



**QuarryMaster®**

Helical-Bevel Geared Motors



# It runs and runs and runs and runs...

Are you unearthing large quantities on an ongoing basis?  
Do you sometimes move huge masses? Standstill is not part  
of your vocabulary? If so, we're on your wavelength.





## QuarryMaster® conveyor drives – powerful, robust, flexible

**The Stiebel QuarryMaster® is a high-quality and extremely robust geared motor which we developed especially for the requirements of conveyor technology.**

The compact casing combines the power Stiebel hightech gear with a high-quality IEC motor to form an impressive, long-lasting power unit. The B5 or B14 motors are directly flanged onto the gear casing. The output of the conveyor drive is between 1.1 and 90 kW.

Combined with the tried-and-tested gear coupling mounted in an oil bath between the gear and the motor, the conveyor drives are designed for the lower and medium load range. Thanks to their highly compact design they can be used in a wide variety of installation situations.

Designed to stand up to the very toughest conditions, QuarryMaster® provides impressive performance and optimum stability even under high loads or frequent load changes. This is especially due to highquality detail solutions such as the integrated torque absorption and the oil-lubricated backstop.

Thanks to the high variety of hollow shaft types the QuarryMaster® can be flexibly adapted to a wide range of different requirement profiles.





## The very highest level of technology – based on tradition



Every Stiebel drive has within it the rich experience and intensive practice of six decades. This is expertise you can rely on.

We are well aware that our drives have to function impeccably at all times – under enormous strain, in the roughest surroundings and without a break. Even at the other end of the world. This is why we build them to the very highest technological standards – both robust and reliable. We ensure these high quality standards by continuous control using state-of-the-art measuring and testing equipment.





## Application examples

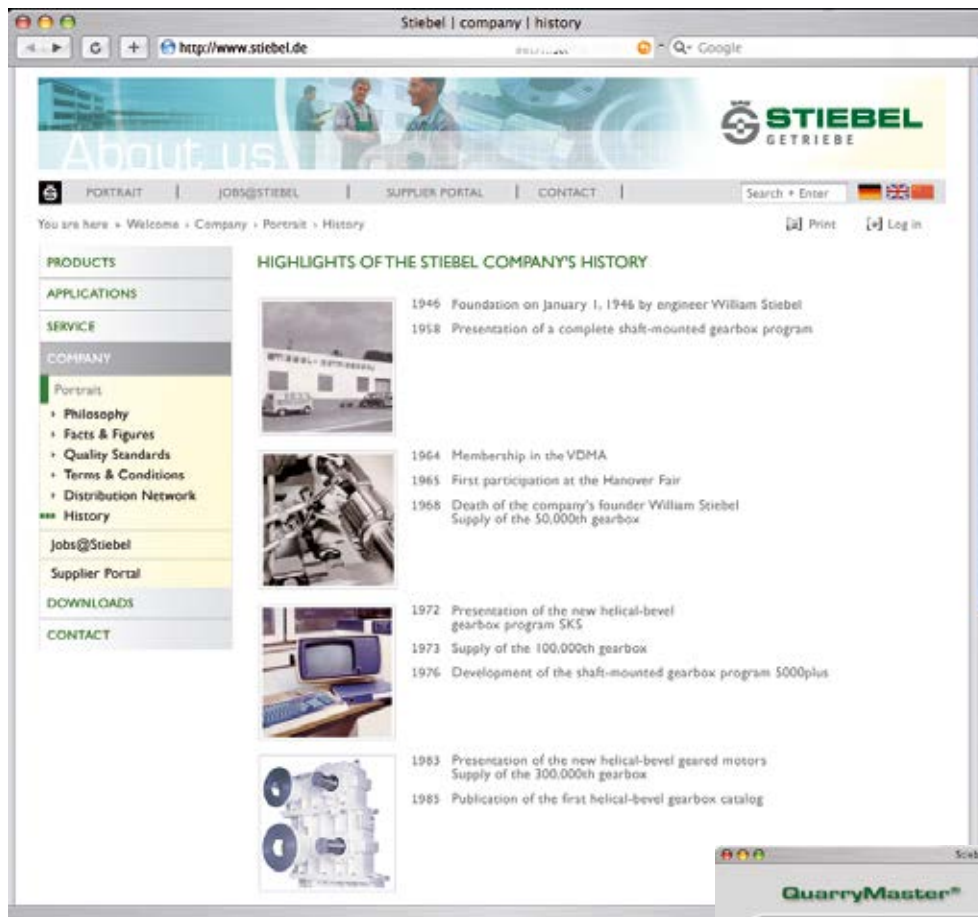


Ideal for rigorous use in quarries, gravel pits, cement factories – and anywhere else where bulk materials are extracted and transported.



## Stiebel online

Our constantly updated website provides you with comprehensive and clearly presented information on all news and products from Stiebel. And of course it gives you all information and specifications relating to our QuarryMaster® drives, as well as a direct line to us.



## Calculation and construction software

With our QuarryMaster® construction software we support you in the selection of the right geared motor to meet your individual requirements and needs. You will find the relevant link on our homepage: [www.stiebel.de](http://www.stiebel.de).



## Performance features at a glance

| Feature                                         | QuarryMaster®                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------|
| Power range, P                                  | 1,1 up to 90 kW                                                         |
| Speed, $n_2$                                    | 22 up to 175 min <sup>-1</sup>                                          |
| Torque, T                                       | 300 up to 16.000 Nm                                                     |
| Service factor, $B_F$                           | ≥ 1,3 standard                                                          |
| Housing design                                  | Divided, symmetrical, without rain catcher                              |
| Housing material                                | Grey cast iron                                                          |
| Installation situations                         | 8 different situations                                                  |
| Backstop                                        | Lubricated within an oil bath, subsequently, installable and reversible |
| Hollow shaft diameter, D                        | 30 up to 120 mm                                                         |
| Hollow shaft – keyway                           | Standard                                                                |
| Hollow shaft – shrinking disc                   | Outer shrinking disc<br>additional charge                               |
| Rotary shaft seals                              | Input 1fold<br>Output 1fold                                             |
| Torque arm                                      | Integrated in the casing, incl. flexible bush as standard               |
| Motor                                           | IEC Standard without additional charge                                  |
| Electric motors – frequency/<br>supply voltage  | 50/60 Hz<br>< 3 kW per 230/400 V<br>≥ 4 kW per 400/690 V                |
| Electric motors – system of<br>protection / ISO | IP 55 / F                                                               |
| Electric motors – thermistors                   | 3 thermistors = for an additional charge                                |
| Brake motors                                    | Upon request for an additional charge                                   |
| Separately driven fan                           | Upon request for an additional charge                                   |

## QuarryMaster® geared motors 1.1 - 1.5 kW

Conveyor drives

| K011 1,1 kW |     |     |     | Motor flange B5-D200 |     |     |     |    |     |     |    |     |     |                |      | approx. 86 kg     |  |  |
|-------------|-----|-----|-----|----------------------|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|--|
| Speed       |     |     |     |                      |     |     |     |    |     |     |    |     |     |                |      |                   |  |  |
| 175         | 158 | 144 | 128 | 115                  | 102 | 88  | 80  | 73 | 64  | 57  | 51 | 46  | 40  | 37             | 33   | min <sup>-1</sup> |  |  |
| D1          | D2  | A   | B   | C                    | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |  |
| 30/35/40    | 40  | 610 | 180 | 172                  | 240 | 750 | 179 | 90 | 302 | 159 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |  |
|             | 50  |     |     |                      |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |  |

| K012 1,1 kW |    | Motor flange B5-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 91 kg     |  |
|-------------|----|----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed       |    |                      |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 30 26 24 22 |    |                      |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A                    | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 30/35/40    | 40 | 660                  | 180 | 172 | 240 | 798 | 179 | 90 | 302 | 159 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|             | 50 |                      |     |     |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

| K015 1,5 kW |     |     |     | Motor flange B5-D200 |     |     |     |    |     |     |    |     |     |                |      | approx. 88 kg     |  |  |
|-------------|-----|-----|-----|----------------------|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|--|
| Speed       |     |     |     |                      |     |     |     |    |     |     |    |     |     |                |      |                   |  |  |
| 175         | 158 | 144 | 128 | 115                  | 102 | 88  | 80  | 73 | 64  | 57  | 51 | 46  | 40  | 37             | 33   | min <sup>-1</sup> |  |  |
| D1          | D2  | A   | B   | C                    | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |  |
| 30/35/40    | 40  | 632 | 180 | 172                  | 240 | 770 | 179 | 90 | 302 | 159 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |  |
|             | 50  |     |     |                      |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |  |

|             |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |               |                   |  |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|---------------|-------------------|--|
| K016 1,5 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                | approx. 97 kg |                   |  |
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |               |                   |  |
| 30          |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |               | min <sup>-1</sup> |  |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O             | P                 |  |
| 30/35/40    | 40 | 669 | 180                   | 172 | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5          | 60                |  |
|             | 50 |     |                       |     |     |     |     |    |     |     |    | 218 |     |                |               |                   |  |

| K016 1,5 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                | approx. 97 kg |                   |  |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|---------------|-------------------|--|
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |               |                   |  |
| 26 24 22    |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |               | min <sup>-1</sup> |  |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O             | P                 |  |
| 35/40/45    | 40 | 669 | 180                   | 172 | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5          | 60                |  |
|             | 50 |     |                       |     |     |     |     |    |     |     |    | 218 |     |                |               |                   |  |





## QuarryMaster® geared motors 2.2 kW

Conveyor drives

| K022 2,2 kW                |    |     |     | Motor flange B14-D200 |     |     |     |    |     |     |    |     |     |                |      | approx. 97 kg     |  |
|----------------------------|----|-----|-----|-----------------------|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed                      |    |     |     |                       |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 175 158 144 128 115 102 88 |    |     |     |                       |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1                         | D2 | A   | B   | C                     | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 30/35/40                   | 40 | 669 | 180 | 172                   | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|                            | 50 |     |     |                       |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

| K022 2,2 kW          |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                |      | approx. 97 kg     |  |
|----------------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed                |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 80 73 64 57 51 46 40 |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1                   | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 35/40/45             | 40 | 669 | 180                   | 172 | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|                      | 50 |     |                       |     |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

| K022 2,2 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                | approx. 97 kg |                   |  |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|---------------|-------------------|--|
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |               |                   |  |
| 37 33       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |               | min <sup>-1</sup> |  |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O             | P                 |  |
| 40/45/50    | 40 | 669 | 180                   | 172 | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5          | 60                |  |
|             | 50 |     |                       |     |     |     |     |    |     |     |    | 218 |     |                |               |                   |  |

| K023 2,2 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                | approx. 128 kg |                   |  |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|----------------|-------------------|--|
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |                |                   |  |
| 30 26       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |                | min <sup>-1</sup> |  |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 40/45/50    | 40 | 724 | 180                   | 172 | 240 | 862 | 272 | 90 | 302 | 220 | 90 | 215 | 145 | 154            | 16,5           | 60                |  |
|             | 50 |     |                       |     |     |     |     |    |     |     |    | 218 |     |                |                |                   |  |

| K023 2,2 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                |      | approx. 128 kg    |  |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 24 22       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 40/45/50    | 50 | 724 | 180                   | 172 | 240 | 862 | 272 | 90 | 302 | 220 | 90 | 218 | 145 | 154            | 16,5 | 60                |  |

## QuarryMaster® geared motors 3,0 kW

Conveyor drives

|             |     |     |     |                       |     |     |     |    |     |     |    |     |     |                |      |                |  |  |                   |  |
|-------------|-----|-----|-----|-----------------------|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|----------------|--|--|-------------------|--|
| K030 3,0 kW |     |     |     | Motor flange B14-D200 |     |     |     |    |     |     |    |     |     |                |      | approx. 103 kg |  |  |                   |  |
| Speed       |     |     |     |                       |     |     |     |    |     |     |    |     |     |                |      |                |  |  |                   |  |
| 175         | 158 | 144 | 128 | 115                   | 102 | 88  |     |    |     |     |    |     |     |                |      |                |  |  | min <sup>-1</sup> |  |
| D1          | D2  | A   | B   | C                     | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P              |  |  |                   |  |
| 30/35/40/45 | 40  | 669 | 180 | 172                   | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5 | 60             |  |  |                   |  |
|             | 50  |     |     |                       |     |     |     |    |     |     |    | 218 |     |                |      |                |  |  |                   |  |

| K030 3,0 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 103 kg    |  |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 80 73 64 57 |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 35/40/45    | 40 | 669                   | 180 | 172 | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|             | 50 |                       |     |     |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

| K030 3,0 kW    |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 103 kg    |  |
|----------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed          |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 51 46 40 37 33 |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1             | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 40/45/50       | 40 | 669                   | 180 | 172 | 240 | 807 | 199 | 90 | 302 | 169 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|                | 50 |                       |     |     |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

|             |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |                |                   |  |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|----------------|-------------------|--|
| K031 3,0 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                | approx. 128 kg |                   |  |
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |                |                   |  |
| 30 26 24    |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |                | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 40/45/50    | 50 | 724                   | 180 | 172 | 240 | 862 | 272 | 90 | 302 | 220 | 90 | 218 | 145 | 154            | 16,5           | 60                |  |

| K032 3,0 kW |    |     | Motor flange B14-D200 |     |     |     |     |     |     |     |       |                   |     |                | approx. 184 kg |    |  |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------------------|-----|----------------|----------------|----|--|
| Speed       |    |     |                       |     |     |     |     |     |     |     |       |                   |     |                |                |    |  |
| 22          |    |     |                       |     |     |     |     |     |     |     |       | min <sup>-1</sup> |     |                |                |    |  |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H   | J   | K   | L     | M                 | N   | N <sub>1</sub> | O              | P  |  |
| 55/60/70    | 60 | 795 | 225                   | 219 | 310 | 971 | 272 | 100 | 366 | 220 | 112,5 | 267               | 180 | 192            | 16,5           | 60 |  |
|             | 70 |     |                       |     |     |     |     |     |     |     |       | 273               |     |                |                |    |  |



## QuarryMaster® geared motors 4,0 kW

Conveyor drives

| K040 4,0 kW         |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |                   | approx. 109 kg |  |
|---------------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|-------------------|----------------|--|
| Speed               |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |                   |                |  |
| 175 158 144 128 115 |    |                       |     |     |     |     |     |    |     |     |    |     |     |                | min <sup>-1</sup> |                |  |
| D1                  | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O                 | P              |  |
| 30/35/40/45         | 40 | 687                   | 180 | 172 | 240 | 825 | 222 | 90 | 302 | 192 | 90 | 215 | 145 | 154            | 16,5              | 60             |  |
|                     | 50 |                       |     |     |     |     |     |    |     |     |    | 218 |     |                |                   |                |  |

| K040 4,0 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                |      | approx. 109 kg |                   |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|----------------|-------------------|
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      |                |                   |
| 102 88      |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      |                | min <sup>-1</sup> |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P              |                   |
| 35/40/45    | 40 | 687 | 180                   | 172 | 240 | 825 | 222 | 90 | 302 | 192 | 90 | 215 | 145 | 154            | 16,5 | 60             |                   |
|             | 50 |     |                       |     |     |     |     |    |     |     |    | 218 |     |                |      |                |                   |

| K040 4,0 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                |      | approx. 109 kg |                   |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|----------------|-------------------|
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      |                |                   |
| 80 73       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |      |                | min <sup>-1</sup> |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P              |                   |
| 35/40/45/50 | 40 | 687 | 180                   | 172 | 240 | 825 | 222 | 90 | 302 | 192 | 90 | 215 | 145 | 154            | 16,5 | 60             |                   |
|             | 50 |     |                       |     |     |     |     |    |     |     |    | 218 |     |                |      |                |                   |

| K040 4,0 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                | approx. 109 kg    |    |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|-------------------|----|
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |                   |    |
| 64 57 51 46 |    |                       |     |     |     |     |     |    |     |     |    |     |     |                | min <sup>-1</sup> |    |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O                 | P  |
| 40/45/50    | 40 | 687                   | 180 | 172 | 240 | 825 | 222 | 90 | 302 | 192 | 90 | 215 | 145 | 154            | 16,5              | 60 |
|             | 50 |                       |     |     |     |     |     |    |     |     |    | 218 |     |                |                   |    |

|             |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |                   |    |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|-------------------|----|
| K040 4,0 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                | approx. 109 kg    |    |
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |                   |    |
| 40 37 33    |    |                       |     |     |     |     |     |    |     |     |    |     |     |                | min <sup>-1</sup> |    |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O                 | P  |
| 40/45/50    | 50 | 687                   | 180 | 172 | 240 | 825 | 222 | 90 | 302 | 192 | 90 | 218 | 145 | 154            | 16,5              | 60 |



## QuarryMaster® geared motors 4,0 – 5,5 kW

Conveyor drives

|             |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |                |    |                   |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|----------------|----|-------------------|
| K041 4,0 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                | approx. 133 kg |    |                   |
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |                |    |                   |
| 30          |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |                |    | min <sup>-1</sup> |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O              | P  |                   |
| 45/50       | 50 | 762 | 180                   | 172 | 240 | 900 | 272 | 90 | 302 | 220 | 90 | 218 | 145 | 154            | 16,5           | 60 |                   |

| K042 4,0 kW |    |     | Motor flange B14-D200 |     |     |      |     |     |     |     |       |                   |     |                | approx. 189 kg |    |  |
|-------------|----|-----|-----------------------|-----|-----|------|-----|-----|-----|-----|-------|-------------------|-----|----------------|----------------|----|--|
| Speed       |    |     |                       |     |     |      |     |     |     |     |       |                   |     |                |                |    |  |
| 26 24 22    |    |     |                       |     |     |      |     |     |     |     |       | min <sup>-1</sup> |     |                |                |    |  |
| D1          | D2 | A   | B                     | C   | E   | F    | G   | H   | J   | K   | L     | M                 | N   | N <sub>1</sub> | O              | P  |  |
| 55/60/70    | 60 | 833 | 225                   | 219 | 310 | 1009 | 272 | 100 | 366 | 220 | 112,5 | 267               | 180 | 192            | 16,5           | 60 |  |
|             | 70 |     |                       |     |     |      |     |     |     |     |       | 273               |     |                |                |    |  |

| K055 5,5 kW             |    |     |     | Motor flange B14-D200 |     |     |     |    |     |     |    |     |     |                |      | approx. 129 kg |  |                   |  |
|-------------------------|----|-----|-----|-----------------------|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|----------------|--|-------------------|--|
| Speed                   |    |     |     |                       |     |     |     |    |     |     |    |     |     |                |      |                |  |                   |  |
| 175 158 144 128 115 102 |    |     |     |                       |     |     |     |    |     |     |    |     |     |                |      |                |  | min <sup>-1</sup> |  |
| D1                      | D2 | A   | B   | C                     | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P              |  |                   |  |
| 35/40/45/50             | 40 | 724 | 180 | 172                   | 240 | 862 | 272 | 90 | 302 | 220 | 90 | 215 | 145 | 154            | 16,5 | 60             |  |                   |  |
|                         | 50 |     |     |                       |     |     |     |    |     |     |    | 218 |     |                |      |                |  |                   |  |

| K055 5,5 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 129 kg    |  |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 88 80 73 64 |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 40/45/50    | 40 | 724                   | 180 | 172 | 240 | 862 | 272 | 90 | 302 | 220 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|             | 50 |                       |     |     |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

| K055 5,5 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 129 kg    |  |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 57 51 46    |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 40/45/50    | 50 | 724                   | 180 | 172 | 240 | 862 | 272 | 90 | 302 | 220 | 90 | 218 | 145 | 154            | 16,5 | 60                |  |



## QuarryMaster® geared motors 5,5 – 7,5 kW

Conveyor drives

| K056 5,5 kW |    | Motor flange B14-D200 |     |     |     |     |     |     |     |     |       |     |     |                | approx. 185 kg |                   |  |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|----------------|----------------|-------------------|--|
| Speed       |    |                       |     |     |     |     |     |     |     |     |       |     |     |                |                |                   |  |
| 40 37 33    |    |                       |     |     |     |     |     |     |     |     |       |     |     |                |                | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 55/60/70    | 60 | 795                   | 225 | 219 | 310 | 971 | 272 | 100 | 366 | 220 | 112,5 | 267 | 180 | 192            | 16,5           | 60                |  |
|             | 70 |                       |     |     |     |     |     |     |     |     |       | 273 |     |                |                |                   |  |

| K057 5,5 kW |    | Motor flange B14-D200 |     |     |     |      |     |     |     |     |       |     |     |                |      | approx. 197 kg    |  |
|-------------|----|-----------------------|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|------|-------------------|--|
| Speed       |    |                       |     |     |     |      |     |     |     |     |       |     |     |                |      |                   |  |
| 30 26 24    |    |                       |     |     |     |      |     |     |     |     |       |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 55/60/70    | 60 | 858                   | 225 | 219 | 310 | 1034 | 272 | 100 | 366 | 220 | 112,5 | 267 | 180 | 192            | 16,5 | 60                |  |
|             | 70 |                       |     |     |     |      |     |     |     |     |       | 273 |     |                |      |                   |  |

|             |    |                       |     |     |     |      |     |     |     |     |       |     |     |                |                   |    |
|-------------|----|-----------------------|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|-------------------|----|
| K057 5,5 kW |    | Motor flange B14-D200 |     |     |     |      |     |     |     |     |       |     |     |                | approx. 197 kg    |    |
| Speed       |    |                       |     |     |     |      |     |     |     |     |       |     |     |                |                   |    |
| 22          |    |                       |     |     |     |      |     |     |     |     |       |     |     |                | min <sup>-1</sup> |    |
| D1          | D2 | A                     | B   | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O                 | P  |
| 55/60/70    | 70 | 858                   | 225 | 219 | 310 | 1034 | 272 | 100 | 366 | 220 | 112,5 | 273 | 180 | 192            | 16,5              | 60 |

| K075 7,5 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 136 kg    |  |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 175 158 144 |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 35/40/45/50 | 40 | 762                   | 180 | 172 | 240 | 900 | 272 | 90 | 302 | 220 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|             | 50 |                       |     |     |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

| K075 7,5 kW    |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 136 kg    |  |
|----------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed          |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 128 115 102 88 |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1             | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 40/45/50       | 40 | 762                   | 180 | 172 | 240 | 900 | 272 | 90 | 302 | 220 | 90 | 215 | 145 | 154            | 16,5 | 60                |  |
|                | 50 |                       |     |     |     |     |     |    |     |     |    | 218 |     |                |      |                   |  |

## QuarryMaster® geared motors 7,5 – 9,2 kW

Conveyor drives

| K075 7,5 kW |    | Motor flange B14-D200 |     |     |     |     |     |    |     |     |    |     |     |                |      | approx. 136 kg    |  |
|-------------|----|-----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|-------------------|--|
| Speed       |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      |                   |  |
| 80 73 64    |    |                       |     |     |     |     |     |    |     |     |    |     |     |                |      | min <sup>-1</sup> |  |
| D1          | D2 | A                     | B   | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P                 |  |
| 40/45/50    | 50 | 762                   | 180 | 172 | 240 | 900 | 272 | 90 | 302 | 220 | 90 | 218 | 145 | 154            | 16,5 | 60                |  |

|                   |    |     |                       |     |     |      |     |     |     |     |       |     |     |                |                |                   |  |
|-------------------|----|-----|-----------------------|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|----------------|-------------------|--|
| K076 7,5 kW       |    |     | Motor flange B14-D200 |     |     |      |     |     |     |     |       |     |     |                | approx. 193 kg |                   |  |
| Speed             |    |     |                       |     |     |      |     |     |     |     |       |     |     |                |                |                   |  |
| 57 51 46 40 37 33 |    |     |                       |     |     |      |     |     |     |     |       |     |     |                |                | min <sup>-1</sup> |  |
| D1                | D2 | A   | B                     | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 55/60/70          | 60 | 833 | 225                   | 219 | 310 | 1009 | 272 | 100 | 366 | 220 | 112,5 | 267 | 180 | 192            | 16,5           | 60                |  |
|                   | 70 |     |                       |     |     |      |     |     |     |     |       | 273 |     |                |                |                   |  |

| K077 7,5 kW |    |     | Motor flange B5-D350 |     |     |      |     |     |     |     |       |     |     |                | approx. 248 kg |                   |  |
|-------------|----|-----|----------------------|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|----------------|-------------------|--|
| Speed       |    |     |                      |     |     |      |     |     |     |     |       |     |     |                |                |                   |  |
| 30          |    |     |                      |     |     |      |     |     |     |     |       |     |     |                |                | min <sup>-1</sup> |  |
| D1          | D2 | A   | B                    | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 55/60/70    | 60 | 942 | 225                  | 219 | 310 | 1118 | 329 | 100 | 366 | 266 | 112,5 | 267 | 180 | 192            | 16,5           | 60                |  |
|             | 70 |     |                      |     |     |      |     |     |     |     |       | 273 |     |                |                |                   |  |

| K078 7,5 kW |       |      |     | Motor flange B5-D350 |     |      |     |     |     |     |     |     |     |                |    | approx. 312 kg    |  |
|-------------|-------|------|-----|----------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----|-------------------|--|
| Speed       |       |      |     |                      |     |      |     |     |     |     |     |     |     |                |    |                   |  |
| 26 24 22    |       |      |     |                      |     |      |     |     |     |     |     |     |     |                |    | min <sup>-1</sup> |  |
| D1          | D2    | A    | B   | C                    | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O  | P                 |  |
| 60/70/75/80 | 70/75 | 1012 | 250 | 244                  | 360 | 1212 | 329 | 132 | 450 | 266 | 125 | 298 | 200 | 217            | 25 | 100               |  |
|             | 80    |      |     |                      |     |      |     |     |     |     |     | 304 |     |                |    |                   |  |

| K092 9,2 kW             |    |     |     | Motor flange B14-D200 |     |     |     |    |     |     |    |     |     |                |      | approx. 145 kg |  |                   |
|-------------------------|----|-----|-----|-----------------------|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|------|----------------|--|-------------------|
| Speed                   |    |     |     |                       |     |     |     |    |     |     |    |     |     |                |      |                |  |                   |
| 175 158 144 128 115 102 |    |     |     |                       |     |     |     |    |     |     |    |     |     |                |      |                |  | min <sup>-1</sup> |
| D1                      | D2 | A   | B   | C                     | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O    | P              |  |                   |
| 40/45/50                | 40 | 787 | 180 | 172                   | 240 | 925 | 272 | 90 | 302 | 220 | 90 | 215 | 145 | 154            | 16,5 | 60             |  |                   |
|                         | 50 |     |     |                       |     |     |     |    |     |     |    | 218 |     |                |      |                |  |                   |



## QuarryMaster® geared motors 9,2 – 11,0 kW

Conveyor drives

| K092 9,2 kW |    |     | Motor flange B14-D200 |     |     |     |     |    |     |     |    |     |     |                | approx. 145 kg |    |                   |
|-------------|----|-----|-----------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----------------|----------------|----|-------------------|
| Speed       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |                |    |                   |
| 88 80       |    |     |                       |     |     |     |     |    |     |     |    |     |     |                |                |    | min <sup>-1</sup> |
| D1          | D2 | A   | B                     | C   | E   | F   | G   | H  | J   | K   | L  | M   | N   | N <sub>1</sub> | O              | P  |                   |
| 40/45/50    | 50 | 787 | 180                   | 172 | 240 | 925 | 272 | 90 | 302 | 220 | 90 | 218 | 145 | 154            | 16,5           | 60 |                   |

| K093 9,2 kW |    | Motor flange B14-D200 |     |     |     |      |     |     |     |     |       |     |     |                | approx. 201 kg |    |                   |
|-------------|----|-----------------------|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|----------------|----|-------------------|
| Speed       |    |                       |     |     |     |      |     |     |     |     |       |     |     |                |                |    |                   |
| 73          | 64 | 57                    | 51  | 46  | 40  |      |     |     |     |     |       |     |     |                |                |    | min <sup>-1</sup> |
| D1          | D2 | A                     | B   | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O              | P  |                   |
| 55/60/70    | 60 | 858                   | 225 | 219 | 310 | 1034 | 272 | 100 | 366 | 220 | 112,5 | 267 | 180 | 192            | 16,5           | 60 |                   |
|             | 70 |                       |     |     |     |      |     |     |     |     |       | 273 |     |                |                |    |                   |

| K093 9,2 kW |    | Motor flange B14-D200 |     |     |     |      |     |     |     |     |       |     |     |                | approx. 201 kg |                   |
|-------------|----|-----------------------|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|----------------|-------------------|
| Speed       |    |                       |     |     |     |      |     |     |     |     |       |     |     |                |                |                   |
| 37 33       |    |                       |     |     |     |      |     |     |     |     |       |     |     |                |                | min <sup>-1</sup> |
| D1          | D2 | A                     | B   | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O              | P                 |
| 55/60/70    |    | 858                   | 225 | 219 | 310 | 1034 | 272 | 100 | 366 | 220 | 112,5 | 267 | 180 | 192            | 16,5           | 60                |
|             | 70 |                       |     |     |     |      |     |     |     |     |       | 273 |     |                |                |                   |

| K111 11,0 kW                                 |    | Motor flange B5-D350 |     |     |     |      |     |     |     |     |       |     |     |                   |      | approx. 243 kg |  |  |
|----------------------------------------------|----|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|-------------------|------|----------------|--|--|
| Speed                                        |    |                      |     |     |     |      |     |     |     |     |       |     |     |                   |      |                |  |  |
| 175 158 144 128 115 102 88 80 73 64 57 51 46 |    |                      |     |     |     |      |     |     |     |     |       |     |     | min <sup>-1</sup> |      |                |  |  |
| D1                                           | D2 | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub>    | O    | P              |  |  |
| 55/60/70                                     | 60 | 942                  | 225 | 219 | 310 | 1118 | 329 | 100 | 366 | 266 | 112,5 | 267 | 180 | 192               | 16,5 | 60             |  |  |
|                                              | 70 |                      |     |     |     |      |     |     |     |     |       | 273 |     |                   |      |                |  |  |

|              |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |     |  |
|--------------|-------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|--|
| K112 11,0 kW |       |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 307 kg    |     |  |
| Speed        |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |     |  |
| 40 37 33     |       |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |  |
| D1           | D2    | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |  |
| 60/70/75/80  | 70/75 | 1012 | 250                  | 244 | 360 | 1212 | 329 | 132 | 450 | 266 | 125 | 298 | 200 | 217            | 25                | 100 |  |
|              | 80    |      |                      |     |     |      |     |     |     |     |     | 304 |     |                |                   |     |  |



## QuarryMaster® geared motors 11,0 – 15,0 kW

Conveyor drives

| K113 11,0 kW |       |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 331 kg    |     |  |
|--------------|-------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|--|
| Speed        |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |     |  |
| 30           |       |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |  |
| D1           | D2    | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |  |
| 60/70/75/80  | 70/75 | 1056 | 250                  | 244 | 360 | 1256 | 329 | 132 | 450 | 266 | 125 | 298 | 200 | 217            | 25                | 100 |  |
|              | 80    |      |                      |     |     |      |     |     |     |     |     | 304 |     |                |                   |     |  |

| K113 11,0 kW |    |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 331 kg    |     |  |
|--------------|----|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|--|
| Speed        |    |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |     |  |
| 26           |    |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |  |
| D1           | D2 | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |  |
| 60/70/75/80  | 75 | 1056 | 250                  | 244 | 360 | 1256 | 329 | 132 | 450 | 266 | 125 | 298 | 200 | 217            | 25                | 100 |  |
|              | 80 |      |                      |     |     |      |     |     |     |     |     | 304 |     |                |                   |     |  |

| K114 11,0 kW        |               |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 451 kg    |     |  |
|---------------------|---------------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|--|
| Speed               |               |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |     |  |
| 24 22               |               |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |  |
| D1                  | D2            | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |  |
| 75/80/85/<br>90/100 | 80            | 1151 | 280                  | 272 | 450 | 1405 | 329 | 142 | 540 | 266 | 140 | 334 | 225 | 242            | 25                | 100 |  |
|                     | 85            |      |                      |     |     |      |     |     |     |     |     | 341 |     |                |                   |     |  |
|                     | 90/95/<br>100 |      |                      |     |     |      |     |     |     |     |     | 345 |     |                |                   |     |  |

| K150 15,0 kW |     |     | Motor flange B5-D350 |     |     |      |     |     |     |     |       |     |     |                | approx. 265 kg |    |  |                   |  |  |
|--------------|-----|-----|----------------------|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|----------------|----|--|-------------------|--|--|
| Speed        |     |     |                      |     |     |      |     |     |     |     |       |     |     |                |                |    |  |                   |  |  |
| 175          | 158 | 144 | 128                  | 115 | 102 | 88   | 80  | 73  | 64  |     |       |     |     |                |                |    |  | min <sup>-1</sup> |  |  |
| D1           | D2  | A   | B                    | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O              | P  |  |                   |  |  |
| 55/60/70     | 60  | 986 | 225                  | 219 | 310 | 1162 | 329 | 100 | 366 | 266 | 112,5 | 267 | 180 | 192            | 16,5           | 60 |  |                   |  |  |
|              | 70  |     |                      |     |     |      |     |     |     |     |       | 273 |     |                |                |    |  |                   |  |  |

| K151 15,0 kW   |       | Motor flange B5-D350 |     |     |     |      |     |     |     |     |     |     | approx. 328 kg |                |                   |     |  |
|----------------|-------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------|----------------|-------------------|-----|--|
| Speed          |       |                      |     |     |     |      |     |     |     |     |     |     |                |                |                   |     |  |
| 57 51 46 40 37 |       |                      |     |     |     |      |     |     |     |     |     |     |                |                | min <sup>-1</sup> |     |  |
| D1             | D2    | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N              | N <sub>1</sub> | O                 | P   |  |
| 60/70/75/80    | 70/75 | 1056                 | 250 | 244 | 360 | 1256 | 329 | 132 | 450 | 266 | 125 | 298 | 200            | 217            | 25                | 100 |  |
|                | 80    |                      |     |     |     |      |     |     |     |     |     | 304 |                |                |                   |     |  |



## QuarryMaster® geared motors 15,0 kW

Conveyor drives

| K152 15,0 kW      |           |      |     | Motor flange B5-D350 |     |      |     |     |     |     |     |     |     |                |    | approx. 446 kg |  |
|-------------------|-----------|------|-----|----------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----|----------------|--|
| Speed             |           |      |     |                      |     |      |     |     |     |     |     |     |     |                |    |                |  |
| 33                |           |      |     |                      |     |      |     |     |     |     |     |     |     |                |    |                |  |
| min <sup>-1</sup> |           |      |     |                      |     |      |     |     |     |     |     |     |     |                |    |                |  |
| D1                | D2        | A    | B   | C                    | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O  | P              |  |
| 75/80/85/90       | 80        | 1151 | 280 | 272                  | 450 | 1405 | 329 | 142 | 540 | 266 | 140 | 334 | 225 | 242            | 25 | 100            |  |
|                   | 85        |      |     |                      |     |      |     |     |     |     |     | 341 |     |                |    |                |  |
|                   | 90/95/100 |      |     |                      |     |      |     |     |     |     |     | 345 |     |                |    |                |  |

| K153 15,0 kW        |               |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 496 kg |     |  |
|---------------------|---------------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|-----|--|
| Speed               |               |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     |  |
| 30                  |               |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     |  |
| min <sup>-1</sup>   |               |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     |  |
| D1                  | D2            | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O              | P   |  |
| 75/80/85/<br>90/100 | 80            | 1210 | 280                  | 272 | 450 | 1464 | 360 | 142 | 540 | 281 | 140 | 334 | 225 | 242            | 25             | 100 |  |
|                     | 85            |      |                      |     |     |      |     |     |     |     |     | 341 |     |                |                |     |  |
|                     | 90/95/<br>100 |      |                      |     |     |      |     |     |     |     |     | 345 |     |                |                |     |  |

| K153 15,0 kW      |           |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 496 kg |     |  |
|-------------------|-----------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|-----|--|
| Speed             |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     |  |
| 26                |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     |  |
| min <sup>-1</sup> |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     |  |
| D1                | D2        | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O              | P   |  |
| 75/80/85/90/100   | 85        | 1210 | 280                  | 272 | 450 | 1464 | 360 | 142 | 540 | 281 | 140 | 341 | 225 | 242            | 25             | 100 |  |
|                   | 90/95/100 |      |                      |     |     |      |     |     |     |     |     | 341 |     |                |                |     |  |

| K153 15,0 kW |           |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 496 kg |     |                   |
|--------------|-----------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|-----|-------------------|
| Speed        |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     |                   |
| 24           |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |     | min <sup>-1</sup> |
| D1           | D2        | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O              | P   |                   |
| 80/85/90/100 | 85        | 1210 | 280                  | 272 | 450 | 1464 | 360 | 142 | 540 | 281 | 140 | 341 | 225 | 242            | 25             | 100 |                   |
|              | 90/95/100 |      |                      |     |     |      |     |     |     |     |     | 345 |     |                |                |     |                   |

| K153 15,0 kW      |               | Motor flange B5-D350 |     |     |     |      |     |     |     |     |     |     |     |                |    | approx. 496 kg |  |
|-------------------|---------------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----|----------------|--|
| Speed             |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |    |                |  |
| 22                |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |    |                |  |
| min <sup>-1</sup> |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |    |                |  |
| D1                | D2            | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O  | P              |  |
| 80/85/90/<br>100  | 90/95/<br>100 | 1210                 | 280 | 272 | 450 | 1464 | 360 | 142 | 540 | 281 | 140 | 345 | 225 | 242            | 25 | 100            |  |

## QuarryMaster® geared motors 18,5 kW

Conveyor drives

| K185 18,5 kW               |    |      |     | Motor flange B5-D350 |     |      |     |     |     |     |       |     |     |                |      | approx. 298 kg    |  |  |
|----------------------------|----|------|-----|----------------------|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|------|-------------------|--|--|
| Speed                      |    |      |     |                      |     |      |     |     |     |     |       |     |     |                |      |                   |  |  |
| 175 158 144 128 115 102 88 |    |      |     |                      |     |      |     |     |     |     |       |     |     |                |      | min <sup>-1</sup> |  |  |
| D1                         | D2 | A    | B   | C                    | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O    | P                 |  |  |
| 55/60/70                   | 60 | 1007 | 225 | 219                  | 310 | 1183 | 360 | 100 | 366 | 281 | 112,5 | 267 | 180 | 192            | 16,5 | 60                |  |  |
|                            | 70 |      |     |                      |     |      |     |     |     |     |       | 273 |     |                |      |                   |  |  |

|                   |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |                   |  |
|-------------------|-------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|-------------------|--|
| K186 18,5 kW      |       |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 359 kg |                   |  |
| Speed             |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |                   |  |
| 80 73 64 57 51 46 |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                | min <sup>-1</sup> |  |
| D1                | D2    | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 60/70/75/80       | 70/75 | 1077 | 250                  | 244 | 360 | 1277 | 360 | 132 | 450 | 281 | 125 | 298 | 200 | 217            | 25             | 100               |  |
|                   | 80    |      |                      |     |     |      |     |     |     |     |     | 304 |     |                |                |                   |  |

| K187 18,5 kW |               | Motor flange B5-D350 |     |     |     |      |     |     |     |     |     |     |     | approx. 479 kg |                   |     |
|--------------|---------------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|
| Speed        |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |                   |     |
| 40 37 33     |               |                      |     |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |
| D1           | D2            | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |
| 80/85/90/100 | 80            | 1172                 | 280 | 272 | 450 | 1426 | 360 | 142 | 540 | 281 | 140 | 334 | 225 | 242            | 25                | 100 |
|              | 85            |                      |     |     |     |      |     |     |     |     |     | 341 |     |                |                   |     |
|              | 90/95/<br>100 |                      |     |     |     |      |     |     |     |     |     | 345 |     |                |                   |     |

| K188 18,5 kW    |           |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 526 kg |                   |  |
|-----------------|-----------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|-------------------|--|
| Speed           |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |                   |  |
| 30 26           |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                | min <sup>-1</sup> |  |
| D1              | D2        | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 80/85/90/95/100 | 85        | 1305 | 280                  | 272 | 450 | 1559 | 402 | 142 | 540 | 319 | 140 | 341 | 225 | 242            | 25             | 100               |  |
|                 | 90/95/100 |      |                      |     |     |      |     |     |     |     |     | 345 |     |                |                |                   |  |

| K188 18,5 kW    |           |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 526 kg |                   |  |
|-----------------|-----------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|-------------------|--|
| Speed           |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                |                   |  |
| 24 22           |           |      |                      |     |     |      |     |     |     |     |     |     |     |                |                | min <sup>-1</sup> |  |
| D1              | D2        | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O              | P                 |  |
| 80/85/90/95/100 | 90/95/100 | 1305 | 280                  | 272 | 450 | 1559 | 402 | 142 | 540 | 319 | 140 | 345 | 225 | 242            | 25             | 100               |  |



## QuarryMaster® geared motors 22,0 kW

Conveyor drives

| K220 22,0 kW        |    |      | Motor flange B5-D350 |     |     |      |     |     |     |     |       |     |     |                |                   | approx. 314 kg |  |
|---------------------|----|------|----------------------|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|----------------|-------------------|----------------|--|
| Speed               |    |      |                      |     |     |      |     |     |     |     |       |     |     |                |                   |                |  |
| 175 158 144 128 115 |    |      |                      |     |     |      |     |     |     |     |       |     |     |                | min <sup>-1</sup> |                |  |
| D1                  | D2 | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L     | M   | N   | N <sub>1</sub> | O                 | P              |  |
| 55/60/70            | 60 | 1045 | 225                  | 219 | 310 | 1221 | 360 | 100 | 366 | 281 | 112,5 | 267 | 180 | 192            | 16,5              | 60             |  |
|                     | 70 |      |                      |     |     |      |     |     |     |     |       | 273 |     |                |                   |                |  |

|                    |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |                |  |
|--------------------|-------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|----------------|--|
| K221 22,0 kW       |       |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                |                   | approx. 375 kg |  |
| Speed              |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |                |  |
| 102 88 80 73 64 57 |       |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |                |  |
| D1                 | D2    | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P              |  |
| 60/70/75/80        | 70/75 | 1115 | 250                  | 244 | 360 | 1315 | 360 | 132 | 450 | 281 | 125 | 298 | 200 | 217            | 25                | 100            |  |
|                    | 80    |      |                      |     |     |      |     |     |     |     |     | 304 |     |                |                   |                |  |

| K222 22,0 kW   |               |      |     | Motor flange B5-D350 |     |      |     |     |     |     |     |     |     | approx. 496 kg    |    |     |  |
|----------------|---------------|------|-----|----------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-------------------|----|-----|--|
| Speed          |               |      |     |                      |     |      |     |     |     |     |     |     |     |                   |    |     |  |
| 51 46 40 37 33 |               |      |     |                      |     |      |     |     |     |     |     |     |     | min <sup>-1</sup> |    |     |  |
| D1             | D2            | A    | B   | C                    | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub>    | O  | P   |  |
| 75/80/85/90    | 80            | 1210 | 280 | 272                  | 450 | 1464 | 360 | 142 | 540 | 281 | 140 | 334 | 225 | 242               | 25 | 100 |  |
|                | 85            |      |     |                      |     |      |     |     |     |     |     | 341 |     |                   |    |     |  |
|                | 90/95/<br>100 |      |     |                      |     |      |     |     |     |     |     | 345 |     |                   |    |     |  |

| K223 22,0 kW |           | Motor flange B5-D450 |     |     |     |      |     |     |     |     |     |     |     |                | approx. 545 kg    |     |
|--------------|-----------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|
| Speed        |           |                      |     |     |     |      |     |     |     |     |     |     |     |                |                   |     |
| 30           |           |                      |     |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |
| D1           | D2        | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |
| 80/85/90/100 | 90/95/100 | 1305                 | 280 | 272 | 450 | 1559 | 402 | 142 | 540 | 319 | 140 | 345 | 225 | 242            | 25                | 100 |

| K224 22,0 kW |         |      | Motor flange B5-D450 |     |     |      |     |     |     |     |     |     |                      | approx. 836 kg |                   |     |
|--------------|---------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|----------------|-------------------|-----|
| Speed        |         |      |                      |     |     |      |     |     |     |     |     |     |                      |                |                   |     |
| 26 24 22     |         |      |                      |     |     |      |     |     |     |     |     |     |                      |                | min <sup>-1</sup> |     |
| D1           | D2      | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub> | O                 | P   |
| 100/110/120  | 100     | 1447 | 360                  | 350 | 544 | 1757 | 402 | 200 | 700 | 319 | 180 | 433 | max. 300<br>min. 250 | 321            | 38                | 120 |
|              | 110/120 |      |                      |     |     |      |     |     |     |     |     | 437 |                      |                |                   |     |

## QuarryMaster® geared motors 30,0 kW

Conveyor drives

| K300 30,0 kW  |       |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     | approx. 417 kg |                   |     |
|---------------|-------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|
| Speed         |       |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |     |
| 115 102 88 80 |       |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |
| D1            | D2    | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |
| 60/70/75/80   | 70/75 | 1210 | 250                  | 244 | 360 | 1410 | 402 | 132 | 450 | 319 | 125 | 298 | 200 | 217            | 25                | 100 |
|               | 80    |      |                      |     |     |      |     |     |     |     |     | 304 |     |                |                   |     |

| K301 30,0 kW        |               |      | Motor flange B5-D350 |     |     |      |     |     |     |     |     |     |     |                | approx. 539 kg    |     |  |
|---------------------|---------------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|--|
| Speed               |               |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |     |  |
| 73 64 57            |               |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |  |
| D1                  | D2            | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |  |
| 75/80/85/<br>90/100 | 90/95/<br>100 | 1305 | 280                  | 272 | 450 | 1559 | 402 | 142 | 540 | 319 | 140 | 345 | 225 | 242            | 25                | 100 |  |

| K301 30,0 kW   |           | Motor flange B5-D350 |     |     |     |      |     |     |     |     |     |     |     |                | approx. 539 kg    |     |
|----------------|-----------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|
| Speed          |           |                      |     |     |     |      |     |     |     |     |     |     |     |                |                   |     |
| 51 46 40 37 33 |           |                      |     |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |
| D1             | D2        | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |
| 80/85/90/100   | 90/95/100 | 1305                 | 280 | 272 | 450 | 1559 | 402 | 142 | 540 | 319 | 140 | 345 | 225 | 242            | 25                | 100 |

| K302 30,0 kW    |         |      | Motor flange B5-D450 |     |     |      |     |     |     |     |     |     |                      | approx. 991 kg |    |     |
|-----------------|---------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|----------------|----|-----|
| Speed           |         |      |                      |     |     |      |     |     |     |     |     |     |                      |                |    |     |
| 30              |         |      |                      |     |     |      |     |     |     |     |     |     | min <sup>-1</sup>    |                |    |     |
| D1              | D2      | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub> | O  | P   |
| 100/110/<br>120 | 100     | 1536 | 360                  | 350 | 544 | 1846 | 455 | 200 | 700 | 384 | 180 | 433 | max. 300<br>min. 250 | 321            | 38 | 120 |
|                 | 110/120 |      |                      |     |     |      |     |     |     |     |     | 437 |                      |                |    |     |

| K302 30,0 kW |     |      | Motor flange B5-D450 |     |     |      |     |     |     |     |     |     | approx. 991 kg       |                |    |     |
|--------------|-----|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|----------------|----|-----|
| Speed        |     |      |                      |     |     |      |     |     |     |     |     |     |                      |                |    |     |
| 26 24 22     |     |      |                      |     |     |      |     |     |     |     |     |     | min <sup>-1</sup>    |                |    |     |
| D1           | D2  | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub> | O  | P   |
| 100/110/120  | 120 | 1536 | 360                  | 350 | 544 | 1846 | 455 | 200 | 700 | 384 | 180 | 437 | max. 300<br>min. 250 | 321            | 38 | 120 |





## QuarryMaster® geared motors 37,0 – 45,0 kW

Conveyor drives

| K370 37,0 kW        |               | Motor flange B5-D450 |     |     |     |      |     |     |     |     |     |     |     |                | approx. 692 kg    |     |
|---------------------|---------------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|
| Speed               |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |                   |     |
| 115 102 88 80 73    |               |                      |     |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |
| D1                  | D2            | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |
| 75/80/85/<br>90/100 | 90/95/<br>100 | 1394                 | 280 | 272 | 450 | 1648 | 455 | 142 | 540 | 384 | 140 | 345 | 225 | 242            | 25                | 100 |

|                  |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |                   |     |
|------------------|---------------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|
| K370 37,0 kW     |               | Motor flange B5-D450 |     |     |     |      |     |     |     |     |     |     |     |                | approx. 692 kg    |     |
| Speed            |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |                   |     |
| 64 57 51         |               |                      |     |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |
| D1               | D2            | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |
| 80/85/90/<br>100 | 90/95/<br>100 | 1394                 | 280 | 272 | 450 | 1648 | 455 | 142 | 540 | 384 | 140 | 345 | 225 | 242            | 25                | 100 |

|              |         |                      |     |     |     |      |     |     |     |     |     |     |                      |                |                   |     |
|--------------|---------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|----------------|-------------------|-----|
| K371 37,0 kW |         | Motor flange B5-D450 |     |     |     |      |     |     |     |     |     |     | approx. 976 kg       |                |                   |     |
| Speed        |         |                      |     |     |     |      |     |     |     |     |     |     |                      |                |                   |     |
| 46 40 37 33  |         |                      |     |     |     |      |     |     |     |     |     |     |                      |                | min <sup>-1</sup> |     |
| D1           | D2      | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub> | O                 | P   |
| 100/110/120  | 100     | 1536                 | 360 | 350 | 544 | 1846 | 455 | 200 | 700 | 384 | 180 | 433 | max. 300<br>min. 250 | 321            | 38                | 120 |
|              | 110/120 |                      |     |     |     |      |     |     |     |     |     | 437 |                      |                |                   |     |

| K372 37,0 kW |     | Motor flange B5-D550 |     |     |     |      |     |     |     |     |     |     |                      | approx. 1066 kg |                   |     |
|--------------|-----|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|-----------------|-------------------|-----|
| Speed        |     |                      |     |     |     |      |     |     |     |     |     |     |                      |                 |                   |     |
| 30 26        |     |                      |     |     |     |      |     |     |     |     |     |     |                      |                 | min <sup>-1</sup> |     |
| D1           | D2  | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub>  | O                 | P   |
| 100/110/120  | 120 | 1645                 | 360 | 350 | 544 | 1955 | 486 | 200 | 700 | 402 | 180 | 437 | max. 300<br>min. 250 | 321             | 38                | 120 |

| K450 45,0 kW        |               |      | Motor flange B5-D450 |     |     |      |     |     |     |     |     |     |     |                |                   | approx. 724 kg |  |
|---------------------|---------------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|----------------|--|
| Speed               |               |      |                      |     |     |      |     |     |     |     |     |     |     |                |                   |                |  |
| 115 102 88 80       |               |      |                      |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |                |  |
| D1                  | D2            | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P              |  |
| 75/80/85/<br>90/100 | 90/95/<br>100 | 1394 | 280                  | 272 | 450 | 1648 | 455 | 142 | 540 | 384 | 140 | 345 | 225 | 242            | 25                | 100            |  |

## QuarryMaster® geared motors 45,0 – 90,0 kW

Conveyor drives

| K450 45,0 kW     |               | Motor flange B5-D450 |     |     |     |      |     |     |     |     |     |     |     |                | approx. 724 kg    |     |
|------------------|---------------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----------------|-------------------|-----|
| Speed            |               |                      |     |     |     |      |     |     |     |     |     |     |     |                |                   |     |
| 73 64            |               |                      |     |     |     |      |     |     |     |     |     |     |     |                | min <sup>-1</sup> |     |
| D1               | D2            | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N   | N <sub>1</sub> | O                 | P   |
| 80/85/<br>90/100 | 90/95/<br>100 | 1394                 | 280 | 272 | 450 | 1648 | 455 | 142 | 540 | 384 | 140 | 345 | 225 | 242            | 25                | 100 |

| K451 45,0 kW      |         |      | Motor flange B5-D450 |     |     |      |     |     |     |     |     |     |                      | approx. 1011 kg |    |     |
|-------------------|---------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|-----------------|----|-----|
| Speed             |         |      |                      |     |     |      |     |     |     |     |     |     |                      |                 |    |     |
| 57 51 46 40 37 33 |         |      |                      |     |     |      |     |     |     |     |     |     | min <sup>-1</sup>    |                 |    |     |
| D1                | D2      | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub>  | O  | P   |
| 100/110/120       | 100     | 1536 | 360                  | 350 | 544 | 1846 | 455 | 200 | 700 | 384 | 180 | 433 | max. 300<br>min. 250 | 321             | 38 | 120 |
|                   | 110/120 |      |                      |     |     |      |     |     |     |     |     | 437 |                      |                 |    |     |

| K550 55,0 kW                       |         |      | Motor flange B5-D550 |     |     |      |     |     |     |     |     |     |                            | approx. 1077 kg |    |     |  |                   |  |
|------------------------------------|---------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------------|-----------------|----|-----|--|-------------------|--|
| Speed                              |         |      |                      |     |     |      |     |     |     |     |     |     |                            |                 |    |     |  |                   |  |
| 115 102 88 80 73 64 57 51 46 40 37 |         |      |                      |     |     |      |     |     |     |     |     |     |                            |                 |    |     |  | min <sup>-1</sup> |  |
| D1                                 | D2      | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                          | N <sub>1</sub>  | O  | P   |  |                   |  |
| 100/110/120                        | 100     | 1645 | 360                  | 350 | 544 | 1955 | 486 | 200 | 700 | 402 | 180 | 433 | 300<br>max.<br>250<br>min. | 321             | 38 | 120 |  |                   |  |
|                                    | 110/120 |      |                      |     |     |      |     |     |     |     |     | 437 |                            |                 |    |     |  |                   |  |

| K750 75,0 kW           |         |      | Motor flange B5-D550 |     |     |      |     |     |     |     |     |     |                      | approx. 1255 kg |                   |     |
|------------------------|---------|------|----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|-----------------|-------------------|-----|
| Speed                  |         |      |                      |     |     |      |     |     |     |     |     |     |                      |                 |                   |     |
| 115 102 88 80 73 64 57 |         |      |                      |     |     |      |     |     |     |     |     |     |                      |                 | min <sup>-1</sup> |     |
| D1                     | D2      | A    | B                    | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub>  | O                 | P   |
| 100/110/120            | 100     | 1751 | 360                  | 350 | 544 | 2061 | 599 | 200 | 700 | 472 | 180 | 433 | max. 300<br>min. 250 | 321             | 38                | 120 |
|                        | 110/120 |      |                      |     |     |      |     |     |     |     |     | 437 |                      |                 |                   |     |

| K900 90,0 kW     |         | Motor flange B5-D550 |     |     |     |      |     |     |     |     |     |     | approx. 1325 kg      |                |    |     |                   |  |
|------------------|---------|----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----------------------|----------------|----|-----|-------------------|--|
| Speed            |         |                      |     |     |     |      |     |     |     |     |     |     |                      |                |    |     |                   |  |
| 115 102 88 80 73 |         |                      |     |     |     |      |     |     |     |     |     |     |                      |                |    |     | min <sup>-1</sup> |  |
| D1               | D2      | A                    | B   | C   | E   | F    | G   | H   | J   | K   | L   | M   | N                    | N <sub>1</sub> | O  | P   |                   |  |
| 100/110/120      | 100     | 1751                 | 360 | 350 | 544 | 2061 | 599 | 200 | 700 | 472 | 180 | 433 | max. 300<br>min. 250 | 321            | 38 | 120 |                   |  |
|                  | 110/120 |                      |     |     |     |      |     |     |     |     |     | 437 |                      |                |    |     |                   |  |



# Technical Explanatory Notes

## Electric Motors

### Motors

All motors comply with existing standards and regulations stipulated by IEC. All motor ratings stated are indicated for the operation mode S1. All motors can also be designed for intermittent operation 60 %, 40 % and 25 % ED.

### Stator winding

Standard class is „F“ insulation to VDE 0530. The insulation class is indicated on the name plate. Ambient temperature can be increased from 40 °C to 60 °C using standard motors with class „F“ insulation (use according to ISO „B“) running at not more than nominal capacity. Provided that the ambient temperature does not exceed 40 °C, the nominal capacity in continuous operation can be increased by approximately 10-15 %. This does not apply to standard motors class „F“ insulation (increased power).

### Voltage and frequency

< 4 kW (50/ 60 Hz) 230 V Δ / 400 V Y  
≥ 4 kW (50/ 60 Hz) 400 V Δ / 690 V Y

Star-delta starting is possible only if the mains voltage corresponds to the delta voltage. Motors wound for 50 Hz can also be operated at 60 Hz.

Changes in the numbers of revolutions, rating and torque resulting from this fact can be taken from the table.

### Conversion factors for the rated data listed

| Motor winding 50 Hz | Connection to 60 Hz | Rated speed | Rated power | Rated torque | Rated current | Starting torque |
|---------------------|---------------------|-------------|-------------|--------------|---------------|-----------------|
| 230 V               | 230 V               | 1,2         | 1,00        | 0,83         | 1,00          | 0,83            |
| 400 V               | 400 V               | 1,2         | 1,00        | 0,83         | 1,00          | 0,83            |
| 500 V               | 500 V               | 1,2         | 1,00        | 0,83         | 1,00          | 0,83            |
| 400 V               | 440 V               | 1,2         | 1,15        | 0,96         | 1,00          | 0,96            |
| 500 V               | 550 V               | 1,2         | 1,10        | 0,91         | 1,00          | 0,91            |

Permissible supply-voltage variation ± 5% at rated power and frequency (VDE 0530)

### Temperature rise

The motor ratings as specified in VDE 0530 are based upon continuous operation, a maximum ambient temperature of 40 °C and site altitudes of up to 1000 metres above sea level. The power obtainable in the case of other conditions is tabulated below.

| Ambient temperature in °C | Power obtainable in % of rated value |
|---------------------------|--------------------------------------|
| 40                        | 100                                  |
| 45                        | 96                                   |
| 50                        | 92                                   |
| 55                        | 87                                   |
| 60                        | 82                                   |

| Site altitude above sea level in metres | Power obtainable in % of rated value |
|-----------------------------------------|--------------------------------------|
| 1000                                    | 100                                  |
| 1500                                    | 97                                   |
| 2000                                    | 94                                   |
| 2500                                    | 90                                   |
| 3000                                    | 86                                   |
| 3500                                    | 83                                   |
| 4000                                    | 80                                   |

## Type of enclosure according to DIN 40050

|                   | Type of enclosure<br>DIN 4050 | Protection against<br>contact      | Protection against<br>foreign matter                    | Protection against<br>water                |
|-------------------|-------------------------------|------------------------------------|---------------------------------------------------------|--------------------------------------------|
| Surface<br>cooled | IP54                          | full protection<br>against contact | against harmful dust<br>accumulation in the<br>interior | against spray water<br>from all directions |
|                   | IP55                          | full protection<br>against contact | against harmful dust<br>accumulation in the<br>interior | against water jets                         |
|                   | IP56                          | full protection<br>against contact | against harmful dust<br>accumulation in the<br>interior | against heavy seas                         |

### Type of enclosure IP55

Standard construction

Terminal box: improved type of enclosure with heat-resistant seals. Condensate drain holes sealed with screws.

### Motor protection

Thermistor protection: 3 temperature sensors are incorporated into the motor windings. The sensors are temperature sensitive resistors (thermistors) (PTC) which change value almost instantaneously at their response temperature and in conjunction with tripping devices stop the motor. The thermistors react: blocking or rotor, too high an ambient temperature (for example due to low influx of air) exceeding maximum duty cycles, overloading. The colour coding of the braided insulations is related to the rated cut-off temperatures:

|             |        |
|-------------|--------|
| blue-blue   | 130 °C |
| white-blue  | 140 °C |
| black-black | 150 °C |
| white-green | 170 °C |

### Checking of built-in thermistors – temperature sensors

Continuity checks should be carried out at room temperature with a test voltage < 1.5 V. Measuring bridges available on the market can also be used when the maximum measuring current does not exceed 50 mA.

### Separate fan

The separately driven fans used are 1-phase with 230 V at 50 Hz.

### Geared brake motors

The brake is fail-safe type, i.e. it is applied by spring action when the electrical supply circuit is interrupted. The d.c. brake coil is supplied from a rectifier. The motor and brake circuits must be energized simultaneously. As standard the brake is not connected. Please submit a detailed enquiry. Unless otherwise agreed upon, the brake motors are adjusted to, and tested for, the maximum braking torque (as listed herein) and for the minimum air gap.

### Maintenance

If the maximum air gap is exceeded, the brake must be readjusted and the cone pulley changed.



## Braking torque / engine extension

| Power [kW] | Motor-Size [acc. to IEC] | Braking torque [Nm] | Extension by attachment of the brake [mm] | Extension by attachment of the separate fan [mm] | Extension by attachment of the canopy [mm] |
|------------|--------------------------|---------------------|-------------------------------------------|--------------------------------------------------|--------------------------------------------|
| 1,1        | 90S-4                    | 20                  | 79                                        | 128                                              | 40                                         |
| 1,5        | 90L-4                    | 20                  | 79                                        | 128                                              | 40                                         |
| 2,2        | 100L-4                   | 40                  | 88                                        | 124                                              | 39                                         |
| 3,0        | 100L-4                   | 40                  | 88                                        | 124                                              | 39                                         |
| 4,0        | 112M-4                   | 60                  | 96                                        | 128                                              | 45                                         |
| 5,5        | 132S-4                   | 60                  | 116                                       | 129                                              | 50                                         |
| 7,5        | 132M-4                   | 100                 | 116                                       | 129                                              | 50                                         |
| 9,2        | 132M/L-4                 | 100                 | 116                                       | 129                                              | 50                                         |
| 11         | 160M-4                   | 150                 | 127                                       | 154                                              | 60                                         |
| 15         | 160L-4                   | 150                 | 127                                       | 154                                              | 60                                         |
| 18,5       | 180M-4                   | 250                 | 105                                       | 146                                              | 85                                         |
| 22         | 180L-4                   | 250                 | 105                                       | 146                                              | 85                                         |
| 30         | 200L-4                   | 400                 | 145                                       | 151                                              | 91                                         |
| 37         | 225S/M-4                 | 400                 | 145                                       | 149                                              | 100                                        |
| 45         | 225S/M-4                 | 400                 | 145                                       | 149                                              | 100                                        |
| 55         | 250S/M-4                 | 400                 | 145                                       | 333                                              | 100                                        |

### Mechanical manual release

Mechanical manual release is possible by pulling the hand release lever. The engaged position is secured by spring action. The lever is kept in a pre-determined position during operation by the preload spring.

### Electrical release

Each brake can be electrically released independent of the motor by feeding it the specified control voltage.

### Special protection against dust, dirt and humidity

The DC brake is in totally-enclosed and corrosion-resistant design. Protection class IP 66.

### Circuit and connection

In order to protect against the very high transient voltages which occur in many cases, all rectifiers are equipped with a varistor as standard. The braking system is connected by means of a rectifier fitted in the

terminal box according to the circuit diagram provided in each case. The connection voltage to be applied is shown in the circuit diagram. Rapid build up of the braking torque is obtained by switching-off at the d.c. side. If a gradual build-up of braking torque for gentler stopping is required, e.g. crane travelling drives, switch-off at the AC side. This applies in particular for lifting gear and similar applications, in this way, an extremely low degree of over-running is achieved (factor 5-6). The switch contact is generally connected in parallel with the control switch at the motor. Observe protection according to VDE 0580.

### Brake voltage

The brake coil voltage is generally designed so that it corresponds to the delta voltage of the motor. Please observe circuit diagram in the terminal box.



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Postcode, Town: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

## Technical questionnaire

### Conveyor drives

#### Input

Power P  kW

Speed  $n_2$   min<sup>-1</sup>

or

drum Ø  mm

Belt speed: v  m/s

#### Type of output

☐ Hollow sleeve shaft Ø  mm

☐ Hollow shaft with shrinking disc Ø  mm

☐ with cover

#### Installation situation

☐ 1



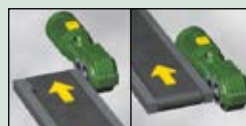
☐ 2



☐ 3



☐ 4



☐ 5



☐ 6



☐ 7



☐ 8



Permissible inclination: Motor downwards 25°, Motor upwards 12° • Installation situation 5 - 8: Motor with canopy  
Gears with brake motor inclination downwards is not permissible

#### Options

☐ Reverse lock ☐ Thermistors ☐ Separate driven fan ☐ Motor brake ☐ Motor brake with manual release

#### E-Motor

Voltage  V Frequency  Hz Type of enclosure  other

#### Operating conditions

Environment: ☐ normal ☐ dusty ☐ humid ☐ other

Ambient temperature: Minimum  °C Maximum  °C

#### Choice of colour

- ☐ ☒ 0 - primed ☐ ☒ 3 - RAL 3002 carmine red ☐ ☐ 6 - RAL 7035 light grey
- ☐ ☒ 1 - RAL 6002 leaf green (Stiebel standard) ☐ ☒ 4 - RAL 5007 brilliant blue ☐ ☒ 7 - RAL 7015 slate grey
- ☐ ☒ 2 - RAL 1021 rape yellow ☐ ☒ 5 - RAL 7001 silver grey
- ☐ F - different choice of colour  ☐ S - Special lacquer finish

## System of order numbers

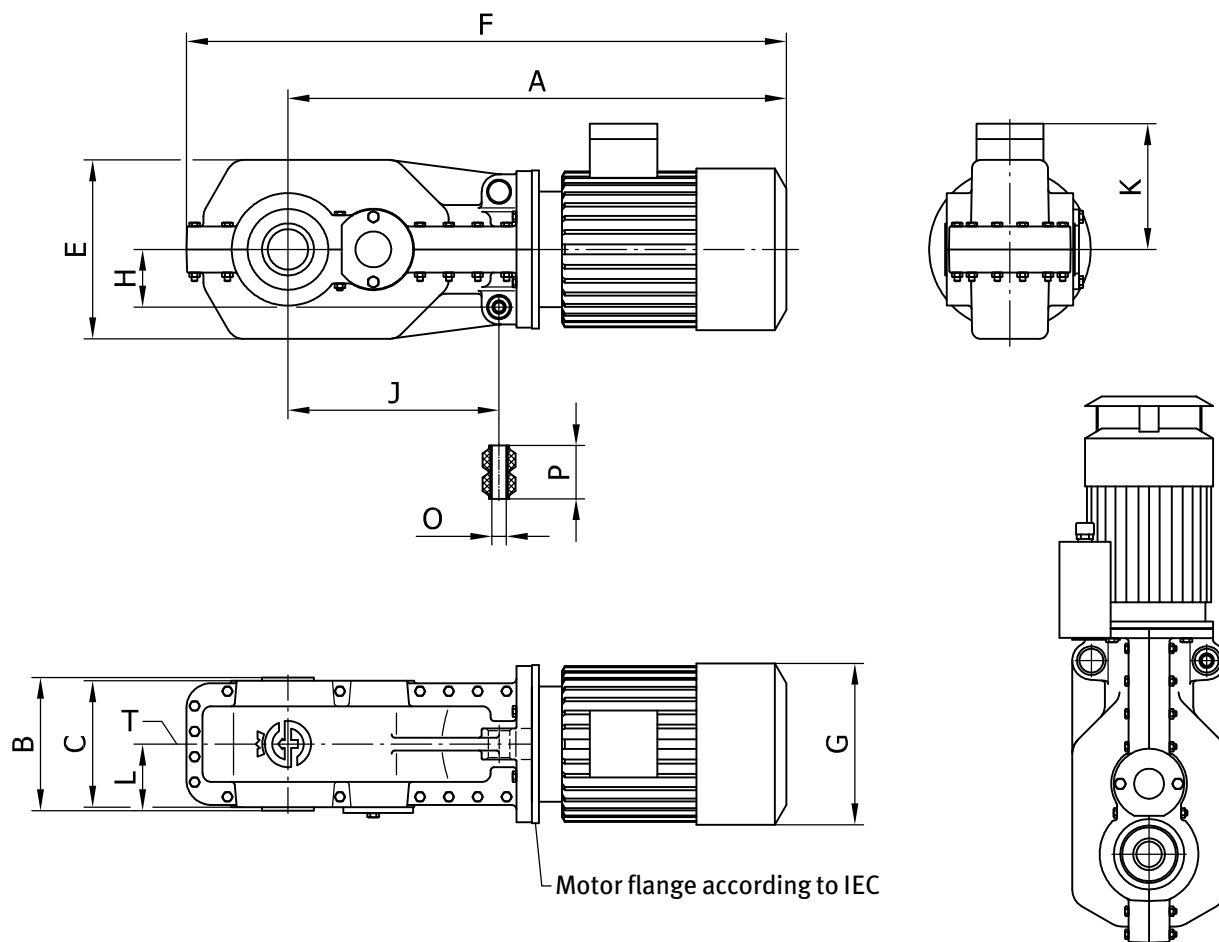
Conveyor drives

**Example: K040.072.040S1000033**

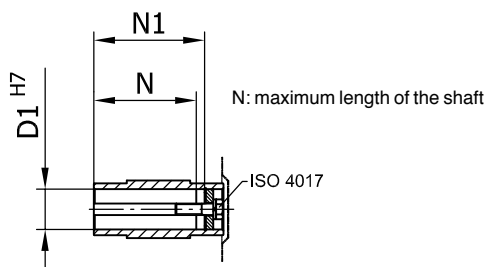
| Example     | Designation                    | Variants                         | Explanation                                                                                                      |
|-------------|--------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------|
| <i>K</i>    | Helical-bevel geared motor     |                                  |                                                                                                                  |
| <i>040.</i> | Power                          | 011 - 900                        | Variations in power (kW)<br>e.g. 040 $\triangleq$ 4kW                                                            |
| <i>072.</i> | Speed                          | 175 - 022                        | Revolutions (rpm)<br>e.g. 072 $\triangleq$ 72 min <sup>-1</sup>                                                  |
| <i>040.</i> | Output Ø                       | 030 - 120                        | Output diameter (mm)<br>e.g. 040 $\triangleq$ 40 mm                                                              |
| <i>S</i>    | Type of output<br>Hollow shaft | P / S                            | P - Keyway<br>S - Shrinking disc                                                                                 |
| <i>1</i>    | Backstop                       | 0 / 1                            | 0 - without<br>1 - with                                                                                          |
| <i>0</i>    | Cover                          | 0 / A                            | 0 - without<br>A - with, only for output Shrinking disc                                                          |
| <i>0</i>    | Separately driven fan          | 0 / F                            | 0 - without<br>F - with                                                                                          |
| <i>0</i>    | Brake                          | 0 / 1 / 2 / E                    | 0 - without<br>1 - with<br>2 - with manual release<br>E - Energy saving motor                                    |
| <i>0</i>    | Thermistors                    | 0 / K<br>1 / S                   | Installation situation 1-4:<br>0 - without<br>K - with<br>Installation situation 5-8:<br>1 - without<br>S - with |
| <i>3</i>    | Installation situation         | 1 / 2 / 3 / 4 / 5 /<br>6 / 7 / 8 | For installation situation see page 26                                                                           |
| <i>3</i>    | Colour index number            | 0 - 7 / F / S                    | For choice of colour see page 26                                                                                 |

## Mounting dimensions (in mm)

Conveyor drives



Hollow shaft with keyway  
according to DIN 6885 page 1

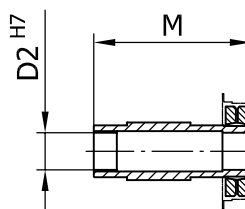


Tolerance for shaft ends:

$\varnothing \leq 50 \text{ mm}$  ISO k6

$\varnothing > 50 \text{ mm}$  ISO m6

Hollow shaft  
with shrinking disc



Tolerance for shaft ends: h7

surface roughness  $\leq R_t = 16$

required yield strength for shaft material

$R_{e \min} = 375 \text{ N/mm}^2$

The dimensional data of the motors varies depending on the make. For technical motor data, see pages 23f. Note: Refer to table page 25 for auxiliary engine equipment

## Additional drive solutions

### Individual and with outstanding serviceable life

#### QuarryMaster® HighPower

Rock solid, with many variants and efficient:  
Reliable drive groups for the harshest of conditions.  
Manufactured by us ready for use.

- Power range: 11 – 710 kW
- Speeds: 28 – 145 rpm



#### QuarryMaster® slewing conveyor drives

Helical-bevel geared motors designed for slewing conveyors or gantry cranes.

- Power range: 0,25 – 3 kW
- Speeds: 0,9 – 63 rpm
- Service factor Bf  $\geq$  1,0 (full load)
- 2 different installation situations possible



#### A 2000

The robust construction and very flat mounting form ensure reliable gears for bulk material handling! A wide range of different hollow shaft variants provides for additional flexibility.

- Power range: 0,5 – 168 kW
- Speeds: 16 – 263 rpm
- Torque: 150 – 45.000 Nm
- 6 different installation situations possible



#### S 2000

Cylinder and helical-bevel gear units capable of bearing high loads with high ratio range and flexible installation possibilities. Developed specially for bucket wheels and log washers.

- Speeds: 0,5 – 250 rpm
- Torque: 20.000 – 240.000 Nm
- 6 different installation situations possible

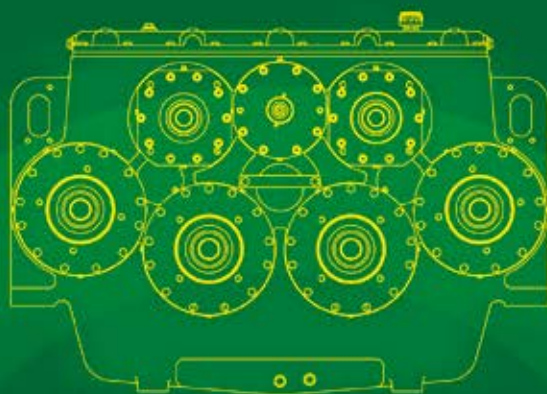


#### Special gear units - optimal solutions that go beyond the standard

We develop and manufacture custom-made special gear units. Based upon many years of experience and the extensive expertise of our engineers and product managers the implementation times are very short and costs are kept absolutely within the budget. Even small quantities pay off!

## Special Gear Units

Custom-made Drive Solutions



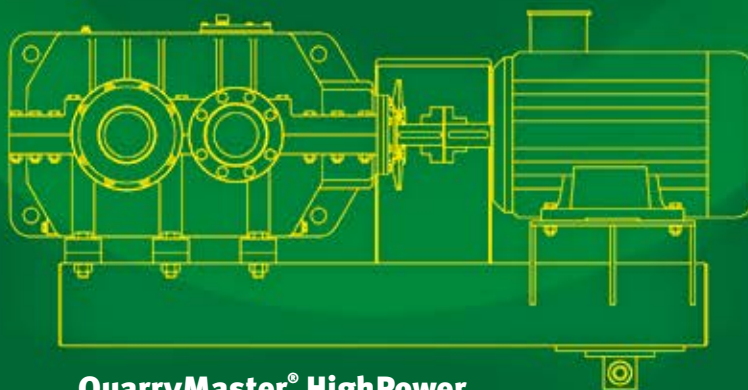
### QuarryMaster®

Helical-bevel Geared Motors



### P 2000

Pump Drives



### QuarryMaster® HighPower

Drive Groups



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