 4.360 |
| SMSW100 | 100 | 42.0 | 152.0 | 400.0 | 7.490 |
| SMSW105 | 105 | 50.0 | 172.0 | 410.0 | 10.580 |
| SMSW110 | 110 | 50.0 | 172.0 | 435.0 | 11.670 |
| SMSW115 | 115 | 50.0 | 172.0 | 435.0 | 10.760 |
| SMSW120 | 120 | 56.0 | 194.0 | 475.0 | 16.070 |
| SMSW125 | 125 | 56.0 | 194.0 | 475.0 | 16.960 |
| SMSW130 | 130 | 60.0 | 205.0 | 505.0 | 16.850 |
| SMSW135 | 135 | 60.0 | 205.0 | 510.0 | 16.550 |
| SMSW140 | 140 | 65.0 | 230.0 | 565.0 | 19.000 |
| SMSW145 | 145 | 65.0 | 230.0 | 565.0 | 18.810 |
| SMSW150 | 150 | 65.0 | 230.0 | 565.0 | 18.550 |
| SMSW155 | 155 | 65.0 | 230.0 | 565.0 | 18.350 |
| SMSW160 | 160 | 70.0 | 270.0 | 635.0 | 29.900 |
| SMSW165 | 165 | 70.0 | 270.0 | 635.0 | 29.700 |
| SMSW170 | 170 | 70.0 | 270.0 | 635.0 | 29.250 |
| SMSW175 | 175 | 70.0 | 270.0 | 635.0 | 28.850 |
| SMSW180 | 180 | 70.0 | 270.0 | 635.0 | 28.500 |
| SMSW185 | 185 | 75.0 | 295.0 | 680.0 | 35.600 |
| SMSW190 | 190 | 75.0 | 295.0 | 680.0 | 35.400 |
| SMSW195 | 195 | 75.0 | 295.0 | 680.0 | 35.200 |
| SMSW200 | 200 | 75.0 | 295.0 | 680.0 | 34.900 |
| SMSW205 | 205 | 75.0 | 295.0 | 680.0 | 34.700 |
| SMSW210 | 210 | 80.0 | 325.0 | 725.0 | 50.850 |
| SMSW215 | 215 | 80.0 | 325.0 | 725.0 | 50.550 |
| SMSW220 | 220 | 80.0 | 325.0 | 725.0 | 50.100 |
| SMSW225 | 225 | 80.0 | 325.0 | 725.0 | 49.800 |
| SMSW230 | 230 | 80.0 | 325.0 | 725.0 | 49.500 |



STRAIGHT RING TYPE :

FRACTIONAL BIHEXAGON

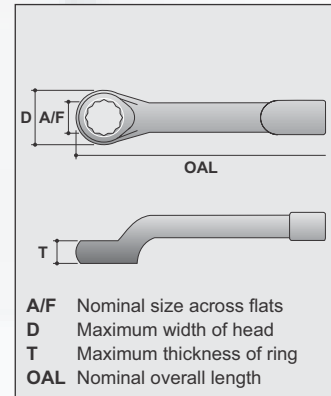
| MODEL NO. | A/F inch | T mm | D mm | OAL mm | Wt. lbs. |
|-----------|----------|-------|-------|--------|----------|
| SASW12 | 3/4" | 0.708 | 1.889 | 7.165 | 1.390 |
| SASW14 | 7/8 | 0.708 | 1.889 | 7.165 | 1.390 |
| SASW15 | 15/16 | 0.708 | 1.889 | 7.165 | 1.340 |
| SASW16 | 1 | 0.708 | 1.889 | 7.165 | 1.320 |
| SASW17 | 1.1/16 | 0.708 | 1.889 | 7.165 | 1.300 |
| SASW18 | 1.1/8 | 0.708 | 2.125 | 7.283 | 1.365 |
| SASW19 | 1.3/16 | 0.708 | 2.125 | 7.283 | 1.200 |
| SASW20 | 1.1/4 | 0.708 | 2.125 | 7.283 | 1.500 |
| SASW21 | 1.5/16 | 0.708 | 2.125 | 7.283 | 1.200 |
| SASW22 | 1.3/8 | 0.708 | 2.125 | 7.283 | 1.200 |
| SASW23 | 1.7/16 | 0.866 | 2.519 | 8.464 | 2.300 |
| SASW24 | 1.1/2 | 0.866 | 2.519 | 8.464 | 2.400 |
| SASW25 | 1.9/16 | 0.866 | 2.519 | 8.464 | 2.350 |
| SASW26 | 1.5/8 | 0.866 | 2.519 | 8.464 | 2.300 |
| SASW27 | 1.11/16 | 0.984 | 2.992 | 9.370 | 3.080 |
| SASW28 | 1.3/4 | 0.984 | 2.992 | 9.370 | 3.080 |
| SASW29 | 1.13/16 | 0.984 | 2.992 | 9.370 | 3.080 |
| SASW30 | 1.7/8 | 0.984 | 2.992 | 9.370 | 3.230 |
| SASW31 | 1.15/16 | 0.984 | 3.149 | 9.448 | 3.230 |
| SASW32 | 2 | 0.984 | 3.149 | 9.448 | 3.080 |
| SASW33 | 2.1/16 | 0.984 | 3.149 | 9.448 | 2.930 |
| SASW34 | 2.1/8 | 0.984 | 3.149 | 9.448 | 3.020 |
| SASW35 | 2.3/16 | 1.102 | 3.464 | 10.314 | 4.840 |
| SASW36 | 2.1/4 | 1.102 | 3.464 | 10.314 | 4.970 |
| SASW37 | 2.5/16 | 1.102 | 3.700 | 10.433 | 4.990 |
| SASW38 | 2.3/8 | 1.102 | 3.700 | 10.433 | 5.040 |
| SASW39 | 2.7/16 | 1.102 | 3.700 | 10.433 | 4.700 |
| SASW40 | 2.1/2 | 1.102 | 3.700 | 10.433 | 3.080 |
| SASW41 | 2.9/16 | 1.181 | 4.094 | 11.220 | 5.875 |
| SASW42 | 2.5/8 | 1.181 | 4.094 | 11.220 | 7.500 |
| SASW43 | 2.11/16 | 1.181 | 4.094 | 11.220 | 7.500 |
| SASW44 | 2.3/4 | 1.377 | 4.330 | 12.401 | 7.500 |
| SASW45 | 2.13/16 | 1.377 | 4.330 | 12.401 | 7.180 |
| SASW46 | 2.7/8 | 1.377 | 4.330 | 12.401 | 7.195 |
| SASW47 | 2.15/16 | 1.377 | 4.330 | 12.401 | 7.200 |
| SASW48 | 3 | 1.377 | 4.330 | 12.401 | 7.400 |
| SASW49 | 3.1/16 | 1.496 | 4.960 | 13.385 | 9.130 |
| SASW50 | 3.1/8 | 1.496 | 4.960 | 13.385 | 8.910 |
| SASW51 | 3.3/16 | 1.496 | 4.960 | 13.385 | 9.130 |
| SASW52 | 3.1/4 | 1.496 | 4.960 | 13.385 | 9.350 |
| SASW53 | 3.5/16 | 1.496 | 4.960 | 13.385 | 9.570 |
| SASW54 | 3.3/8 | 1.496 | 4.960 | 13.385 | 9.680 |
| SASW55 | 3.7/16 | 1.653 | 5.984 | 15.748 | 9.460 |
| SASW56 | 3.1/2 | 1.653 | 5.984 | 15.748 | 9.460 |
| SASW57 | 3.9/16 | 1.653 | 5.984 | 15.748 | 9.500 |
| SASW58 | 3.5/8 | 1.653 | 5.984 | 15.748 | 9.480 |
| SASW59 | 3.11/16 | 1.653 | 5.984 | 15.748 | 9.530 |
| SASW60 | 3.3/4 | 1.653 | 5.984 | 15.748 | 9.590 |
| SASW61 | 3.13/16 | 1.653 | 5.984 | 15.748 | 9.640 |

FRACTIONAL BIHEXAGON(cont.)

| MODEL NO. | A/F inch | T mm | D mm | OAL mm | Wt. lbs. |
|-----------|----------|-------|--------|--------|----------|
| SASW62 | 3.7/8 | 1.653 | 5.984 | 15.748 | 15.000 |
| SASW63 | 3.15/16 | 1.653 | 5.984 | 15.748 | 16.480 |
| SASW64 | 4 | 1.653 | 5.984 | 15.748 | 19.470 |
| SASW65 | 4.1/16 | 1.653 | 5.984 | 15.748 | 19.690 |
| SASW66 | 4.1/8 | 1.968 | 6.771 | 16.141 | 23.280 |
| SASW67 | 4.3/16 | 1.968 | 6.771 | 16.141 | 23.100 |
| SASW68 | 4.1/4 | 1.968 | 6.771 | 16.141 | 22.800 |
| SASW69 | 4.5/16 | 1.968 | 6.771 | 17.125 | 24.550 |
| SASW70 | 4.3/8 | 1.968 | 6.771 | 17.125 | 24.200 |
| SASW71 | 4.7/16 | 1.968 | 6.771 | 17.125 | 23.980 |
| SASW72 | 4.1/2 | 1.968 | 6.771 | 17.125 | 23.670 |
| SASW74 | 4.5/8 | 2.204 | 7.637 | 18.700 | 29.480 |
| SASW76 | 4.3/4 | 2.204 | 7.637 | 18.700 | 29.700 |
| SASW78 | 4.7/8 | 2.204 | 7.637 | 18.700 | 37.310 |
| SASW80 | 5 | 2.204 | 8.070 | 19.881 | 36.850 |
| SASW82 | 5.1/8 | 2.204 | 8.070 | 19.881 | 36.630 |
| SASW83 | 5.3/16 | 2.204 | 8.070 | 19.881 | 36.520 |
| SASW84 | 5.1/4 | 2.204 | 8.070 | 19.881 | 36.520 |
| SASW86 | 5.3/8 | 2.559 | 9.055 | 22.244 | 43.560 |
| SASW88 | 5.1/2 | 2.559 | 9.055 | 22.244 | 41.800 |
| SASW90 | 5.5/8 | 2.559 | 9.055 | 22.244 | 41.580 |
| SASW92 | 5.3/4 | 2.559 | 9.055 | 22.244 | 41.560 |
| SASW94 | 5.7/8 | 2.559 | 9.055 | 22.244 | 40.810 |
| SASW96 | 6 | 2.559 | 9.055 | 22.244 | 40.370 |
| SASW98 | 6.1/8 | 2.559 | 9.055 | 22.244 | 39.820 |
| SASW100 | 6.1/4 | 2.755 | 10.629 | 25.000 | 66.550 |
| SASW102 | 6.3/8 | 2.755 | 10.629 | 25.000 | 66.000 |
| SASW104 | 6.1/2 | 2.755 | 10.629 | 25.000 | 65.340 |
| SASW106 | 6.5/8 | 2.755 | 10.629 | 25.000 | 65.120 |
| SASW108 | 6.3/4 | 2.755 | 10.629 | 25.000 | 64.240 |
| SASW110 | 6.7/8 | 2.755 | 10.629 | 25.000 | 63.470 |
| SASW112 | 7 | 2.755 | 10.629 | 25.000 | 63.030 |
| SASW114 | 7.1/8 | 2.952 | 11.614 | 26.771 | 78.760 |
| SASW116 | 7.1/4 | 2.952 | 11.614 | 26.771 | 78.320 |
| SASW118 | 7.3/8 | 2.952 | 11.614 | 26.771 | 78.100 |
| SASW120 | 7.1/2 | 2.952 | 11.614 | 26.771 | 78.880 |
| SASW122 | 7.5/8 | 2.952 | 11.614 | 26.771 | 77.660 |
| SASW124 | 7.3/4 | 2.952 | 11.614 | 26.771 | 77.440 |
| SASW125 | 7.13/16 | 2.952 | 11.614 | 26.771 | 76.780 |
| SASW126 | 7.7/8 | 2.952 | 11.614 | 26.771 | 76.120 |
| SASW128 | 8 | 2.952 | 11.614 | 26.771 | 76.560 |
| SASW130 | 8.1/8 | 3.149 | 12.795 | 28.543 | 112.420 |
| SASW132 | 8.1/4 | 3.149 | 12.795 | 28.543 | 111.540 |
| SASW134 | 8.3/8 | 3.149 | 12.795 | 28.543 | 110.660 |
| SASW136 | 8.1/2 | 3.149 | 12.795 | 28.543 | 110.220 |
| SASW138 | 8.5/8 | 3.149 | 12.795 | 28.543 | 109.780 |
| SASW142 | 8.7/8 | 3.149 | 12.795 | 28.543 | 109.340 |
| SASW144 | 9 | 3.149 | 12.795 | 28.543 | 108.900 |



TUBE TOOLS



OFFSET RING TYPE :

METRIC BIHEXAGON

| MODEL NO. | A / F mm | T mm | D mm | OAL mm | Wt. kg. |
|-----------|----------|------|-------|--------|---------|
| SMOSW19 | 19 | 20.0 | 42.0 | 250.0 | 1.000 |
| SMOSW22 | 22 | 20.0 | 42.0 | 250.0 | 1.000 |
| SMOSW24 | 24 | 20.0 | 42.0 | 250.0 | 1.000 |
| SMOSW27 | 27 | 25.0 | 52.0 | 270.0 | 1.060 |
| SMOSW30 | 30 | 25.0 | 52.0 | 270.0 | 1.150 |
| SMOSW32 | 32 | 25.0 | 52.0 | 270.0 | 1.290 |
| SMOSW34 | 34 | 25.0 | 52.0 | 270.0 | 1.640 |
| SMOSW35 | 35 | 32.0 | 68.0 | 312.0 | 1.550 |
| SMOSW36 | 36 | 32.0 | 68.0 | 312.0 | 1.500 |
| SMOSW38 | 38 | 32.0 | 68.0 | 312.0 | 1.750 |
| SMOSW40 | 40 | 32.0 | 68.0 | 312.0 | 1.950 |
| SMOSW41 | 41 | 32.0 | 68.0 | 312.0 | 2.150 |
| SMOSW43 | 43 | 35.0 | 82.0 | 340.0 | 2.850 |
| SMOSW46 | 46 | 35.0 | 82.0 | 340.0 | 2.630 |
| SMOSW47 | 47 | 35.0 | 82.0 | 340.0 | 2.610 |
| SMOSW48 | 48 | 35.0 | 82.0 | 340.0 | 2.600 |
| SMOSW49 | 49 | 35.0 | 82.0 | 340.0 | 2.450 |
| SMOSW50 | 50 | 35.0 | 82.0 | 340.0 | 2.350 |
| SMOSW51 | 51 | 35.0 | 82.0 | 340.0 | 3.190 |
| SMOSW52 | 52 | 38.0 | 82.0 | 360.0 | 3.000 |
| SMOSW54 | 54 | 38.0 | 82.0 | 360.0 | 3.000 |
| SMOSW55 | 55 | 38.0 | 82.0 | 360.0 | 2.930 |
| SMOSW56 | 56 | 38.0 | 82.0 | 360.0 | 2.980 |
| SMOSW57 | 57 | 38.0 | 82.0 | 360.0 | 4.850 |
| SMOSW58 | 58 | 38.0 | 82.0 | 360.0 | 4.750 |
| SMOSW59 | 59 | 38.0 | 82.0 | 360.0 | 4.900 |
| SMOSW60 | 60 | 44.0 | 110.0 | 380.0 | 4.430 |
| SMOSW61 | 61 | 44.0 | 110.0 | 380.0 | 4.350 |
| SMOSW62 | 62 | 44.0 | 110.0 | 380.0 | 4.300 |
| SMOSW65 | 65 | 44.0 | 110.0 | 380.0 | 5.650 |
| SMOSW67 | 67 | 44.0 | 110.0 | 380.0 | 5.500 |
| SMOSW70 | 70 | 50.0 | 127.0 | 400.0 | 7.320 |
| SMOSW73 | 73 | 50.0 | 127.0 | 400.0 | 7.000 |
| SMOSW75 | 75 | 50.0 | 127.0 | 400.0 | 6.880 |
| SMOSW76 | 76 | 50.0 | 127.0 | 400.0 | 6.750 |
| SMOSW80 | 80 | 50.0 | 127.0 | 400.0 | 8.630 |
| SMOSW85 | 85 | 50.0 | 127.0 | 400.0 | 7.480 |
| SMOSW86 | 86 | 57.0 | 152.0 | 465.0 | 9.100 |
| SMOSW90 | 90 | 57.0 | 152.0 | 465.0 | 8.970 |
| SMOSW95 | 95 | 57.0 | 152.0 | 465.0 | 11.680 |
| SMOSW100 | 100 | 57.0 | 152.0 | 465.0 | 11.470 |
| SMOSW105 | 105 | 63.5 | 194.0 | 540.0 | 12.000 |
| SMOSW110 | 110 | 63.5 | 194.0 | 540.0 | 11.740 |
| SMOSW115 | 115 | 63.5 | 194.0 | 540.0 | 11.710 |
| SMOSW120 | 120 | 63.5 | 194.0 | 540.0 | 11.550 |
| SMOSW125 | 125 | 63.5 | 194.0 | 540.0 | 11.250 |
| SMOSW130 | 130 | 63.5 | 194.0 | 540.0 | 11.050 |

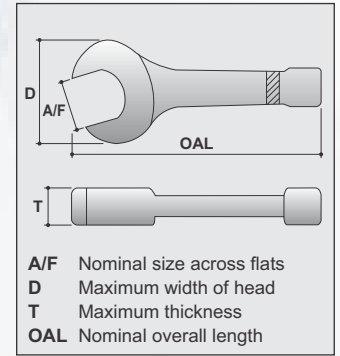
FRACTIONAL BIHEXAGON

| MODEL NO. | A / F inch | T inch | D inch | OAL inch | Wt. lbs. |
|-----------|------------|--------|--------|----------|----------|
| SAOSW15 | 15/16 | 0.787 | 1.653 | 9.842 | 2.160 |
| SAOSW16 | 1 | 0.787 | 1.653 | 9.842 | 2.200 |
| SAOSW17 | 1.1/16 | 0.984 | 2.047 | 10.629 | 2.330 |
| SAOSW18 | 1.1/8 | 0.984 | 2.047 | 10.629 | 2.220 |
| SAOSW19 | 1.3/16 | 0.984 | 2.047 | 10.629 | 2.420 |
| SAOSW20 | 1.1/4 | 0.984 | 2.047 | 10.629 | 2.530 |
| SAOSW21 | 1.5/16 | 0.984 | 2.047 | 10.629 | 4.070 |
| SAOSW22 | 1.3/8 | 1.259 | 2.677 | 12.283 | 3.520 |
| SAOSW23 | 1.7/16 | 1.259 | 2.677 | 12.283 | 3.300 |
| SAOSW24 | 1.1/2 | 1.259 | 2.677 | 12.283 | 3.890 |
| SAOSW26 | 1.5/8 | 1.259 | 2.677 | 12.283 | 4.730 |
| SAOSW27 | 1.11/16 | 1.377 | 3.228 | 13.385 | 4.950 |
| SAOSW28 | 1.3/4 | 1.377 | 3.228 | 13.385 | 4.840 |
| SAOSW29 | 1.13/16 | 1.377 | 3.228 | 13.385 | 6.050 |
| SAOSW30 | 1.7/8 | 1.377 | 3.228 | 13.385 | 6.530 |
| SAOSW32 | 2 | 1.377 | 3.228 | 13.385 | 6.290 |
| SAOSW33 | 2.1/16 | 1.496 | 3.228 | 14.173 | 13.180 |
| SAOSW35 | 2.3/16 | 1.496 | 3.228 | 14.173 | 13.130 |
| SAOSW36 | 2.1/4 | 1.496 | 3.228 | 14.173 | 11.960 |
| SAOSW37 | 2.5/16 | 1.496 | 3.228 | 14.173 | 11.550 |
| SAOSW38 | 2.3/8 | 1.732 | 4.330 | 14.960 | 11.180 |
| SAOSW39 | 2.7/16 | 1.732 | 4.330 | 14.960 | 16.940 |
| SAOSW40 | 2.1/2 | 1.732 | 4.330 | 14.960 | 16.940 |
| SAOSW41 | 2.9/16 | 1.732 | 4.330 | 14.960 | 16.830 |
| SAOSW42 | 2.5/8 | 1.732 | 4.330 | 14.960 | 16.280 |
| SAOSW44 | 2.3/4 | 1.968 | 5.000 | 15.748 | 16.104 |
| SAOSW45 | 2.13/16 | 1.968 | 5.000 | 15.748 | 15.730 |
| SAOSW46 | 2.7/8 | 1.968 | 5.000 | 15.748 | 15.400 |
| SAOSW47 | 2.15/16 | 1.968 | 5.000 | 15.748 | 15.400 |
| SAOSW48 | 3 | 1.968 | 5.000 | 15.748 | 15.140 |
| SAOSW50 | 3.1/8 | 1.968 | 5.000 | 15.748 | 14.740 |
| SAOSW54 | 3.3/8 | 2.244 | 5.984 | 18.307 | 23.500 |
| SAOSW56 | 3.1/2 | 2.244 | 5.984 | 18.307 | 23.430 |
| SAOSW60 | 3.3/4 | 2.244 | 5.984 | 18.307 | 23.210 |
| SAOSW62 | 3.7/8 | 2.244 | 5.984 | 18.307 | 22.550 |
| SAOSW63 | 3.15/16 | 2.244 | 5.984 | 18.307 | 22.220 |
| SAOSW66 | 4.1/8 | 2.480 | 7.637 | 21.259 | 26.400 |
| SAOSW68 | 4.1/4 | 2.480 | 7.637 | 21.259 | 26.290 |
| SAOSW69 | 4.5/16 | 2.480 | 7.637 | 21.259 | 25.830 |
| SAOSW72 | 4.1/2 | 2.480 | 7.637 | 21.259 | 25.480 |
| SAOSW74 | 4.5/8 | 2.480 | 7.637 | 21.259 | 24.970 |
| SAOSW76 | 4.3/4 | 2.480 | 7.637 | 21.259 | 24.420 |
| SAOSW78 | 4.7/8 | 2.480 | 7.637 | 21.259 | 24.200 |
| SAOSW80 | 5 | 2.480 | 7.637 | 21.259 | 23.870 |
| SAOSW82 | 5.1/8 | 2.480 | 7.637 | 21.259 | 23.430 |

SLUGGING / STRIKING WRENCHES



TUBE TOOLS



STRAIGHT OPEN JAW TYPE : METRIC SIZES

| MODEL NO. | A/F mm | T mm | D mm | OAL mm |
|-----------|--------|------|------|--------|
| SMOJ19 | 19 | 17 | 58 | 175 |
| SMOJ22 | 22 | 17 | 58 | 175 |
| SMOJ24 | 24 | 17 | 58 | 175 |
| SMOJ27 | 27 | 17 | 58 | 175 |
| SMOJ30 | 30 | 18 | 66 | 190 |
| SMOJ32 | 32 | 18 | 66 | 190 |
| SMOJ34 | 34 | 18 | 73 | 200 |
| SMOJ36 | 36 | 20 | 78 | 205 |
| SMOJ38 | 38 | 20 | 90 | 225 |
| SMOJ41 | 41 | 20 | 90 | 225 |
| SMOJ46 | 46 | 22 | 100 | 245 |
| SMOJ50 | 50 | 22 | 110 | 270 |
| SMOJ55 | 55 | 25 | 120 | 300 |
| SMOJ60 | 60 | 25 | 130 | 310 |
| SMOJ65 | 65 | 30 | 142 | 340 |
| SMOJ70 | 70 | 32 | 156 | 370 |
| SMOJ75 | 75 | 32 | 164 | 370 |
| SMOJ80 | 80 | 35 | 175 | 395 |
| SMOJ85 | 85 | 35 | 175 | 395 |
| SMOJ90 | 90 | 40 | 197 | 440 |
| SMOJ95 | 95 | 40 | 197 | 440 |
| SMOJ100 | 100 | 48 | 230 | 480 |
| SMOJ105 | 105 | 48 | 230 | 480 |
| SMOJ110 | 110 | 50 | 238 | 505 |
| SMOJ115 | 115 | 56 | 250 | 505 |
| SMOJ120 | 120 | 56 | 258 | 530 |
| SMOJ130 | 130 | 56 | 278 | 560 |
| SMOJ135 | 135 | 56 | 278 | 560 |
| SMOJ145 | 145 | 62 | 308 | 630 |
| SMOJ150 | 150 | 62 | 308 | 630 |
| SMOJ155 | 155 | 62 | 308 | 630 |
| SMOJ165 | 165 | 70 | 345 | 705 |
| SMOJ170 | 170 | 70 | 345 | 705 |
| SMOJ175 | 175 | 70 | 345 | 705 |
| SMOJ180 | 180 | 70 | 345 | 705 |
| SMOJ200 | 200 | 75 | 405 | 760 |
| SMOJ215 | 215 | 80 | 425 | 830 |
| SMOJ230 | 230 | 80 | 475 | 830 |

FRACTIONAL SIZES

| MODEL NO. | A/F inch | T mm | D mm | OAL mm |
|-----------|----------|-------|--------|--------|
| SAOJ12 | 3/4" | 0.669 | 2.283 | 6.890 |
| SAOJ14 | 7/8" | 0.669 | 2.283 | 6.890 |
| SAOJ15 | 15/16 | 0.669 | 2.283 | 6.890 |
| SAOJ17 | 1.1/16 | 0.669 | 2.283 | 6.890 |
| SAOJ18 | 1.1/8 | 0.708 | 2.598 | 7.480 |
| SAOJ20 | 1.1/4 | 0.708 | 2.598 | 7.480 |
| SAOJ21 | 1.5/16 | 0.708 | 2.874 | 7.874 |
| SAOJ22 | 1.3/8 | 0.708 | 2.874 | 7.874 |
| SAOJ23 | 1.7/16 | 0.787 | 3.071 | 8.071 |
| SAOJ24 | 1.1/2 | 0.787 | 3.543 | 8.858 |
| SAOJ26 | 1.5/8 | 0.787 | 3.543 | 8.858 |
| SAOJ27 | 1.11/16 | 0.787 | 3.543 | 8.858 |
| SAOJ29 | 1.13/16 | 0.866 | 3.937 | 9.646 |
| SAOJ30 | 1.7/8 | 0.866 | 4.331 | 10.630 |
| SAOJ32 | 2 | 0.866 | 4.331 | 10.630 |
| SAOJ33 | 2.1/16 | 0.984 | 4.724 | 11.811 |
| SAOJ35 | 2.3/16 | 0.984 | 4.724 | 11.811 |
| SAOJ36 | 2.1/4 | 0.984 | 5.118 | 11.811 |
| SAOJ38 | 2.3/8 | 0.984 | 5.118 | 12.204 |
| SAOJ39 | 2.7/16 | 1.181 | 5.590 | 13.385 |
| SAOJ41 | 2.9/16 | 1.181 | 5.590 | 13.385 |
| SAOJ42 | 2.5/8 | 1.259 | 6.141 | 14.567 |
| SAOJ44 | 2.3/4 | 1.259 | 6.141 | 14.567 |
| SAOJ45 | 2.13/16 | 1.259 | 6.457 | 14.567 |
| SAOJ47 | 2.15/16 | 1.259 | 6.457 | 14.567 |
| SAOJ48 | 3 | 1.259 | 6.457 | 14.567 |
| SAOJ50 | 3.1/8 | 1.378 | 6.890 | 15.551 |
| SAOJ51 | 3.3/8 | 1.378 | 6.890 | 15.551 |
| SAOJ56 | 3.1/2 | 1.575 | 7.756 | 17.323 |
| SAOJ60 | 3.3/4 | 1.575 | 7.756 | 17.323 |
| SAOJ62 | 3.7/8 | 1.890 | 9.055 | 18.898 |
| SAOJ66 | 4.1/8 | 1.890 | 9.055 | 18.898 |
| SAOJ68 | 4.1/4 | 1.968 | 9.370 | 19.882 |
| SAOJ72 | 4.1/2 | 2.204 | 9.842 | 19.882 |
| SAOJ74 | 4.5/8 | 2.204 | 10.157 | 20.866 |
| SAOJ78 | 4.7/8 | 2.204 | 10.945 | 20.866 |
| SAOJ80 | 5 | 2.204 | 10.945 | 22.047 |
| SAOJ84 | 5.1/4 | 2.204 | 10.945 | 22.047 |
| SAOJ86 | 5.3/8 | 2.204 | 10.945 | 22.047 |
| SAOJ90 | 5.5/8 | 2.441 | 12.126 | 24.803 |
| SAOJ92 | 5.3/4 | 2.441 | 12.126 | 24.803 |
| SAOJ96 | 6 | 2.441 | 12.126 | 24.803 |
| SAOJ98 | 6.1/8 | 2.441 | 12.126 | 24.803 |
| SAOJ104 | 6.1/2 | 2.756 | 13.582 | 27.756 |
| SAOJ110 | 6.7/8 | 2.756 | 13.582 | 27.756 |
| SAOJ114 | 7.1/8 | 2.756 | 13.582 | 27.756 |
| SAOJ116 | 7.1/4 | 2.756 | 15.157 | 29.921 |
| SAOJ122 | 7.5/8 | 2.756 | 15.157 | 29.921 |
| SAOJ126 | 7.7/8 | 2.952 | 15.945 | 29.921 |
| SAOJ128 | 8 | 2.952 | 15.945 | 29.921 |
| SAOJ134 | 8.3/8 | 3.150 | 16.732 | 32.677 |
| SAOJ140 | 8.3/4 | 3.150 | 17.520 | 32.677 |
| SAOJ146 | 9.1/8 | 3.150 | 18.700 | 32.677 |

