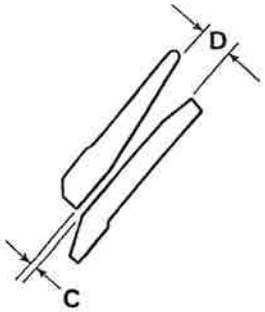
Symons Cone Crushers  Short Head Crusher Capacities Open & Closed Circuits

# Short Head capacities

Short Head Symons cone crushers — cavities • feed openings • product sizes • capacities

**Open circuit — capacities in tons (2000 lb) per hour passing through the crusher at indicated discharge setting C**

| Size | Type of cavity | Recommended minimum discharge setting C | Feed opening with min. recommended discharge setting C: D Closed side | Feed opening with min. recommended discharge setting C: D Open side | 1/8" (3mm) | 3/16" (5mm) | 1/4" (6mm) | 3/8" (10mm) | 1/2" (13mm) | 5/8" (16mm) | 3/4" (19mm) | 1" (25mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 Ft. (610mm) | Fine<br>Coarse | 1/8" (3mm)<br>3/16" (5mm) | 3/4" (19mm)<br>1 1/2" (38mm) | 1 3/8" (35mm)<br>2" (51mm) | 10 | 18<br>18 | 20<br>24 | 30<br>32 | 40<br>45 | 55 | | |
| 3 Ft. (914mm) | Fine<br>Medium<br>Coarse | 1/8" (3mm)<br>1/8" (3mm)<br>1/4" (6mm) | 1/2" (13mm)<br>1 3/4" (33mm)<br>2" (51mm) | 1 5/8" (41mm)<br>2 3/4" (60mm)<br>3" (76mm) | 30<br>30 | 45<br>45 | 60<br>60<br>65 | 75<br>75<br>80 | 100<br>100<br>105 | 110<br>125 | 140 | |
| 4 Ft. (1219mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 3/16" (5mm)<br>5/16" (8mm)<br>1/2" (13mm)<br>5/8" (16mm) | 1 1/8" (29mm)<br>1 3/4" (44mm)<br>2 21/64" (56mm)<br>3 1/2" (89mm) | 2 1/4" (57mm)<br>2 7/8" (73mm)<br>3 1/2" (89mm)<br>4 5/8" (117mm) | | 55 | 85 | 95<br>100 | 135<br>145<br>155<br>160 | 145<br>160<br>180<br>185 | 200<br>210 | 240 |
| 4 1/4 Ft. (1295mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 1/8" (3mm)<br>1/4" (6mm)<br>5/16" (8mm)<br>5/8" (16mm) | 1 1/8" (29mm)<br>2 1/8" (54mm)<br>2 3/4" (70mm)<br>3 7/8" (98mm) | 2 1/2" (64mm)<br>3 1/2" (89mm)<br>4 1/8" (105mm)<br>5 1/4" (133mm) | 40 | 65 | 90<br>90 | 115<br>115<br>120 | 150<br>150<br>175 | 180<br>180<br>200 | 220<br>230 | 250<br>260 |
| 5 1/2 Ft. (1578mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 3/16" (5mm)<br>1/4" (6mm)<br>3/8" (10mm)<br>1/2" (13mm) | 1 3/8" (35mm)<br>2 1/8" (54mm)<br>3 7/8" (98mm)<br>4 5/8" (117mm) | 2 3/4" (70mm)<br>3 1/2" (89mm)<br>5 1/4" (133mm)<br>5 1/4" (133mm) | | 100 | 150<br>150 | 180<br>180<br>210 | 230<br>230<br>280<br>280 | 280<br>310<br>310 | 310<br>340<br>340 | 370<br>370 |
| 7 Ft. HD (2134mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 3/16" (5mm)<br>3/8" (10mm)<br>1/2" (13mm)<br>5/8" (16mm) | 2" (51mm)<br>3 3/4" (95mm)<br>5" (127mm)<br>6" (152mm) | 4 1/8" (105mm)<br>5 1/4" (133mm)<br>7" (178mm)<br>8" (203mm) | | 210 | 300 | 360<br>390 | 400<br>450<br>500 | 450<br>500<br>530<br>560 | 560<br>600<br>650 | 660<br>720 |
| 7 Ft. X HD | | | | | | | Consult factory for capacities | | | | | |
| 10 Ft. (3048mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 1/4" (6mm)<br>1/2" (13mm)<br>5/8" (16mm)<br>3/4" (19mm) | 3" (76mm)<br>4" (102mm)<br>7" (178mm)<br>8" (203mm) | 5" (127mm)<br>6" (152mm)<br>9" (229mm)<br>10" (254mm) | | | 700 | 810<br>880 | 900<br>1010 | 1010<br>1125<br>1240 | 1220<br>1350<br>1460 | 1500<br>1630 |




**Note 1** Net finished product (screen undersize)

**Note 2** Tons per hour passing through crusher (net finished product plus recirculating load)

**Closed circuit — capacities in tons (2000 lb) per hour based on closed circuit operation**

| Size | Type of cavity | Recommended minimum discharge setting C | Feed opening with min. recommended discharge setting C: D Closed side | Feed opening with min. recommended discharge setting C: D Open side | Effective square opening on 1/8" (3mm) — Recommended closed side 1/8" (3mm) Note 1 | 1/8" (3mm) Note 2 | 3/16" (5mm) Note 1 | 3/16" (5mm) Note 2 |
|---|---|---|---|---|---|---|---|---|
| 2 Ft. (610mm) | Fine<br>Coarse | 1/8" (3mm)<br>3/16" (5mm) | 3/4" (19mm)<br>1 1/2" (38mm) | 1 3/8" (35mm)<br>2" (51mm) | 6 | 12 | 10<br>10 | 20<br>20 |
| 3 Ft. (914mm) | Fine<br>Medium<br>Coarse | 1/8" (3mm)<br>1/8" (3mm)<br>1/4" (6mm) | 1/2" (13mm)<br>1 7/16" (33mm)<br>2" (51mm) | 1 5/8" (41mm)<br>2 3/4" (60mm)<br>3" (76mm) | 15<br>15 | 30<br>30 | 20<br>20 | 40<br>40 |
| 4 Ft. (1219mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 3/16" (5mm)<br>5/16" (8mm)<br>1/2" (13mm)<br>5/8" (16mm) | 1 1/8" (29mm)<br>1 3/4" (44mm)<br>2 21/64" (56mm)<br>3 1/2" (89mm) | 2 1/4" (57mm)<br>2 7/8" (73mm)<br>3 1/2" (89mm)<br>4 5/8" (117mm) | 20 | 40 | 35 | 70 |
| 4 1/4 Ft. (1295mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 1/8" (3mm)<br>1/4" (6mm)<br>5/16" (8mm)<br>5/8" (16mm) | 1 1/8" (29mm)<br>2 1/8" (54mm)<br>2 3/4" (70mm)<br>3 7/8" (98mm) | 2 1/2" (64mm)<br>3 1/2" (89mm)<br>4 1/8" (105mm)<br>5 1/4" (133mm) | | | 65 | 130 |
| 5 1/2 Ft. (1676mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 3/16" (5mm)<br>1/4" (6mm)<br>3/8" (10mm)<br>1/2" (13mm) | 1 3/8" (35mm)<br>2 1/8" (54mm)<br>3 7/8" (98mm)<br>4 5/8" (117mm) | 2 3/4" (70mm)<br>3 1/2" (89mm)<br>5 1/4" (133mm)<br>5 1/4" (133mm) | | | 120 | 240 |
| 7 Ft. HD (2134mm) | Fine<br>Medium<br>Coarse<br>Extra Coarse | 3/16" (5mm)<br>3/8" (10mm)<br>1/2" (13mm)<br>5/8" (16mm) | 2" (51mm)<br>3 3/4" (95mm)<br>5" (127mm)<br>6" (152mm) | 4 1/8" (105mm)<br>5 1/4" (133mm)<br>7" (178mm)<br>8" (203mm) | | | | |
| 7 Ft. X HD | | | | | | | Consult factory for capacities | |

closed circuit screen settings for closed circuit operation

| 1/4" (6mm) Note 1 | 1/4" (6mm) Note 2 | 3/8" (10mm) Note 1 | 3/8" (10mm) Note 2 | 1/2" (13mm) Note 1 | 1/2" (13mm) Note 2 | 5/8" (16mm) Note 1 | 5/8" (16mm) Note 2 | 3/4" (19mm) Note 1 | 3/4" (19mm) Note 2 | 1" (25mm) Note 1 | 1" (25mm) Note 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13<br>13 | 20<br>20 | 15<br>18 | 23<br>27 | 25<br>26 | 32<br>35 | 30<br>35 | 45<br>50 | | | | |
| 30<br>30 | 45<br>45 | 50<br>50<br>55 | 65<br>65<br>70 | 70<br>70<br>75 | 85<br>85<br>90 | 80<br>80<br>85 | 110<br>110<br>115 | 95<br>105 | 135<br>145 | 130 | 150 |
| 40 | 60 | 60 | 95 | 80<br>85 | 105<br>110 | 100<br>100<br>115 | 140<br>140<br>160 | 120<br>145<br>150 | 175<br>210<br>220 | 170 | 205 |
| 55 | 80 | 75<br>80 | 110<br>120 | 100<br>105<br>110 | 130<br>140<br>150 | 125<br>125<br>140 | 170<br>170<br>200 | 175<br>175 | 250<br>250 | 200<br>200 | 260<br>260 |
| 90 | 140 | 135<br>135 | 200<br>200 | 175<br>175<br>180 | 220<br>220<br>240 | 210<br>210<br>220<br>220 | 270<br>270<br>280<br>280 | 245<br>250<br>250 | 350<br>360<br>360 | 280<br>320<br>320 | 340<br>385<br>395 |
| 160 | 230 | 240 | 360 | 315<br>315 | 390<br>420 | 360<br>360<br>380 | 450<br>500<br>540 | 420<br>420<br>450<br>465 | 500<br>550<br>650<br>680 | 500<br>550<br>550 | 600<br>660<br>690 |