

Performance data gyratory crushers (Status 12/2003)

| Data table | | | | | | | | | | | | | |
|-----------------------|---------|--------------------------|----------------------------|-------------------------|--------|---|---------|----------------------|----------------------|----------------------|-------------------------------|--------------------|--------|
| Gyratory crusher type | | Diameter of feed opening | Speed of eccentric bushing | Max. drive motor rating | Stroke | Weight (incl. Crushing tools, wear plates and liners) | | | | | | | |
| | | | | | | KB total | Spider | Heaviest shell | Bottom shell | Main shaft | Eccentric bushing with bottom | Hydraulic cylinder | |
| cm | Zoll | [mm] | [1/min] | [kW] | [mm] | [kg] | [kg] | [kg] | [kg] | [kg] | [kg] | [kg] | [kg] |
| KB | 87-170 | 35-67 | 2.710 | 145 | 315 | 38 | 122.000 | 19.000 | 28.000 | 26.600 | 26.000 | 5.100 | 5.200 |
| KB | 105-190 | 42-75 | 3.150 | 137 | 400 | 41 | 185.000 | 31.000 | 26.500 | 41.500 | 37.500 | 8.400 | 9.500 |
| KB | 137-190 | 54-75 | 3.640 | 137 | 600 | 41 | 208.900 | 33.150 | 34.330 | 40.000 | 42.000 | 8.400 | 9.500 |
| KB | 160-190 | 63-75 | 4.080 | 137 | 600 | 44 | 312.200 | 28.000 ^{*)} | 71.300 ^{*)} | 56.000 | 53.900 | 8.400 | 9.500 |
| KB | 152-230 | 60-89 | 4.080 | 137 | 700 | 45 | 388.800 | 29.500 ^{*)} | 92.100 ^{*)} | 77.000 | 74.000 | 12.000 | 18.000 |
| KB | 152-280 | 60-110 | 4.800 | 127 | 900 | 50 | 575.000 | 81.000 | 102.000 | 112.000 | 121.000 | 18.800 | 30.500 |
| KB | 160-290 | 63-114 | 4.650 | 127 | 1.100 | 50 | 562.885 | 94.900 ⁾ | 79.390 ⁾ | 122.500 ⁾ | 122.000 | 15.700 | 26.470 |

To keep pace with technical process, we reserve the right to make improvements without prior notice.

⁾ Divided construction
^{*)} Modified, weight-optimized spider

| Crusher performance Capacity [t/h] at open side setting OSS [mm] and bulk density 1,6 kg/m ³ | | | | | | | | | | | | | | | | | | | | |
|---|---------|--------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Gyratory crusher type | | 80 | | 100 | | 125 | | 150 | | 175 | | 200 | | 225 | | 250 | | 300 | | |
| | | cm | Zoll | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | |
| KB | 87-170 | 35-67 | 660 | 1.424 | 833 | 1.024 | 1.041 | 2.225 | 1.249 | 2.671 | 1.458 | 3.116 | - | - | - | - | - | - | - | |
| KB | 105-190 | 42-75 | - | - | - | - | 1.160 | 2.480 | 1.392 | 2.976 | 1.624 | 3.472 | 1.857 | 3.968 | - | - | - | - | - | |
| KB | 137-190 | 54-75 | - | - | - | - | 1.052 | 2.250 | 1.255 | 2.684 | 1.459 | 3.119 | 1.684 | 3.599 | - | - | - | - | - | |
| KB | 160-190 | 63-75 | - | - | - | - | 1.316 | 2.412 | 1.489 | 2.894 | 1.735 | 3.377 | 1.856 | 3.859 | - | - | - | - | - | |
| KB | 152-230 | 60-89 | - | - | - | - | - | - | 1.726 | 3.689 | 2.013 | 4.303 | 2.301 | 4.968 | 3.589 | 5.533 | - | - | - | |
| KB | 152-280 | 60-110 | - | - | - | - | - | - | - | - | - | - | 3.112 | 6.652 | 3.501 | 7.484 | 3.890 | 8.316 | 4.669 | 9.979 |
| KB | 160-290 | 63-114 | - | - | - | - | - | - | - | - | - | - | 3.224 | 6.890 | 3.626 | 7.751 | 4.029 | 8.613 | 4.835 | 10.335 |

The stated values are only approximate. The guiding values depend on the crushing duty (characteristics of feed material, product requirements) and the crusher configuration. Min. values apply to hard tough feed material with a fines content of less than 20%, max. values apply to medium feed material with a fines content of at least 70%
 Min./max. values can vary. Therefore capacity rates are determined for the specified crushing duty (in case of need).
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