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Общая информация

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Серия мотор-редукторов К

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ИСТОРИЯ КОМПАНИИ

- 1998** **Основание** компании.
- 1999** **Заключение** дилерских соглашений с ведущими российскими производителями электротехники и насосного оборудования.
- 2002** **Открытие** собственного производственного участка по сборке отопительного оборудования HINTEK (тепловентиляторы, тепловые пушки, тепловые завесы).
- 2003** **Открытие** филиала в г. Москва. В Санкт-Петербурге открыт производственный участок по агрегатированию насосного оборудования.
- 2004** **Начало** работы с китайскими производителями электродвигателей. Вывод на рынок марок 5AI и 5MT.
- 2007** **Начало** производства электродвигателей с электромагнитный тормозом.
- 2008** **Открытие** филиала в г. Екатеринбург.
- 2009** **Компания «Элком»** получает статус эксклюзивного дистрибьютора компании HYUNDAI ELECTRIC по продаже частотных преобразователей на территории России, СНГ и стран Балтии. Вывод на рынок новой марки частотных преобразователей ESQ. Открытие нового направления по автоматизации систем управления технологическими процессами (АСУ ТП).
- 2010** **Проведение** первой конференции по автоматике среди дилеров компании HYUNDAI. Вывод на рынок новой марки редукторов ESQ.
- 2011** **Открытие** филиала в г. Воронеж. В состав компании «Элком» вошла ТМ ОРЛАН, производитель такого оборудования, как: электродвигатели общепромышленные, взрывозащищенные, электродвигатели ВАСОУ.
- 2012** **Открытие** филиалов в г. Новосибирск, Казань, Краснодар, Ростов-на-Дону и Самара. Компания «Элком» получает статус эксклюзивного дистрибьютора компании HYUNDAI ELECTRIC по силовому оборудованию до 40,5 кВ. Выпуск консольных насосов ESQ типа К и КМ.
- 2013** **Открытие** филиала в Ижевске, офиса в г. Алматы (Казахстан). Начало продаж панелей оператора под маркой ESQ. Начало производства электрических конвекторов со стеклянной панелью серии GL, а также дизельных и газовых пушек под брендом HINTEK.
- 2014** **Выпуск** масляных шестеренных насосов ESQ типа NMSH-GP. Начало производства станций управления и защиты ESQ-CS.
- 2015** **Начало** производства шкафов управления ESQ-CB. Начало производства электрических конвекторов HINTEK с механическим термостатом и качественными отечественными ТЭН серии UN.
- 2016** **Начало** производства автоматической насосной станции ESQ В, электрических тепловых пушек, тепловых завес, напольных инфракрасных обогревателей, подвесных инфракрасных обогревателей и конвекторов. Открытие филиалов в г. Уфа и Красноярск.
- 2017** **Компания «Элком»** получает статус мастер-дистрибьютора компании HYUNDAI ELECTRIC по силовому оборудованию до 40,5 кВт в СНГ.
- 2018** **Открытие** филиала в Челябинске. Выпуск насосов ESQ двустороннего входа типа Д.
- 2019** **Открытие** второго офиса в Республике Казахстан в городе Караганда. Открытие филиала в Нижнем Новгороде.
- 2020** **Открытие** офисов в Ставрополе, Барнауле, Перми, Саратове и Омске.
- 2021** **Заключение** дилерского договора с АО «Катайский насосный завод». Открытие нового направления «Тали». Заключение дилерского договора с производителем талей «Podem Gabrovo Ltd.». Выпуск электродвигателей 5AИП.
- 2022** **Выпуск** электродвигателей для систем аварийного дымоудаления серии ESQ FR и FR/V, а также тягодутьевых машин ДН. Открытие нового направления «Подшипники». Победа в конкурсе разработчиков Schneider Electric по программированию системы верхнего уровня (SCADA). Открытие филиала в Кирове и офиса в Бишкеке, Кыргызская Республика. Объединение с НП ЗАО «Электромаш».

Редуктор является элементом привода общего назначения и предназначен для увеличения крутящего момента и уменьшения частоты вращения различных машин и механизмов.

Конические мотор-редукторы серии К отличаются компактным исполнением, малошумностью работы, удобством компоновки в различных плоскостях.

Характерные свойства конических редукторов К:

- 12 типоразмеров редукторов мощностью 0,12-200кВт (37,47,57,67,77,87,97,107,127,157,167,187).

- диапазон передаточных чисел 5,36 – 179,86;

- максимальный выходной момент – 50 кНм;

- допустимая радиальная нагрузка – 190 000 Н;

- корпус редукторов типа К изготавливается из чугуна;

- зубчатые колеса изготавливаются из стали, проходят термическую и финишную обработку (твёрдость зуба HRC60, толщина прочного слоя — более 0,5мм).

Все редукторы поставляются заполненные смазкой в количестве достаточном для установки в монтажном положении М1.

В качестве смазки используется:

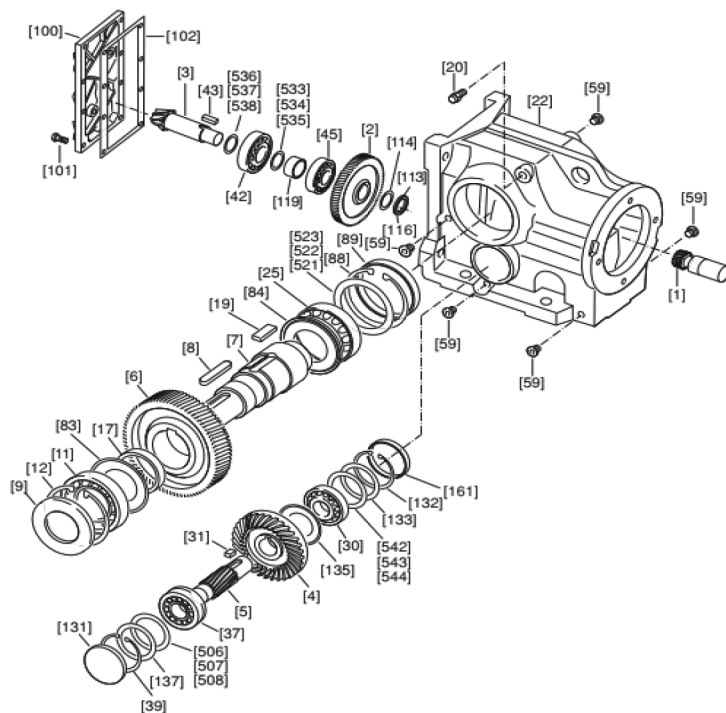
- трансмиссионное минеральное масло (ISO класс вязкости 220, температурный диапазон использования масла от -10°С до +40°С).

Данные каталога по мощности и вращающему моменту, предоставленные в каталоге, относятся к монтажной позиции М1, при которой входная ступень редуктора не находится полностью ниже уровня масла. Подразумевается, что мотор-редукторы имеют стандартные характеристики, заполнены стандартным смазочным материалом и эксплуатируются в нормальных условиях.

Приведенные значения частоты вращения выходного вала мотор-редукторов являются ориентировочными.

Номинальную частоту вращения выходного вала можно рассчитать самостоятельно по номинальной частоте вращения электродвигателя и передаточному числу редуктора. Необходимо учитывать, что реальная частота вращения выходного вала зависит непосредственно от нагрузки на двигатель и параметров электросети.

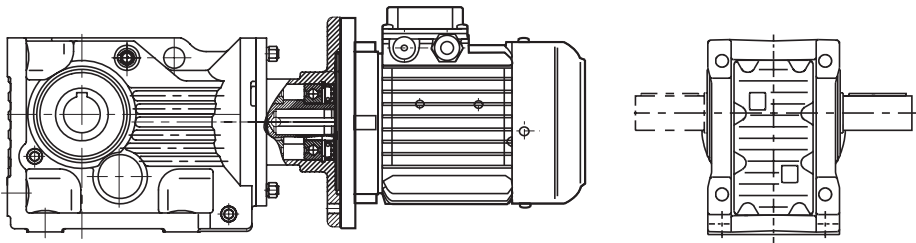
УСТРОЙСТВО КОНИЧЕСКОГО РЕДУКТОРА



- | | | | |
|--|------------------------------------|----------------------------|-------------------------|
| [1] Малая шестерня | [26] Подшипник качения | [102] Уплотнение | [522] Пригоночная шайба |
| [2] Колесо | [36] Подшипник качения | [116] Шлицевая гайка | [523] Пригоночная шайба |
| [6] Вал-шестерня | [31] Призматическая шпонка | [141] Стопорная шайба | [533] Пригоночная шайба |
| [4] Колесо | [37] Подшипник качения | [116] Резьбовой фиксатор | [534] Пригоночная шайба |
| [5] Вал-шестерня | [39] Стопорное кольцо | [116] Распорная втулка | [535] Пригоночная шайба |
| [6] Колесо | [42] Подшипник качения | [131] Заглушка | [536] Пригоночная шайба |
| [7] Выходной вал | [43] Призматическая шпонка | [132] Стопорное кольцо | [537] Пригоночная шайба |
| [8] Призматическая шпонка | [45] Подшипник качения | [133] Упорная шайба | [538] Пригоночная шайба |
| [9] Манжета для радиального уплотнения | [59] Резьбовая пробка | [135] Уплотнительная шайба | [542] Пригоночная шайба |
| [11] Подшипник качения | [83] Уплотнительная шайба | [137] Упорная шайба | [543] Пригоночная шайба |
| [12] Стопорное кольцо | [84] Уплотнительная шайба | [161] Заглушка | [544] Пригоночная шайба |
| [17] Распорная втулка | [88] Стопорное кольцо | [506] Пригоночная шайба | |
| [19] Призматическая шпонка | [89] Заглушка | [507] Пригоночная шайба | |
| [20] Воздушный клапан | [100] Крышка редуктора | [508] Пригоночная шайба | |
| [22] Корпус редуктора | [101] Болт с шестигранной головкой | [521] Пригоночная шайба | |

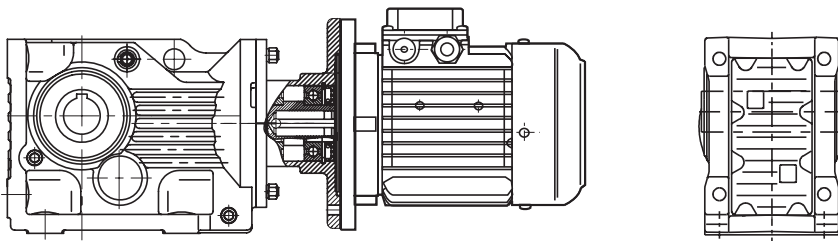
КОНИЧЕСКИЕ МОТОР-РЕДУКТОРЫ ВЫПУСКАЮТСЯ В СЛЕДУЮЩИХ ИСПОЛНЕНИЯХ:

К...



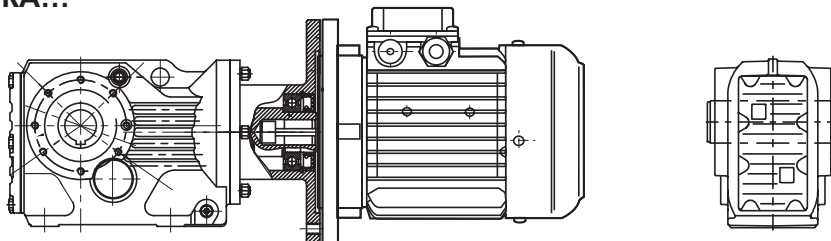
Конический мотор-редуктор на лапах

КА...В



Конический мотор-редуктор на лапах с полым валом

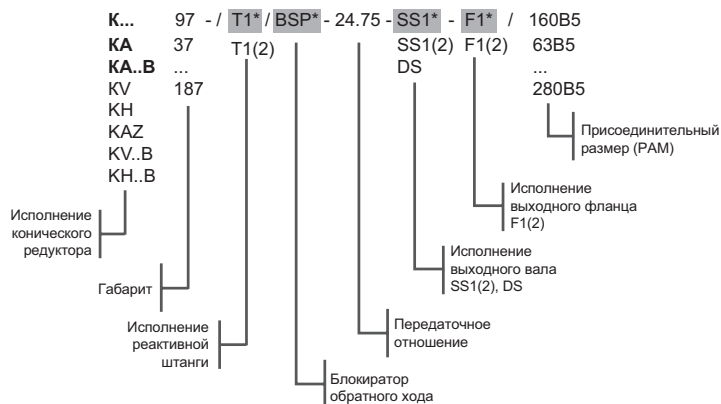
КА...



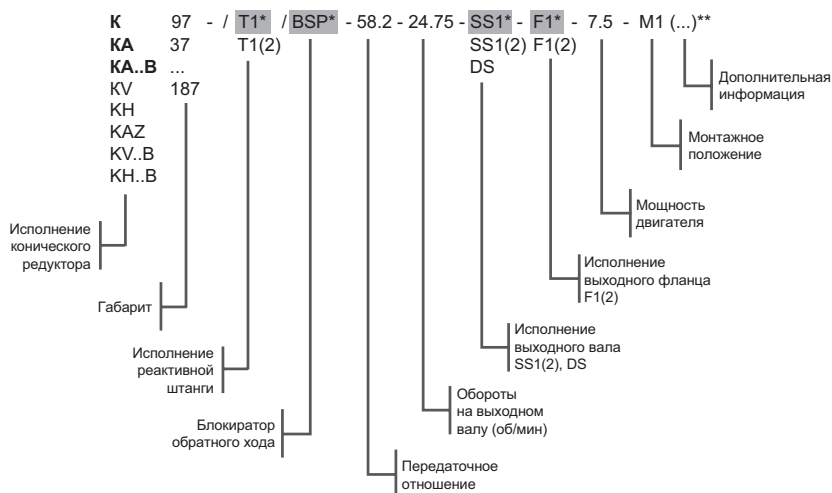
Конический мотор-редуктор с полым валом без лап

ПРИМЕР УСЛОВНОГО ОБОЗНАЧЕНИЯ РЕДУКТОРА И МОТОР-РЕДУКТОРА

Условное обозначение редукторной части конического редуктора типа К (KA)



Условное обозначение конического мотор-редуктора типа К (KA)



* При отсутствии данного модуля или детали в условном обозначении ничего не указывается

**Дополнительной информацией является нестандартное исполнение двигателя и фланца:

- двигатель с одним и двумя тормозами (ET, ET2ET2)
- двигатель с двойными маломощными тормозами (ET2ET2 M)
- соединение редуктора с двигателем через малый фланец (B14)
- двигатель во взрывозащищенном исполнении (B3I)
- нестандартное положение клеммной коробки (KK..)
- низкий сервис-фактор мотор-редуктора (f.s.=0.1-0.8)

Пример KA97- 44.32-21.2-2-M1 (100L6 ET12ET12M IM2082) f.s.=0.9

Таблица 1 - Количество масла, заливаемого в конические редукторы типа К (КА)

| Редуктор | Количество масла в литрах | | | | | |
|----------|---------------------------|-------|-------|-------|-------|-------|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| К..37 | 0.50 | 1.00 | 1.00 | 1.25 | 0.95 | 0.95 |
| К..47 | 0.80 | 1.30 | 1.50 | 2.00 | 1.60 | 1.60 |
| К..57 | 1.10 | 2.20 | 2.20 | 2.80 | 2.30 | 2.10 |
| К..67 | 1.10 | 2.40 | 2.60 | 3.45 | 2.60 | 2.60 |
| К..77 | 2.20 | 4.10 | 4.40 | 5.8 | 4.20 | 4.40 |
| К..87 | 3.70 | 8.0 | 8.7 | 10.9 | 8.0 | 8.0 |
| К..97 | 7.0 | 14.0 | 15.7 | 20.0 | 15.7 | 15.5 |
| К..107 | 10.0 | 21.0 | 25.5 | 33.5 | 24.0 | 24.0 |
| К..127 | 21.0 | 41.5 | 44.0 | 54.0 | 40.0 | 41.0 |
| К..157 | 31.0 | 62.0 | 65.0 | 90.0 | 58.0 | 62.0 |
| К..167 | 33.0 | 95.0 | 105.0 | 123.0 | 85.0 | 84.0 |
| К..187 | 53.0 | 152.0 | 167.0 | 200 | 143.0 | 143.0 |

По умолчанию конические редукторы типа К(КА) поставляются заправленные маслом в объеме, соответствующем монтажному положению М1. Рекомендуемые типы масел для различных условий эксплуатации указаны в Таблице 2.

Таблица 2 - Рекомендуемые типы масел для различных условий эксплуатации

| Тип масла | Синтетическое | Минеральное |
|-----------|------------------|------------------|
| Раб. темп | - 25 °С + 50 °С | - 5 °С + 40 °С |
| Марка | | |
| ISO | VG 320 | VG 460 |
| AGIP | TELIUM | BLASIA 460 |
| SHELL | OMALA 320 | OMALA 160 |
| ESSO | S220 | SPARTAN EP460 |
| MOBIL | MOBIL GEAR 320 | MOBIL GEAR 634 |
| CASTROL | AL PHASYN PG320 | AL PHA MAX 460 |
| BP | ENERGOL SG-XP320 | ENERGOL SG-XP460 |

Таблица 3 - Вес конических редукторов типа К (КА)

| Габарит | K37 KA37 | K47 KA47 | K57 KA57 | K67 KA67 | K77 KA77 | K87 KA87 | K97 KA97 | K107 KA107 | K127 KA127 | K157 KA157 | K167 | K187 |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|------|------|
| Вес, кг | 25 24 | 31 30 | 37 36 | 43 40 | 75 68 | 110 99 | 170 150 | 315 285 | 475 450 | 790 750 | 1190 | 1770 |

ПОДБОР МОТОР-РЕДУКТОРА

Данные, необходимые для подбора мотор-редуктора:

n_{2min} - Минимальная частота вращения выходного вала [об/мин]

n_{2max} - Максимальная частота вращения выходного вала [об/мин]

P при n_{2min} - Выходная мощность при минимальной частоте вращения выходного вала [кВт]

P при n_{2max} - Выходная мощность при максимальной частоте вращения выходного вала [кВт]

M при n_{2min} - Вращающий момент на выходном валу при минимальной частоте вращения [Нм]

M при n_{2max} - Вращающий момент на выходном валу при максимальной частоте вращения [Нм]

F_r - Внешняя радиальная нагрузка на выходной вал

Предполагает приложение усилия посередине вала. Иначе определите точное положение точки приложения усилия, указав угол приложения усилия и направление вращения вала для проверочного расчета. [Н]

F_a - Осевая нагрузка (растяжение и сжатие) на выходной вал [Н]

Монтажная позиция

IP.. - Необходимая степень защиты

T - Температура окружающей среды [°C]

Режим работы и относительная продолжительность включения, или укажите точный цикл нагрузки

Z - Количество включений, или укажите точный цикл нагрузки [вкл/ч]

f - Частота электросети [Гц]

Для рационального расчета параметров мотор-редуктора необходимо знать данные приводимого механизма (масса, частота вращения и т. д.). По этим данным определяются необходимые значения мощности, вращающего момента и частоты вращения.

КПД редуктора в большей степени зависит от трения в зубчатом зацеплении и в подшипниках. Важно учитывать тот факт, что КПД редуктора во время запуска всегда ниже, чем при номинальной частоте вращения.

КПД цилиндрических редукторов в зависимости от числа ступеней находится в пределах от 94% (3-ступенчатый) и до 98% (1-ступенчатый).

Выходной крутящий момент M

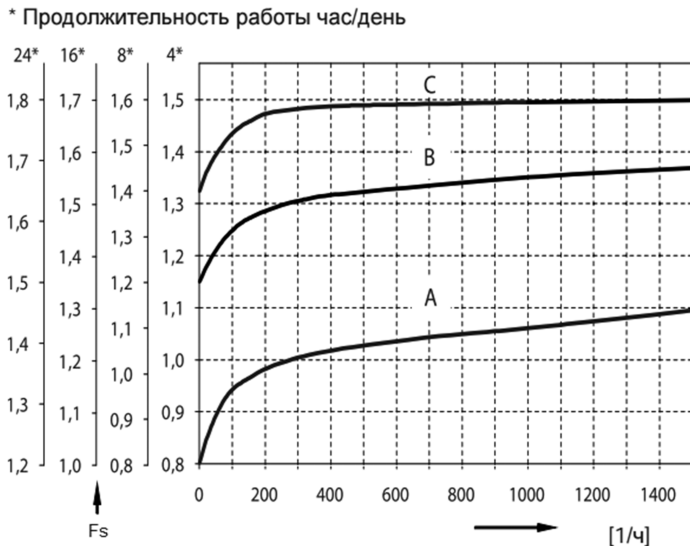
Крутящий момент M определяется требуемой нагрузкой редуктора. Его можно вычислить как усилие F, действующее на определенном расстоянии на плече R.

$$M \text{ [Нм]} = F \text{ [Н]} \times R \text{ [м]}$$

Сервис фактор

Сервис фактор — это количественный показатель тяжести предполагаемых условий работы редуктора, с приблизительным расчетом ежедневного цикла работы, изменений нагрузки и возможных перегрузок, связанных с конкретными условиями эксплуатации.

Приведенный ниже график позволяет найти значение сервис фактора.



Параметры, которые необходимо учитывать для точного расчета сервис-фактора:

- тип нагрузки рабочего оборудования: А - В - С
- продолжительность рабочего времени: часов/ день (Δ)
- частоту пусков: запусков/час (Zr)

Тип нагрузки:

- $f_s \leq 0,3$ - кривая А - равномерная нагрузка
- $f_s \leq 3$ - кривая В - умеренные ударные нагрузки
- $f_s \leq 10$ - кривая С - тяжелые ударные нагрузки

При $f_s > 10$ необходимо обратиться в нашу техническую службу.

Примеры типа нагрузки рабочего оборудования:

А - шнеки для подачи легких материалов, вентиляторы, сборочные линии, ленточные конвейеры для легких материалов, малые смесители, подъемники, очистители, заполнители, системы управления.

В - намоточные механизмы, механизмы подачи деревообрабатывающих станков, грузовые лифты, балансиры, резбонарезные станки, средние смесители, ленточные конвейеры для тяжелых материалов, лебедки, раздвижные дверцы, скрепки для удобрений, упаковочные машины, смесители бетона, крановые механизмы, фрезы, гибочные машины, шестеренчатые насосы.

С - смесители для тяжелых материалов, ножницы, прессы, центрифуги, суппорты, лебедки и подъемники для тяжелых материалов, токарно-шлифовальные станки, камнедробилки, ковшовые элеваторы, сверильные станки, молотковые дробилки, кулачковые прессы, гибочные машины, поворотные столы, очистные барабаны, вибраторы, измельчители.

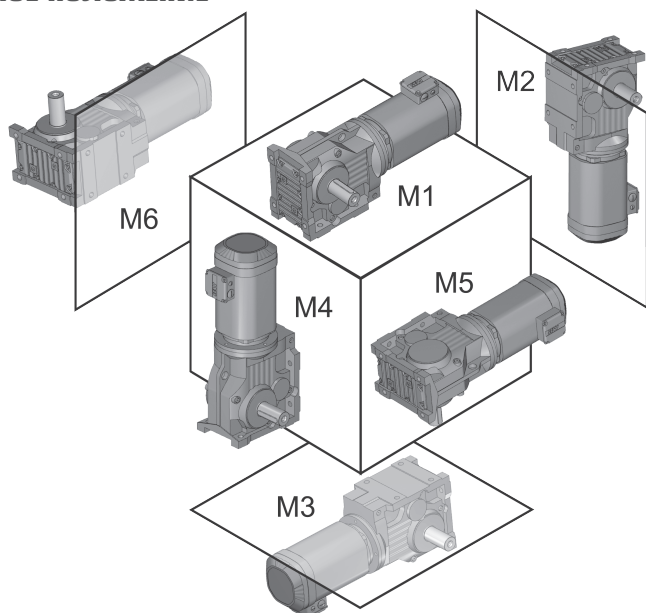
Сервис фактор редуктора F_s определяет отношение между максимальным крутящим моментом на выходе из редуктора, которым редуктор может быть нагружен и истинным крутящим моментом, который может быть предоставлен подобранным электродвигателем.

$$F_s = M_{\max} / M_{\text{реальный}}$$

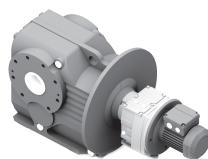
Потери от перемешивания масла

Для уменьшения потерь от перемешивания масла рекомендуется использовать для редукторов основную монтажную позицию M1.

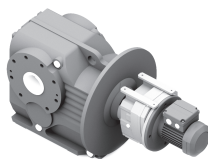
МОНТАЖНОЕ ПОЛОЖЕНИЕ



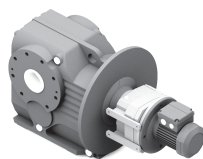
МОНТАЖНОЕ ПОЛОЖЕНИЕ ПЕРВОЙ СТУПЕНИ ОТНОСИТЕЛЬНО ВТОРОЙ СТУПЕНИ СДВОЕННЫХ МОТОР-РЕДУКТОРОВ



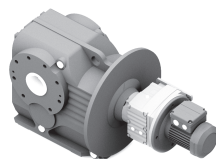
BS



AS

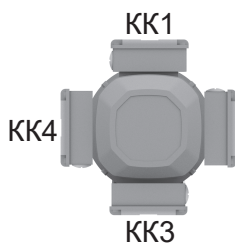


VS

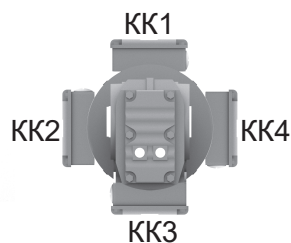
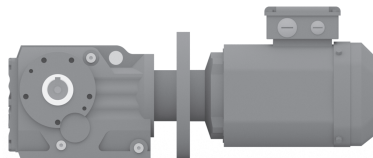


PS

ПОЛОЖЕНИЕ РАСПРЕДЕЛИТЕЛЬНОЙ КОРОБКИ ЭЛЕКТРОДВИГАТЕЛЯ



КА...



Для работы мотор-редукторов при температуре ниже 0°C необходимо принимать во внимание следующее:

- электродвигатели должны быть рассчитаны на работу при указанной температуре;
- мощность электродвигателя должна выдерживать высокие пусковые моменты;
- в случае редуктора с чугунным корпусом следить за ударными нагрузками, поскольку хрупкость чугуна повышается при -15°C;
- при запуске необходимо, чтобы масло равномерно распределилось в системе и достигло оптимальной температуры и вязкости, для чего рекомендуется дать редуктору поработать несколько минут без нагрузки.

| Габарит редуктора | Количество ступеней | D163 | D80 | D90 | D100 | D112 | D132S | D132M |
|-------------------|---------------------|--|--|---|---|---|----------------------------|--------------------------------------|
| K/KF/KA/KAF37 | 3 | 5.38-106.38 | 5.38-83.69 | 5.38-24.99 29.96-72.54 | 5.36-10.49 13.08-20.19 29.98-58.60 | | | |
| K/KF/KA/KAF47 | 3 | 7.36-11.17 13.65-31.30 39.61-131.87 | 5.81-104.37 | 5.81-90.88 | 5.81-21.81 25.91 35.39-63.30 75.20 | | | |
| K/KF/KA/KAF57 | 3 | 9.59-11.92 19.34-35.70 48.89-145.14 | 7.55-11.92 15.22-123.85 | 6.57-108.29 | 6.57-90.26 | 6.57-30.28 38.49-76.56 | | |
| K/KF/KA/KAF67 | 3 | 10.63-12.48 19.30-35.62 48.77-144.79 | 8.37-12.48 15.19-123.54 | 7.28-108.03 | 7.28-90.04 | 7.28-30.22 38.39-76.37 | 7.28-24.00 38.39-60.66 | 7.28-24.00 38.39-60.65 |
| K/KF/KA/KAF77 | 3 | 25.62-38.39 64.75-192.16 | 10.84-12.36 20.25-38.39 51.18-154.05 | 7.24-1.35.28 | 7.24-113.58 | 7.24-97.05 | 7.24-30.89 40.04-78.07 | 7.24-30.89 40.04-76.07 |
| K/KF/KA/KAF87 | 3 | | 16.00 27.88-31.39 70.46-197.37 | 11.17 16.00 19.45-31.39 49.16-174.19 | 8.29-11.17 14.45-147.32 | 8.29-11.17 14.45-126.91 | 7.21-102.71 | 7.21-102.71 |
| K/KF/KA/KAF97 | 3 | | | 24.75-38.30 62.55-176.05 | 18.98-38.30 47.93-178.05 | 19.98-38.30 47.93-153.21 | 8.71-123.93 | 8.71-123.93 |
| K/KF/KA/KAF107 | 3 | | | | 13.43 22.62-29.00 32.69 57.17-143.47 | 13.43 22.62-29.00 32.69 57.17-143.47 | 8.69-29.00 32.69-143.47 | 8.69-29.00 32.69-143.47 |
| K/KF/KA/KAF127 | 3 | | | | | | | 12.79 21.15-36.25 47.82-146.07 |

| Габарит редуктора | Количество ступеней | D132ML | D160M | D160L | D180 | D200 |
|-------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|--|---------------------------|
| K/KF/KA/KAF77 | 3 | 7.24-23.08 40.04-58.34 | 7.24-23.08 40.04-58.34 | | | |
| K/KF/KA/KAF87 | 3 | 7.21-79.34 | 7.21-79.34 | 7.21-79.34 | 7.21-14.45 17.42-24.92 36.52-63.00 | |
| K/KF/KA/KAF97 | 3 | 8.71-98.80 | 8.71-96.80 | 8.71-96.80 | 8.71-30.82 41.87-77.89 | 8.71-24.75 41.87-62.55 |
| K/KF/KA/KAF107 | 3 | 8.69-112.41 | 8.69-112.41 | 8.69-112.41 | 8.69-90.98 | 8.69-31.28 37.00-73.30 |
| K/KF/KA/KAF127 | 3 | 10.74-12.79 17.77-136.14 | 10.74-12.79 17.77-136.14 | 10.74-12.79 17.77-136.14 | 8.68-110.18 | 8.68-89.89 |
| K/KF/KA/KAF157 | 3 | | 18.37-31.30 46.79-150.41 | 18.37-31.30 46.79-150.41 | 14.92-122.39 | 12.65-100.22 |
| K/KH167 | 3 | | 24.52-32.25 51.77-164.50 | 24.52-32.25 51.77-164.50 | 20.32-32.25 42.89-134.99 | 17.34-109.83 |
| K/KH187 | 3 | | 33.23-42.51 88.00-179.88 | 33.23-42.51 88.00-179.88 | 27.92-42.51 73.96-179.86 | 17.18-179.86 |

| Габарит редуктора | Количество ступеней | D225 | D250M | D280 | D315 | D315M_A/B |
|-------------------|---------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| K/KF/KA/KAF107 | 3 | 8.69-31.28 37.00-73.30 | | | | |
| K/KF/KA/KAF127 | 3 | 8.68-89.89 | 8.68-31.37 40.19-70.95 | 8.68-31.37 40.19-70.95 | | |
| K/KF/KA/KAF157 | 3 | 12.65-100.22 | 12.65-79.76 | 12.65-79.76 | 12.65-23.95 38.02-61.02 | 12.65-18.37 38.02-46.79 |
| K/KH167 | 3 | 17.34-109.83 | 17.34-87.86 | 17.34-87.86 | 17.34-68.07 | 17.34-24.52 36.81-51.77 |
| K/KH187 | 3 | 17.18-179.86 | 17.18-144.59 | 17.18-144.59 | 17.18-112.50 | 17.18-33.23 45.50-88.00 |

НОМИНАЛЬНЫЕ ЗНАЧЕНИЯ ОСНОВНЫХ ПАРАМЕТРОВ

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|------------------|----------------------------|-----------|------------------------|-----------------|
| К37 200Нм | | | | |
| 106.38 | 13 | 200 | 5640 | AD ₁ |
| 97.81 | 14 | 200 | 5640 | |
| 83.69 | 17 | 200 | 5640 | |
| 72.54 | 19 | 200 | 5520 | |
| 67.80 | 21 | 200 | 5360 | |
| 58.60 | 24 | 200 | 5020 | |
| 49.79 | 28 | 200 | 4660 | |
| 44.46 | 31 | 200 | 4420 | |
| 37.97 | 37 | 200 | 4100 | |
| 35.57 | 39 | 200 | 3970 | |
| К37 200Нм | | | | |
| 29.96 | 47 | 200 | 3650 | AD ₂ |
| 28.83 | 49 | 200 | 3530 | |
| 24.99 | 56 | 200 | 3330 | |
| 23.36 | 60 | 195 | 3260 | |
| 20.19 | 69 | 185 | 3110 | |
| 17.15 | 82 | 180 | 2900 | |
| 15.31 | 91 | 175 | 2780 | |
| 13.08 | 107 | 165 | 2650 | |
| 12.14 | 115 | 160 | 2600 | |
| 10.49 | 133 | 160 | 2410 | |
| 8.91 | 157 | 160 | 2200 | |
| 7.96 | 176 | 155 | 2110 | |
| 6.80 | 206 | 150 | 1980 | |
| 6.37 | 220 | 145 | 1860 | |
| 5.36 | 261 | 140 | 1810 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|-------------------|----------------------------|-----------|------------------------|-----------------|
| К47 400 Нм | | | | |
| 131.87 | 11 | 400 | 5920 | AD ₂ |
| 121.48 | 12 | 400 | 5920 | |
| 104.37 | 13 | 400 | 5920 | |
| 90.88 | 15 | 400 | 5920 | |
| 85.12 | 16 | 400 | 5920 | |
| 75.20 | 19 | 400 | 5920 | |
| 69.84 | 20 | 400 | 5920 | |
| 63.30 | 22 | 400 | 5920 | |
| 56.83 | 25 | 400 | 5920 | |
| 48.95 | 29 | 400 | 5920 | |
| К47 400 Нм | | | | |
| 46.03 | 30 | 400 | 5920 | AD ₃ |
| 39.61 | 35 | 400 | 5920 | |
| 35.39 | 40 | 400 | 5920 | |
| 31.30 | 45 | 400 | 5700 | |
| 29.32 | 48 | 400 | 5520 | |
| 25.91 | 54 | 400 | 5170 | |
| 24.08 | 58 | 400 | 4970 | |
| 21.81 | 64 | 400 | 4710 | |
| 19.58 | 72 | 400 | 4440 | |
| 16.86 | 83 | 380 | 4230 | |
| 15.86 | 88 | 380 | 4080 | |
| 13.65 | 103 | 360 | 3890 | |
| 12.19 | 115 | 350 | 3720 | |
| 11.77 | 119 | 280 | 4080 | |
| 10.56 | 133 | 280 | 3830 | |
| 9.10 | 154 | 280 | 3540 | |
| К47 400 Нм | | | | |
| 8.58 | 164 | 270 | 3500 | AD ₃ |
| 7.35 | 190 | 250 | 3390 | |
| 6.58 | 213 | 240 | 3270 | |
| 5.81 | 241 | 230 | 3140 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD | |
|-------------------|----------------------------|-----------|------------------------|-----------------|-----------------|
| К57 600 Нм | | | | | |
| 145.14 | 9.6 | 600 | 7470 | AD ₂ | |
| 123.85 | 11 | 600 | 7470 | | |
| 108.29 | 13 | 600 | 7470 | | |
| 102.88 | 14 | 600 | 7470 | | |
| 90.25 | 16 | 600 | 7470 | | |
| 76.58 | 18 | 600 | 7470 | | |
| 69.12 | 20 | 600 | 7470 | | |
| 60.81 | 23 | 600 | 7470 | | |
| 57.42 | 24 | 600 | 7470 | | |
| 48.89 | 29 | 600 | 7470 | | |
| К57 600 Нм | | | | | |
| 44.43 | 32 | 600 | 7470 | AD ₃ | |
| 38.49 | 36 | 600 | 7470 | | |
| 35.70 | 39 | 600 | 7470 | | |
| 30.28 | 46 | 600 | 7310 | | |
| 27.34 | 51 | 600 | 6930 | | |
| 24.05 | 58 | 600 | 6480 | | |
| 22.71 | 62 | 600 | 6280 | | |
| 19.34 | 72 | 575 | 5910 | | |
| 17.57 | 80 | 555 | 5740 | | |
| К57 600 Нм | | | | | |
| 15.22 | 92 | 535 | 5430 | | AD ₃ |
| 13.25 | 106 | 510 | 5190 | | |
| 11.92 | 117 | 415 | 5150 | | |
| 11.26 | 124 | 415 | 4900 | | |
| 9.59 | 146 | 405 | 4850 | | |
| 8.71 | 161 | 390 | 4520 | | |
| 7.55 | 185 | 365 | 4360 | | |
| 6.57 | 213 | 345 | 4190 | | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|-------------------|----------------------------|-----------|------------------------|-----------------|
| К67 820 Нм | | | | |
| 144.79 | 9.7 | 820 | 10300 | AD ₂ |
| 123.54 | 11 | 820 | 10300 | |
| 108.03 | 13 | 820 | 10300 | |
| 102.62 | 14 | 820 | 10300 | |
| 90.04 | 16 | 820 | 10300 | |
| 76.37 | 18 | 820 | 10300 | |
| 68.95 | 20 | 820 | 10300 | |
| 60.88 | 23 | 820 | 10300 | |
| 57.28 | 24 | 820 | 10300 | |
| 48.77 | 29 | 820 | 10300 | |
| К67 820 Нм | | | | |
| 44.32 | 32 | 820 | 10300 | AD ₃ |
| 38.39 | 36 | 820 | 10500 | |
| 35.62 | 39 | 820 | 10300 | |
| 30.22 | 46 | 820 | 10300 | |
| 27.28 | 51 | 820 | 10300 | |
| 24.00 | 58 | 800 | 10500 | |
| 22.66 | 62 | 730 | 10700 | |
| 19.30 | 73 | 760 | 10800 | |
| 17.54 | 80 | 740 | 11000 | |
| 15.19 | 92 | 700 | 11300 | |
| 13.22 | 106 | 670 | 11500 | |
| 12.48 | 112 | 630 | 12300 | |
| 10.83 | 132 | 600 | 11800 | |
| 9.66 | 145 | 480 | 11500 | |
| 8.37 | 167 | 440 | 11100 | |
| 7.28 | 192 | 420 | 10700 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------------------|----------------------------|-----------|------------------------|-----------------|
| К77 1550 Нм | | | | |
| 192.18 | 7.3 | 1450 | 16100 | AD ₂ |
| 179.37 | 7.8 | 1450 | 16100 | |
| 154.02 | 9.1 | 1550 | 15400 | |
| 135.28 | 10 | 1550 | 15400 | |
| 12852 | 11 | 1550 | 15400 | |
| 113.56 | 12 | 1550 | 15400 | |
| 97.05 | 14 | 1550 | 15400 | |
| 88.97 | 16 | 1550 | 15400 | |
| 78.07 | 18 | 1550 | 15400 | |
| 73.99 | 19 | 1550 | 15400 | |
| К77 1550 Нм | | | | |
| 64.75 | 22 | 1550 | 15400 | AD ₃ |
| 58.34 | 24 | 1550 | 15400 | |
| 51.18 | 27 | 1550 | 15400 | |
| 45.18 | 31 | 1550 | 15400 | |
| 40.04 | 35 | 1550 | 15400 | |
| 38.39 | 36 | 1550 | 15700 | |
| 35.20 | 40 | 1550 | 15400 | |
| 30.89 | 45 | 1550 | 15400 | |
| 29.27 | 46 | 1550 | 15400 | |
| 25.62 | 55 | 1550 | 15400 | |
| 23.08 | 61 | 1550 | 15400 | |
| 20.25 | 69 | 1500 | 15700 | |
| 17.87 | 78 | 1450 | 16100 | |
| 15.84 | 88 | 1400 | 15500 | |
| 13.52 | 104 | 1340 | 14800 | |
| К77 1550 Нм | | | | |
| 12.38 | 113 | 1000 | 15100 | AD ₄ |
| 10.84 | 129 | 990 | 14400 | |
| 9.56 | 146 | 940 | 13900 | |
| 8.48 | 165 | 890 | 13500 | |
| 7.24 | 193 | 820 | 13100 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------------------|----------------------------|-----------|------------------------|-----------------|
| К87 2700 Нм | | | | |
| 197.37 | 7.1 | 2700 | 27300 | AD ₂ |
| 174.19 | 8.0 | 2700 | 27300 | |
| 164.34 | 8.5 | 2700 | 27300 | |
| 147.32 | 9.5 | 2700 | 27300 | |
| 126.91 | 11 | 2700 | 27300 | |
| 115.82 | 12 | 2700 | 27300 | |
| 102.71 | 14 | 2700 | 27300 | |
| 86.34 | 16 | 2700 | 27300 | |
| 79.34 | 18 | 2700 | 27300 | |
| 70.46 | 20 | 2700 | 27300 | |
| К87 2700 Нм | | | | |
| 63.00 | 22 | 2700 | 26200 | AD ₃ |
| 56.64 | 25 | 2700 | 25000 | |
| 49.46 | 28 | 2700 | 23500 | |
| 44.02 | 32 | 2600 | 22800 | |
| 36.52 | 38 | 2500 | 21400 | |
| 31.39 | 45 | 2700 | 19200 | |
| 27.88 | 50 | 2600 | 18500 | |
| 24.92 | 56 | 2500 | 18000 | |
| 22.41 | 62 | 2300 | 17900 | |
| 19.45 | 72 | 2300 | 18800 | |
| 17.42 | 80 | 2200 | 18300 | |
| 16.00 | 87 | 1800 | 18000 | |
| 14.45 | 97 | 2100 | 15300 | |
| 12.56 | 111 | 2000 | 14800 | |
| 11.17 | 125 | 1500 | 14900 | |
| К87 2700 Нм | | | | |
| 10.00 | 140 | 1500 | 14200 | AD ₅ |
| 8.29 | 169 | 1400 | 13500 | |
| 7.21 | 194 | 1300 | 13200 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------|----------------------------|------------|------------------------|-----------------|
| | | К97 | 4300 Нм | |
| 176.05 | 8.0 | 4300 | 40000 | AD ₃ |
| 153.21 | 9.1 | 4300 | 40000 | |
| 140.28 | 10 | 4300 | 40000 | |
| 123.93 | 11 | 4300 | 40000 | |
| 105.13 | 13 | 4300 | 40000 | |
| 96.80 | 14 | 4300 | 40000 | |
| 86.52 | 16 | 4300 | 38800 | |
| 77.89 | 18 | 4300 | 37100 | |
| 70.54 | 20 | 4300 | 35600 | |
| 62.55 | 22 | 4300 | 33800 | |
| | | | | AD ₄ |
| 56.55 | 25 | 4300 | 32300 | |
| 47.93 | 29 | 4300 | 30000 | |
| 41.87 | 33 | 4300 | 28300 | AD ₅ |
| 38.30 | 37 | 4300 | 27100 | |
| 34.23 | 41 | 4300 | 25700 | |
| 30.82 | 45 | 4300 | 24500 | |
| 27.91 | 50 | 4300 | 23300 | |
| 24.75 | 57 | 4300 | 22000 | |
| 22.37 | 63 | 4300 | 20900 | |
| 18.96 | 74 | 4300 | 19100 | |
| 16.56 | 85 | 4300 | 17800 | |
| 13.85 | 101 | 4300 | 18100 | |
| 11.99 | 117 | 3880 | 16200 | |
| 10.41 | 134 | 2870 | 16400 | AD ₅ |
| 8.71 | 161 | 2880 | 15800 | AD ₆ |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------|----------------------------|-------------|------------------------|-----------------|
| | | К107 | 8000 Нм | |
| 143.47 | 9.8 | 8000 | 65000 | AD ₄ |
| 121.46 | 12 | 8000 | 61700 | |
| 112.41 | 12 | 8000 | 59700 | |
| 100.75 | 14 | 8000 | 57000 | |
| 90.96 | 15 | 8000 | 54600 | |
| 82.61 | 17 | 8000 | 52400 | |
| 73.30 | 19 | 8000 | 46700 | |
| 68.52 | 21 | 8000 | 47600 | |
| 57.17 | 24 | 8000 | 44400 | |
| 49.80 | 28 | 7840 | 42200 | |
| | | | | AD ₅ |
| 42.33 | 33 | 7380 | 40500 | |
| 37.00 | 38 | 7200 | 38500 | |
| 32.69 | 43 | 7200 | 38300 | AD ₆ |
| 31.28 | 45 | 6800 | 36700 | |
| 29.00 | 48 | 7200 | 34000 | |
| 26.32 | 53 | 7200 | 32000 | |
| 22.62 | 62 | 7200 | 28900 | |
| 19.74 | 71 | 7200 | 28100 | |
| 16.75 | 84 | 7050 | 23600 | |
| 14.64 | 98 | 6890 | 21900 | |
| 13.43 | 104 | 4300 | 29200 | |
| 11.73 | 119 | 4300 | 27600 | |
| 9.94 | 141 | 4190 | 25800 | |
| 8.69 | 161 | 4070 | 24600 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------|----------------------------|-------------|------------------------|-----------------|
| | | К127 | 13000 Нм | |
| 146.07 | 9.6 | 13000 | 79200 | AD ₄ |
| 136.14 | 10 | 13000 | 79200 | |
| 122.48 | 11 | 13000 | 79200 | |
| 110.18 | 13 | 13000 | 79200 | |
| 89.89 | 16 | 13000 | 75100 | AD ₅ |
| 81.98 | 17 | 13000 | 72100 | |
| 70.95 | 20 | 13000 | 67700 | |
| 62.60 | 22 | 13000 | 64000 | |
| 54.07 | 26 | 13000 | 59900 | |
| 47.82 | 29 | 13000 | 56500 | AD ₆ |
| 40.19 | 35 | 13000 | 52000 | |
| 36.25 | 39 | 13000 | 49400 | |
| 31.37 | 45 | 13000 | 45900 | AD ₇ |
| 27.68 | 51 | 13000 | 43000 | |
| 23.91 | 59 | 13000 | 39800 | |
| 21.15 | 66 | 13000 | 37200 | AD ₈ |
| 17.77 | 79 | 13000 | 33800 | |
| 14.35 | 98 | 12100 | 31800 | |
| 12.79 | 109 | 8530 | 35400 | |
| 10.74 | 130 | 8000 | 33900 | |
| 8.68 | 161 | 7230 | 32500 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------|----------------------------|-------------|------------------------|-----------------|
| | | К157 | 18000 Нм | |
| 150.41 | 9.3 | 18000 | 112200 | AD ₅ |
| 122.39 | 11 | 18000 | 106500 | |
| 100.22 | 14 | 18000 | 98000 | |
| 91.65 | 15 | 18000 | 94400 | |
| 79.75 | 18 | 18000 | 88900 | |
| 70.38 | 20 | 18000 | 84200 | |
| 61.02 | 23 | 18000 | 78000 | |
| 54.29 | 26 | 18000 | 74900 | |
| 46.79 | 30 | 18000 | 70000 | |
| 38.02 | 37 | 18000 | 63300 | |
| | | | | AD ₇ |
| 31.30 | 45 | 18000 | 57500 | |
| 27.62 | 51 | 18000 | 54000 | |
| 23.95 | 58 | 18000 | 50000 | AD ₈ |
| 21.31 | 66 | 18000 | 47000 | |
| 18.37 | 76 | 18000 | 43200 | |
| 14.92 | 94 | 18000 | 38200 | |
| 12.85 | 111 | 17000 | 38700 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------|----------------------------|-------------|------------------------|-----------------|
| | | К167 | 32000 Нм | |
| 164.50 | 8.5 | 32000 | 150000 | AD ₅ |
| 134.99 | 10 | 32000 | 150000 | AD ₆ |
| 109.83 | 13 | 32000 | 150000 | |
| 87.86 | 16 | 32000 | 147200 | |
| 78.14 | 18 | 32000 | 140100 | AD ₇ |
| 68.07 | 21 | 32000 | 132000 | |
| 60.74 | 23 | 32000 | 125600 | AD ₈ |
| 51.77 | 27 | 32000 | 117000 | |
| 42.89 | 33 | 32000 | 107400 | |
| 36.61 | 38 | 32000 | 99700 | |
| 32.25 | 43 | 32000 | 93700 | |
| 28.77 | 49 | 32000 | 88600 | |
| 24.52 | 57 | 32000 | 81700 | |
| 20.32 | 69 | 32000 | 74000 | |
| 17.34 | 81 | 32000 | 87800 | |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] | AD |
|--------|----------------------------|-------------|------------------------|-----------------|
| | | К187 | 50000 Нм | |
| 179.86 | 7.8 | 50000 | 190000 | AD ₆ |
| 165.21 | 8.5 | 50000 | 190000 | |
| 144.59 | 9.7 | 50000 | 190000 | |
| 129.69 | 11 | 50000 | 188200 | AD ₇ |
| 112.60 | 12 | 50000 | 177200 | |
| 102.16 | 14 | 50000 | 189900 | AD ₈ |
| 88.00 | 16 | 50000 | 159000 | |
| 73.98 | 19 | 50000 | 147000 | |
| 64.04 | 22 | 50000 | 137500 | |
| 53.38 | 26 | 50000 | 126000 | |
| 45.50 | 31 | 50000 | 116600 | |
| 42.51 | 33 | 50000 | 112700 | |
| 38.57 | 36 | 50000 | 107200 | |
| 33.23 | 42 | 50000 | 89100 | |
| 27.92 | 50 | 50000 | 90200 | |
| 24.18 | 58 | 47600 | 86800 | |
| 20.15 | 69 | 43900 | 84000 | |
| 17.18 | 81 | 41400 | 80800 | |

| i | n_2 [об/мин] | M [Нм] | F_{r_2} [Н] |
|----------------|-------------------|---------------|------------------|
| К37 R17 | | 200 Нм | |
| 6832 | 0.20 | 200 | 5640 |
| 5922 | 0.24 | 200 | 5640 |
| 5491 | 0.25 | 200 | 5640 |
| 4759 | 0.29 | 200 | 5640 |
| 4160 | 0.34 | 200 | 5640 |
| 3845 | 0.38 | 200 | 5640 |
| 3205 | 0.44 | 200 | 5640 |
| 2801 | 0.50 | 200 | 5640 |
| 2454 | 0.57 | 200 | 5640 |
| 2166 | 0.65 | 200 | 5640 |
| 1891 | 0.74 | 200 | 5640 |
| 1660 | 0.84 | 200 | 5640 |
| 1466 | 0.85 | 200 | 5640 |
| 1288 | 1.1 | 200 | 5640 |
| 1138 | 1.2 | 200 | 5640 |
| 998 | 1.4 | 200 | 5640 |
| 876 | 1.6 | 200 | 5640 |
| 781 | 1.8 | 200 | 5640 |
| 671 | 2.1 | 200 | 5640 |
| 585 | 2.4 | 200 | 5640 |
| 512 | 2.7 | 200 | 5640 |
| 451 | 3.1 | 200 | 5640 |
| 398 | 3.5 | 200 | 5640 |
| 346 | 4.0 | 200 | 5640 |
| 304 | 4.6 | 200 | 5640 |
| 267 | 5.2 | 200 | 5640 |
| 234 | 6.0 | 200 | 5640 |
| 205 | 6.8 | 200 | 5640 |
| 181 | 7.7 | 200 | 5640 |
| 180 | 8.8 | 200 | 5640 |
| 136 | 10 | 200 | 5640 |
| 127 | 11 | 200 | 5640 |
| 110 | 13 | 200 | 5640 |
| 96 | 15 | 200 | 5640 |

| i | n_2 [об/мин] | M [Нм] | F_{r_2} [Н] |
|----------------|-------------------|--------------|------------------|
| К47 R37 | | 400Нм | |
| 10138 | 0.14 | 400 | 5920 |
| 8534 | 0.16 | 400 | 5920 |
| 7662 | 0.18 | 400 | 5920 |
| 8828 | 0.21 | 400 | 5920 |
| 5883 | 0.23 | 400 | 5920 |
| 5159 | 0.27 | 400 | 5920 |
| 4601 | 0.30 | 400 | 5920 |
| 3940 | 0.36 | 400 | 5920 |
| 3477 | 0.40 | 400 | 5920 |
| 3043 | 0.46 | 400 | 5920 |
| 2733 | 0.51 | 400 | 5920 |
| 2354 | 0.59 | 400 | 5920 |
| 2083 | 0.68 | 400 | 5920 |
| 1819 | 0.77 | 400 | 5920 |
| 1586 | 0.88 | 400 | 5920 |
| 1388 | 1.0 | 400 | 5920 |
| 1222 | 1.1 | 400 | 5920 |
| 1097 | 1.3 | 400 | 5920 |
| 945 | 1.5 | 400 | 5920 |
| 831 | 1.7 | 400 | 5920 |
| 718 | 1.9 | 400 | 5920 |
| 639 | 2.2 | 400 | 5920 |
| 552 | 2.5 | 400 | 5920 |
| 485 | 2.8 | 400 | 5920 |
| 428 | 3.3 | 400 | 5920 |
| 375 | 3.7 | 400 | 5920 |
| 327 | 4.3 | 400 | 5920 |
| 289 | 4.8 | 400 | 5920 |
| 256 | 5.5 | 400 | 5920 |
| 225 | 6.2 | 400 | 5920 |
| 188 | 7.1 | 400 | 5920 |
| 171 | 8.2 | 400 | 5920 |
| 153 | 9.2 | 400 | 5920 |
| 131 | 11 | 400 | 5920 |
| 112 | 13 | 400 | 5920 |
| 99 | 14 | 400 | 5920 |
| 94 | 15 | 400 | 5920 |

| i | n_2 [об/мин] | M [Нм] | F_{r_2} [Н] |
|----------------|-------------------|---------------|------------------|
| К57 R37 | | 600 Нм | |
| 12169 | 0.12 | 600 | 7470 |
| 11162 | 0.13 | 600 | 7470 |
| 9503 | 0.15 | 600 | 7470 |
| 8547 | 0.16 | 600 | 7470 |
| 7277 | 0.19 | 600 | 7470 |
| 6478 | 0.22 | 600 | 7470 |
| 5662 | 0.25 | 600 | 7470 |
| 5033 | 0.28 | 600 | 7470 |
| 4340 | 0.32 | 600 | 7470 |
| 3854 | 0.36 | 600 | 7470 |
| 3390 | 0.41 | 600 | 7470 |
| 2924 | 0.48 | 600 | 7470 |
| 2593 | 0.54 | 600 | 7470 |
| 2249 | 0.62 | 600 | 7470 |
| 1986 | 0.70 | 600 | 7470 |
| 1743 | 0.80 | 600 | 7470 |
| 1539 | 0.91 | 600 | 7470 |
| 1354 | 1.0 | 600 | 7470 |
| 1174 | 1.2 | 600 | 7470 |
| 1036 | 1.4 | 600 | 7470 |
| 906 | 1.5 | 600 | 7470 |
| 806 | 1.7 | 600 | 7470 |
| 699 | 2.0 | 600 | 7470 |
| 615 | 2.3 | 600 | 7470 |
| 544 | 2.6 | 600 | 7470 |
| 473 | 3.0 | 600 | 7470 |
| 421 | 3.3 | 600 | 7470 |
| 362 | 3.9 | 600 | 7470 |
| 319 | 4.4 | 600 | 7470 |
| 280 | 5.0 | 600 | 7470 |
| 246 | 5.7 | 600 | 7470 |
| 215 | 6.5 | 600 | 7470 |
| 192 | 7.3 | 600 | 7470 |
| 166 | 8.4 | 600 | 7470 |
| 145 | 9.7 | 600 | 7470 |
| 129 | 11 | 600 | 7470 |
| 111 | 13 | 600 | 7470 |
| 97 | 14 | 600 | 7470 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|----------------|----------------------------|---------------|------------------------|
| К67 R37 | | 820 Нм | |
| 12139 | 0.12 | 820 | 10300 |
| 11134 | 0.13 | 820 | 10300 |
| 9479 | 0.15 | 820 | 10300 |
| 8173 | 0.17 | 820 | 10300 |
| 7259 | 0.19 | 820 | 10300 |
| 6482 | 0.22 | 820 | 10300 |
| 5648 | 0.25 | 820 | 10300 |
| 4846 | 0.29 | 820 | 10300 |
| 4329 | 0.32 | 820 | 10300 |
| 3750 | 0.37 | 820 | 10300 |
| 3315 | 0.42 | 820 | 10300 |
| 2917 | 0.48 | 820 | 10300 |
| 2532 | 0.55 | 820 | 10300 |
| 2244 | 0.62 | 820 | 10300 |
| 1981 | 0.71 | 820 | 10300 |
| 1739 | 0.81 | 820 | 10300 |
| 1535 | 0.91 | 820 | 10300 |
| 1351 | 1.0 | 820 | 10300 |
| 1171 | 1.2 | 820 | 10300 |
| 1034 | 1.4 | 820 | 10300 |
| 903 | 1.6 | 820 | 10300 |
| 793 | 1.8 | 820 | 10300 |
| 697 | 2.0 | 820 | 10300 |
| 613 | 2.3 | 820 | 10300 |
| 542 | 2.6 | 820 | 10300 |
| 471 | 3.0 | 820 | 10300 |
| 420 | 3.3 | 820 | 10300 |
| 361 | 3.9 | 820 | 10300 |
| 323 | 4.3 | 820 | 10300 |
| 279 | 5.0 | 820 | 10300 |
| 246 | 5.7 | 820 | 10300 |
| 217 | 6.5 | 820 | 10300 |
| 191 | 7.3 | 820 | 10300 |
| 166 | 8.4 | 820 | 10300 |
| 144 | 9.7 | 820 | 10300 |
| 122 | 11 | 820 | 10300 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|----------------|----------------------------|----------------|------------------------|
| К77 R37 | | 1550 Нм | |
| 15310 | 0.09 | 1550 | 15400 |
| 14043 | 0.10 | 1550 | 15400 |
| 11955 | 0.12 | 1550 | 15400 |
| 10217 | 0.14 | 1550 | 15400 |
| 8809 | 0.16 | 1550 | 15400 |
| 7528 | 0.19 | 1550 | 15400 |
| 6606 | 0.21 | 1550 | 15400 |
| 5774 | 0.24 | 1550 | 15400 |
| 5089 | 0.28 | 1550 | 15400 |
| 4489 | 0.31 | 1550 | 15400 |
| 3961 | 0.35 | 1550 | 15400 |
| 3485 | 0.40 | 1550 | 15400 |
| 2901 | 0.48 | 1550 | 15400 |
| 2717 | 0.52 | 1550 | 15400 |
| 2370 | 0.59 | 1550 | 15400 |
| 2050 | 0.68 | 1550 | 15400 |
| 1772 | 0.79 | 1550 | 15400 |
| 1514 | 0.92 | 1550 | 15400 |
| 1388 | 1.0 | 1550 | 15400 |
| 1218 | 1.1 | 1550 | 15400 |
| 1053 | 1.3 | 1550 | 15400 |
| 924 | 1.5 | 1550 | 15400 |
| 815 | 1.7 | 1550 | 15400 |
| 709 | 2.0 | 1550 | 15400 |
| 622 | 2.3 | 1550 | 15400 |
| 552 | 2.5 | 1550 | 15400 |
| 485 | 2.9 | 1550 | 15400 |
| 428 | 3.3 | 1550 | 15400 |
| 367 | 3.8 | 1550 | 15400 |
| 328 | 4.3 | 1550 | 15400 |
| 290 | 4.8 | 1550 | 15400 |
| 252 | 5.6 | 1550 | 15400 |
| 221 | 6.3 | 1550 | 15400 |
| 195 | 7.2 | 1550 | 15400 |
| 175 | 8.0 | 1550 | 15400 |
| 154 | 9.1 | 1550 | 15400 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|----------------|----------------------------|----------------|------------------------|
| К87 R57 | | 2700 Нм | |
| 14829 | 0.09 | 2700 | 27300 |
| 13168 | 0.11 | 2700 | 27300 |
| 11737 | 0.12 | 2700 | 27300 |
| 10217 | 0.14 | 2700 | 27300 |
| 9073 | 0.15 | 2700 | 27300 |
| 7854 | 0.18 | 2700 | 27300 |
| 6832 | 0.20 | 2700 | 27300 |
| 5930 | 0.24 | 2700 | 27300 |
| 5240 | 0.27 | 2700 | 27300 |
| 4562 | 0.31 | 2700 | 27300 |
| 4037 | 0.35 | 2700 | 27300 |
| 3609 | 0.39 | 2700 | 27300 |
| 3107 | 0.45 | 2700 | 27300 |
| 2728 | 0.51 | 2700 | 27300 |
| 2371 | 0.59 | 2700 | 27300 |
| 2088 | 0.67 | 2700 | 27300 |
| 1854 | 0.76 | 2700 | 27300 |
| 1657 | 0.84 | 2700 | 27300 |
| 1415 | 0.99 | 2700 | 27300 |
| 1229 | 1.1 | 2700 | 27300 |
| 1078 | 1.3 | 2700 | 27300 |
| 951 | 1.6 | 2700 | 27300 |
| 837 | 1.7 | 2700 | 27300 |
| 726 | 1.9 | 2700 | 27300 |
| 638 | 2.2 | 2700 | 27300 |
| 562 | 2.5 | 2700 | 27300 |
| 474 | 3.0 | 2700 | 27300 |
| 426 | 3.3 | 2700 | 27300 |
| 373 | 3.8 | 2700 | 27300 |
| 330 | 4.2 | 2700 | 27300 |
| 294 | 4.8 | 2700 | 27300 |
| 250 | 5.6 | 2700 | 27300 |
| 236 | 5.9 | 2700 | 27300 |
| 201 | 7.0 | 2700 | 27300 |
| 183 | 7.7 | 2700 | 27300 |
| 158 | 8.8 | 2700 | 27300 |
| 141 | 9.9 | 2700 | 27400 |

| i | n_2 [об/мин] | M [Нм] | F_{r_2} [Н] |
|----------------|-------------------|----------------|------------------|
| К97 R57 | | 4300 Нм | |
| 18091 | 0.08 | 4300 | 40000 |
| 16666 | 0.08 | 4300 | 40000 |
| 14897 | 0.09 | 4300 | 40000 |
| 13182 | 0.11 | 4300 | 40000 |
| 11677 | 0.12 | 4300 | 40000 |
| 10317 | 0.14 | 4300 | 40000 |
| 9083 | 0.15 | 4300 | 40000 |
| 8054 | 0.17 | 4300 | 40000 |
| 6970 | 0.20 | 4300 | 40000 |
| 6027 | 0.23 | 4300 | 40000 |
| 5391 | 0.26 | 4300 | 40000 |
| 4669 | 0.30 | 4300 | 40000 |
| 4082 | 0.34 | 4300 | 40000 |
| 3583 | 0.39 | 4300 | 40000 |
| 3108 | 0.45 | 4300 | 40000 |
| 2757 | 0.51 | 4300 | 40000 |
| 2419 | 0.58 | 4300 | 40000 |
| 2123 | 0.66 | 4300 | 40000 |
| 1858 | 0.75 | 4300 | 40000 |
| 1625 | 0.86 | 4300 | 40000 |
| 1430 | 0.98 | 4300 | 40000 |
| 1261 | 1.1 | 4300 | 40000 |
| 1102 | 1.3 | 4300 | 40000 |
| 957 | 1.5 | 4300 | 40000 |
| 855 | 1.6 | 4300 | 40000 |
| 743 | 1.9 | 4300 | 40000 |
| 652 | 2.1 | 4300 | 40000 |
| 573 | 2.4 | 4300 | 40000 |
| 504 | 2.8 | 4300 | 40000 |
| 437 | 3.2 | 4300 | 40000 |
| 382 | 3.7 | 4300 | 40000 |
| 342 | 4.1 | 4300 | 40000 |
| 305 | 4.6 | 4300 | 40000 |
| 258 | 5.4 | 4300 | 40000 |
| 232 | 6.0 | 4300 | 40000 |
| 100 | 7.0 | 4300 | 40000 |

| i | n_2 [об/мин] | M [Нм] | F_{r_2} [Н] |
|-----------------|-------------------|----------------|------------------|
| К107 R77 | | 8000 Нм | |
| 14311 | 0.10 | 8000 | 65000 |
| 12211 | 0.11 | 8000 | 65000 |
| 10677 | 0.13 | 8000 | 65000 |
| 9524 | 0.15 | 8000 | 65000 |
| 8328 | 0.17 | 8000 | 65000 |
| 7270 | 0.19 | 8000 | 65000 |
| 6184 | 0.23 | 8000 | 65000 |
| 5662 | 0.25 | 8000 | 65000 |
| 5138 | 0.27 | 8000 | 65000 |
| 4359 | 0.32 | 8000 | 65000 |
| 3810 | 0.37 | 8000 | 65000 |
| 3358 | 0.42 | 8000 | 65000 |
| 2977 | 0.47 | 8000 | 65000 |
| 2599 | 0.54 | 8000 | 65000 |
| 2286 | 0.61 | 8000 | 65000 |
| 1939 | 0.72 | 8000 | 65000 |
| 1713 | 0.82 | 8000 | 65000 |
| 1554 | 0.90 | 8000 | 65000 |
| 1336 | 1.0 | 8000 | 65000 |
| 1166 | 1.2 | 8000 | 65000 |
| 1030 | 1.4 | 8000 | 65000 |
| 904 | 1.5 | 8000 | 65000 |
| 793 | 1.8 | 8000 | 65000 |
| 696 | 2.0 | 8000 | 65000 |
| 615 | 2.3 | 8000 | 65000 |
| 522 | 2.7 | 8000 | 65000 |
| 461 | 3.0 | 8000 | 65000 |
| 408 | 3.4 | 8000 | 65000 |
| 364 | 3.8 | 8000 | 65000 |
| 318 | 4.4 | 8000 | 65000 |
| 286 | 4.9 | 8000 | 65000 |
| 251 | 5.6 | 8000 | 65000 |
| 222 | 6.3 | 8000 | 65000 |
| 196 | 7.1 | 8000 | 65000 |
| 174 | 8.0 | 7200 | 65000 |
| 154 | 9.1 | 7200 | 65000 |
| 140 | 10 | 7200 | 65000 |

| i | n_2 [об/мин] | M [Нм] | F_{r_2} [Н] |
|-----------------|-------------------|-----------------|------------------|
| К127 R77 | | 13000 Нм | |
| 17550 | 0.08 | 13000 | 79200 |
| 16006 | 0.09 | 13000 | 79200 |
| 14975 | 0.09 | 13000 | 79200 |
| 12440 | 0.11 | 13000 | 79200 |
| 10915 | 0.13 | 13000 | 79200 |
| 9819 | 0.14 | 13000 | 79200 |
| 8443 | 0.17 | 13000 | 79200 |
| 7482 | 0.19 | 13000 | 79200 |
| 6565 | 0.21 | 13000 | 79200 |
| 5804 | 0.24 | 13000 | 79200 |
| 5027 | 0.28 | 13000 | 79200 |
| 4423 | 0.32 | 13000 | 79200 |
| 3889 | 0.36 | 13000 | 79200 |
| 3311 | 0.42 | 13000 | 79200 |
| 3009 | 0.47 | 13000 | 79200 |
| 2607 | 0.54 | 13000 | 79200 |
| 2288 | 0.62 | 13000 | 79200 |
| 1926 | 0.73 | 13000 | 79200 |
| 1767 | 0.80 | 13000 | 79200 |
| 1541 | 0.91 | 13000 | 79200 |
| 1342 | 1.0 | 13000 | 79200 |
| 1177 | 1.2 | 13000 | 79200 |
| 1025 | 1.4 | 13000 | 79200 |
| 899 | 1.6 | 13000 | 79200 |
| 790 | 1.8 | 13000 | 79200 |
| 704 | 2.0 | 13000 | 79200 |
| 610 | 2.3 | 13000 | 79200 |
| 549 | 2.6 | 13000 | 79200 |
| 477 | 2.9 | 13000 | 79200 |
| 418 | 3.3 | 13000 | 79200 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|--------------------------|----------------------------|-----------|------------------------|
| K127 R87 13000 Нм | | | |
| 536 | 2.6 | 13000 | 79200 |
| 473 | 3.0 | 13000 | 79200 |
| 418 | 3.3 | 13000 | 79200 |
| 367 | 3.8 | 13000 | 79200 |
| 330 | 4.2 | 13000 | 79200 |
| 287 | 4.9 | 13000 | 79200 |
| 253 | 5.5 | 13000 | 79200 |
| 213 | 6.6 | 13000 | 79200 |
| 200 | 7.0 | 13000 | 79700 |
| 166 | 8.4 | 13000 | 79700 |
| 147 | 9.5 | 13000 | 79700 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|--------------------------|----------------------------|-----------|------------------------|
| K157 R97 18000 Нм | | | |
| 17679 | 0.08 | 18000 | 112200 |
| 15729 | 0.09 | 18000 | 112200 |
| 14721 | 0.10 | 18000 | 112200 |
| 13097 | 0.11 | 18000 | 112200 |
| 11368 | 0.12 | 18000 | 112200 |
| 10114 | 0.14 | 18000 | 112200 |
| 8718 | 0.16 | 18000 | 112200 |
| 7734 | 0.18 | 18000 | 112200 |
| 6881 | 0.20 | 18000 | 112200 |
| 5931 | 0.24 | 18000 | 112200 |
| 5074 | 0.28 | 18000 | 112200 |
| 4514 | 0.31 | 18000 | 112200 |
| 3979 | 0.35 | 18000 | 112200 |
| 3516 | 0.40 | 18000 | 112200 |
| 3051 | 0.46 | 18000 | 112200 |
| 2610 | 0.54 | 18000 | 112200 |
| 2322 | 0.60 | 18000 | 112200 |
| 2029 | 0.69 | 18000 | 112200 |
| 1805 | 0.78 | 18000 | 112200 |
| 1659 | 0.84 | 18000 | 112200 |
| 1365 | 1.0 | 18000 | 112200 |
| 1229 | 1.1 | 18000 | 112200 |
| 1093 | 1.3 | 18000 | 112200 |
| 942 | 1.5 | 18000 | 112200 |
| 854 | 1.6 | 18000 | 112200 |
| 756 | 1.9 | 18000 | 112200 |
| 661 | 2.1 | 18000 | 112200 |
| 567 | 2.5 | 18000 | 112200 |
| 504 | 2.8 | 18000 | 112200 |
| 434 | 3.2 | 18000 | 112200 |
| 379 | 3.7 | 18000 | 112200 |
| 333 | 4.2 | 18000 | 112200 |
| 291 | 4.8 | 18000 | 112200 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|--------------------------|----------------------------|-----------|------------------------|
| K157 R107 18000Нм | | | |
| 385 | 3.6 | 18000 | 112200 |
| 325 | 4.3 | 18000 | 111200 |
| 299 | 4.7 | 18000 | 111200 |
| 253 | 5.5 | 18000 | 112200 |
| 230 | 6.1 | 18000 | 111200 |
| 213 | 6.6 | 18000 | 111200 |
| 187 | 7.5 | 18000 | 112200 |
| 157 | 8.9 | 18000 | 111200 |
| 122 | 11 | 18000 | 106500 |
| 107 | 13 | 18000 | 100700 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|-------------------------|----------------------------|-----------|------------------------|
| K167 R97 32000Нм | | | |
| 19723 | 0.07 | 32000 | 150000 |
| 17406 | 0.08 | 32000 | 150000 |
| 15000 | 0.09 | 32000 | 150000 |
| 13238 | 0.11 | 32000 | 150000 |
| 11573 | 0.12 | 32000 | 150000 |
| 10264 | 0.14 | 32000 | 150000 |
| 8628 | 0.16 | 32000 | 150000 |
| 6562 | 0.21 | 32000 | 150000 |
| 5355 | 0.26 | 32000 | 150000 |
| 4788 | 0.29 | 32000 | 150000 |
| 4079 | 0.34 | 32000 | 150000 |
| 3376 | 0.41 | 32000 | 150000 |
| 2755 | 0.51 | 32000 | 150000 |
| 2263 | 0.62 | 32000 | 150000 |
| 2182 | 0.64 | 32000 | 150000 |
| 1704 | 0.82 | 32000 | 150000 |
| 1408 | 0.99 | 32000 | 150000 |
| 1296 | 1.1 | 32000 | 150000 |
| 1101 | 1.3 | 32000 | 150000 |
| 944 | 1.5 | 32000 | 150000 |
| 843 | 1.7 | 32000 | 150000 |
| 757 | 1.8 | 32000 | 150000 |
| 632 | 2.2 | 32000 | 150000 |
| 561 | 2.5 | 32000 | 150000 |
| 481 | 2.9 | 32000 | 150000 |
| 423 | 3.3 | 32000 | 150000 |
| 369 | 3.8 | 32000 | 150000 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|--------------------------|----------------------------|-----------|------------------------|
| K167 R107 32000Нм | | | |
| 318 | 4.4 | 32000 | 150000 |
| 278 | 5.0 | 32000 | 150000 |
| 244 | 5.7 | 32000 | 150000 |
| 213 | 6.6 | 32000 | 150000 |
| 206 | 6.8 | 32000 | 150000 |
| 180 | 7.8 | 32000 | 150000 |
| 160 | 8.8 | 32000 | 150000 |
| 135 | 10 | 32000 | 150000 |
| 118 | 12 | 32000 | 150000 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|------------------------|----------------------------|-----------|------------------------|
| K187 R97 5000Нм | | | |
| 32625 | 0.04 | 50000 | 190000 |
| 27165 | 0.05 | 50000 | 190000 |
| 24353 | 0.06 | 50000 | 190000 |
| 19144 | 0.07 | 50000 | 190000 |
| 16978 | 0.08 | 50000 | 190000 |
| 14272 | 0.10 | 50000 | 190000 |
| 13116 | 0.11 | 50000 | 190000 |
| 11647 | 0.12 | 50000 | 190000 |
| 10413 | 0.13 | 50000 | 190000 |
| 9363 | 0.15 | 50000 | 190000 |
| 8126 | 0.17 | 50000 | 190000 |
| 7343 | 0.19 | 50000 | 190000 |
| 6747 | 0.21 | 50000 | 190000 |
| 5991 | 0.23 | 50000 | 190000 |
| 5358 | 0.26 | 50000 | 190000 |
| 4817 | 0.29 | 50000 | 190000 |
| 4370 | 0.32 | 50000 | 190000 |
| 3609 | 0.39 | 50000 | 190000 |
| 3062 | 0.46 | 50000 | 190000 |
| 2818 | 0.50 | 50000 | 190000 |
| 2519 | 0.56 | 50000 | 190000 |
| 2268 | 0.62 | 50000 | 190000 |
| 2054 | 0.68 | 50000 | 190000 |
| 1821 | 0.77 | 50000 | 190000 |
| 1605 | 0.87 | 50000 | 190000 |
| 1395 | 1.0 | 50000 | 190000 |
| 1196 | 1.2 | 50000 | 190000 |
| 1046 | 1.3 | 50000 | 190000 |
| 945 | 1.5 | 50000 | 190000 |
| 738 | 1.9 | 50000 | 190000 |
| 621 | 2.3 | 50000 | 190000 |
| 527 | 2.7 | 50000 | 190000 |

| i | n ₂ [об/мин] | M [Нм] | Fr ₂ [Н] |
|-------------------------|----------------------------|-----------|------------------------|
| K187 R107 5000Нм | | | |
| 835 | 1.7 | 50000 | 190000 |
| 729 | 1.9 | 50000 | 190000 |
| 622 | 2.3 | 50000 | 190000 |
| 520 | 2.7 | 50000 | 190000 |
| 454 | 3.1 | 50000 | 190000 |
| 355 | 3.9 | 50000 | 190000 |
| 261 | 5.4 | 50000 | 190000 |
| 221 | 6.3 | 50000 | 190000 |
| 193 | 7.3 | 50000 | 190000 |
| 163 | 8.6 | 50000 | 190000 |

| n2 [1/мин] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|-----------------|---------|-------|---------|------|----------------------|
| 0.12 кВт | | | | | |
| 0.08 | 11800 | 17550 | 79800 | 1.10 | |
| 0.09 | 10700 | 16006 | 80400 | 1.20 | |
| 0.09 | 9880 | 14975 | 80700 | 1.30 | K 127 R67 ESQ 63A4 |
| 0.11 | 8010 | 12440 | 81500 | 1.60 | KF 127 R67 ESQ 63A4 |
| 0.13 | 6920 | 10915 | 81800 | 1.90 | KA 127 R67 ESQ 63A4 |
| 0.14 | 6320 | 9819 | 82000 | 2.1 | KAF 127 R67 ESQ 63A4 |
| 0.16 | 5220 | 8443 | 82300 | 2.5 | |
| 0.18 | 4820 | 7482 | 82300 | 2.7 | |
| 0.10 | 9590 | 14311 | 65000 | 0.85 | |
| 0.11 | 8060 | 12211 | 65000 | 1.00 | |
| 0.13 | 6930 | 10677 | 65000 | 1.15 | |
| 0.14 | 6280 | 9524 | 65000 | 1.25 | K 107 R77 ESQ 63A4 |
| 0.17 | 5410 | 8328 | 65000 | 1.50 | KF 107 R77 ESQ 63A4 |
| 0.19 | 4720 | 7270 | 65000 | 1.70 | KA 107 R77 ESQ 63A4 |
| 0.22 | 3760 | 6184 | 65000 | 2.1 | KAF 107 R77 ESQ 63A4 |
| 0.24 | 3320 | 5662 | 65000 | 2.4 | |
| 0.27 | 3020 | 5138 | 65000 | 2.7 | |
| 0.32 | 2700 | 4359 | 65000 | 3.0 | |
| 0.17 | 5310 | 8054 | 39500 | 0.80 | |
| 0.20 | 4350 | 6970 | 40000 | 1.00 | |
| 0.23 | 3890 | 6027 | 40000 | 1.10 | |
| 0.26 | 3560 | 5391 | 40000 | 1.20 | K 97 R57 ESQ 63A4 |
| 0.30 | 2950 | 4669 | 40000 | 1.45 | KF 97 R57 ESQ 63A4 |
| 0.34 | 2640 | 4082 | 40000 | 1.65 | KA 97 R57 ESQ 63A4 |
| 0.39 | 2320 | 3583 | 40000 | 1.85 | KAF 97 R57 ESQ 63A4 |
| 0.44 | 2040 | 3108 | 40000 | 2.1 | |
| 0.50 | 1720 | 2757 | 40000 | 2.5 | |
| 0.57 | 1580 | 2419 | 40000 | 2.7 | |
| 0.65 | 1370 | 2123 | 40000 | 3.2 | K 97 R57 ESQ 63A4 |
| 0.74 | 1220 | 1856 | 40000 | 3.5 | KF 97 R57 ESQ 63A4 |
| 0.85 | 1000 | 1625 | 40000 | 4.3 | KA 97 R57 ESQ 63A4 |
| 0.96 | 860 | 1430 | 40000 | 5.0 | KAF 97 R57 ESQ 63A4 |
| 1.1 | 830 | 1261 | 40000 | 5.2 | |
| 1.2 | 725 | 1102 | 40000 | 5.9 | |
| 0.26 | 3380 | 5240 | 26300 | 0.80 | |
| 0.30 | 2850 | 4562 | 27100 | 0.95 | |
| 0.34 | 2610 | 4037 | 27400 | 1.05 | K 87 R57 ESQ 63A4 |
| 0.38 | 2330 | 3609 | 27700 | 1.15 | KF 87 R57 ESQ 63A4 |
| 0.44 | 1990 | 3107 | 28100 | 1.35 | KA 87 R57 ESQ 63A4 |
| 0.51 | 1700 | 2728 | 28300 | 1.60 | KAF 87 R57 ESQ 63A4 |
| 0.58 | 1500 | 2371 | 28500 | 1.80 | |
| 0.66 | 1380 | 2088 | 28600 | 1.95 | |
| 0.74 | 1220 | 1854 | 28700 | 2.2 | |
| 0.83 | 1090 | 1657 | 28700 | 2.5 | |
| 0.97 | 930 | 1415 | 28800 | 2.9 | K 87 R57 ESQ 63A4 |
| 1.1 | 800 | 1229 | 28900 | 3.4 | KF 87 R57 ESQ 63A4 |
| 1.3 | 695 | 1078 | 28900 | 3.9 | KA 87 R57 ESQ 63A4 |
| 1.5 | 585 | 951 | 29000 | 4.6 | KAF 87 R57 ESQ 63A4 |
| 1.6 | 505 | 837 | 29000 | 5.4 | |
| 1.9 | 435 | 726 | 29000 | 6.2 | |
| 0.51 | 1790 | 2718 | 13400 | 0.85 | K 77 R37 ESQ 63A4 |
| | | | | | KF 77 R37 ESQ 63A4 |
| | | | | | KA 77 R37 ESQ 63A4 |
| | | | | | KAF 77 R37 ESQ 63A4 |
| 0.58 | 1510 | 2370 | 15700 | 1.05 | |
| 0.67 | 1380 | 2050 | 16500 | 1.10 | |
| 0.78 | 1180 | 1772 | 17500 | 1.30 | |
| 0.91 | 1010 | 1514 | 18300 | 1.55 | |
| 0.99 | 920 | 1388 | 18600 | 1.70 | K 77 R37 ESQ 63A4 |
| 1.1 | 810 | 1218 | 19000 | 1.90 | KF 77 R37 ESQ 63A4 |
| 1.3 | 710 | 1053 | 19200 | 2.2 | KA 77 R37 ESQ 63A4 |
| 1.5 | 620 | 924 | 19500 | 2.5 | KAF 77 R37 ESQ 63A4 |
| 1.7 | 550 | 815 | 19600 | 2.8 | |
| 2.0 | 440 | 709 | 19800 | 3.5 | |
| 2.2 | 385 | 622 | 19900 | 4.0 | |

| n2 [1/мин] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|---------------------|
| 1.0 | 930 | 1351 | 9230 | 0.90 | |
| 1.2 | 795 | 1171 | 10500 | 1.05 | |
| 1.3 | 695 | 1034 | 11300 | 1.20 | |
| 1.5 | 585 | 903 | 12000 | 1.40 | |
| 1.7 | 545 | 793 | 12200 | 1.50 | |
| 2.0 | 440 | 697 | 12700 | 1.85 | |
| 2.2 | 390 | 613 | 12900 | 2.1 | K 67 R37 ESQ 63A4 |
| 2.5 | 340 | 542 | 13000 | 2.4 | KF 67 R37 ESQ 63A4 |
| 2.9 | 315 | 471 | 13000 | 2.6 | KA 67 R37 ESQ 63A4 |
| 3.3 | 265 | 420 | 13000 | 3.1 | KAF 67 R37 ESQ 63A4 |
| 3.8 | 235 | 361 | 13000 | 3.5 | |
| 4.3 | 210 | 323 | 13000 | 3.9 | |
| 4.9 | 176 | 279 | 13000 | 4.7 | |
| 5.6 | 155 | 246 | 13000 | 5.3 | |
| 6.3 | 134 | 217 | 13000 | 6.1 | |
| 1.5 | 585 | 906 | 7750 | 1.05 | |
| 1.7 | 525 | 806 | 8220 | 1.15 | |
| 2.0 | 445 | 699 | 8690 | 1.35 | |
| 2.2 | 390 | 615 | 8930 | 1.55 | |
| 2.5 | 340 | 544 | 9120 | 1.75 | |
| 2.9 | 310 | 473 | 9250 | 1.95 | |
| 3.3 | 265 | 421 | 9420 | 2.3 | K 57 R37 ESQ 63A4 |
| 3.8 | 235 | 362 | 9510 | 2.5 | KF 57 R37 ESQ 63A4 |
| 4.3 | 210 | 319 | 9610 | 2.9 | KA 57 R37 ESQ 63A4 |
| 4.9 | 176 | 280 | 9710 | 3.4 | KAF 57 R37 ESQ 63A4 |
| 5.6 | 155 | 246 | 9770 | 3.9 | |
| 6.4 | 135 | 215 | 9830 | 4.4 | |
| 7.2 | 122 | 192 | 9860 | 4.9 | |
| 2.2 | 430 | 639 | 2520 | 0.95 | |
| 2.5 | 370 | 552 | 6350 | 1.10 | |
| 2.8 | 315 | 495 | 6930 | 1.25 | K 47 R37 ESQ 63A4 |
| 3.2 | 280 | 426 | 7240 | 1.45 | KF 47 R37 ESQ 63A4 |
| 3.7 | 235 | 375 | 7560 | 1.70 | KA 47 R37 ESQ 63A4 |
| 4.2 | 215 | 327 | 7670 | 1.85 | KAF 47 R37 ESQ 63A4 |
| 4.8 | 189 | 289 | 7830 | 2.1 | |
| 4.0 | 235 | 346 | 4840 | 0.85 | |
| 4.5 | 200 | 304 | 5640 | 1.00 | |
| 5.2 | 182 | 267 | 5830 | 1.10 | K 37 R17 ESQ 63A4 |
| 5.9 | 157 | 234 | 6060 | 1.25 | KF 37 R17 ESQ 63A4 |
| 6.7 | 138 | 205 | 6220 | 1.45 | KA 37 R17 ESQ 63A4 |
| 7.6 | 120 | 181 | 6330 | 1.65 | KAF 37 R17 ESQ 63A4 |
| 8.6 | 105 | 160 | 6420 | 1.90 | |
| 10 | 88 | 136 | 6500 | 2.3 | |
| 6.2 | 184 | 144.79 | 13000 | 4.4 | K 67 ESQ 63B6 |
| | | | | | KF 67 ESQ 63B6 |
| | | | | | KA 67 ESQ 63B6 |
| | | | | | KAF 67 ESQ 63B6 |
| 6.2 | 185 | 145.14 | 9680 | 3.2 | |
| 7.3 | 158 | 123.85 | 9760 | 3.8 | K 57 ESQ 63B6 |
| 8.3 | 138 | 108.29 | 9820 | 4.3 | KF 57 ESQ 63B6 |
| 8.8 | 131 | 102.88 | 9840 | 4.6 | KA 57 ESQ 63B6 |
| 10 | 115 | 90.26 | 9880 | 5.2 | KAF 57 ESQ 63B6 |
| 12 | 98 | 76.56 | 9930 | 6.2 | |
| 9.5 | 121 | 145.14 | 9870 | 5.0 | |
| 11 | 103 | 123.85 | 9920 | 5.8 | K 57 ESQ 63A4 |
| 13 | 90 | 108.29 | 9950 | 6.7 | KF 57 ESQ 63A4 |
| 13 | 85 | 102.88 | 9960 | 7.0 | KA 57 ESQ 63A4 |
| 15 | 75 | 90.26 | 9990 | 8.0 | KAF 57 ESQ 63A4 |
| 6.8 | 168 | 131.87 | 7930 | 2.4 | K 47 ESQ 63B6 |
| | | | | | KF 47 ESQ 63B6 |
| | | | | | KA 47 ESQ 63B6 |
| | | | | | KAF 47 ESQ 63B6 |
| 7.4 | 155 | 121.48 | 7990 | 2.6 | |
| 8.6 | 133 | 104.37 | 8070 | 3.0 | K 47 ESQ 63A4 |
| 10 | 110 | 131.87 | 8140 | 3.7 | KF 47 ESQ 63A4 |
| | | | | | KA 47 ESQ 63A4 |
| | | | | | KAF 47 ESQ 63A4 |
| 11 | 101 | 121.48 | 8170 | 4.0 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|-----------------|---------|--------|---------|------|----------------------|
| 8.5 | 136 | 106.38 | 6230 | 1.50 | K 37 ESQ 63B6 |
| 9.2 | 125 | 97.81 | 6300 | 1.60 | KF 37 ESQ 63B6 |
| 11 | 107 | 83.69 | 6410 | 1.90 | KA 37 ESQ 63B6 |
| 12 | 92 | 72.54 | 6480 | 2.2 | KAF 37 ESQ 63B6 |
| 13 | 88 | 106.38 | 6500 | 2.3 | |
| 14 | 81 | 97.81 | 6530 | 2.5 | |
| 16 | 70 | 83.69 | 6570 | 2.9 | |
| 19 | 60 | 72.54 | 6800 | 3.3 | |
| 20 | 56 | 67.80 | 6610 | 3.5 | |
| 24 | 49 | 58.60 | 6430 | 4.1 | |
| 28 | 41 | 49.79 | 6130 | 4.8 | |
| 31 | 37 | 44.46 | 5930 | 5.4 | |
| 36 | 32 | 37.97 | 5660 | 6.3 | K 37 ESQ 63A4 |
| 39 | 30 | 35.57 | 5550 | 6.8 | KF 37 ESQ 63A4 |
| 46 | 25 | 29.96 | 5270 | 8.0 | KA 37 ESQ 63A4 |
| 48 | 24 | 28.83 | 5210 | 8.4 | KAF 37 ESQ 63A4 |
| 55 | 21 | 24.99 | 4980 | 9.6 | |
| 59 | 19 | 23.36 | 4880 | 10 | |
| 68 | 17 | 20.19 | 4660 | 11 | |
| 80 | 14 | 17.15 | 4430 | 13 | |
| 90 | 13 | 15.31 | 4280 | 14 | |
| 105 | 11 | 13.08 | 4070 | 15 | |
| 114 | 10 | 12.14 | 3970 | 16 | |
| 0.18 кВт | | | | | |
| 0.09 | 16300 | 14975 | 73200 | 0.80 | |
| 0.11 | 13400 | 12440 | 79000 | 0.95 | |
| 0.12 | 11600 | 10915 | 79900 | 1.10 | |
| 0.13 | 10500 | 9819 | 80400 | 1.25 | |
| 0.16 | 8850 | 8443 | 81100 | 1.45 | K 127 R77 ESQ 63B4 |
| 0.18 | 8040 | 7482 | 81400 | 1.60 | KF 127 R77 ESQ 63B4 |
| 0.20 | 6990 | 6565 | 81800 | 1.85 | KA 127 R77 ESQ 63B4 |
| 0.23 | 5940 | 5804 | 82100 | 2.2 | KAF 127 R77 ESQ 63B4 |
| 0.26 | 5220 | 5027 | 82300 | 2.5 | |
| 0.30 | 4530 | 4423 | 82400 | 2.9 | |
| 0.34 | 3960 | 3889 | 82500 | 3.3 | |
| 0.40 | 3310 | 3311 | 82600 | 3.9 | |
| 0.16 | 8990 | 8328 | 65000 | 0.90 | |
| 0.18 | 7850 | 7270 | 65000 | 1.00 | |
| 0.21 | 6420 | 6184 | 65000 | 1.25 | |
| 0.23 | 5760 | 5662 | 65000 | 1.40 | |
| 0.26 | 5230 | 5138 | 65000 | 1.55 | K 107 R77 ESQ 63B4 |
| 0.30 | 4570 | 4359 | 65000 | 1.75 | KF 107 R77 ESQ 63B4 |
| 0.35 | 4000 | 3810 | 65000 | 2.0 | KA 107 R77 ESQ 63B4 |
| 0.39 | 3440 | 3358 | 65000 | 2.3 | KAF 107 R77 ESQ 63B4 |
| 0.44 | 3090 | 2977 | 65000 | 2.6 | |
| 0.51 | 2700 | 2599 | 65000 | 3.0 | |
| 0.58 | 2340 | 2286 | 65000 | 3.4 | |
| 0.28 | 4960 | 4669 | 39900 | 0.85 | K 97 R57 ESQ 63B4 |
| 0.32 | 4390 | 4282 | 40000 | 1.00 | KF 97 R57 ESQ 63B4 |
| 0.37 | 3860 | 3583 | 40000 | 1.10 | KA 97 R57 ESQ 63B4 |
| 0.42 | 3370 | 3108 | 40000 | 1.25 | KAF 97 R57 ESQ 63B4 |
| 0.48 | 2910 | 2757 | 40000 | 1.50 | |
| 0.55 | 2640 | 2419 | 40000 | 1.65 | |
| 0.62 | 2290 | 2123 | 40000 | 1.90 | |
| 0.71 | 2030 | 1856 | 40000 | 2.1 | |
| 0.81 | 1710 | 1625 | 40000 | 2.5 | |
| 0.92 | 1490 | 1430 | 40000 | 2.9 | K 97 R57 ESQ 63B4 |
| 1.0 | 1380 | 1261 | 40000 | 3.1 | KF 97 R57 ESQ 63B4 |
| 1.2 | 1210 | 1102 | 40000 | 3.6 | KA 97 R57 ESQ 63B4 |
| 1.4 | 1040 | 957 | 40000 | 4.1 | KAF 97 R57 ESQ 63B4 |
| 1.5 | 930 | 855 | 40000 | 4.6 | |
| 1.8 | 755 | 743 | 40000 | 5.7 | |
| 2.0 | 675 | 652 | 40000 | 6.4 | |
| 0.42 | 3330 | 3107 | 26400 | 0.80 | K 87 R57 ESQ 63B4 |
| 0.48 | 2880 | 3728 | 27100 | 0.95 | KF 87 R57 ESQ 63B4 |
| 0.56 | 2520 | 2371 | 27500 | 1.05 | KA 87 R57 ESQ 63B4 |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|---------------------|
| 0.63 | 2290 | 2088 | 27800 | 1.20 | |
| 0.71 | 2030 | 1854 | 28000 | 1.35 | |
| 0.80 | 1820 | 1857 | 28200 | 1.50 | K 87 R57 ESQ 63B4 |
| 0.93 | 1540 | 1415 | 28400 | 1.75 | KF 87 R57 ESQ 63B4 |
| 1.1 | 1340 | 1228 | 28600 | 2.0 | KA 87 R57 ESQ 63B4 |
| 1.2 | 1160 | 1078 | 28700 | 2.3 | KAF 87 R57 ESQ 63B4 |
| 1.4 | 1000 | 951 | 28800 | 2.7 | |
| 1.6 | 870 | 837 | 28800 | 3.1 | |
| 1.8 | 755 | 728 | 28900 | 3.6 | |
| 0.87 | 1670 | 1514 | 14500 | 0.95 | |
| 0.95 | 1530 | 1388 | 15500 | 1.00 | |
| 1.1 | 1340 | 1218 | 16700 | 1.15 | |
| 1.2 | 1170 | 1053 | 17600 | 1.34 | |
| 1.4 | 1030 | 824 | 18200 | 1.50 | K 77 R37 ESQ 63B4 |
| 1.6 | 910 | 815 | 18700 | 1.70 | KF 77 R37 ESQ 63B4 |
| 1.9 | 750 | 709 | 19100 | 2.1 | KA 77 R37 ESQ 63B4 |
| 2.1 | 655 | 622 | 19400 | 2.4 | KAF 77 R37 ESQ 63B4 |
| 2.4 | 590 | 552 | 19500 | 2.6 | |
| 2.7 | 515 | 485 | 19700 | 3.0 | |
| 3.1 | 455 | 428 | 19800 | 3.4 | |
| 3.6 | 400 | 367 | 19900 | 3.9 | |
| 1.5 | 980 | 903 | 5660 | 0.85 | |
| 1.7 | 890 | 793 | 9620 | 0.90 | |
| 1.9 | 745 | 697 | 10900 | 1.10 | |
| 2.2 | 655 | 613 | 11600 | 1.25 | K 67 R37 ESQ 63B4 |
| 2.4 | 580 | 542 | 12000 | 1.40 | KF 67 R37 ESQ 63B4 |
| 2.8 | 520 | 471 | 12300 | 1.60 | KA 67 R37 ESQ 63B4 |
| 3.2 | 445 | 420 | 12600 | 1.85 | KAF 67 R37 ESQ 63B4 |
| 3.7 | 395 | 361 | 12800 | 2.1 | |
| 4.1 | 350 | 323 | 13000 | 2.3 | |
| 4.7 | 295 | 279 | 13000 | 2.8 | |
| 2.2 | 660 | 615 | 5580 | 0.90 | |
| 2.4 | 580 | 544 | 7800 | 1.05 | |
| 2.8 | 515 | 473 | 8300 | 1.15 | |
| 3.1 | 450 | 421 | 8870 | 1.35 | K 57 R37 ESQ 63B4 |
| 3.6 | 395 | 362 | 8800 | 1.50 | KF 57 R37 ESQ 63B4 |
| 4.1 | 350 | 319 | 8100 | 1.75 | KA 57 R37 ESQ 63B4 |
| 4.7 | 300 | 280 | 9290 | 2.0 | KAF 57 R37 ESQ 63B4 |
| 5.4 | 260 | 218 | 9420 | 2.3 | |
| 6.1 | 230 | 215 | 9540 | 2.6 | |
| 6.9 | 205 | 182 | 9810 | 2.9 | |
| 7.9 | 178 | 166 | 9700 | 3.4 | |
| 3.5 | 400 | 375 | 5930 | 1.00 | |
| 4.0 | 360 | 327 | 6440 | 1.10 | |
| 4.6 | 315 | 289 | 6920 | 1.25 | |
| 5.2 | 275 | 256 | 7290 | 1.45 | K 47 R37 ESQ 63B4 |
| 5.9 | 245 | 225 | 7500 | 1.65 | KF 47 R37 ESQ 63B4 |
| 6.7 | 210 | 198 | 7710 | 1.90 | KA 47 R37 ESQ 63B4 |
| 7.7 | 183 | 171 | 7860 | 2.2 | KAF 47 R37 ESQ 63B4 |
| 8.6 | 164 | 153 | 7950 | 2.4 | |
| 10 | 142 | 131 | 8040 | 2.8 | |
| 6.4 | 225 | 205 | 5300 | 0.90 | |
| 7.3 | 199 | 181 | 5650 | 1.00 | K 37 R17 ESQ 63B4 |
| 8.2 | 175 | 160 | 5900 | 1.15 | KF 37 R17 ESQ 63B4 |
| 9.7 | 148 | 138 | 6410 | 1.35 | KA 37 R17 ESQ 63B4 |
| 10 | 140 | 127 | 6200 | 1.45 | KAF 37 R17 ESQ 63B4 |
| 6.0 | 285 | 144.79 | 13000 | 2.9 | K 67 D63L6 |
| 7.0 | 245 | 123.54 | 13000 | 3.4 | KF 67 D63L6 |
| 8.1 | 215 | 108.03 | 13000 | 3.8 | KA 67 D63L6 |
| 8.5 | 205 | 102.62 | 13000 | 4.0 | KAF 67 D63L6 |
| 9.1 | 189 | 144.79 | 13000 | 4.3 | K 67 ESQ 63B4 |
| 11 | 161 | 123.54 | 13000 | 5.1 | KF 67 ESQ 63B4 |
| 12 | 141 | 108.03 | 13000 | 5.8 | KA 67 ESQ 63B4 |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|----------------------|
| 6.0 | 285 | 145.14 | 9340 | 2.1 | |
| 7.0 | 245 | 123.85 | 9480 | 2.5 | K 57 D63L6 |
| 8.0 | 215 | 108.29 | 9590 | 2.8 | KF 57 D63L6 |
| 8.5 | 205 | 102.88 | 9620 | 3.0 | KA 57 D63L6 |
| 9.6 | 178 | 90.28 | 9700 | 3.4 | KAF 57 D63L6 |
| 9.1 | 189 | 145.14 | 9670 | 3.2 | |
| 11 | 161 | 123.85 | 9750 | 3.7 | K 57 ESQ 63B4 |
| 12 | 141 | 108.29 | 9810 | 4.3 | KF 57 ESQ 63B4 |
| 13 | 134 | 102.88 | 9830 | 4.5 | KA 57 ESQ 63B4 |
| 15 | 118 | 90.26 | 9880 | 5.1 | KAF 57 ESQ 63B4 |
| 17 | 100 | 76.56 | 9920 | 6.0 | |
| 6.6 | 260 | 131.87 | 7380 | 1.55 | |
| 7.2 | 240 | 121.48 | 7530 | 1.65 | K 47 D63L6 |
| 8.3 | 205 | 104.37 | 7740 | 1.95 | KF 47 D63L6 |
| 9.6 | 180 | 90.86 | 7880 | 2.2 | KA 47 D63L6 |
| 10 | 168 | 85.12 | 7930 | 2.4 | KAF 47 D63L6 |
| 10 | 172 | 131.87 | 7910 | 2.3 | |
| 11 | 158 | 121.48 | 7910 | 2.5 | K 47 ESQ 63B4 |
| 13 | 136 | 104.37 | 8080 | 2.9 | KF 47 ESQ 63B4 |
| 15 | 118 | 90.86 | 8120 | 3.4 | KA 47 ESQ 63B4 |
| 16 | 111 | 85.12 | 8140 | 3.8 | KAF 47 ESQ 63B4 |
| 8.2 | 210 | 106.38 | 5520 | 0.95 | K 37 D63L6 |
| 8.9 | 193 | 97.81 | 5710 | 1.05 | KF 37 D63L6 |
| 10 | 165 | 83.69 | 5990 | 1.20 | KA 37 D63L6 |
| 12 | 143 | 72.54 | 6170 | 1.40 | KAF 37 D63L6 |
| 12 | 139 | 106.38 | 6210 | 1.45 | |
| 14 | 127 | 97.81 | 6280 | 1.55 | |
| 16 | 109 | 83.69 | 6400 | 1.65 | |
| 18 | 95 | 72.54 | 6470 | 2.1 | |
| 19 | 88 | 67.80 | 6500 | 2.3 | |
| 23 | 76 | 58.60 | 6280 | 2.6 | |
| 27 | 65 | 49.79 | 6010 | 3.1 | |
| 30 | 58 | 44.46 | 5830 | 3.5 | |
| 35 | 49 | 37.97 | 5580 | 4.1 | |
| 37 | 46 | 35.57 | 5480 | 4.3 | K 37 ESQ 63B4 |
| 44 | 39 | 29.96 | 5220 | 5.1 | KF 37 ESQ 63B4 |
| 46 | 38 | 28.83 | 5180 | 5.3 | KA 37 ESQ 63B4 |
| 53 | 33 | 24.99 | 4950 | 6.2 | KAF 37 ESQ 63B4 |
| 57 | 30 | 23.36 | 4850 | 6.4 | |
| 65 | 26 | 20.19 | 4650 | 7.0 | |
| 77 | 22 | 17.15 | 4430 | 8.1 | |
| 86 | 20 | 15.31 | 4280 | 8.8 | |
| 101 | 17 | 13.08 | 4080 | 9.7 | |
| 109 | 16 | 12.14 | 3980 | 10 | |
| 126 | 14 | 10.49 | 3810 | 12 | |
| 148 | 12 | 8.91 | 3620 | 14 | |
| 166 | 10 | 7.96 | 3490 | 15 | |
| 0.13 | 15300 | 9819 | 75300 | 0.85 | |
| 0.15 | 13000 | 8443 | 79200 | 1.00 | |
| 0.17 | 11700 | 7482 | 79900 | 1.10 | |
| 0.20 | 10200 | 8585 | 80600 | 1.30 | K 137 R77 ESQ 63D4 |
| 0.22 | 8770 | 5804 | 81200 | 1.50 | KF 137 R77 ESQ 63D4 |
| 0.26 | 7670 | 5027 | 81600 | 1.70 | KA 137 R77 ESQ 63D4 |
| 0.29 | 6680 | 4423 | 81900 | 1.95 | KAF 137 R77 ESQ 63D4 |
| 0.33 | 5850 | 3889 | 82100 | 2.2 | |
| 0.39 | 4930 | 3311 | 82300 | 2.6 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|-----------------|---------|------|---------|------|---------------------|
| 0.25 кВт | | | | | |
| 0.21 | 9440 | 6184 | 65000 | 0.85 | |
| 0.23 | 8520 | 5662 | 65000 | 0.95 | |
| 0.25 | 7730 | 5136 | 65000 | 1.05 | |
| 0.30 | 6700 | 4369 | 65000 | 1.20 | K 107 R77 ESQ 63D4 |
| 0.34 | 5850 | 3810 | 65000 | 1.35 | KF 107 R77 ESQ 63D4 |
| 0.39 | 5070 | 3358 | 65000 | 1.60 | KA 107 R77 ESQ 63D4 |
| 0.44 | 4540 | 2977 | 65000 | 1.75 | KAF107 R77 ESQ 63D4 |
| 0.50 | 3970 | 2599 | 65000 | 2.0 | |
| 0.57 | 3450 | 2286 | 65000 | 2.3 | |
| 0.67 | 2930 | 1936 | 65000 | 2.7 | |
| 0.76 | 2640 | 1713 | 65000 | 3.0 | K 107 R77 ESQ 63D4 |
| 0.84 | 2390 | 1554 | 65000 | 3.3 | KF 107 R77 ESQ 63D4 |
| 0.97 | 2060 | 1336 | 65000 | 3.9 | KA 107 R77 ESQ 63D4 |
| | | | | | KAF107 R77 ESQ 63D4 |
| 0.42 | 4890 | 3180 | 40000 | 0.90 | K 97 57 ESQ 63D4 |
| | | | | | KF 97 57 ESQ 63D4 |
| | | | | | KA 97 57 ESQ 63D4 |
| | | | | | KAF 97 57 ESQ 63D4 |
| 0.47 | 4250 | 2757 | 40000 | 1.00 | |
| 0.54 | 3840 | 2419 | 40000 | 1.10 | |
| 0.61 | 3340 | 2123 | 40000 | 1.30 | |
| 0.70 | 2950 | 1856 | 40000 | 1.45 | |
| 0.80 | 2520 | 1625 | 40000 | 1.70 | K 97 R57 ESQ 63D4 |
| 0.91 | 2190 | 1430 | 40000 | 1.95 | KF 97 R57 ESQ 63D4 |
| 1.0 | 2010 | 1261 | 40000 | 2.1 | KA 97 R57 ESQ 63D4 |
| 1.2 | 1750 | 1102 | 40000 | 2.5 | KAF 97 R57 ESQ 63D4 |
| 1.4 | 1520 | 957 | 40000 | 2.8 | |
| 1.5 | 1360 | 855 | 40000 | 3.2 | |
| 0.62 | 3320 | 2088 | 26400 | 0.80 | |
| 0.70 | 2950 | 1854 | 27000 | 0.90 | |
| 0.78 | 2640 | 1657 | 27400 | 1.00 | |
| 0.92 | 2250 | 1415 | 27800 | 1.20 | K 87 R57 ESQ 63D4 |
| 1.1 | 1950 | 1229 | 28100 | 1.40 | KF 87 R57 ESQ 63D4 |
| 1.2 | 1700 | 1078 | 28300 | 1.60 | KA 87 R57 ESQ 63D4 |
| 1.4 | 1470 | 951 | 28500 | 1.85 | KAF 87 R57 ESQ 63D4 |
| 1.5 | 1280 | 837 | 28800 | 2.1 | |
| 1.8 | 1110 | 726 | 28700 | 2.4 | |
| 2.0 | 990 | 638 | 28800 | 2.7 | |
| 1.2 | 1690 | 1053 | 14300 | 0.90 | |
| 1.4 | 1480 | 924 | 15800 | 1.05 | |
| 1.6 | 1310 | 815 | 16900 | 1.20 | |
| 1.8 | 1100 | 709 | 17900 | 1.40 | |
| 2.1 | 960 | 622 | 18400 | 1.60 | |
| 2.3 | 860 | 552 | 18000 | 1.80 | |
| 2.7 | 755 | 485 | 19100 | 2.0 | K 77 R37 ESQ 63D4 |
| 3.0 | 665 | 428 | 19500 | 2.3 | KF 77 R37 ESQ 63D4 |
| 3.5 | 580 | 367 | 19700 | 2.7 | KA 77 R37 ESQ 63D4 |
| 4.0 | 515 | 328 | 19800 | 3.0 | KAF 77 R37 ESQ 63D4 |
| 4.5 | 460 | 290 | 19900 | 3.4 | |
| 5.2 | 395 | 252 | 19900 | 3.9 | |
| 5.9 | 345 | 221 | 19900 | 4.5 | |
| 6.7 | 305 | 195 | 20000 | 5.1 | |
| 7.4 | 270 | 175 | 20000 | 5.7 | |
| 2.1 | 960 | 613 | 7350 | 0.85 | |
| 2.4 | 850 | 542 | 10100 | 0.95 | |
| 2.8 | 755 | 471 | 10900 | 1.10 | |
| 3.1 | 655 | 420 | 11600 | 1.25 | K 67 R37 ESQ 63D4 |
| 3.6 | 575 | 361 | 12000 | 1.45 | KF 67 R37 ESQ 63D4 |
| 4.0 | 510 | 323 | 12400 | 1.60 | KA 67 R37 ESQ 63D4 |
| 4.7 | 435 | 279 | 12700 | 1.90 | KAF 67 R37 ESQ 63D4 |
| 5.3 | 385 | 246 | 12900 | 2.1 | |
| 6.0 | 335 | 217 | 1300 | 2.4 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|----------------------|
| 3.1 | 655 | 421 | 5750 | 0.90 | |
| 3.6 | 575 | 362 | 7840 | 1.05 | |
| 4.1 | 505 | 319 | 8380 | 1.20 | |
| 4.7 | 435 | 280 | 8720 | 1.35 | |
| 5.3 | 385 | 246 | 8950 | 1.55 | K 57 R77 ESQ 63D4 |
| 6.1 | 335 | 215 | 8150 | 1.80 | KF 57 R77 ESQ 63D4 |
| 6.8 | 300 | 192 | 9150 | 2.0 | KA 57 R77 ESQ 63D4 |
| 7.8 | 260 | 166 | 9280 | 2.3 | KAF 107 R77 ESQ 63D4 |
| 9.0 | 225 | 145 | 9550 | 2.7 | |
| 10 | 205 | 129 | 9620 | 2.9 | |
| 12 | 173 | 111 | 9720 | 3.5 | |
| 13 | 152 | 97 | 9780 | 4.0 | |
| 4.4 | 540 | 154.02 | 19600 | 2.9 | K 77 ESQ 80B8 |
| 5.0 | 475 | 135.28 | 19700 | 3.3 | KF 77 ESQ 80B8 |
| 5.3 | 450 | 128.52 | 19800 | 3.4 | KA 77 ESQ 80B8 |
| 6.0 | 400 | 113.56 | 19900 | 3.9 | KAF 77 ESQ 80B8 |
| 4.6 | 520 | 192.18 | 19700 | 2.8 | K 77 ESQ 71B6 |
| 4.9 | 485 | 179.37 | 19700 | 3.0 | KF 77 ESQ 71B6 |
| 5.7 | 420 | 154.02 | 19800 | 3.7 | KA 77 ESQ 71B6 |
| 6.5 | 365 | 135.28 | 19900 | 4.2 | KAF 77 ESQ 71B6 |
| 5.5 | 435 | 123.54 | 12700 | 1.90 | K 67 ESQ 80B8 |
| 6.3 | 380 | 108.03 | 12900 | 2.2 | KF 67 ESQ 80B8 |
| 6.6 | 360 | 102.62 | 12900 | 2.3 | KA 67 ESQ 80B8 |
| 7.6 | 315 | 90.4 | 13000 | 2.8 | KAF 67 ESQ 80B8 |
| 6.1 | 395 | 144.79 | 12800 | 2.1 | K 67 ESQ 71B6 |
| 7.1 | 335 | 123.54 | 13000 | 2.5 | KF 67 ESQ 71B6 |
| 8.1 | 395 | 108.03 | 13000 | 2.8 | KA 67 ESQ 71B6 |
| 8.6 | 280 | 102.62 | 13000 | 3.0 | KAF 67 ESQ 71B6 |
| 9.0 | 265 | 144.79 | 13000 | 3.1 | K 67 ESQ 63D4 |
| 11 | 225 | 123.54 | 13000 | 3.6 | KF 67 ESQ 63D4 |
| 12 | 198 | 108.03 | 13000 | 4.1 | KA 67 ESQ 63D4 |
| 13 | 189 | 102.62 | 13000 | 4.3 | KAF 67 ESQ 63D4 |
| 6.1 | 395 | 145.14 | 8910 | 1.50 | |
| 7.1 | 335 | 123.85 | 9150 | 1.80 | K 57 ESQ 71B6 |
| 8.1 | 295 | 108.29 | 9310 | 2.0 | KF 57 ESQ 71B6 |
| 8.6 | 280 | 102.88 | 9360 | 2.2 | KA 57 ESQ 71B6 |
| 9.8 | 245 | 90.26 | 9480 | 2.5 | KAF 57 ESQ 71B6 |
| 11 | 210 | 76.56 | 9610 | 2.9 | |
| 9.0 | 265 | 145.14 | 9410 | 2.2 | |
| 11 | 225 | 123.85 | 9540 | 2.6 | K 57 ESQ 63D4 |
| 12 | 199 | 108.28 | 9640 | 3.0 | KF 57 ESQ 63D4 |
| 13 | 189 | 102.88 | 9670 | 3.2 | KA 57 ESQ 63D4 |
| 14 | 166 | 90.26 | 9740 | 3.6 | KAF 57 ESQ 63D4 |
| 17 | 141 | 76.56 | 9810 | 4.3 | |
| 6.7 | 360 | 131.87 | 6470 | 1.10 | K 47 ESQ 71B6 |
| 7.2 | 330 | 121.48 | 6780 | 1.20 | KF 47 ESQ 71B6 |
| 8.4 | 285 | 104.37 | 7210 | 1.40 | KA 47 ESQ 71B6 |
| 9.7 | 245 | 90.86 | 7280 | 1.60 | KAF 47 ESQ 71B6 |
| 10 | 230 | 85.12 | 7590 | 1.75 | |
| 9.9 | 240 | 131.87 | 7510 | 1.65 | K 47 ESQ 63D4 |
| 11 | 225 | 121.48 | 7640 | 1.80 | KF 47 ESQ 63D4 |
| 12 | 192 | 104.37 | 7820 | 2.1 | KA 47 ESQ 63D4 |
| 14 | 167 | 90.86 | 7930 | 2.4 | KAF 47 ESQ 63D4 |
| 15 | 156 | 85.12 | 7980 | 2.6 | |
| 11 | 225 | 83.69 | 5300 | 0.90 | K 37 ESQ 71B6 |
| 12 | 197 | 72.54 | 5680 | 1.00 | KF 37 ESQ 71B6 |
| 13 | 184 | 67.80 | 5810 | 1.10 | KA 37 ESQ 71B6 |
| 15 | 159 | 58.60 | 6050 | 1.25 | KAF 37 ESQ 71B6 |
| 18 | 135 | 49.79 | 6230 | 1.50 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|----------------|---------|--------|---------|------|----------------------|
| 12 | 195 | 106.38 | 5690 | 1.00 | |
| 13 | 180 | 97.81 | 5860 | 1.10 | |
| 16 | 154 | 83.69 | 6090 | 1.30 | |
| 18 | 133 | 72.54 | 6250 | 1.50 | |
| 19 | 125 | 67.80 | 6230 | 1.60 | |
| 22 | 108 | 58.60 | 6030 | 1.85 | |
| 26 | 91 | 48.79 | 5810 | 2.2 | |
| 29 | 820 | 44.46 | 5850 | 2.5 | |
| 34 | 70 | 37.97 | 5430 | 2.9 | |
| 37 | 65 | 35.57 | 5340 | 3.1 | |
| 43 | 55 | 29.96 | 5100 | 3.6 | K 37 ESQ 63D4 |
| 45 | 53 | 28.83 | 5050 | 3.8 | KF 37 ESQ 63D4 |
| 52 | 46 | 24.99 | 4860 | 4.4 | KA 37 ESQ 63D4 |
| 56 | 43 | 23.36 | 4770 | 4.6 | KAF 37 ESQ 63D4 |
| 64 | 37 | 20.19 | 4580 | 5.0 | |
| 76 | 32 | 17.15 | 4370 | 5.7 | |
| 85 | 28 | 15.31 | 4230 | 6.2 | |
| 99 | 24 | 13.08 | 4030 | 6.9 | |
| 107 | 22 | 12.14 | 3940 | 7.2 | |
| 124 | 19 | 10.49 | 3780 | 8.3 | |
| 146 | 16 | 8.91 | 3590 | 9.8 | |
| 163 | 15 | 7.89 | 3470 | 11 | |
| 191 | 13 | 6.80 | 3310 | 12 | |
| 204 | 12 | 6.37 | 3240 | 12 | |
| 0.37кВт | | | | | |
| 0.18 | 16600 | 7482 | 72600 | 0.80 | |
| 0.21 | 14500 | 6585 | 76900 | 0.90 | |
| 0.24 | 12600 | 5804 | 79400 | 1.05 | K 127 R77 ESQ 71B4 |
| 0.27 | 11000 | 5027 | 80200 | 1.20 | KF 127 R77 ESQ 71B4 |
| 0.31 | 9610 | 4423 | 80800 | 1.35 | KA 127 R77 ESQ 71B4 |
| 0.35 | 8430 | 3889 | 81300 | 1.55 | KAF 127 R77 ESQ 71B4 |
| 0.42 | 7120 | 3311 | 81700 | 1.85 | |
| 0.72 | 4230 | 1928 | 82500 | 3.1 | K 127 R77 ESQ 71B4 |
| 0.79 | 3860 | 1757 | 82500 | 3.4 | KF 127 R77 ESQ 71B4 |
| 0.90 | 3360 | 1541 | 82600 | 3.9 | KA 127 R77 ESQ 71B4 |
| 0.96 | 3360 | 1541 | 82600 | 3.9 | KAF 127 R77 ESQ 71B4 |
| 0.36 | 8380 | 3710 | 65000 | 0.95 | |
| 0.41 | 7300 | 3358 | 65000 | 1.10 | K 107 R77 ESQ 71B4 |
| 0.46 | 6510 | 2977 | 65000 | 1.25 | KF 107 R77 ESQ 71B4 |
| 0.53 | 5690 | 2599 | 65000 | 1.40 | KA 107 R77 ESQ 71B4 |
| 0.60 | 4970 | 2286 | 65000 | 1.60 | KAF 107 R77 ESQ 71B4 |
| 0.71 | 4210 | 1939 | 65000 | 1.90 | |
| 0.81 | 3790 | 1713 | 65000 | 2.1 | K 107 R77 ESQ 71B4 |
| 0.89 | 3440 | 1554 | 65000 | 2.3 | KF 107 R77 ESQ 71B4 |
| 1.0 | 2950 | 1336 | 65000 | 2.7 | KA 107 R77 ESQ 71B4 |
| 1.2 | 2580 | 1166 | 65000 | 3.1 | KAF 107 R77 ESQ 71B4 |
| 0.65 | 4770 | 2123 | 40000 | 0.90 | |
| 0.74 | 4200 | 1856 | 40000 | 1.00 | |
| 0.85 | 3610 | 1825 | 40000 | 1.20 | |
| 0.96 | 3160 | 1430 | 40000 | 1.35 | |
| 1.1 | 2850 | 1261 | 40000 | 1.50 | K 97 R57 ESQ 71B4 |
| 1.2 | 2490 | 1102 | 40000 | 1.70 | KF 97 R57 ESQ 71B4 |
| 1.4 | 2160 | 957 | 40000 | 2.0 | KA 97 R57 ESQ 71B4 |
| 1.6 | 1930 | 855 | 40000 | 2.2 | KAF 97 R57 ESQ 71B4 |
| 1.9 | 1620 | 743 | 40000 | 2.7 | |
| 2.1 | 1430 | 652 | 40000 | 3.0 | |
| 2.4 | 1280 | 573 | 40000 | 3.4 | |
| 0.97 | 3200 | 1415 | 26600 | 0.85 | |
| 1.1 | 2770 | 1229 | 27200 | 0.95 | |
| 1.3 | 2420 | 1078 | 27600 | 1.10 | |
| 1.5 | 2110 | 951 | 27900 | 1.30 | |
| 1.6 | 1850 | 837 | 28200 | 1.45 | K 87 R57 ESQ 71B4 |
| 1.9 | 1600 | 726 | 28400 | 1.70 | KF 87 R57 ESQ 71B4 |
| 2.2 | 1420 | 638 | 28500 | 1.90 | KA 87 R57 ESQ 71B4 |
| 2.5 | 1240 | 562 | 28600 | 2.2 | KAF 87 R57 ESQ 71B4 |
| 2.9 | 1040 | 474 | 28800 | 2.6 | |
| 3.2 | 940 | 428 | 28800 | 2.9 | |
| 3.7 | 810 | 373 | 28900 | 3.3 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + РАМ |
|------------|---------|--------|---------|------|---------------------|
| 1.7 | 1860 | 815 | 10600 | 0.85 | |
| 2.0 | 1580 | 709 | 15200 | 1.00 | |
| 2.2 | 1380 | 622 | 16500 | 1.10 | |
| 2.5 | 1230 | 552 | 17300 | 1.25 | |
| 2.8 | 1080 | 485 | 18000 | 1.45 | |
| 3.2 | 950 | 428 | 18500 | 1.60 | K 77 R37 ESQ 71B4 |
| 3.8 | 830 | 367 | 18900 | 1.85 | KF 77 R37 ESQ 71B4 |
| 4.2 | 735 | 328 | 19200 | 2.1 | KA 77 R37 ESQ 71B4 |
| 4.8 | 655 | 290 | 19400 | 2.4 | KAF 77 R37 ESQ 71B4 |
| 5.5 | 565 | 252 | 19800 | 2.8 | |
| 6.2 | 495 | 221 | 19700 | 3.1 | |
| 7.1 | 435 | 195 | 19800 | 3.5 | |
| 7.9 | 390 | 175 | 19900 | 4.0 | |
| 9.0 | 340 | 154 | 19900 | 4.5 | |
| 3.3 | 940 | 420 | 9000 | 0.90 | |
| 3.8 | 820 | 361 | 10300 | 1.00 | |
| 4.3 | 725 | 323 | 11100 | 1.15 | |
| 4.9 | 625 | 279 | 11800 | 1.30 | K 67 R37 ESQ 71B4 |
| 5.6 | 550 | 246 | 12200 | 1.50 | KF 67 R37 ESQ 71B4 |
| 6.3 | 485 | 217 | 12500 | 1.70 | KA 67 R37 ESQ 71B4 |
| 7.2 | 430 | 191 | 12700 | 1.90 | KAF 67 R37 ESQ 71B4 |
| 8.3 | 370 | 166 | 12900 | 2.2 | |
| 9.6 | 320 | 144 | 13000 | 2.5 | |
| 11 | 275 | 122 | 13000 | 3.0 | |
| 4.9 | 625 | 280 | 7430 | 0.95 | |
| 5.6 | 550 | 246 | 8040 | 1.10 | |
| 6.4 | 480 | 215 | 8520 | 1.25 | K 57 R37 ESQ 71B4 |
| 7.2 | 430 | 192 | 8750 | 1.40 | KF 57 R37 ESQ 71B4 |
| 8.3 | 370 | 166 | 9000 | 1.60 | KA 57 R37 ESQ 71B4 |
| 9.6 | 325 | 145 | 9200 | 1.85 | KAF 57 R37 ESQ 71B4 |
| 11 | 290 | 129 | 9320 | 2.1 | |
| 12 | 245 | 111 | 9480 | 2.4 | |
| 14 | 215 | 97 | 9580 | 2.8 | |
| 3.9 | 910 | 174.19 | 28800 | 3.0 | K 87 ESQ 90S8 |
| 4.1 | 850 | 164.34 | 28900 | 3.2 | KF 87 ESQ 90S8 |
| 4.6 | 765 | 147.32 | 28900 | 3.5 | KA 87 ESQ 90S8 |
| 4.6 | 775 | 197.37 | 28900 | 3.5 | KAF 87 ESQ 90S8 |
| 5.2 | 685 | 174.19 | 28900 | 4.0 | K 87 ESQ 80A6 |
| 5.2 | 685 | 174.19 | 28900 | 4.0 | KF 87 ESQ 80A6 |
| 5.2 | 685 | 174.19 | 28900 | 4.0 | KA 87 ESQ 80A6 |
| 5.2 | 685 | 174.19 | 28900 | 4.0 | KAF 87 ESQ 80A6 |
| 5.0 | 705 | 135.28 | 19300 | 2.2 | K 77 ESQ 90S8 |
| 5.3 | 670 | 128.52 | 19300 | 2.3 | KF 77 ESQ 90S8 |
| 6.0 | 590 | 113.56 | 19500 | 2.6 | KA 77 ESQ 90S8 |
| 7.0 | 505 | 97.05 | 19700 | 3.1 | KAF 77 ESQ 90S8 |
| 5.8 | 605 | 154.02 | 19500 | 2.6 | K 77 ESQ 80A6 |
| 6.7 | 530 | 135.28 | 19600 | 2.9 | KF 77 ESQ 80A6 |
| 7.0 | 505 | 128.52 | 19700 | 3.1 | KA 77 ESQ 80A6 |
| 7.9 | 445 | 113.56 | 19800 | 3.5 | KAF 77 ESQ 80A6 |
| 7.2 | 490 | 192.18 | 19700 | 3.0 | K 77 ESQ 71B4 |
| 7.7 | 460 | 179.37 | 19800 | 3.2 | KF 77 ESQ 71B4 |
| 7.7 | 460 | 179.37 | 19800 | 3.2 | KA 77 ESQ 71B4 |
| 9.0 | 395 | 154.02 | 19900 | 3.9 | KAF 77 ESQ 71B4 |
| 6.3 | 560 | 108.03 | 12100 | 1.45 | K 67 ESQ 90S8 |
| 6.3 | 560 | 108.03 | 12100 | 1.45 | KF 67 ESQ 90S8 |
| 6.6 | 535 | 102.62 | 12300 | 1.55 | KA 67 ESQ 90S8 |
| 7.6 | 470 | 90.04 | 12600 | 1.75 | KAF 67 ESQ 90S8 |
| 7.3 | 485 | 123.54 | 12500 | 1.70 | K 67 ESQ 80A6 |
| 8.3 | 425 | 108.03 | 12700 | 1.95 | KF 67 ESQ 80A6 |
| 8.8 | 405 | 102.62 | 12800 | 2.0 | KA 67 ESQ 80A6 |
| 10 | 355 | 90.04 | 13000 | 2.3 | KAF 67 ESQ 80A6 |
| 9.5 | 370 | 144.79 | 12900 | 2.2 | K 67 ESQ 71B4 |
| 11 | 315 | 123.54 | 13000 | 2.6 | KF 67 ESQ 71B4 |
| 13 | 275 | 108.03 | 13000 | 3.0 | KA 67 ESQ 71B4 |
| 15 | 230 | 90.04 | 13000 | 3.6 | KAF 67 ESQ 71B4 |
| 18 | 196 | 76.37 | 13000 | 4.2 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + РАМ |
|-----------------|---------|--------|---------|------|--------------------|
| 7.3 | 485 | 123.85 | 8490 | 1.25 | |
| 8.3 | 425 | 108.29 | 8770 | 1.40 | K 57 ESQ 80A6 |
| 8.8 | 405 | 102.88 | 8870 | 1.50 | KF 57 ESQ 80A6 |
| 10 | 355 | 90.28 | 9070 | 1.70 | KA 57 ESQ 80A6 |
| 12 | 300 | 76.56 | 8280 | 2.0 | KAF 57 ESQ 80A6 |
| 13 | 270 | 69.12 | 9390 | 2.2 | |
| 9.5 | 370 | 145.14 | 9000 | 1.60 | |
| 11 | 315 | 123.85 | 9220 | 1.90 | K 57 ESQ 71B4 |
| 13 | 275 | 108.29 | 9370 | 2.2 | KF 57 ESQ 71B4 |
| 13 | 265 | 102.88 | 9420 | 2.3 | KA 57 ESQ 71B4 |
| 15 | 230 | 90.26 | 9530 | 2.6 | KAF 57 ESQ 71B4 |
| 18 | 196 | 76.56 | 9650 | 3.1 | |
| 20 | 177 | 69.12 | 9700 | 3.4 | |
| 8.6 | 410 | 104.37 | 5490 | 1.00 | K 47 ESQ 80A6 |
| 9.9 | 355 | 90.86 | 6480 | 1.10 | KF 47 ESQ 80A6 |
| 11 | 335 | 85.12 | 6730 | 1.20 | KA 47 ESQ 80A6 |
| 12 | 295 | 75.20 | 7100 | 1.35 | KAF 47 ESQ 80A6 |
| 10 | 340 | 131.87 | 6680 | 1.20 | K 47 ESQ 71B4 |
| 11 | 310 | 121.48 | 6980 | 1.30 | KF 47 ESQ 71B4 |
| 13 | 265 | 104.37 | 7330 | 1.50 | KA 47 ESQ 71B4 |
| 13 | 265 | 104.37 | 7330 | 1.50 | KAF 47 ESQ 71B4 |
| 15 | 235 | 90.86 | 7580 | 1.70 | |
| 16 | 220 | 85.12 | 7670 | 1.85 | K 47 ESQ 71B4 |
| 18 | 193 | 75.20 | 7810 | 2.1 | KF 47 ESQ 71B4 |
| 20 | 179 | 69.84 | 7880 | 2.2 | KA 47 ESQ 71B4 |
| 22 | 162 | 63.30 | 7980 | 2.5 | KAF 47 ESQ 71B4 |
| 14 | 250 | 97.81 | 2520 | 0.80 | |
| 16 | 215 | 83.69 | 5470 | 0.95 | |
| 19 | 186 | 72.54 | 5690 | 1.10 | |
| 20 | 174 | 67.80 | 5630 | 1.15 | |
| 24 | 150 | 58.60 | 5510 | 1.35 | |
| 28 | 128 | 49.79 | 5350 | 1.55 | |
| 31 | 114 | 44.46 | 5230 | 1.75 | |
| 36 | 97 | 37.97 | 5060 | 2.1 | |
| 39 | 91 | 35.57 | 4990 | 2.2 | |
| 46 | 77 | 29.96 | 4800 | 2.6 | |
| 48 | 74 | 28.83 | 4750 | 2.7 | K 37 ESQ 71B4 |
| 55 | 64 | 24.99 | 4590 | 3.1 | KF 37 ESQ 71B4 |
| 59 | 60 | 23.36 | 4510 | 3.3 | KA 37 ESQ 71B4 |
| 68 | 52 | 20.19 | 4350 | 3.6 | KAF 37 ESQ 71B4 |
| 80 | 44 | 17.15 | 4160 | 4.1 | |
| 90 | 39 | 15.31 | 4040 | 4.5 | |
| 105 | 34 | 13.08 | 3880 | 4.9 | |
| 114 | 31 | 12.14 | 3780 | 5.1 | |
| 132 | 27 | 10.49 | 3630 | 5.9 | |
| 155 | 23 | 8.91 | 3460 | 7.0 | |
| 173 | 20 | 7.96 | 3350 | 7.6 | |
| 203 | 17 | 6.80 | 3190 | 8.6 | |
| 217 | 16 | 6.37 | 3130 | 8.9 | |
| 257 | 14 | 5.36 | 2970 | 10 | |
| 0.55 кВт | | | | | |
| 0.08 | 55900 | 16978 | 179800 | 0.90 | |
| 0.10 | 46500 | 14272 | 190000 | 1.10 | |
| 0.10 | 42500 | 13116 | 190000 | 1.20 | K 187 R97 ESQ 80A4 |
| 0.12 | 37400 | 11647 | 190000 | 1.35 | |
| 0.19 | 23900 | 7343 | 190000 | 2.1 | |
| 0.12 | 38400 | 11573 | 150000 | 0.85 | |
| 0.13 | 33800 | 10264 | 150000 | 0.95 | |
| 0.16 | 28100 | 8628 | 150000 | 1.15 | |
| 0.21 | 21400 | 6562 | 150000 | 1.50 | K 167 R97 ESQ 80A4 |
| 0.25 | 17200 | 5355 | 150000 | 1.85 | |
| 0.33 | 13200 | 4079 | 150000 | 2.4 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|---------------|---------|------|---------|------|----------------------|
| 0.20 | 22400 | 6881 | 109700 | 0.80 | K 157 R97 ESQ 80A4 |
| 0.23 | 19300 | 5931 | 111500 | 0.95 | KF 157 R97 ESQ 80A4 |
| 0.34 | 13000 | 3979 | 114400 | 1.40 | KA 157 R97 ESQ 80A4 |
| 0.45 | 9940 | 3051 | 115300 | 1.80 | KAF 157 R97 ESQ 80A4 |
| 0.31 | 14900 | 4423 | 76200 | 0.85 | K 127 R77 ESQ 80A4 |
| 0.35 | 13000 | 3889 | 79200 | 1.00 | KF 127 R77 ESQ 80A4 |
| 0.41 | 11100 | 3311 | 80200 | 1.20 | KA 127 R77 ESQ 80A4 |
| 0.45 | 10000 | 3009 | 80700 | 1.30 | KAF 127 R77 ESQ 80A4 |
| 0.52 | 8830 | 2607 | 81200 | 1.50 | |
| 0.71 | 6560 | 1926 | 81900 | 2.0 | |
| 0.77 | 5980 | 1757 | 82100 | 2.2 | K 127 R77 ESQ 80A4 |
| 0.88 | 5220 | 1541 | 82300 | 2.5 | KF 127 R77 ESQ 80A4 |
| 1.0 | 4570 | 1342 | 82400 | 2.8 | KA 127 R77 ESQ 80A4 |
| 1.2 | 3990 | 1177 | 82500 | 3.3 | KAF 127 R77 ESQ 80A4 |
| 1.3 | 3490 | 1025 | 82500 | 3.7 | |
| 0.46 | 10100 | 2977 | 65000 | 0.80 | K 107 R77 ESQ 80A4 |
| 0.52 | 8770 | 2589 | 65000 | 0.90 | KF 107 R77 ESQ 80A4 |
| 0.59 | 7690 | 2288 | 65000 | 1.05 | KA 107 R77 ESQ 80A4 |
| 0.70 | 6520 | 1939 | 65000 | 1.25 | KAF 107 R77 ESQ 80A4 |
| 0.79 | 5850 | 1713 | 65000 | 1.35 | |
| 0.87 | 5310 | 1554 | 65000 | 1.50 | |
| 1.0 | 4570 | 1336 | 65000 | 1.75 | K 107 R77 ESQ 80A4 |
| 1.2 | 3990 | 1166 | 65000 | 2.0 | KF 107 R77 ESQ 80A4 |
| 1.3 | 3450 | 1030 | 65000 | 2.3 | KA 107 R77 ESQ 80A4 |
| 1.5 | 3000 | 904 | 65000 | 2.7 | KAF 107 R77 ESQ 80A4 |
| 1.7 | 2700 | 793 | 65000 | 3.0 | |
| 2.0 | 2360 | 696 | 65000 | 3.4 | |
| 2.2 | 2050 | 615 | 65000 | 3.9 | |
| 0.95 | 4880 | 1430 | 40000 | 0.90 | |
| 1.1 | 4380 | 1261 | 40000 | 1.00 | |
| 1.2 | 3820 | 1102 | 40000 | 1.15 | |
| 1.4 | 3320 | 857 | 40000 | 1.30 | |
| 1.6 | 2960 | 655 | 40000 | 1.45 | K 97 R57 ESQ 80A4 |
| 1.8 | 2520 | 743 | 40000 | 1.70 | KF 97 R57 ESQ 80A4 |
| 2.1 | 2200 | 652 | 40000 | 1.95 | KA 97 R57 ESQ 80A4 |
| 2.4 | 1970 | 573 | 40000 | 2.2 | KAF 97 R57 ESQ 80A4 |
| 2.7 | 1700 | 504 | 40000 | 2.5 | |
| 3.1 | 1470 | 437 | 40000 | 2.9 | |
| 3.6 | 1300 | 382 | 40000 | 3.3 | |
| 4.5 | 1040 | 305 | 40000 | 4.1 | |
| 1.4 | 3260 | 951 | 28500 | 0.85 | |
| 1.6 | 2860 | 837 | 27100 | 0.95 | |
| 1.9 | 2480 | 726 | 27600 | 1.10 | |
| 2.1 | 2190 | 638 | 27900 | 1.25 | |
| 2.4 | 1920 | 562 | 28100 | 1.40 | K 87 R57 ESQ 80A4 |
| 2.9 | 1620 | 474 | 28400 | 1.65 | KF 87 R57 ESQ 80A4 |
| 3.2 | 1450 | 426 | 28500 | 1.85 | KA 87 R57 ESQ 80A4 |
| 3.7 | 1260 | 373 | 28600 | 2.1 | KAF 87 R57 ESQ 80A4 |
| 4.1 | 1100 | 330 | 28700 | 2.4 | |
| 4.6 | 990 | 294 | 28800 | 2.7 | |
| 5.4 | 850 | 250 | 28900 | 3.2 | |
| 5.8 | 800 | 236 | 28900 | 3.4 | |
| 6.8 | 680 | 201 | 28900 | 4.0 | |
| 2.5 | 1900 | 552 | 5780 | 0.80 | |
| 2.8 | 1670 | 485 | 14500 | 0.95 | |
| 3.2 | 1470 | 428 | 15900 | 1.05 | |
| 3.7 | 1270 | 367 | 17100 | 1.20 | K 77 R37 ESQ 80A4 |
| 4.2 | 1130 | 328 | 17800 | 1.35 | KF 77 R37 ESQ 80A4 |
| 4.7 | 1000 | 290 | 18300 | 1.55 | KA 77 R37 ESQ 80A4 |
| 5.4 | 870 | 252 | 18800 | 1.80 | KAF 77 R37 ESQ 80A4 |
| 6.2 | 760 | 221 | 19100 | 2.0 | |
| 7.0 | 670 | 195 | 19300 | 2.3 | |
| 7.8 | 600 | 175 | 19500 | 2.6 | |
| 8.8 | 530 | 154 | 19600 | 2.9 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|---------------|---------|--------|---------|------|---------------------|
| 4.9 | 960 | 279 | 7360 | 0.85 | |
| 5.5 | 840 | 246 | 10100 | 0.95 | K 67 R37 ESQ 80A4 |
| 6.2 | 745 | 217 | 10900 | 1.10 | KF 67 R37 ESQ 80A4 |
| 7.1 | 660 | 191 | 11500 | 1.25 | KA 67 R37 ESQ 80A4 |
| 8.2 | 570 | 166 | 12100 | 1.45 | KAF 67 R37 ESQ 80A4 |
| 9.4 | 495 | 144 | 12400 | 1.65 | |
| 11 | 420 | 122 | 12700 | 1.95 | |
| 7.1 | 660 | 192 | 5180 | 0.90 | |
| 8.2 | 575 | 166 | 7850 | 1.05 | K 57 R37 ESQ 80A4 |
| 9.4 | 495 | 145 | 8430 | 1.20 | KF 57 R37 ESQ 80A4 |
| 11 | 445 | 129 | 8680 | 1.35 | KA 57 R37 ESQ 80A4 |
| 12 | 380 | 111 | 8970 | 1.60 | KAF 57 R37 ESQ 80A4 |
| 14 | 335 | 97 | 9150 | 1.80 | |
| 3.9 | 1350 | 174.19 | 28800 | 2.0 | K 87 ESQ 90L8 |
| 4.1 | 1270 | 164.34 | 28600 | 2.1 | KF 87 ESQ 90L8 |
| 4.6 | 1140 | 147.32 | 28700 | 2.4 | KA 87 ESQ 90L8 |
| 4.6 | 1150 | 197.37 | 28700 | 2.3 | KAF 87 ESQ 90L8 |
| 5.2 | 1020 | 174.19 | 28800 | 2.7 | K 87 ESQ 80B6 |
| 5.5 | 960 | 164.34 | 28800 | 2.8 | KF 87 ESQ 80B6 |
| 6.1 | 860 | 147.32 | 28900 | 3.1 | KA 87 ESQ 80B6 |
| 5.0 | 1040 | 135.28 | 18100 | 1.50 | K 77 ESQ 90L8 |
| 5.3 | 990 | 128.52 | 18300 | 1.55 | KF 77 ESQ 90L8 |
| 6.0 | 880 | 113.56 | 18700 | 1.75 | KA 77 ESQ 90L8 |
| 7.0 | 750 | 97.05 | 19100 | 2.1 | KAF 77 ESQ 90L8 |
| 5.8 | 900 | 154.02 | 18700 | 1.70 | K 77 ESQ 80B6 |
| 6.7 | 790 | 135.28 | 19000 | 1.95 | KF 77 ESQ 80B6 |
| 7.0 | 750 | 128.52 | 19100 | 2.1 | KA 77 ESQ 80B6 |
| 7.9 | 665 | 113.56 | 19400 | 2.3 | KAF 77 ESQ 80B6 |
| 8.8 | 595 | 154.02 | 19500 | 2.6 | K 77 ESQ 80A4 |
| 10 | 520 | 135.28 | 19700 | 3.0 | KF 77 ESQ 80A4 |
| 11 | 495 | 128.52 | 19700 | 3.1 | KA 77 ESQ 80A4 |
| 12 | 440 | 113.58 | 19800 | 3.5 | KAF 77 ESQ 80A4 |
| 14 | 375 | 97.05 | 19900 | 4.1 | |
| 7.3 | 720 | 123.54 | 11100 | 1.15 | K 67 ESQ 80B6 |
| 8.3 | 630 | 108.03 | 11700 | 1.30 | KF 67 ESQ 80B6 |
| 8.8 | 600 | 102.62 | 11900 | 1.35 | KA 67 ESQ 80B6 |
| 10 | 525 | 90.04 | 12300 | 1.55 | KAF 67 ESQ 80B6 |
| 12 | 445 | 76.37 | 12600 | 1.85 | |
| 11 | 475 | 123.54 | 12500 | 1.70 | K 67 ESQ 80A4 |
| 13 | 415 | 108.03 | 12800 | 1.95 | KF 67 ESQ 80A4 |
| 15 | 350 | 90.04 | 13000 | 2.4 | KA 67 ESQ 80A4 |
| 18 | 295 | 76.37 | 13000 | 2.8 | KAF 67 ESQ 80A4 |
| 8.3 | 630 | 108.29 | 7360 | 0.95 | |
| 8.8 | 600 | 102.88 | 7630 | 1.00 | K 57 ESQ 80B6 |
| 10 | 525 | 90.26 | 8220 | 1.15 | KF 57 ESQ 80B6 |
| 12 | 445 | 76.56 | 8670 | 1.35 | KA 57 ESQ 80B6 |
| 13 | 405 | 69.12 | 8870 | 1.50 | KAF 57 ESQ 80B6 |
| 15 | 355 | 60.81 | 9070 | 1.70 | |
| 16 | 335 | 57.42 | 9150 | 1.80 | |
| 11 | 480 | 123.85 | 8520 | 1.25 | |
| 13 | 420 | 108.29 | 8800 | 1.45 | |
| 13 | 395 | 102.88 | 8890 | 1.50 | K 57 ESQ 80A4 |
| 15 | 350 | 90.26 | 9100 | 1.70 | KF 57 ESQ 80A4 |
| 18 | 295 | 76.56 | 9300 | 2.0 | KA 57 ESQ 80A4 |
| 20 | 265 | 69.12 | 9410 | 2.2 | KAF 57 ESQ 80A4 |
| 22 | 235 | 60.81 | 9520 | 2.6 | |
| 24 | 220 | 57.42 | 9560 | 2.7 | |
| 13 | 405 | 104.37 | 5880 | 1.00 | K 47 ESQ 80A4 |
| 15 | 350 | 90.86 | 6550 | 1.15 | KF 47 ESQ 80A4 |
| 16 | 330 | 85.12 | 6790 | 1.20 | KA 47 ESQ 80A4 |
| 18 | 290 | 75.20 | 7150 | 1.40 | KAF 47 ESQ 80A4 |
| 19 | 270 | 69.84 | 7310 | 1.50 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + РАМ |
|----------------|---------|-------|---------|------|--|
| 21 | 245 | 63.30 | 7500 | 1.65 | K 47 ESQ 80A4 |
| 24 | 220 | 56.83 | 7600 | 1.80 | KF 47 ESQ 80A4 |
| 28 | 189 | 48.95 | 7830 | 2.1 | KA 47 ESQ 80A4 |
| 30 | 178 | 46.03 | 7880 | 2.2 | KAF 47 ESQ 80A4 |
| 23 | 225 | 58.60 | 4850 | 0.90 | |
| 27 | 192 | 49.79 | 4790 | 1.05 | |
| 31 | 172 | 44.46 | 4740 | 1.15 | |
| 36 | 147 | 37.97 | 4840 | 1.35 | |
| 38 | 137 | 35.57 | 4600 | 1.45 | |
| 45 | 116 | 29.96 | 4470 | 1.75 | |
| 47 | 111 | 28.83 | 4440 | 1.80 | |
| 54 | 97 | 24.99 | 4320 | 2.1 | |
| 58 | 90 | 23.36 | 4260 | 2.2 | K 37 ESQ 80A4 |
| 67 | 78 | 20.19 | 4130 | 2.4 | KF 37 ESQ 80A4 |
| 79 | 66 | 17.15 | 3980 | 2.7 | KA 37 ESQ 80A4 |
| 89 | 59 | 15.31 | 3880 | 3.0 | KAF 37 ESQ 80A4 |
| 104 | 51 | 13.08 | 3730 | 3.3 | |
| 112 | 47 | 12.14 | 3660 | 3.4 | |
| 130 | 41 | 10.49 | 3520 | 4.0 | |
| 153 | 34 | 8.91 | 3370 | 4.7 | |
| 171 | 31 | 7.96 | 3270 | 5.1 | |
| 200 | 26 | 6.80 | 3130 | 5.7 | |
| 214 | 25 | 6.37 | 3070 | 5.9 | |
| 254 | 21 | 5.36 | 2920 | 6.8 | |
| 0.75кВт | | | | | |
| 0.11 | 58400 | 13116 | 175300 | 0.85 | |
| 0.12 | 51500 | 11847 | 187300 | 0.95 | |
| 0.19 | 32800 | 7343 | 190000 | 1.50 | K 187 R97 ESQ 80B4 |
| 1.20 | 30000 | 6747 | 190000 | 1.65 | |
| 0.23 | 28500 | 5991 | 190000 | 1.90 | |
| 0.16 | 38600 | 8628 | 150000 | 0.85 | |
| 0.21 | 29300 | 6562 | 150000 | 1.10 | |
| 0.26 | 23700 | 5355 | 150000 | 1.35 | K 167 R97 ESQ 80B4 |
| 0.34 | 16200 | 4079 | 150000 | 1.75 | |
| 0.41 | 15100 | 3376 | 150000 | 2.1 | |
| 0.35 | 17300 | 3979 | 112300 | 1.00 | K 157 R97 ESQ 80B4 KF 157 R97 ESQ 80B4 |
| 0.45 | 13600 | 3051 | 114100 | 1.30 | KA 157 R97 ESQ 80B4 KAF 157 R97 ESQ 80B4 |
| 0.83 | 7440 | 1659 | 115900 | 2.4 | K 157 R97 ESQ 80B4 KF 157 R97 ESQ 80B4 KA 157 R97 ESQ 80B4 KAF 157 R97 ESQ 80B4 |
| 1.0 | 6040 | 1365 | 116200 | 3.0 | |
| 0.42 | 15100 | 3311 | 75800 | 0.85 | K 127 R77 ESQ 80B4 KF 127 R77 ESQ 80B4 |
| 0.46 | 13700 | 3009 | 78600 | 0.95 | KA 127 R77 ESQ 80B4 KAF 127 R77 ESQ 80B4 |
| 0.53 | 11800 | 2607 | 79800 | 1.10 | |
| 0.72 | 8930 | 1926 | 81100 | 1.45 | |
| 0.79 | 8150 | 1757 | 81400 | 1.60 | |
| 0.90 | 7120 | 1541 | 81700 | 1.85 | K 127 R77 ESQ 80B4 KF 127 R77 ESQ 80B4 |
| 1.0 | 6220 | 1342 | 82000 | 2.1 | KA 127 R77 ESQ 80B4 KAF 127 R77 ESQ 80B4 |
| 1.2 | 5440 | 1177 | 82200 | 2.4 | |
| 1.4 | 4750 | 1025 | 82400 | 2.7 | |
| 1.5 | 4150 | 899 | 82500 | 3.1 | |
| 0.81 | 7960 | 1713 | 65000 | 1.00 | |
| 0.89 | 7230 | 1554 | 65000 | 1.10 | |
| 1.0 | 6210 | 1336 | 65000 | 1.30 | K 107 R77 ESQ 80B4 KF 107 R77 ESQ 80B4 |
| 1.2 | 5420 | 1166 | 65000 | 1.50 | KA 107 R77 ESQ 80B4 KAF 107 R77 ESQ 80B4 |
| 1.3 | 4710 | 1030 | 65000 | 1.70 | |
| 1.5 | 4120 | 904 | 65000 | 1.95 | |
| 1.7 | 3680 | 793 | 65000 | 2.2 | |
| 2.0 | 3210 | 696 | 65000 | 2.5 | |
| 2.2 | 2800 | 615 | 65000 | 2.8 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + РАМ |
|---------------|---------|--------|---------|------|--|
| 1.2 | 5180 | 1102 | 39700 | 0.85 | |
| 1.4 | 4490 | 957 | 40000 | 0.95 | |
| 1.6 | 4020 | 855 | 40000 | 1.05 | |
| 1.9 | 3430 | 743 | 40000 | 1.25 | |
| 2.1 | 3020 | 652 | 40000 | 1.40 | |
| 2.4 | 2680 | 573 | 40000 | 1.60 | K 97 R57 ESQ 80B4 KF 97 R57 ESQ 80B4 |
| 2.7 | 2320 | 504 | 40000 | 1.85 | KA 97 R57 ESQ 80B4 KAF 97 R57 ESQ 80B4 |
| 3.2 | 2010 | 437 | 40000 | 2.1 | |
| 3.6 | 1770 | 382 | 40000 | 2.4 | |
| 4.5 | 1420 | 305 | 40000 | 3.0 | |
| 5.4 | 1190 | 258 | 40000 | 3.6 | |
| 5.9 | 1080 | 232 | 40000 | 4.0 | |
| 6.9 | 920 | 199 | 40000 | 4.7 | |
| 1.9 | 3370 | 726 | 26300 | 0.80 | |
| 2.2 | 2970 | 638 | 26900 | 0.90 | |
| 2.5 | 2610 | 562 | 27400 | 1.05 | |
| 2.9 | 2200 | 474 | 27900 | 1.25 | K 87 R57 ESQ 80B4 KF 87 R57 ESQ 80B4 |
| 3.2 | 1980 | 426 | 28100 | 1.35 | KA 87 R57 ESQ 80B4 KAF 87 R57 ESQ 80B4 |
| 3.7 | 1720 | 373 | 28300 | 1.55 | |
| 4.2 | 1520 | 330 | 28500 | 1.80 | |
| 4.7 | 1350 | 294 | 28800 | 2.0 | |
| 5.5 | 1160 | 250 | 28700 | 2.3 | |
| 5.8 | 1100 | 236 | 28700 | 2.5 | |
| 6.9 | 930 | 201 | 28800 | 2.9 | |
| 3.8 | 1720 | 367 | 14000 | 0.90 | K 77 R37 ESQ 80B4 KF 77 R37 ESQ 80B4 |
| 4.2 | 1540 | 328 | 15500 | 1.00 | KA 77 R37 ESQ 80B4 KAF 77 R37 ESQ 80B4 |
| 4.8 | 1360 | 290 | 16600 | 1.15 | |
| 5.5 | 1180 | 252 | 17500 | 1.30 | |
| 6.2 | 1030 | 221 | 18200 | 1.50 | |
| 3.9 | 1830 | 176.05 | 40000 | 2.3 | K 97 ESQ 100LA8 KF 97 ESQ 100LA8 KA 97 ESQ 100LA8 KAF 97 ESQ 100LA8 |
| 4.5 | 1590 | 153.21 | 40000 | 2.7 | |
| 4.9 | 1460 | 140.28 | 40000 | 3.0 | |
| 4.7 | 1530 | 147.32 | 28500 | 1.75 | K 87 ESQ 100LA8 KF 87 ESQ 100LA8 KA 87 ESQ 100LA8 KAF 87 ESQ 100LA8 |
| 5.4 | 1320 | 126.91 | 28600 | 2.0 | |
| 6.0 | 1200 | 115.82 | 28700 | 2.2 | |
| 6.7 | 1070 | 102.71 | 28700 | 2.5 | |
| 5.2 | 1390 | 174.19 | 28600 | 1.95 | K 87 ESQ 90S6 KF 87 ESQ 90S6 KA 87 ESQ 90S6 KAF 87 ESQ 90S6 |
| 5.5 | 1310 | 164.34 | 28600 | 2.1 | |
| 6.1 | 1170 | 147.32 | 28700 | 2.3 | |
| 7.1 | 1010 | 128.91 | 28800 | 2.7 | |
| 7.0 | 1020 | 197.37 | 28800 | 2.6 | K 87 ESQ 80B4 KF 87 ESQ 80B4 KA 87 ESQ 80B4 KAF 87 ESQ 80B4 |
| 7.9 | 900 | 174.19 | 28800 | 3.0 | |
| 8.4 | 850 | 164.34 | 28900 | 3.2 | |
| 9.4 | 765 | 147.32 | 28900 | 3.5 | |
| 6.7 | 1080 | 135.28 | 18000 | 1.45 | K 77 ESQ 90S6 KF 77 ESQ 90S6 KA 77 ESQ 90S6 KAF 77 ESQ 90S6 |
| 7.0 | 1020 | 128.52 | 18200 | 1.50 | |
| 7.9 | 900 | 113.56 | 18700 | 1.70 | |
| 9.3 | 770 | 97.05 | 19100 | 2.0 | |
| 10 | 710 | 88.97 | 19200 | 2.2 | |
| 9.0 | 800 | 154.05 | 19000 | 1.95 | K 77 ESQ 80B4 KF 77 ESQ 80B4 KA 77 ESQ 80B4 KAF 77 ESQ 80B4 |
| 10 | 700 | 135.28 | 19300 | 2.2 | |
| 11 | 665 | 128.52 | 19300 | 2.3 | |
| 12 | 590 | 113.56 | 19500 | 2.6 | |
| 14 | 505 | 97.05 | 19700 | 3.1 | |
| 11 | 640 | 123.54 | 11700 | 1.30 | K 67 ESQ 80B4 KF 67 ESQ 80B4 KA 67 ESQ 80B4 KAF 67 ESQ 80B4 |
| 13 | 560 | 108.08 | 12100 | 1.45 | |
| 15 | 465 | 90.04 | 12600 | 1.75 | |
| 18 | 395 | 76.37 | 12800 | 2.1 | K 67 ESQ 80B4 KF 67 ESQ 80B4 KA 67 ESQ 80B4 KAF 67 ESQ 80B4 |
| 20 | 360 | 68.95 | 13000 | 2.3 | |
| 23 | 315 | 60.66 | 13000 | 2.6 | |
| 24 | 295 | 57.28 | 13000 | 2.8 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|----------------|---------|--------|---------|------|----------------------|
| 11 | 645 | 123.85 | 7130 | 0.95 | |
| 13 | 560 | 108.29 | 7940 | 1.05 | |
| 13 | 535 | 102.88 | 8160 | 1.10 | |
| 15 | 470 | 90.26 | 8570 | 1.30 | K 57 ESQ 80B4 |
| 18 | 395 | 76.56 | 8890 | 1.50 | KF 57 ESQ 80B4 |
| 20 | 360 | 69.12 | 9080 | 1.65 | KA 57 ESQ 80B4 |
| 23 | 315 | 60.81 | 9230 | 1.90 | KAF 57 ESQ 80B4 |
| 24 | 300 | 57.42 | 9230 | 2.0 | |
| 28 | 255 | 48.89 | 9450 | 2.4 | |
| 31 | 230 | 44.43 | 9530 | 2.6 | |
| 18 | 390 | 75.20 | 6060 | 1.00 | K 47 ESQ 80B4 |
| 20 | 365 | 69.84 | 6410 | 1.10 | KF 47 ESQ 80B4 |
| 22 | 330 | 63.30 | 6790 | 1.20 | KA 47 ESQ 80B4 |
| 24 | 295 | 56.83 | 7110 | 1.35 | KAF 47 ESQ 80B4 |
| 28 | 255 | 48.95 | 7430 | 1.55 | K 47 ESQ 80B4 |
| 30 | 240 | 46.03 | 7540 | 1.65 | KF 47 ESQ 80B4 |
| 35 | 205 | 39.61 | 7740 | 1.95 | KA 47 ESQ 80B4 |
| 39 | 184 | 35.39 | 7780 | 2.2 | KAF 47 ESQ 80B4 |
| 44 | 162 | 31.30 | 7550 | 2.5 | |
| 31 | 230 | 44.46 | 4170 | 0.85 | |
| 36 | 197 | 37.97 | 4150 | 1.00 | |
| 39 | 185 | 35.57 | 4140 | 1.10 | |
| 46 | 156 | 29.96 | 4080 | 1.30 | |
| 48 | 150 | 28.83 | 4060 | 1.35 | |
| 55 | 130 | 24.99 | 3990 | 1.55 | |
| 59 | 121 | 23.36 | 3950 | 1.60 | |
| 68 | 105 | 20.19 | 3860 | 1.75 | K 37 ESQ 80B4 |
| 80 | 89 | 17.15 | 3750 | 2.0 | KF 37 ESQ 80B4 |
| 90 | 80 | 15.31 | 3670 | 2.2 | KA 37 ESQ 80B4 |
| 105 | 68 | 13.08 | 3550 | 2.4 | KAF 37 ESQ 80B4 |
| 114 | 63 | 12.14 | 3550 | 2.5 | |
| 132 | 54 | 10.49 | 3380 | 2.9 | |
| 155 | 46 | 8.91 | 3250 | 3.5 | |
| 173 | 41 | 7.98 | 3180 | 3.8 | |
| 203 | 35 | 6.80 | 3030 | 4.2 | |
| 217 | 33 | 6.37 | 2980 | 4.4 | |
| 257 | 28 | 5.36 | 2840 | 5.0 | |
| 1.1 кВт | | | | | |
| 0.15 | 60700 | 9363 | 171000 | 0.80 | |
| 0.17 | 52400 | 8126 | 185900 | 0.95 | |
| 0.19 | 48300 | 7343 | 190000 | 1.05 | |
| 0.21 | 44300 | 6747 | 190000 | 1.15 | |
| 0.23 | 39200 | 5991 | 190000 | 1.30 | K 187 R97 ESQ 90S4 |
| 0.26 | 34900 | 5358 | 190000 | 1.45 | |
| 0.29 | 31200 | 4817 | 190000 | 1.60 | |
| 0.32 | 28300 | 4370 | 190000 | 1.75 | |
| 0.26 | 35000 | 5355 | 150000 | 0.90 | |
| 0.29 | 31200 | 4788 | 150000 | 1.05 | |
| 0.34 | 28800 | 4079 | 150000 | 1.20 | K 167 R97 ESQ 90S4 |
| 0.41 | 22200 | 3376 | 150000 | 1.45 | |
| 0.51 | 18000 | 2755 | 150000 | 1.80 | |
| 0.64 | 14600 | 2182 | 150000 | 2.2 | |
| 0.82 | 11300 | 1704 | 150000 | 2.8 | K 167 R97 ESQ 90S4 |
| 0.99 | 9330 | 1408 | 150000 | 3.4 | |
| 1.1 | 8560 | 1296 | 150000 | 3.7 | |
| 0.40 | 22900 | 3516 | 109300 | 0.80 | K 157 R97 ESQ 90S4 |
| 0.46 | 20100 | 3051 | 111100 | 0.90 | KF 157 R97 ESQ 90S4 |
| 0.54 | 16900 | 2610 | 112700 | 1.05 | KA 157 R97 ESQ 90S4 |
| 0.60 | 15100 | 2322 | 113500 | 1.20 | KAF 157 R97 ESQ 90S4 |
| 0.84 | 11000 | 1659 | 115000 | 1.65 | |
| 1.0 | 8970 | 1385 | 115800 | 2.0 | K 157 R97 ESQ 90S4 |
| 1.1 | 8030 | 1229 | 115800 | 2.2 | KF 157 R97 ESQ 90S4 |
| 1.3 | 7150 | 1093 | 116000 | 2.5 | KA 157 R97 ESQ 90S4 |
| 1.5 | 6160 | 942 | 116100 | 2.9 | KAF 157 R97 ESQ 90S4 |
| 1.6 | 5550 | 854 | 116200 | 3.2 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|----------------------|
| 0.73 | 13100 | 1926 | 79100 | 1.00 | |
| 0.80 | 11900 | 1757 | 79800 | 1.10 | |
| 0.91 | 10400 | 1541 | 80500 | 1.25 | |
| 1.0 | 9100 | 1342 | 81100 | 1.45 | |
| 1.2 | 7960 | 1177 | 81500 | 1.65 | K 127 R77 ESQ 90S4 |
| 1.4 | 6950 | 1025 | 81800 | 1.85 | KF 127 R77 ESQ 90S4 |
| 1.6 | 6080 | 899 | 82000 | 2.1 | KA 127 R77 ESQ 90S4 |
| 1.8 | 5270 | 790 | 82200 | 2.5 | KAF 127 R77 ESQ 90S4 |
| 2.0 | 4740 | 704 | 82400 | 2.7 | |
| 2.3 | 4090 | 610 | 82500 | 3.2 | |
| 2.5 | 3690 | 549 | 82500 | 3.5 | |
| 2.9 | 3180 | 477 | 82600 | 4.1 | |
| 1.2 | 7920 | 1166 | 85000 | 1.00 | |
| 1.4 | 6920 | 1030 | 85000 | 1.15 | |
| 1.5 | 6050 | 904 | 85000 | 1.30 | |
| 1.8 | 5380 | 793 | 85000 | 1.50 | |
| 2.0 | 4700 | 696 | 85000 | 1.70 | K 107 R77 ESQ 90S4 |
| 2.3 | 4120 | 615 | 85000 | 1.95 | KF 107 R77 ESQ 90S4 |
| 2.7 | 3500 | 522 | 85000 | 2.3 | KA 107 R77 ESQ 90S4 |
| 3.0 | 3080 | 461 | 85000 | 2.6 | KAF 107 R77 ESQ 90S4 |
| 3.4 | 2720 | 408 | 85000 | 2.9 | |
| 3.8 | 2450 | 364 | 85000 | 3.3 | |
| 4.4 | 2140 | 318 | 85000 | 3.7 | |
| 1.9 | 5030 | 743 | 39900 | 0.85 | |
| 2.2 | 4420 | 652 | 40000 | 0.95 | |
| 2.4 | 3910 | 573 | 40000 | 1.10 | |
| 2.8 | 3400 | 504 | 40000 | 1.25 | K 97 R57 ESQ 90S4 |
| 3.2 | 2940 | 437 | 40000 | 1.45 | KF 97 R57 ESQ 90S4 |
| 3.7 | 2590 | 382 | 40000 | 1.65 | KA 97 R57 ESQ 90S4 |
| 4.1 | 2300 | 342 | 40000 | 1.85 | KAF 97 R57 ESQ 90S4 |
| 3.0 | 3220 | 474 | 26600 | 0.85 | |
| 3.3 | 2890 | 426 | 27000 | 0.95 | |
| 3.8 | 2520 | 373 | 27500 | 1.05 | K 87 R57 ESQ 90S4 |
| 4.2 | 2230 | 330 | 27800 | 1.20 | KF 87 R57 ESQ 90S4 |
| 4.8 | 1980 | 294 | 28100 | 1.35 | KA 87 R57 ESQ 90S4 |
| 5.6 | 1700 | 250 | 28300 | 1.60 | KAF 87 R57 ESQ 90S4 |
| 5.9 | 1600 | 236 | 28400 | 1.70 | |
| 7.0 | 1360 | 204 | 28800 | 2.0 | |
| 3.9 | 2720 | 176.05 | 40000 | 1.60 | K 97 ESQ 100LB8 |
| 4.4 | 2370 | 153.21 | 40000 | 1.80 | KF 97 ESQ 100LB8 |
| 4.8 | 2170 | 140.28 | 40000 | 2.0 | KA 97 ESQ 100LB8 |
| 5.5 | 1910 | 123.93 | 40000 | 2.2 | KAF 97 ESQ 100LB8 |
| 5.2 | 2010 | 176.05 | 40000 | 2.1 | K 97 ESQ 90L6 |
| 6.0 | 1750 | 153.21 | 40000 | 2.5 | KF 97 ESQ 90L6 |
| 6.6 | 1600 | 140.28 | 40000 | 2.7 | KA 97 ESQ 90L6 |
| 7.4 | 1420 | 123.93 | 40000 | 3.0 | KAF 97 ESQ 90L6 |
| 7.9 | 1320 | 176.05 | 40000 | 3.3 | K 97 ESQ 90S4 |
| 9.1 | 1150 | 153.21 | 40000 | 3.7 | KF 97 ESQ 90S4 |
| 10 | 1050 | 140.28 | 40000 | 4.1 | KA 97 ESQ 90S4 |
| 5.3 | 1990 | 174.18 | 28100 | 1.35 | K 87 ESQ 90L6 |
| 5.6 | 1880 | 164.34 | 28200 | 1.45 | KF 87 ESQ 90L6 |
| 6.2 | 1680 | 147.32 | 28300 | 1.60 | KA 87 ESQ 90L6 |
| 7.2 | 1450 | 126.91 | 28500 | 1.85 | KAF 87 ESQ 90L6 |
| 8.0 | 1310 | 174.19 | 28600 | 2.1 | K 87 ESQ 90S4 |
| 8.5 | 1230 | 164.34 | 28700 | 2.2 | KF 87 ESQ 90S4 |
| 9.5 | 1110 | 147.32 | 28700 | 2.4 | KA 87 ESQ 90S4 |
| 11 | 950 | 126.91 | 28800 | 2.8 | KAF 87 ESQ 90S4 |
| 12 | 870 | 115.82 | 28800 | 3.1 | |
| 6.8 | 1540 | 135.28 | 15400 | 1.00 | K 77 ESQ 90L6 |
| 7.2 | 1470 | 128.52 | 15900 | 1.05 | KF 77 ESQ 90L6 |
| 8.1 | 1300 | 113.56 | 17000 | 1.20 | KA 77 ESQ 90L6 |
| 9.5 | 1110 | 97.05 | 17900 | 1.40 | KAF 77 ESQ 90L6 |
| 10 | 1020 | 135.28 | 18300 | 1.55 | K 77 ESQ 90S4 |
| 11 | 960 | 128.52 | 18400 | 1.60 | KF 77 ESQ 90S4 |
| 12 | 850 | 113.56 | 18800 | 1.80 | KA 77 ESQ 90S4 |
| | | | | | KAF 77 ESQ 90S4 |

Каталог конических мотор-редукторов



| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|----------------|---------|--------|---------|------|--------------------|
| 14 | 730 | 97.05 | 19200 | 2.1 | K 77 ESQ 90S4 |
| 16 | 670 | 88.97 | 19300 | 2.3 | KF 77 ESQ 90S4 |
| 18 | 585 | 78.07 | 19500 | 2.7 | KA 77 ESQ 90S4 |
| 19 | 555 | 73.99 | 19800 | 2.8 | KAF 77 ESQ 90S4 |
| 13 | 610 | 108.03 | 10400 | 1.00 | K 67 ESQ 90S4 |
| 14 | 770 | 102.62 | 10700 | 1.05 | KF 67 ESQ 90S4 |
| 16 | 675 | 90.04 | 11400 | 1.20 | KA 67 ESQ 90S4 |
| 18 | 575 | 76.37 | 12000 | 1.45 | KAF 67 ESQ 90S4 |
| 20 | 515 | 68.95 | 12300 | 1.60 | |
| 23 | 455 | 60.66 | 12800 | 1.80 | K 67 ESQ 90S4 |
| 24 | 430 | 57.28 | 12700 | 1.90 | KF 67 ESQ 90S4 |
| 29 | 365 | 48.77 | 12900 | 2.2 | KA 67 ESQ 90S4 |
| 32 | 335 | 44.32 | 13000 | 2.5 | KAF 67 ESQ 90S4 |
| 36 | 290 | 38.39 | 13000 | 2.8 | |
| 16 | 675 | 90.26 | 2410 | 0.90 | |
| 18 | 575 | 76.56 | 7840 | 1.05 | |
| 20 | 520 | 69.12 | 8280 | 1.15 | |
| 23 | 455 | 60.81 | 8630 | 1.30 | K 57 ESQ 90S4 |
| 24 | 430 | 57.42 | 8750 | 1.40 | KF 57 ESQ 90S4 |
| 29 | 365 | 48.89 | 9020 | 1.65 | KA 57 ESQ 90S4 |
| 32 | 335 | 44.43 | 9160 | 1.80 | KAF 57 ESQ 90S4 |
| 36 | 290 | 38.49 | 9330 | 2.1 | |
| 39 | 270 | 35.70 | 9400 | 2.2 | |
| 46 | 225 | 30.28 | 9540 | 2.6 | |
| 51 | 205 | 27.34 | 9510 | 2.9 | |
| 58 | 181 | 24.05 | 9220 | 3.3 | |
| 62 | 170 | 22.71 | 9090 | 3.5 | |
| 72 | 145 | 19.34 | 8720 | 4.0 | |
| 80 | 132 | 17.57 | 8510 | 4.2 | |
| 92 | 114 | 15.22 | 8180 | 4.7 | K 57 ESQ 90S4 |
| 106 | 99 | 13.25 | 7880 | 5.1 | KF 57 ESQ 90S4 |
| 117 | 90 | 11.92 | 7570 | 4.6 | KA 57 ESQ 90S4 |
| 124 | 85 | 11.26 | 7450 | 4.9 | KAF 57 ESQ 90S4 |
| 146 | 72 | 9.59 | 7120 | 5.6 | |
| 161 | 65 | 8.71 | 6930 | 6.0 | |
| 186 | 57 | 7.55 | 6650 | 6.4 | |
| 213 | 49 | 6.57 | 6380 | 7.0 | |
| 25 | 425 | 56.83 | 3310 | 0.95 | K 47 ESQ 90S4 |
| 29 | 365 | 48.95 | 6380 | 1.10 | KF 47 ESQ 90S4 |
| 30 | 345 | 46.03 | 6610 | 1.15 | KA 47 ESQ 90S4 |
| 35 | 295 | 39.61 | 7090 | 1.35 | KAF 47 ESQ 90S4 |
| 40 | 265 | 35.39 | 7090 | 1.50 | |
| 45 | 235 | 31.30 | 6960 | 1.70 | K 47 ESQ 90S4 |
| 48 | 220 | 29.32 | 6890 | 1.80 | KF 47 ESQ 90S4* |
| 54 | 194 | 25.91 | 6730 | 2.1 | KA 47 ESQ 90S4* |
| 64 | 164 | 21.81 | 6510 | 2.4 | KAF 47 ESQ 90S4* |
| 72 | 147 | 19.58 | 6380 | 2.7 | |
| 47 | 225 | 29.96 | 3420 | 0.90 | |
| 56 | 188 | 24.99 | 3440 | 1.05 | |
| 60 | 175 | 23.96 | 3440 | 1.10 | |
| 69 | 152 | 20.19 | 3420 | 1.20 | |
| 82 | 129 | 17.15 | 3370 | 1.40 | |
| 91 | 115 | 15.31 | 3330 | 1.50 | K 37 ESQ 90S4 |
| 107 | 98 | 13.08 | 3200 | 1.70 | KF 37 ESQ 90S4 |
| 115 | 91 | 12.14 | 3220 | 1.75 | KA 37 ESQ 90S4 |
| 133 | 79 | 10.49 | 3140 | 2.0 | KAF 37 ESQ 90S4 |
| 157 | 67 | 8.91 | 3040 | 2.4 | |
| 176 | 60 | 7.96 | 2970 | 2.6 | |
| 206 | 51 | 6.80 | 2870 | 2.9 | |
| 220 | 48 | 6.37 | 2830 | 3.0 | |
| 261 | 40 | 5.36 | 2720 | 3.5 | |
| 1.5 кВт | | | | | |
| 0.21 | 60700 | 6747 | 171100 | 0.80 | |
| 0.24 | 53700 | 5991 | 183600 | 0.95 | |
| 0.26 | 47900 | 5358 | 190000 | 1.05 | K 187 R97 ESQ 90L4 |
| 0.29 | 42900 | 4817 | 190000 | 1.15 | |
| 0.32 | 38900 | 4370 | 190000 | 1.30 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|---------------|---------|--------|---------|------|----------------------|
| 0.39 | 33000 | 3609 | 190000 | 1.50 | |
| 0.46 | 27800 | 3062 | 190000 | 1.80 | K 187 R97 ESQ 90L4 |
| 0.56 | 22800 | 2519 | 190000 | 2.2 | |
| 0.62 | 20400 | 2268 | 190000 | 2.5 | |
| 0.35 | 36700 | 4079 | 150000 | 0.85 | |
| 0.42 | 30400 | 3376 | 150000 | 1.05 | K 167 R97 ESQ 90L4 |
| 0.51 | 24700 | 2755 | 150000 | 1.30 | |
| 0.65 | 19900 | 2182 | 150000 | 1.60 | |
| 0.83 | 15500 | 1704 | 150000 | 2.1 | K 167 R97 ESQ 90L4 |
| 1.0 | 12800 | 1408 | 150000 | 2.5 | |
| 1.1 | 11800 | 1296 | 150000 | 2.7 | |
| 0.61 | 20700 | 2322 | 110700 | 1.85 | K 157 R97 ESQ 90L4 |
| | | | | | KF 157 R97 ESQ 90L4 |
| | | | | | KA 157 R97 ESQ 90L4 |
| | | | | | KAF 157 R97 ESQ 90L4 |
| 0.85 | 15100 | 1659 | 113500 | 1.20 | |
| 1.0 | 12300 | 1365 | 114600 | 1.45 | |
| 1.1 | 11100 | 1229 | 115000 | 1.65 | K 157 R97 ESQ 90L4 |
| 1.3 | 9840 | 1093 | 115300 | 1.85 | KF 157 R97 ESQ 90L4 |
| 1.5 | 8480 | 942 | 115700 | 2.1 | KA 157 R97 ESQ 90L4 |
| 1.6 | 7650 | 854 | 115900 | 2.3 | KAF 157 R97 ESQ 90L4 |
| 2.5 | 5050 | 567 | 116300 | 3.6 | |
| 2.8 | 4490 | 504 | 116400 | 4.0 | |
| 2.6 | 4820 | 536 | 82300 | 2.7 | K 127 R87 ESQ 90L4 |
| 3.4 | 3770 | 418 | 82500 | 3.5 | KF 127 R87 ESQ 90L4 |
| | | | | | KA 127 R87 ESQ 90L4 |
| | | | | | KAF 127 R87 ESQ 90L4 |
| 3.8 | 3330 | 367 | 82600 | 3.9 | |
| 0.80 | 16200 | 1757 | 73400 | 0.80 | |
| 0.91 | 14200 | 1541 | 77500 | 0.90 | |
| 1.0 | 12400 | 1342 | 79500 | 1.05 | |
| 1.2 | 10900 | 1177 | 80300 | 1.20 | |
| 1.4 | 9470 | 1025 | 80900 | 1.35 | K 127 R77 ESQ 90L4 |
| 1.6 | 8300 | 899 | 81400 | 1.55 | KF 127 R77 ESQ 90L4 |
| 1.8 | 7210 | 790 | 81700 | 1.80 | KA 127 R77 ESQ 90L4 |
| 2.0 | 6480 | 704 | 81900 | 2.0 | KAF 127 R77 ESQ 90L4 |
| 2.3 | 5590 | 610 | 82200 | 2.3 | |
| 2.6 | 5040 | 548 | 82300 | 2.6 | |
| 3.0 | 4360 | 477 | 82400 | 3.0 | |
| 3.4 | 3840 | 418 | 82500 | 3.4 | |
| 1.4 | 9460 | 1030 | 65000 | 0.85 | |
| 1.6 | 8280 | 904 | 65000 | 0.95 | |
| 1.8 | 7330 | 739 | 65000 | 1.10 | |
| 2.0 | 6420 | 696 | 65000 | 1.25 | K 107 R77 ESQ 90L4 |
| 2.3 | 5640 | 615 | 65000 | 1.40 | KF 107 R77 ESQ 90L4 |
| 2.7 | 4780 | 522 | 65000 | 1.65 | KA 107 R77 ESQ 90L4 |
| 3.1 | 4210 | 461 | 65000 | 1.90 | KAF 107 R77 ESQ 90L4 |
| 3.5 | 3720 | 408 | 65000 | 2.2 | |
| 3.9 | 3350 | 364 | 65000 | 2.4 | |
| 4.4 | 2920 | 318 | 65000 | 2.7 | |
| 2.5 | 5320 | 573 | 38500 | 0.80 | |
| 2.8 | 4650 | 504 | 40000 | 0.95 | |
| 3.2 | 4020 | 437 | 40000 | 1.05 | K 97 R57 ESQ 90L4 |
| 3.7 | 3540 | 382 | 40000 | 1.20 | KF 97 R57 ESQ 90L4 |
| 4.1 | 3140 | 342 | 40000 | 1.35 | KA 97 R57 ESQ 90L4 |
| 4.6 | 2820 | 305 | 40000 | 1.50 | KAF 97 R57 ESQ 90L4 |
| 5.5 | 2380 | 258 | 40000 | 1.80 | |
| 6.1 | 2140 | 232 | 40000 | 2.0 | |
| 7.1 | 1840 | 199 | 40000 | 2.3 | |
| 4.3 | 3040 | 330 | 26800 | 0.90 | |
| 4.8 | 2700 | 294 | 27300 | 1.00 | K 87 R57 ESQ 90L4 |
| 5.6 | 2310 | 250 | 27700 | 1.15 | KF 87 R57 ESQ 90L4 |
| 6.0 | 2180 | 236 | 27900 | 1.25 | KA 87 R57 ESQ 90L4 |
| 7.0 | 1860 | 201 | 28200 | 1.45 | KAF 87 R57 ESQ 90L4 |
| 7.7 | 1690 | 183 | 28300 | 1.60 | |
| 4.9 | 2940 | 143.47 | 65000 | 2.7 | K 107 ESQ 112M8 |
| | | | | | KF 107 ESQ 112M8 |
| | | | | | KA 107 ESQ 112M8 |
| 5.8 | 2490 | 121.46 | 65000 | 3.2 | |
| 6.2 | 2300 | 112.41 | 65000 | 3.5 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|---------------|---------|--------|---------|------|------------------|
| 4.6 | 3140 | 153.21 | 40000 | 1.35 | K 97 ESQ 112M8 |
| 5.0 | 2870 | 140.28 | 40000 | 1.50 | KF 97 ESQ 112M8 |
| | | | | | KA 97 ESQ 112M8 |
| 5.7 | 2540 | 123.93 | 40000 | 1.70 | KAF 97 ESQ 112M8 |
| 5.2 | 2740 | 176.05 | 40000 | 1.55 | K 97 ESQ 100L6 |
| 6.0 | 2390 | 153.21 | 40000 | 1.80 | KF 97 ESQ 100L6 |
| 6.6 | 2180 | 140.26 | 40000 | 1.95 | KA 97 ESQ 100L6 |
| 7.4 | 1930 | 123.93 | 40000 | 2.2 | KAF 97 ESQ 100L6 |
| 8.0 | 1790 | 176.05 | 40000 | 2.4 | K 97 ESQ 90L4 |
| 9.2 | 1560 | 153.21 | 40000 | 2.8 | KF 97 ESQ 90L4 |
| 10 | 1430 | 140.28 | 40000 | 3.0 | KA 97 ESQ 90L4 |
| 11 | 1260 | 123.93 | 40000 | 3.4 | KAF 97 ESQ 90L4 |
| 6.2 | 2290 | 147.32 | 27800 | 1.20 | K 87 ESQ 100L6 |
| 7.2 | 1980 | 126.91 | 28100 | 1.35 | KF 87 ESQ 100L6 |
| 7.9 | 1800 | 115.82 | 28200 | 1.50 | KA 87 ESQ 100L6 |
| 9.0 | 1600 | 102.71 | 28400 | 1.70 | KAF 87 ESQ 100L6 |
| 8.1 | 1770 | 174.19 | 28300 | 1.55 | |
| 8.6 | 1670 | 164.34 | 28300 | 1.60 | K 87 ESQ 90L4 |
| 9.6 | 1500 | 147.32 | 28500 | 1.80 | KF 87 ESQ 90L4 |
| 11 | 1290 | 126.91 | 28800 | 2.1 | KA 87 ESQ 90L4 |
| 12 | 1180 | 115.82 | 28700 | 2.3 | KAF 87 ESQ 90L4 |
| 14 | 1040 | 102.71 | 28800 | 2.6 | |
| 16 | 880 | 86.34 | 28800 | 3.1 | |
| 8.1 | 1770 | 113.56 | 13600 | 0.90 | K 77 ESQ 100L6 |
| 9.5 | 1510 | 97.05 | 15700 | 1.05 | KF 77 ESQ 100L6 |
| 10 | 1390 | 88.97 | 16400 | 1.10 | KA 77 ESQ 100L6 |
| 12 | 1220 | 78.07 | 17400 | 1.30 | KAF 77 ESQ 100L6 |
| 10 | 1370 | 135.28 | 16500 | 1.15 | K 77 ESQ 90L4 |
| 11 | 1310 | 128.52 | 16900 | 1.20 | KF 77 ESQ 90L4 |
| 12 | 1150 | 113.56 | 17700 | 1.35 | KA 77 ESQ 90L4 |
| 15 | 990 | 97.05 | 18400 | 1.55 | KAF 77 ESQ 90L4 |
| 16 | 900 | 88.97 | 18700 | 1.70 | |
| 18 | 795 | 78.07 | 19000 | 1.95 | |
| 19 | 750 | 73.99 | 19100 | 2.1 | K 77 ESQ 90L4 |
| 22 | 660 | 64.75 | 19400 | 2.4 | KF 77 ESQ 90L4 |
| 24 | 595 | 58.34 | 19500 | 2.6 | KA 77 ESQ 90L4 |
| 28 | 520 | 51.18 | 19700 | 3.0 | KAF 77 ESQ 90L4 |
| 31 | 460 | 45.16 | 19800 | 3.4 | |
| 35 | 405 | 40.04 | 19800 | 3.8 | |
| 16 | 910 | 90.04 | 9370 | 0.90 | |
| 18 | 775 | 76.37 | 10700 | 1.05 | K 67 ESQ 90L4 |
| 20 | 700 | 68.95 | 11300 | 1.15 | KF 67 ESQ 90L4 |
| 23 | 615 | 60.66 | 11800 | 1.35 | KA 67 ESQ 90L4 |
| 25 | 580 | 57.28 | 12000 | 1.40 | KAF 67 ESQ 90L4 |
| 29 | 495 | 48.77 | 12400 | 1.65 | |
| 32 | 450 | 44.32 | 12600 | 1.80 | |
| 37 | 390 | 38.39 | 12800 | 2.0 | K 67 ESQ 90L4 |
| 40 | 360 | 35.62 | 12900 | 2.3 | KF 67 ESQ 90L4 |
| 47 | 305 | 30.22 | 13000 | 2.7 | KA 67 ESQ 90L4 |
| 52 | 275 | 27.28 | 13000 | 3.0 | KAF 67 ESQ 90L4 |
| 59 | 245 | 24.00 | 13000 | 3.3 | |
| 23 | 620 | 60.61 | 7480 | 0.95 | K 57 ESQ 90L4 |
| 25 | 685 | 57.42 | 7770 | 1.05 | KF 57 ESQ 90L4 |
| 29 | 495 | 48.89 | 8430 | 1.20 | KA 57 ESQ 90L4 |
| 32 | 450 | 44.43 | 8650 | 1.35 | KAF 57 ESQ 90L4 |
| 37 | 390 | 38.49 | 8920 | 1.55 | |
| 39 | 365 | 35.70 | 9040 | 1.65 | |
| 47 | 310 | 30.28 | 9190 | 1.95 | K 57 ESQ 90L4 |
| 52 | 280 | 27.34 | 9010 | 2.2 | KF 57 ESQ 90L4 |
| 59 | 245 | 24.05 | 8750 | 2.5 | KA 57 ESQ 90L4 |
| 62 | 230 | 22.71 | 8670 | 2.6 | KAF 57 ESQ 90L4 |
| 73 | 196 | 19.34 | 8360 | 2.9 | |
| 36 | 400 | 39.61 | 5890 | 1.00 | K 47 ESQ 90L4 |
| 40 | 360 | 35.39 | 6360 | 1.10 | KF 47 ESQ 90L4 |
| | | | | | KA 47 ESQ 90L4 |
| 45 | 320 | 31.30 | 6310 | 1.25 | KAF 47 ESQ 90L4 |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|----------------|---------|-------|---------|------|------------------------|
| 48 | 300 | 29.32 | 6270 | 1.35 | |
| 54 | 265 | 25.91 | 6190 | 1.50 | |
| 65 | 220 | 21.81 | 6050 | 1.80 | K 47 ESQ 90L4 |
| 72 | 199 | 19.58 | 5950 | 2.0 | KF 47 ESQ 90L4 |
| 84 | 171 | 16.86 | 5800 | 2.2 | KA 47 ESQ 90L4 |
| 89 | 161 | 15.86 | 5730 | 2.4 | KAF 47 ESQ 90L4 |
| 103 | 139 | 13.65 | 5560 | 2.6 | |
| 116 | 124 | 12.19 | 5430 | 2.8 | |
| 120 | 120 | 11.17 | 5340 | 2.3 | |
| 60 | 235 | 23.36 | 2860 | 0.80 | |
| 70 | 205 | 20.19 | 2920 | 0.90 | |
| 82 | 174 | 17.15 | 2940 | 1.05 | |
| 92 | 156 | 15.31 | 2950 | 1.10 | |
| 108 | 133 | 13.08 | 2930 | 1.25 | K 37 ESQ 90L4 |
| 116 | 123 | 12.14 | 2920 | 1.30 | KF 37 ESQ 90L4 |
| 134 | 107 | 10.49 | 2880 | 1.50 | KA 37 ESQ 90L4 |
| 158 | 91 | 8.91 | 2820 | 1.75 | KAF 37 ESQ 90L4 |
| 177 | 81 | 7.96 | 2770 | 1.90 | |
| 207 | 69 | 6.80 | 2700 | 2.2 | |
| 221 | 65 | 6.37 | 2670 | 2.2 | |
| 263 | 55 | 5.36 | 2580 | 2.6 | |
| 2.2 кВт | | | | | |
| 0.32 | 57900 | 4370 | 176200 | 0.85 | |
| 0.50 | 37000 | 2818 | 190000 | 1.35 | K 187 R97 ESQ 100LA4 |
| 0.39 | 48800 | 3609 | 190000 | 1.00 | |
| 0.46 | 41300 | 3062 | 190000 | 1.20 | |
| 0.56 | 33800 | 2519 | 190000 | 1.50 | |
| 0.62 | 30400 | 2268 | 190000 | 1.65 | K 187 R97 ESQ 100LA4 |
| 0.69 | 27400 | 2054 | 190000 | 1.80 | |
| 0.77 | 24200 | 1821 | 190000 | 2.1 | |
| 0.88 | 21400 | 1605 | 190000 | 2.3 | |
| 0.51 | 36600 | 2755 | 150000 | 0.85 | |
| 0.62 | 29800 | 2263 | 150000 | 1.05 | K 167 R97 ESQ 100LA4 |
| 0.65 | 29500 | 2182 | 150000 | 1.10 | |
| 0.83 | 22900 | 1704 | 150000 | 1.40 | |
| 1.0 | 19000 | 1408 | 150000 | 1.70 | |
| 1.1 | 17400 | 1298 | 150000 | 1.85 | K 167 R97 ESQ 100LA4 |
| 1.3 | 14700 | 1101 | 150000 | 2.2 | |
| 1.5 | 12600 | 944 | 150000 | 2.5 | |
| 0.85 | 22400 | 1659 | 109700 | 0.80 | |
| 1.0 | 18300 | 1385 | 112000 | 1.00 | K 157 R97 ESQ 100LA4 |
| 1.1 | 16500 | 1229 | 112900 | 1.10 | KF 157 R97 ESQ 100LA4 |
| 1.3 | 14600 | 1093 | 113700 | 1.25 | KA 157 R97 ESQ 100LA4 |
| 1.5 | 12600 | 942 | 114500 | 1.45 | KAF 157 R97 ESQ 100LA4 |
| 1.6 | 11400 | 854 | 114900 | 1.60 | |
| 1.9 | 9990 | 756 | 115300 | 1.80 | |
| 2.6 | 7180 | 536 | 81700 | 1.80 | K 127 R87 ESQ 100LA4 |
| 3.0 | 6310 | 473 | 82000 | 2.1 | KF 127 R87 ESQ 100LA4 |
| 3.4 | 5600 | 418 | 82200 | 2.3 | KA 127 R87 ESQ 100LA4 |
| 3.8 | 4950 | 367 | 82300 | 2.6 | KAF 127 R87 ESQ 100LA4 |
| 4.3 | 4440 | 330 | 82400 | 2.9 | |
| 1.4 | 14000 | 1025 | 78000 | 0.95 | |
| 1.6 | 12200 | 899 | 78600 | 1.05 | K 127 R77 ESQ 100LA4 |
| 1.8 | 10700 | 790 | 80400 | 1.20 | KF 127 R77 ESQ 100LA4 |
| 2.0 | 9580 | 704 | 80900 | 1.35 | KA 127 R77 ESQ 100LA4 |
| 2.3 | 8280 | 610 | 81400 | 1.55 | KAF 127 R77 ESQ 100LA4 |
| 2.6 | 7460 | 549 | 81600 | 1.75 | |
| 3.0 | 6460 | 477 | 81900 | 2.0 | |
| 3.4 | 5680 | 418 | 82100 | 2.3 | |
| 2.3 | 8340 | 615 | 65000 | 0.95 | |
| 2.7 | 7070 | 522 | 65000 | 1.15 | K 107 R77 ESQ 100LA4 |
| 3.1 | 6230 | 461 | 65000 | 1.30 | KF 107 R77 ESQ 100LA4 |
| 3.5 | 5520 | 408 | 65000 | 1.45 | KA 107 R77 ESQ 100LA4 |
| 3.9 | 4940 | 364 | 65000 | 1.60 | KAF 107 R77 ESQ 100LA4 |
| 4.4 | 4320 | 318 | 65000 | 1.85 | |
| 4.9 | 3890 | 286 | 65000 | 2.1 | |
| 5.6 | 3410 | 251 | 65000 | 2.3 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|--|
| 3.7 | 5210 | 382 | 39700 | 0.80 | |
| 4.1 | 4640 | 342 | 40000 | 0.95 | K 97 R57 ESQ 100LA4 |
| 4.6 | 4170 | 305 | 40000 | 1.05 | KF 97 R57 ESQ 100LA4 |
| 5.5 | 3510 | 258 | 40000 | 1.20 | KA 97 R57 ESQ 100LA4 |
| 6.1 | 3160 | 232 | 40000 | 1.35 | KAF 97 R57 ESQ 100LA4 |
| 7.1 | 2710 | 199 | 40000 | 1.60 | |
| 4.9 | 4310 | 143.47 | 65000 | 1.85 | K 107 ESQ 132S8 |
| 5.8 | 3650 | 121.46 | 65000 | 2.2 | KF 107 ESQ 132S8 |
| 6.2 | 3370 | 112.41 | 65000 | 2.4 | KA 107 ESQ 132S8 |
| 6.9 | 3020 | 100.75 | 65000 | 2.7 | KAF 107 ESQ 132S8 |
| 6.1 | 3420 | 153.21 | 40000 | 1.25 | K 97 ESQ 112M6 |
| 6.7 | 3140 | 140.28 | 40000 | 1.35 | KF 97 ESQ 112M6 |
| 7.6 | 2770 | 123.93 | 40000 | 1.55 | KA 97 ESQ 112M6 |
| 8.9 | 2350 | 105.13 | 40000 | 1.85 | KAF 97 ESQ 112M6 |
| 8.0 | 2820 | 176.05 | 40000 | 1.65 | K 97 ESQ 100LA4 |
| 9.2 | 2280 | 153.21 | 40000 | 1.90 | KF 97 ESQ 100LA4 |
| 10 | 2090 | 140.28 | 40000 | 2.1 | KA 97 ESQ 100LA4 |
| 11 | 1850 | 123.93 | 40000 | 2.3 | KAF 97 ESQ 100LA4 |
| 13 | 1570 | 105.13 | 40000 | 2.8 | K 97 ESQ 100LA4 KF 97 ESQ 100LA4 KA 97 ESQ 100LA4 KAF 97 ESQ 100LA4 |
| 15 | 1440 | 96.80 | 40000 | 3.0 | |
| 9.6 | 2200 | 147.32 | 27900 | 1.25 | K 87 ESQ 100LA4 |
| 11 | 1890 | 126.91 | 28200 | 1.45 | KF 87 ESQ 100LA4 KA 87 ESQ 100LA4 KAF 87 ESQ 100LA4 |
| 12 | 1730 | 115.82 | 28300 | 1.55 | |
| 14 | 1530 | 102.71 | 28500 | 1.75 | K 87 ESQ 100LA4 |
| 16 | 1290 | 86.34 | 28800 | 2.1 | KF 87 ESQ 100LA4 |
| 18 | 1180 | 79.34 | 28700 | 2.3 | KA 87 ESQ 100LA4 |
| 20 | 1050 | 70.46 | 28800 | 2.6 | KAF 87 ESQ 100LA4 |
| 22 | 940 | 63.00 | 28800 | 2.9 | |
| 12 | 1690 | 113.56 | 14300 | 0.90 | |
| 15 | 1450 | 97.05 | 16100 | 1.05 | K 77 ESQ 100LA4 |
| 16 | 1330 | 88.97 | 16800 | 1.15 | KF 77 ESQ 100LA4 |
| 18 | 1160 | 78.07 | 17800 | 1.35 | KA 77 ESQ 100LA4 |
| 19 | 1100 | 73.99 | 17900 | 1.40 | KAF 77 ESQ 100LA4 |
| 22 | 960 | 64.75 | 18400 | 1.60 | |
| 24 | 870 | 58.34 | 18800 | 1.80 | |
| 28 | 765 | 51.18 | 19100 | 2.0 | |
| 31 | 675 | 45.16 | 19300 | 2.3 | K 77 ESQ 100LA4 |
| 35 | 595 | 40.04 | 19500 | 2.6 | KF 77 ESQ 100LA4 |
| 40 | 525 | 35.20 | 19700 | 3.0 | KA 77 ESQ 100LA4 |
| 46 | 460 | 30.89 | 19800 | 3.4 | KAF 77 ESQ 100LA4 |
| 48 | 435 | 29.27 | 19800 | 3.6 | |
| 55 | 380 | 25.62 | 19900 | 4.1 | |
| 23 | 900 | 60.66 | 9490 | 0.90 | |
| 25 | 850 | 57.28 | 10000 | 0.95 | K 67 ESQ 100LA4 |
| 29 | 725 | 48.77 | 11100 | 1.15 | KF 67 ESQ 100LA4 |
| 32 | 660 | 44.32 | 11500 | 1.25 | KA 67 ESQ 100LA4 |
| 37 | 570 | 38.39 | 12100 | 1.40 | KAF 67 ESQ 100LA4 |
| 40 | 530 | 35.62 | 12300 | 1.55 | |
| 47 | 450 | 30.22 | 12800 | 1.80 | |
| 52 | 405 | 27.28 | 12800 | 2.0 | |
| 59 | 360 | 24.00 | 13000 | 2.2 | |
| 62 | 340 | 22.66 | 13000 | 2.3 | |
| 73 | 285 | 19.30 | 13000 | 2.6 | |
| 80 | 260 | 17.54 | 13000 | 2.8 | K 67 ESQ 100LA4 |
| 93 | 225 | 15.19 | 13000 | 3.1 | KF 67 ESQ 100LA4 |
| 107 | 197 | 13.22 | 13000 | 3.4 | KA 67 ESQ 100LA4 |
| 113 | 186 | 12.48 | 13000 | 2.8 | KAF 67 ESQ 100LA4 |
| 133 | 158 | 10.63 | 13000 | 3.2 | |
| 146 | 144 | 9.66 | 13000 | 3.3 | |
| 169 | 125 | 8.37 | 13000 | 3.5 | |
| 194 | 109 | 7.28 | 12700 | 3.9 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|---|
| 32 | 660 | 44.43 | 5100 | 0.90 | K 57 ESQ 100LA4 |
| 37 | 575 | 38.49 | 7850 | 1.05 | KF 57 ESQ 100LA4 |
| 39 | 530 | 35.70 | 8080 | 1.15 | KA 57 ESQ 100LA4 |
| 47 | 450 | 30.28 | 8250 | 1.35 | KAF 57 ESQ 100LA4 |
| 52 | 405 | 27.34 | 8180 | 1.45 | |
| 59 | 360 | 24.05 | 8030 | 1.65 | |
| 62 | 340 | 22.71 | 7970 | 1.75 | K 57 ESQ 100LA4 |
| 73 | 290 | 19.34 | 7760 | 2.0 | KF 57 ESQ 100LA4 |
| 80 | 260 | 17.57 | 7630 | 2.1 | KA 57 ESQ 100LA4 |
| 93 | 225 | 15.22 | 7430 | 2.4 | KAF 57 ESQ 100LA4 |
| 106 | 197 | 13.25 | 7220 | 2.6 | |
| 118 | 178 | 11.92 | 6890 | 2.3 | |
| 125 | 168 | 11.28 | 6810 | 2.5 | |
| 54 | 385 | 25.91 | 5280 | 1.05 | K 47 ESQ 100LA4 |
| 65 | 325 | 21.81 | 8260 | 1.25 | KF 47 ESQ 100LA4 KA 47 ESQ 100LA4 KAF 47 ESQ 100LA4 |
| 72 | 290 | 19.58 | 5240 | 1.35 | |
| 84 | 250 | 16.86 | 5190 | 1.50 | |
| 89 | 235 | 15.86 | 5160 | 1.60 | K 47 ESQ 100LA4 |
| 103 | 205 | 123.65 | 5070 | 1.75 | KF 47 ESQ 100LA4 |
| 116 | 182 | 12.19 | 4990 | 1.95 | KA 47 ESQ 100LA4 |
| 120 | 175 | 11.77 | 4890 | 1.60 | KAF 47 ESQ 100LA4 |
| 133 | 157 | 10.56 | 4810 | 1.80 | |
| 155 | 136 | 9.10 | 4690 | 2.1 | |
| 108 | 195 | 13.08 | 2370 | 0.85 | |
| 134 | 156 | 10.49 | 2430 | 1.00 | K 37 ESQ 100LA4 |
| 158 | 133 | 8.91 | 2440 | 1.20 | KF 37 ESQ 100LA4 |
| 177 | 119 | 7.96 | 2430 | 1.30 | KA 37 ESQ 100LA4 |
| 207 | 101 | 6.80 | 2410 | 1.50 | KAF 37 ESQ 100LA4 |
| 221 | 95 | 6.37 | 2400 | 1.55 | |
| 263 | 80 | 5.36 | 2350 | 1.75 | |
| 3 кВт | | | | | |
| 0.50 | 51300 | 2818 | 187700 | 0.95 | K 187 ESQ 100LB4 |
| 0.46 | 57100 | 3062 | 177600 | 0.90 | |
| 0.56 | 46800 | 2519 | 190000 | 1.05 | |
| 0.62 | 42100 | 2268 | 190000 | 1.20 | |
| 0.68 | 38000 | 2054 | 190000 | 1.30 | K 187 R97 ESQ 100LB4 |
| 0.77 | 33600 | 1821 | 190000 | 1.50 | |
| 0.87 | 29700 | 1605 | 190000 | 1.70 | |
| 1.0 | 25600 | 1395 | 190000 | 1.95 | |
| 1.2 | 22100 | 1196 | 190000 | 2.3 | |
| 0.82 | 31700 | 1704 | 150000 | 1.00 | |
| 0.99 | 26200 | 1408 | 150000 | 1.20 | |
| 1.1 | 24100 | 1296 | 150000 | 1.35 | |
| 1.3 | 20300 | 1101 | 150000 | 1.55 | K 167 R97 ESQ 100LB4 |
| 1.5 | 17500 | 944 | 150000 | 1.85 | |
| 1.7 | 15500 | 843 | 150000 | 2.1 | |
| 1.9 | 14000 | 757 | 150000 | 2.3 | |
| 1.1 | 22800 | 1229 | 109400 | 0.80 | K 157 R97 ESQ 100LB4 |
| 1.3 | 20300 | 1093 | 111000 | 0.90 | KF 157 R97 ESQ 100LB4 |
| 1.5 | 17500 | 942 | 112400 | 1.05 | KA 157 R97 ESQ 100LB4 |
| 1.6 | 15800 | 854 | 113200 | 1.15 | KAF 157 R97 ESQ 100LB4 |
| 1.9 | 13900 | 756 | 114000 | 1.30 | |
| 2.5 | 10500 | 567 | 115200 | 1.70 | 100LB4 |
| 2.8 | 9310 | 504 | 115500 | 1.95 | |
| 2.6 | 9940 | 536 | 80700 | 1.30 | K 127 R87 ESQ 100LB4 |
| 3.0 | 8750 | 473 | 81200 | 1.50 | KF 127 R87 ESQ 100LB4 |
| 3.3 | 7760 | 418 | 81500 | 1.70 | KA 127 R87 ESQ 100LB4 |
| 3.8 | 6840 | 367 | 81800 | 1.90 | KAF 127 R87 ESQ 100LB4 |
| 4.2 | 6140 | 330 | 82000 | 2.1 | |
| 4.9 | 5300 | 287 | 82200 | 2.5 | |
| 1.8 | 14800 | 790 | 76500 | 0.90 | K 127 R77 ESQ 100LB4 |
| 2.0 | 13200 | 704 | 79100 | 1.00 | KF 127 R77 ESQ 100LB4 |
| 2.3 | 11400 | 610 | 80000 | 1.15 | KA 127 R77 ESQ 100LB4 |
| 2.5 | 10300 | 549 | 80800 | 1.25 | KAF 127 R77 ESQ 100LB4 |
| 2.9 | 8920 | 477 | 81100 | 1.45 | |
| 3.3 | 7840 | 418 | 81500 | 1.65 | 100LB4 |

| n2 [1/мин] | M [Н*м] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|-----------------------|
| 3.0 | 8610 | 461 | 65000 | 0.95 | |
| 3.4 | 7620 | 408 | 65000 | 1.05 | |
| 3.8 | 6820 | 364 | 65000 | 1.15 | |
| 4.4 | 5960 | 318 | 65000 | 1.35 | K 107 R77 ESQ 100LB4 |
| 4.9 | 5370 | 286 | 65000 | 1.50 | KF 107 R77 ESQ 100LB4 |
| 5.6 | 4700 | 251 | 65000 | 1.70 | KA 107 R77 ESQ 100LB4 |
| 6.3 | 4150 | 222 | 65000 | 1.95 | KAF 107 R77 ESQ |
| 7.1 | 3670 | 196 | 65000 | 2.2 | 100LB4 |
| 8.1 | 3250 | 174 | 65000 | 2.2 | |
| 9.1 | 2880 | 154 | 65000 | 2.5 | |
| 10 | 2610 | 140 | 65000 | 2.8 | |
| 5.4 | 4840 | 258 | 40000 | 0.90 | K 97 R57 ESQ 100LB4 |
| 6.0 | 4360 | 232 | 40000 | 1.00 | KF R57 ESQ 100LB4 |
| | | | | | KA R57 ESQ 100LB4 |
| 7.0 | 3740 | 199 | 40000 | 1.15 | KAF R57 ESQ 100LB4 |
| 5.0 | 5710 | 143.47 | 65000 | 1.40 | K107 ESQ 132M8 |
| 5.9 | 4830 | 121.46 | 65000 | 1.65 | KF 107 ESQ 132M8 |
| 6.4 | 4470 | 112.41 | 65000 | 1.80 | KA 107 ESQ 132M8 |
| 7.2 | 4010 | 100.75 | 65000 | 2.0 | KAF 107 ESQ 132M8 |
| 7.9 | 3620 | 90.96 | 65000 | 2.2 | |
| 6.6 | 4370 | 143.47 | 65000 | 1.85 | K107 ESQ 132S6 |
| 7.7 | 3700 | 121.46 | 65000 | 2.2 | KF 107 ESQ 132S6 |
| 8.4 | 3430 | 112.41 | 65000 | 2.3 | KA 107 ESQ 132S6 |
| 9.3 | 3070 | 100.75 | 65000 | 2.6 | KAF 107 ESQ 132S6 |
| 9.8 | 2940 | 143.47 | 65000 | 2.7 | K 107 ESQ 100LB4 |
| | | | | | KF 107 ESQ 100LB4 |
| | | | | | KA 107 ESQ 100LB4 |
| 12 | 2490 | 121.46 | 65000 | 3.2 | KAF 107 ESQ 100LB4 |
| 7.6 | 3780 | 123.93 | 40000 | 1.15 | K97 ESQ 132S6 |
| 8.9 | 3200 | 105.13 | 40000 | 1.35 | KF 97 ESQ 132S6 |
| 9.7 | 2950 | 96.80 | 40000 | 1.45 | KA 97 ESQ 132S6 |
| 11 | 2640 | 86.52 | 40000 | 1.65 | KAF 97 ESQ 132S6 |
| 7.9 | 3600 | 176.05 | 40000 | 1.20 | K 97 ESQ 100LB4 |
| 9.1 | 3140 | 153.21 | 40000 | 1.35 | KF 97 ESQ 100LB4 |
| 10 | 2870 | 140.28 | 40000 | 1.50 | KA 97 ESQ 100LB4 |
| 11 | 2540 | 123.93 | 40000 | 1.70 | KAF 97 ESQ 100LB4 |
| 13 | 2150 | 105.13 | 40000 | 2.0 | |
| 14 | 1980 | 96.80 | 40000 | 2.2 | K 97 ESQ 100LB4 |
| 16 | 1770 | 86.52 | 40000 | 2.4 | KF 97 ESQ 100LB4 |
| 18 | 1590 | 77.89 | 40000 | 2.7 | KA 97 ESQ 100LB4 |
| 20 | 1440 | 70.54 | 40000 | 3.0 | KAF 97 ESQ 100LB4 |
| 22 | 1280 | 62.55 | 40000 | 3.4 | |
| 25 | 1160 | 56.55 | 40000 | 3.7 | |
| 9.5 | 3010 | 147.32 | 28900 | 0.90 | K 87 ESQ 100LB4 |
| 11 | 2600 | 126.91 | 27400 | 1.05 | KF 87 ESQ 100LB4 |
| 12 | 2370 | 115.82 | 27700 | 1.15 | KA 87 ESQ 100LB4 |
| 14 | 2100 | 102.71 | 28000 | 1.30 | KAF 87 ESQ 100LB4 |
| 16 | 1770 | 86.34 | 28300 | 1.55 | |
| 18 | 1620 | 79.34 | 28400 | 1.65 | |
| 20 | 1440 | 70.46 | 28500 | 1.85 | K 87 ESQ 100LB4 |
| 22 | 1290 | 63.00 | 28600 | 2.1 | KF 87 ESQ 100LB4 |
| 25 | 1160 | 56.64 | 28700 | 2.3 | KA 87 ESQ 100LB4 |
| 28 | 1010 | 49.16 | 28800 | 2.7 | KAF 87 ESQ 100LB4 |
| 32 | 900 | 44.02 | 28800 | 2.9 | |
| 38 | 745 | 36.52 | 28400 | 3.3 | |
| 16 | 1820 | 88.97 | 13100 | 0.85 | |
| 18 | 1600 | 78.07 | 15000 | 0.95 | K 77 ESQ 100LB4 |
| 19 | 1510 | 73.99 | 15600 | 1.00 | KF 77 ESQ 100LB4 |
| 22 | 1330 | 64.75 | 16800 | 1.15 | KA 77 ESQ 100LB4 |
| 24 | 1190 | 58.34 | 17500 | 1.30 | KAF 77 ESQ 100LB4 |
| 27 | 1050 | 51.18 | 18 100 | 1.50 | |
| 31 | 920 | 45.16 | 18600 | 1.70 | K 77 ESQ 100LB4 |
| 35 | 820 | 40.04 | 18900 | 1.90 | KF 77 ESQ 100LB4 |
| 40 | 720 | 35.20 | 19200 | 2.2 | KA 77 ESQ 100LB4 |
| 45 | 630 | 30.89 | 19400 | 2.5 | KAF 77 ESQ 100LB4 |

| n2 [1/мин] | M [Н*м] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|-------|---------|------|----------------------|
| 32 | 910 | 44.32 | 9450 | 0.90 | |
| 36 | 785 | 38.39 | 10600 | 1.00 | K 67 ESQ 100LB4 |
| 39 | 730 | 35.62 | 11100 | 1.15 | KF 67 ESQ 100LB4 |
| 46 | 620 | 30.22 | 11800 | 1.35 | KA 67 ESQ 100LB4 |
| 51 | 560 | 27.28 | 12100 | 1.45 | KAF 67 ESQ 100LB4 |
| 58 | 490 | 24.00 | 12500 | 1.65 | |
| 62 | 465 | 22.66 | 12600 | 1.70 | |
| 73 | 395 | 19.30 | 12800 | 1.95 | |
| 80 | 360 | 17.54 | 13000 | 2.1 | K 67 ESQ 100LB4 |
| 92 | 310 | 15.19 | 13000 | 2.2 | KF 67 ESQ 100LB4 |
| 106 | 270 | 13.22 | 13000 | 2.5 | KA 67 ESQ 100LB4 |
| 112 | 255 | 12.48 | 13000 | 2.1 | KAF 67 ESQ 100LB4 |
| 132 | 220 | 10.63 | 13000 | 2.3 | |
| 145 | 198 | 9.66 | 13000 | 2.4 | |
| 46 | 620 | 30.28 | 7180 | 0.95 | K 57 ESQ 100LB4 |
| 51 | 560 | 27.34 | 7190 | 1.05 | KF 57 ESQ 100LB4 |
| 58 | 490 | 24.05 | 7180 | 1.20 | KA 57 ESQ 100LB4 |
| 62 | 465 | 22.71 | 7160 | 1.30 | KAF 57 ESQ 100LB4 |
| 72 | 395 | 19.34 | 7080 | 1.45 | |
| 80 | 360 | 17.57 | 7020 | 1.55 | |
| 92 | 310 | 15.22 | 8890 | 1.70 | K 57 ESQ 100LB4 |
| 106 | 270 | 13.25 | 6750 | 1.90 | KF 57 ESQ 100LB4 |
| 117 | 245 | 19.92 | 6420 | 1.70 | KA 57 ESQ 100LB4 |
| 124 | 230 | 11.26 | 6370 | 1.80 | KAF 57 ESQ 100LB4 |
| 146 | 196 | 9.59 | 6200 | 2.1 | |
| 161 | 178 | 8.71 | 6090 | 2.2 | |
| 186 | 154 | 7.55 | 5920 | 2.4 | |
| 213 | 134 | 6.57 | 5750 | 2.6 | |
| 72 | 400 | 19.58 | 4430 | 1.00 | K 47 ESQ 100LB4 |
| 83 | 345 | 18.86 | 4490 | 1.10 | KF 47 ESQ 100LB4 |
| 88 | 325 | 15.86 | 4500 | 1.15 | KA 47 ESQ 100LB4 |
| 103 | 280 | 13.65 | 4510 | 1.30 | KAF 47 ESQ 100LB4 |
| 115 | 250 | 12.19 | 4490 | 1.40 | |
| 119 | 240 | 11.77 | 4370 | 1.15 | K 47 ESQ 100LB4 |
| 133 | 215 | 10.56 | 4350 | 1.30 | KF 47 ESQ 100LB4 |
| 154 | 186 | 9.10 | 4290 | 1.50 | KA 47 ESQ 100LB4 |
| 164 | 175 | 8.56 | 4270 | 1.55 | KAF 47 ESQ 100LB4 |
| 190 | 151 | 7.36 | 4190 | 1.65 | |
| 213 | 135 | 6.58 | 4120 | 1.80 | |
| 241 | 119 | 5.81 | 4030 | 1.95 | |
| 157 | 182 | 8.91 | 2000 | 0.90 | K 37 ESQ 100LB4 |
| 176 | 163 | 7.96 | 2040 | 0.95 | KF 37 ESQ 100LB4 |
| 206 | 139 | 6.80 | 2080 | 1.10 | KA 37 ESQ 100LB4 |
| 220 | 130 | 6.37 | 2080 | 1.10 | KAF 37 ESQ 100LB4 |
| 261 | 110 | 5.36 | 2090 | 1.30 | |
| 4 кВт | | | | | |
| 1.7 | 20300 | 835 | 190000 | 2.5 | K 187 R107 ESQ 112M4 |
| 2.7 | 12600 | 520 | 190000 | 4.0 | |
| 0.56 | 61900 | 2519 | 188800 | 0.80 | |
| 0.63 | 55600 | 2268 | 180200 | 0.90 | |
| 0.69 | 50300 | 2054 | 189400 | 1.00 | |
| 0.78 | 44500 | 1821 | 190000 | 1.10 | |
| 0.88 | 39300 | 1605 | 190000 | 1.25 | K 187 R97 ESQ 112M4 |
| 1.0 | 34000 | 1395 | 190000 | 1.45 | |
| 1.2 | 29200 | 1196 | 190000 | 1.70 | |
| 1.4 | 25600 | 1046 | 190000 | 1.95 | |
| 1.5 | 23100 | 945 | 190000 | 2.2 | |
| 1.0 | 34600 | 1408 | 150000 | 0.90 | |
| 1.1 | 31900 | 1296 | 150000 | 1.00 | |
| 1.3 | 26900 | 1101 | 150000 | 1.20 | |
| 1.5 | 23100 | 944 | 150000 | 1.40 | K 167 R97 ESQ 112M4 |
| 1.7 | 20500 | 843 | 150000 | 1.55 | |
| 1.9 | 18500 | 757 | 150000 | 1.75 | |
| 2.2 | 15400 | 632 | 150000 | 2.1 | |

| n2 [1/мин] | M [Н*м] | i | Fr2 [N] | fs | Редуктор + PAM |
|------------|---------|--------|---------|------|-----------------------|
| 1.7 | 20900 | 854 | 110600 | 0.85 | K 157 R97 ESQ 112M4 |
| 1.9 | 18400 | 756 | 112000 | 1.00 | KF 157 R97 ESQ 112M4 |
| 2.5 | 13800 | 567 | 114000 | 1.30 | KA 157 R97 ESQ 112M4 |
| 2.8 | 12300 | 504 | 114600 | 1.45 | KAF 157 R97 ESQ 112M4 |
| 3.3 | 10600 | 434 | 115100 | 1.70 | |
| 2.7 | 13100 | 536 | 79100 | 1.00 | |
| 3.0 | 11600 | 473 | 79900 | 1.10 | K 127 R87 ESQ 112M4 |
| 3.4 | 10300 | 418 | 80600 | 1.25 | KF 127 R87 ESQ 112M4 |
| 3.9 | 9040 | 367 | 81100 | 1.45 | KA 127 R87 ESQ 112M4 |
| 4.3 | 8120 | 330 | 81400 | 1.60 | KAF 127 R87 ESQ 112M4 |
| 5.0 | 7010 | 287 | 81800 | 1.85 | |
| 5.6 | 6200 | 253 | 82000 | 2.1 | |
| 2.3 | 15100 | 610 | 75800 | 0.85 | K 127 R77 ESQ 112M4 |
| 2.6 | 13600 | 549 | 78800 | 0.95 | KF 127 R77 ESQ 112M4 |
| 3.0 | 11800 | 477 | 79800 | 1.10 | KA 127 R77 ESQ 112M4 |
| 3.4 | 10300 | 418 | 80500 | 1.25 | KAF 127 R77 ESQ 112M4 |
| 3.9 | 8990 | 364 | 650000 | 0.90 | |
| 4.5 | 7860 | 318 | 650000 | 1.00 | |
| 5.0 | 7080 | 286 | 650000 | 1.15 | K 107 R77 ESQ 112M4 |
| 5.7 | 6200 | 251 | 650000 | 1.30 | KF 107 R77 ESQ 112M4 |
| 6.4 | 5470 | 222 | 650000 | 1.45 | KA 107 R77 ESQ 112M4 |
| 7.2 | 4840 | 196 | 650000 | 1.65 | KAF 107 R77 ESQ 112M4 |
| 8.2 | 4290 | 174 | 650000 | 1.70 | |
| 9.2 | 3800 | 154 | 650000 | 1.90 | |
| 10 | 3440 | 140 | 650000 | 2.1 | |
| 7.1 | 4930 | 199 | 40000 | 0.85 | K 97 R57 ESQ 112M4 |
| | | | | | KF 97 R57 ESQ 112M4 |
| | | | | | KA 97 R57 ESQ 112M4 |
| | | | | | KAF 97 R57 ESQ 112M4 |
| 5.3 | 7220 | 132.14 | 81700 | 1.80 | K 127 D132ML8 |
| | | | | | KF 127 D132ML8 |
| 5.9 | 6500 | 122.48 | 81900 | 2.0 | KA 127 D132ML8 |
| | | | | | KAF 127 D132ML8 |
| 6.5 | 5850 | 110.18 | 82100 | 2.2 | |
| 6.6 | 5810 | 146.07 | 82120 | 2.2 | K 127 ESQ 132MA6 |
| 7.1 | 5420 | 136.14 | 82200 | 2.4 | KF 127 ESQ 132MA6 |
| 7.8 | 4870 | 122.48 | 82300 | 2.7 | KA 127 ESQ 132MA6 |
| 8.7 | 4380 | 110.18 | 82400 | 3.0 | KAF 127 ESQ 132MA6 |
| 6.4 | 5960 | 112.41 | 65000 | 1.35 | K 107 D132ML8 |
| 7.2 | 5340 | 100.75 | 65000 | 1.50 | KF 107 D132ML8 |
| 7.9 | 4830 | 90.96 | 65000 | 1.65 | KA 107 D132ML8 |
| 8.7 | 4380 | 82.61 | 65000 | 1.85 | KAF 107 D132ML8 |
| 6.7 | 5710 | 143.47 | 65000 | 1.40 | K 107 ESQ 132MA6 |
| 7.9 | 4830 | 121.46 | 65000 | 1.65 | KF 107 ESQ 132MA6 |
| 8.5 | 4470 | 112.41 | 65000 | 1.80 | KA 107 ESQ 132MA6 |
| 9.5 | 4010 | 100.75 | 65000 | 2.0 | KAF 107 ESQ 132MA6 |
| 11 | 3620 | 90.96 | 65000 | 2.2 | |
| 9.9 | 3860 | 143.47 | 65000 | 2.1 | |
| 12 | 3270 | 121.46 | 65000 | 2.5 | K 107 ESQ 112M4 |
| 13 | 3020 | 112.41 | 65000 | 2.7 | KF 107 ESQ 112M4 |
| 14 | 2710 | 100.75 | 65000 | 3.0 | KA 107 ESQ 112M4 |
| 16 | 2450 | 90.96 | 65000 | 3.3 | KAF 107 ESQ 112M4 |
| 17 | 2220 | 82.61 | 65000 | 3.6 | |
| 19 | 1970 | 73.30 | 65000 | 4.1 | |
| 9.3 | 4120 | 153.21 | 40000 | 1.05 | K 97 ESQ 112M4 |
| | | | | | KF 97 ESQ 112M4 |
| 10 | 3770 | 140.28 | 40000 | 1.15 | KA 97 ESQ 112M4 |
| | | | | | KAF 97 ESQ 112M4 |
| 11 | 3330 | 123.93 | 40000 | 1.30 | |
| 14 | 2830 | 105.13 | 40000 | 1.50 | K 97 ESQ 112M4 |
| 15 | 2600 | 96.80 | 40000 | 1.65 | KF 97 ESQ 112M4 |
| 16 | 2330 | 86.52 | 40000 | 1.85 | KA 97 ESQ 112M4 |
| 18 | 2100 | 77.89 | 40000 | 2.0 | KAF 97 ESQ 112M4 |
| 20 | 1900 | 70.54 | 40000 | 2.3 | |
| 12 | 3120 | 115.82 | 26700 | 0.85 | K 87 ESQ 112M4 |
| 14 | 2760 | 102.71 | 27200 | 1.00 | KF 87 ESQ 112M4 |
| 16 | 2320 | 86.34 | 27700 | 1.15 | KA 87 ESQ 112M4 |
| 18 | 2130 | 79.34 | 27900 | 1.25 | KAF 87 ESQ 112M4 |

| n2 [1/мин] | M [Н*м] | i | Fr2 [N] | fs | Редуктор + PAM |
|----------------|---------|-------|---------|------|-----------------------|
| 20 | 1900 | 70.46 | 28200 | 1.40 | |
| 23 | 1690 | 63.00 | 28300 | 1.60 | K 87 ESQ 112M4 |
| 25 | 1520 | 56.64 | 28500 | 1.75 | KF 87 ESQ 112M4 |
| 29 | 1320 | 49.16 | 28600 | 2.0 | KA 87 ESQ 112M4 |
| 32 | 1180 | 44.02 | 28300 | 2.2 | KAF 87 ESQ 112M4 |
| 39 | 980 | 36.52 | 27300 | 2.5 | |
| 22 | 1740 | 64.75 | 13900 | 0.90 | |
| 24 | 1570 | 58.34 | 15200 | 1.00 | K 77 ESQ 112M4 |
| 28 | 1380 | 51.18 | 16500 | 1.15 | KF 77 ESQ 112M4 |
| 31 | 1210 | 45.16 | 17400 | 1.30 | KA 77 ESQ 112M4 |
| 35 | 1080 | 40.04 | 18000 | 1.45 | KAF 77 ESQ 112M4 |
| 37 | 1030 | 38.39 | 18200 | 1.45 | |
| 40 | 950 | 35.20 | 18500 | 1.65 | |
| 46 | 830 | 30.89 | 18900 | 1.85 | K 77 ESQ 112M4 |
| 49 | 785 | 29.27 | 19000 | 1.95 | KF 77 ESQ 112M4 |
| 55 | 690 | 25.62 | 19300 | 2.2 | KA 77 ESQ 112M4 |
| 62 | 620 | 23.08 | 19500 | 2.5 | KAF 77 ESQ 112M4 |
| 70 | 545 | 20.25 | 19800 | 2.8 | |
| 47 | 810 | 30.22 | 10400 | 1.00 | K 67 ESQ 112M4 |
| 52 | 735 | 27.28 | 11000 | 1.10 | KF 67 ESQ 112M4 |
| 59 | 645 | 24.00 | 11800 | 1.25 | KA 67 ESQ 112M4 |
| 63 | 610 | 22.66 | 11800 | 1.30 | KAF 67 ESQ 112M4 |
| 74 | 520 | 19.30 | 12300 | 1.45 | |
| 81 | 470 | 17.54 | 12500 | 1.55 | |
| 94 | 410 | 15.19 | 12800 | 1.70 | K 67 ESQ 112M4 |
| 107 | 355 | 13.22 | 13000 | 1.90 | KF 67 ESQ 112M4 |
| 114 | 335 | 12.48 | 13000 | 1.60 | KA 67 ESQ 112M4 |
| 134 | 285 | 10.63 | 13000 | 1.75 | KAF 67 ESQ 112M4 |
| 147 | 260 | 9.66 | 12900 | 1.85 | |
| 170 | 225 | 8.37 | 12500 | 1.95 | |
| 195 | 196 | 7.28 | 12100 | 2.1 | |
| 59 | 645 | 24.05 | 6120 | 0.95 | |
| 63 | 610 | 22.71 | 6160 | 1.00 | |
| 73 | 520 | 19.34 | 6220 | 1.10 | |
| 81 | 475 | 17.57 | 6230 | 1.15 | |
| 93 | 410 | 15.22 | 6210 | 1.30 | K 57 ESQ 112M4 |
| 107 | 355 | 13.25 | 6150 | 1.45 | KF 57 ESQ 112M4 |
| 119 | 320 | 11.92 | 5810 | 1.30 | KA 57 ESQ 112M4 |
| 126 | 305 | 11.26 | 5790 | 1.35 | KAF 57 ESQ 112M4 |
| 148 | 260 | 9.56 | 5700 | 1.55 | |
| 163 | 235 | 8.71 | 5640 | 1.65 | |
| 188 | 205 | 7.55 | 5530 | 1.80 | |
| 216 | 177 | 6.57 | 5400 | 1.95 | |
| 5.5 кВт | | | | | |
| 0.79 | 61100 | 1821 | 170200 | 0.80 | |
| 0.89 | 53900 | 1605 | 183200 | 0.95 | |
| 1.0 | 46700 | 1395 | 190000 | 1.05 | |
| 1.2 | 40100 | 1196 | 190000 | 1.25 | |
| 1.4 | 35100 | 1046 | 190000 | 1.45 | K 187 R97 ESQ 132S4 |
| 1.5 | 31700 | 945 | 190000 | 1.60 | |
| 1.9 | 24800 | 738 | 190000 | 2.0 | |
| 2.3 | 20800 | 621 | 190000 | 2.4 | |
| 1.3 | 36900 | 1101 | 150000 | 0.85 | |
| 1.5 | 31700 | 944 | 150000 | 1.00 | |
| 1.7 | 28200 | 843 | 150000 | 1.15 | |
| 1.9 | 25400 | 757 | 150000 | 1.25 | |
| 2.3 | 21200 | 632 | 150000 | 1.50 | K 167 R97 ESQ 132S4 |
| 2.5 | 18700 | 561 | 150000 | 1.70 | |
| 3.0 | 16100 | 481 | 150000 | 2.0 | |
| 3.4 | 14100 | 423 | 150000 | 2.3 | |
| 2.2 | 22100 | 661 | 109900 | 0.80 | |
| 2.5 | 19000 | 567 | 111700 | 0.95 | K 157 R97 ESQ 132S4 |
| 2.8 | 16900 | 504 | 112700 | 1.05 | KF 157 R97 ESQ 132S4 |
| 3.3 | 14500 | 434 | 113800 | 1.25 | KA 157 R97 ESQ 132S4 |
| 3.8 | 12700 | 379 | 114500 | 1.40 | KAF 157 R97 ESQ 132S4 |
| 4.3 | 11100 | 333 | 115000 | 1.60 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|---------------|---------|--------|---------|------|-----------------------|
| 3.4 | 14100 | 418 | 77800 | 0.90 | |
| 3.9 | 12400 | 367 | 79500 | 1.05 | |
| 4.3 | 11100 | 330 | 80200 | 1.15 | K 127 R87 ESQ 132S4 |
| 5.0 | 9620 | 287 | 80800 | 1.35 | KF 127 R87 ESQ 132S4 |
| 5.6 | 8510 | 253 | 81300 | 1.55 | KA 127 R87 ESQ 132S4 |
| 6.7 | 7150 | 213 | 81700 | 1.80 | KAF 127 R87 ESQ 132S4 |
| 7.1 | 6740 | 200 | 81900 | 1.80 | |
| 8.6 | 5560 | 166 | 82200 | 2.2 | |
| 9.8 | 4920 | 147 | 82300 | 2.4 | |
| 6.4 | 7490 | 222 | 65000 | 1.05 | K 107 R77 ESQ 132S4 |
| 7.3 | 6640 | 196 | 65000 | 1.20 | KF 107 R77 ESQ 132S4 |
| 8.2 | 5870 | 174 | 65000 | 1.25 | KA 107 R77 ESQ 132S4 |
| 9.3 | 5200 | 154 | 65000 | 1.40 | KAF 107 R77 ESQ 132S4 |
| 10 | 4720 | 140 | 65000 | 1.55 | |
| 4.7 | 11100 | 150.41 | 115000 | 1.60 | K 157 ESQ 160MB8 |
| 5.8 | 9050 | 122.39 | 115500 | 2.0 | KF 157 ESQ 160MB8 |
| 7.1 | 7410 | 100.22 | 115900 | 2.4 | KA 157 ESQ 160MB8 |
| 7.8 | 6780 | 91.65 | 116000 | 2.7 | KAF 157 ESQ 160MB8 |
| 5.2 | 10100 | 136.14 | 80700 | 1.30 | K 127 ESQ 160MB8 |
| 5.8 | 9060 | 122.48 | 81100 | 1.45 | KF 127 ESQ 160MB8 |
| 6.4 | 8150 | 110.18 | 81400 | 1.60 | KA 127 ESQ 160MB8 |
| 7.9 | 6650 | 89.89 | 81900 | 1.95 | KAF 127 ESQ 160MB8 |
| 7.1 | 7450 | 136.14 | 81600 | 1.75 | K 127 ESQ 132MB6 |
| 7.8 | 6700 | 122.48 | 81900 | 1.95 | KF 127 ESQ 132MB6 |
| 8.7 | 6030 | 110.18 | 82100 | 2.2 | KA 127 ESQ 132MB6 |
| 11 | 4920 | 89.89 | 82300 | 2.6 | KAF 127 ESQ 132MB6 |
| 8.5 | 6150 | 112.41 | 65000 | 1.30 | K 107 ESQ 132MB6 |
| 9.5 | 5510 | 100.75 | 65000 | 1.45 | KF 107 ESQ 132MB6 |
| 11 | 4980 | 90.96 | 65000 | 1.60 | KA 107 ESQ 132MB6 |
| 12 | 4520 | 82.61 | 65000 | 1.75 | KAF 107 ESQ 132MB6 |
| 10 | 5270 | 143.47 | 65000 | 1.50 | |
| 12 | 4460 | 121.46 | 65000 | 1.80 | K 107 ESQ 132S4 |
| 13 | 4130 | 112.41 | 65000 | 1.95 | KF 107 ESQ 132S4 |
| 14 | 3700 | 100.75 | 65000 | 2.2 | KA 107 ESQ 132S4 |
| 16 | 3340 | 90.96 | 65000 | 2.4 | KAF 107 ESQ 132S4 |
| 17 | 3030 | 82.61 | 65000 | 2.6 | |
| 12 | 4550 | 123.93 | 40000 | 0.95 | K 97 ESQ 132S4 |
| 14 | 3860 | 105.13 | 40000 | 1.10 | KF 97 ESQ 132S4 |
| 15 | 3560 | 96.80 | 40000 | 1.20 | KA 97 ESQ 132S4 |
| 17 | 3180 | 86.52 | 40000 | 1.35 | KAF 97 ESQ 132S4 |
| 18 | 2860 | 77.89 | 40000 | 1.50 | K 97 ESQ 132S4 |
| 20 | 2590 | 70.54 | 40000 | 1.65 | KF 97 ESQ 132S4 |
| 23 | 2300 | 62.55 | 40000 | 1.85 | KA 97 ESQ 132S4 |
| 25 | 2080 | 56.55 | 39700 | 2.1 | KAF 97 ESQ 132S4 |
| 30 | 1760 | 47.93 | 38800 | 2.4 | |
| 17 | 3170 | 86.34 | 25600 | 0.85 | K 87 ESQ 132S4 |
| 18 | 2910 | 79.34 | 27000 | 0.95 | KF 87 ESQ 132S4 |
| 20 | 2590 | 70.46 | 27400 | 1.05 | KA 87 ESQ 132S4 |
| 23 | 2310 | 63.00 | 27500 | 1.15 | KAF 87 ESQ 132S4 |
| 25 | 2080 | 56.64 | 27300 | 1.30 | |
| 29 | 1810 | 49.16 | 26900 | 1.50 | K 87 ESQ 132S4 |
| 32 | 1620 | 44.02 | 26500 | 1.60 | KF 87 ESQ 132S4 |
| 39 | 1340 | 36.52 | 25800 | 1.85 | KA 87 ESQ 132S4 |
| 46 | 1150 | 31.39 | 25200 | 2.3 | KAF 87 ESQ 132S4 |
| 51 | 1020 | 27.88 | 24700 | 2.5 | |
| 32 | 1660 | 45.16 | 14600 | 0.95 | K 77 ESQ 132S4 |
| 36 | 1470 | 40.04 | 15900 | 1.05 | KF 77 ESQ 132S4 |
| 46 | 1130 | 30.89 | 17800 | 1.35 | KA 77 ESQ 132S4 |
| 49 | 1070 | 29.27 | 18000 | 1.45 | KAF 77 ESQ 132S4 |
| 56 | 940 | 25.62 | 18500 | 1.65 | |
| 62 | 850 | 23.08 | 18800 | 1.85 | |
| 71 | 745 | 20.25 | 19100 | 2.0 | K 77 ESQ 132S4 |
| 80 | 655 | 17.87 | 19400 | 2.2 | KF 77 ESQ 132S4 |
| 90 | 580 | 15.84 | 19200 | 2.4 | KA 77 ESQ 132S4 |
| 106 | 495 | 13.52 | 18600 | 2.7 | KAF 77 ESQ 132S4 |
| 116 | 455 | 12.36 | 17900 | 2.2 | |
| 132 | 400 | 10.84 | 17400 | 2.5 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|----------------|---------|--------|---------|------|-----------------------|
| 60 | 880 | 24.00 | 9720 | 0.90 | |
| 63 | 830 | 22.66 | 10200 | 0.95 | K 67 ESQ 132S4 |
| 74 | 710 | 19.30 | 11200 | 1.05 | KF 67 ESQ 132S4 |
| 82 | 645 | 17.54 | 11600 | 1.15 | KA 67 ESQ 132S4 |
| 94 | 560 | 15.19 | 12100 | 1.25 | KAF 67 ESQ 132S4 |
| 108 | 485 | 13.22 | 12500 | 1.40 | |
| 115 | 460 | 12.48 | 12600 | 1.15 | K 67 ESQ 132S4 |
| 135 | 390 | 10.63 | 12400 | 1.30 | KF 67 ESQ 132S4 |
| 148 | 355 | 9.66 | 12200 | 1.35 | KA 67 ESQ 132S4 |
| 171 | 305 | 8.37 | 11900 | 1.45 | KAF 67 ESQ 132S4 |
| 196 | 265 | 7.28 | 11600 | 1.55 | |
| 81 | 645 | 17.57 | 5080 | 0.85 | |
| 94 | 560 | 15.22 | 5210 | 0.95 | |
| 108 | 485 | 13.25 | 5280 | 1.05 | K 57 ESQ 132S4 |
| 120 | 440 | 11.92 | 4920 | 0.95 | KF 57 ESQ 132S4 |
| 127 | 415 | 11.26 | 4950 | 1.00 | KA 57 ESQ 132S4 |
| 149 | 350 | 9.59 | 4990 | 1.15 | KAF 57 ESQ 132S4 |
| 164 | 320 | 8.71 | 4990 | 1.20 | |
| 190 | 275 | 7.55 | 4960 | 1.30 | |
| 218 | 240 | 6.57 | 4910 | 1.45 | |
| 7.5 кВт | | | | | |
| 1.7 | 38200 | 835 | 190000 | 1.30 | |
| 2.0 | 33300 | 729 | 190000 | 1.50 | K 187 R107 ESQ 132M4 |
| 2.3 | 28400 | 622 | 190000 | 1.75 | |
| 1.2 | 55000 | 1196 | 181400 | 0.90 | |
| 1.4 | 48000 | 1046 | 190000 | 1.05 | |
| 1.5 | 43400 | 945 | 190000 | 1.15 | |
| 1.9 | 33900 | 738 | 190000 | 1.45 | K 187 R97 ESQ 132M4 |
| 2.3 | 28500 | 621 | 190000 | 1.75 | |
| 2.7 | 24100 | 527 | 190000 | 2.1 | |
| 1.7 | 38700 | 843 | 150000 | 0.85 | |
| 1.9 | 34700 | 757 | 150000 | 0.90 | |
| 2.3 | 29000 | 632 | 150000 | 1.10 | |
| 2.5 | 25700 | 561 | 150000 | 1.25 | K 167 R97 ESQ 132M4 |
| 3.0 | 22100 | 481 | 150000 | 1.45 | |
| 3.4 | 19400 | 423 | 150000 | 1.65 | |
| 3.9 | 16900 | 369 | 150000 | 1.90 | |
| 3.3 | 19900 | 434 | 111200 | 0.90 | K 157 R97 ESQ 132M4 |
| 3.8 | 17400 | 379 | 112500 | 1.05 | KF 157 R97 ESQ 132M4 |
| 4.3 | 15300 | 333 | 113500 | 1.20 | KA 157 R97 ESQ 132M4 |
| 4.9 | 13300 | 291 | 114200 | 1.35 | KAF 157 R97 ESQ 132M4 |
| 4.3 | 15200 | 330 | 75500 | 0.85 | |
| 5.0 | 13200 | 287 | 79100 | 1.00 | K 127 R87 ESQ 132M4 |
| 5.6 | 11600 | 253 | 19900 | 1.10 | KF 127 R87 ESQ 132M4 |
| 6.7 | 9790 | 213 | 80800 | 1.35 | KA 127 R87 ESQ 132M4 |
| 7.1 | 9220 | 200 | 81000 | 1.30 | KAF 127 R87 ESQ 132M4 |
| 8.6 | 7640 | 166 | 81600 | 1.55 | |
| 9.8 | 6740 | 147 | 81900 | 1.80 | |
| 4.4 | 16400 | 164.50 | 150000 | 1.95 | K 167 ESQ 160L8 |
| 5.3 | 13400 | 134.99 | 150000 | 2.4 | |
| 5.8 | 12300 | 164.50 | 150000 | 2.6 | K 167 ESQ 160M6 |
| 7.1 | 10100 | 134.99 | 150000 | 3.2 | |
| 6.4 | 11200 | 150.41 | 114900 | 1.60 | K 157 ESQ 160M6 |
| 7.8 | 9130 | 122.39 | 115000 | 1.95 | KF 157 ESQ 160M6 |
| 9.6 | 7480 | 100.22 | 115900 | 2.4 | KA 157 ESQ 160M6 |
| 10 | 6840 | 91.65 | 116000 | 2.6 | KAF 157 ESQ 160M6 |
| 12 | 5950 | 79.75 | 116200 | 3.0 | |
| 7.1 | 10200 | 136.14 | 80600 | 1.30 | K 127 ESQ 160M6 |
| 7.8 | 9140 | 122.48 | 81000 | 1.40 | KF 127 ESQ 160M6 |
| 8.7 | 8220 | 110.18 | 81400 | 1.60 | KA 127 ESQ 160M6 |
| 11 | 6710 | 89.89 | 81900 | 1.95 | KAF 127 ESQ 160M6 |
| 9.8 | 7320 | 146.07 | 81700 | 1.80 | |
| 11 | 6820 | 136.14 | 81800 | 1.90 | |
| 12 | 6130 | 122.48 | 82000 | 2.1 | K 127 ESQ 132M4 |
| 13 | 5520 | 110.18 | 82200 | 2.4 | KF 127 ESQ 132M4 |
| 16 | 4500 | 89.89 | 82400 | 2.9 | KA 127 ESQ 132M4 |
| 17 | 4110 | 81.98 | 82500 | 3.2 | KAF 127 ESQ 132M4 |
| 20 | 3550 | 70.95 | 82600 | 3.7 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|----------------|---------|--------|---------|------|--------------------|
| 10 | 7180 | 143.47 | 65000 | 1.10 | K 107 ESQ 132M4 |
| 12 | 6080 | 121.46 | 65000 | 1.30 | KF 107 ESQ 132M4 |
| 13 | 5630 | 112.41 | 65000 | 1.40 | KA 107 ESQ 132M4 |
| 14 | 5050 | 100.75 | 65000 | 1.60 | KAF 107 ESQ 132M4 |
| 16 | 4560 | 90.96 | 64200 | 1.75 | |
| 17 | 4140 | 82.61 | 63200 | 1.95 | K 107 ESQ 132M4 |
| 20 | 3670 | 73.30 | 61900 | 2.2 | KF 107 ESQ 132M4 |
| 22 | 3330 | 66.52 | 60900 | 2.4 | KA 107 ESQ 132M4 |
| 25 | 2860 | 57.17 | 59100 | 2.8 | KAF 107 ESQ 132M4 |
| 29 | 2500 | 49.90 | 57500 | 3.1 | |
| 34 | 2120 | 42.33 | 55500 | 3.5 | |
| 39 | 1850 | 37.00 | 53800 | 3.9 | |
| 15 | 4850 | 96.80 | 38300 | 0.90 | K 97 ESQ 132M4 |
| 17 | 4330 | 86.52 | 38300 | 1.00 | KF 97 ESQ 132M4 |
| 18 | 3900 | 77.89 | 38100 | 1.10 | KA 97 ESQ 132M4 |
| 20 | 3530 | 70.54 | 37900 | 1.20 | KAF 97 ESQ 132M4 |
| 23 | 3130 | 62.55 | 37500 | 1.35 | |
| 25 | 2830 | 56.55 | 37100 | 1.50 | K 97 ESQ 132M4 |
| 30 | 2400 | 47.93 | 36400 | 1.80 | KF 97 ESQ 132M4 |
| 34 | 2100 | 41.87 | 35600 | 2.0 | KA 97 ESQ 132M4 |
| 37 | 1920 | 38.30 | 35100 | 2.2 | KAF 97 ESQ 132M4 |
| 42 | 1710 | 34.23 | 34400 | 2.5 | |
| 23 | 3160 | 63.00 | 24100 | 0.85 | K 87 ESQ 132M4 |
| 25 | 2840 | 56.64 | 24200 | 0.95 | KF 87 ESQ 132M4 |
| 29 | 2460 | 49.16 | 24200 | 1.10 | KA 87 ESQ 132M4 |
| 32 | 2200 | 44.02 | 24200 | 1.20 | KAF 87 ESQ 132M4 |
| 39 | 1830 | 36.52 | 23900 | 1.35 | |
| 46 | 1570 | 31.39 | 23500 | 1.70 | |
| 51 | 1400 | 27.88 | 23200 | 1.85 | |
| 57 | 1250 | 24.92 | 22800 | 2.0 | K 87 ESQ 132M4 |
| 64 | 1120 | 22.41 | 22500 | 2.0 | KF 87 ESQ 132M4 |
| 74 | 970 | 19.45 | 21900 | 2.4 | KA 87 ESQ 132M4 |
| 82 | 870 | 17.42 | 21500 | 2.5 | KAF 87 ESQ 132M4 |
| 89 | 800 | 16.00 | 20600 | 2.2 | |
| 99 | 725 | 14.45 | 20700 | 2.9 | |
| 46 | 1550 | 30.89 | 15400 | 1.00 | K 77 ESQ 132M4 |
| 49 | 1470 | 29.27 | 16000 | 1.05 | KF 77 ESQ 132M4 |
| 56 | 1280 | 25.62 | 17000 | 1.20 | KA 77 ESQ 132M4 |
| 62 | 1160 | 23.08 | 17700 | 1.35 | KAF 77 ESQ 132M4 |
| 71 | 1010 | 20.25 | 18300 | 1.50 | |
| 80 | 890 | 17.87 | 18600 | 1.60 | |
| 90 | 795 | 15.84 | 18200 | 1.75 | |
| 106 | 675 | 13.52 | 17800 | 2.0 | K 77 ESQ 132M4 |
| 116 | 620 | 12.36 | 17000 | 1.60 | KF 77 ESQ 132M4 |
| 132 | 545 | 10.84 | 16700 | 1.80 | KA 77 ESQ 132M4 |
| 150 | 480 | 9.56 | 16300 | 1.95 | KAF 77 ESQ 132M4 |
| 169 | 425 | 8.48 | 15900 | 2.1 | |
| 198 | 365 | 7.24 | 15400 | 2.3 | |
| 9.2 кВт | | | | | |
| 1.7 | 46700 | 835 | 190000 | 1.05 | |
| 2.0 | 40700 | 729 | 190000 | 1.25 | |
| 2.3 | 34700 | 622 | 190000 | 1.45 | K 187 R107 D132L4 |
| 2.8 | 29100 | 520 | 190000 | 1.70 | |
| 3.2 | 25300 | 454 | 190000 | 1.95 | |
| 1.4 | 58600 | 1046 | 174800 | 0.85 | |
| 1.5 | 53000 | 945 | 184900 | 0.95 | |
| 2.0 | 41400 | 738 | 190000 | 1.20 | K 187 R97 D132ML4 |
| 2.3 | 34800 | 621 | 190000 | 1.45 | |
| 2.7 | 29500 | 527 | 190000 | 1.70 | |
| 4.5 | 17800 | 318 | 150000 | 1.80 | |
| 5.2 | 15500 | 278 | 150000 | 2.1 | |
| 5.9 | 13600 | 244 | 150000 | 2.3 | K 167 R107 D132ML4 |
| 6.8 | 11900 | 213 | 150000 | 2.7 | |
| 7.0 | 11500 | 206 | 150000 | 2.8 | |
| 2.3 | 35400 | 632 | 150000 | 0.90 | |
| 2.6 | 31300 | 561 | 150000 | 1.00 | |
| 3.0 | 27000 | 481 | 150000 | 1.20 | K 167 R97 D132ML4 |
| 3.4 | 23700 | 423 | 150000 | 1.35 | |
| 3.9 | 20600 | 369 | 150000 | 1.55 | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + PAM |
|---------------|---------|--------|---------|------|------------------------|
| 3.7 | 21400 | 385 | 110300 | 0.85 | K 157 R107 ESQ 132M4 |
| 4.4 | 18100 | 325 | 112100 | 1.00 | KF 157 R107 ESQ 132M4 |
| 4.8 | 16700 | 299 | 112800 | 1.10 | KA 157 R107 ESQ 132M4 |
| 5.7 | 14100 | 253 | 113900 | 1.25 | KAF 157 R107 ESQ 132M4 |
| 6.2 | 12800 | 230 | 114400 | 1.40 | |
| 3.8 | 21200 | 379 | 110400 | 0.85 | K 157 R97 ESQ 132M4 |
| 4.3 | 18600 | 333 | 111900 | 0.95 | KF 157 R97 ESQ 132M4 |
| 4.9 | 16300 | 291 | 113000 | 1.10 | KA 157 R97 ESQ 132M4 |
| 5.7 | 14200 | 253 | 113000 | 1.25 | KAF 157 R97 ESQ 132M4 |
| 6.8 | 11900 | 213 | 79800 | 1.10 | K 127 R87 ESQ 132M4 |
| 7.2 | 11200 | 200 | 80100 | 1.05 | KF 127 R87 ESQ 132M4 |
| 8.7 | 9320 | 166 | 81000 | 1.30 | KA 127 R87 ESQ 132M4 |
| 9.8 | 8230 | 147 | 81400 | 1.45 | KAF 127 R87 ESQ 132M4 |
| 11 | 8310 | 136.14 | 81300 | 1.55 | |
| 12 | 7470 | 122.48 | 81600 | 1.75 | K 127 D132ML4 |
| 13 | 6720 | 110.18 | 8190 | 1.95 | KF 127 D132ML4 |
| 16 | 5480 | 89.89 | 82200 | 2.4 | KA 127 D132ML4 |
| 18 | 5000 | 81.98 | 82300 | 2.6 | KAF 127 D132ML4 |
| 13 | 6860 | 112.41 | 62400 | 1.15 | K 107 D132ML4 |
| 14 | 6150 | 100.75 | 61800 | 130 | KF 107 D132ML4 |
| 16 | 5550 | 90.96 | 61100 | 1.45 | KA 107 D132ML4 |
| 17 | 5040 | 82.61 | 60400 | 1.60 | KAF 107 D132ML4 |
| 20 | 4470 | 73.30 | 59400 | 1.80 | K 107 D132ML4 |
| 22 | 4060 | 66.52 | 58600 | 1.95 | KF 107 D132ML4 |
| 25 | 3490 | 57.17 | 57100 | 2.3 | KA 107 D132ML4 |
| 29 | 3040 | 49.90 | 55700 | 2.6 | KAF 107 D132ML4 |
| 34 | 2580 | 42.33 | 54000 | 2.8 | |
| 18 | 4750 | 77.89 | 35100 | 0.90 | K 97 D132ML4 |
| 20 | 4300 | 70.54 | 35100 | 1.00 | KF 97 D132ML4 |
| 23 | 3820 | 62.55 | 35100 | 1.15 | KA 97 D132ML4 |
| 25 | 3450 | 56.55 | 34900 | 1.25 | KAF 97 D132ML4 |
| 30 | 2920 | 47.93 | 34400 | 1.45 | |
| 34 | 2550 | 41.87 | 34000 | 1.70 | |
| 38 | 2340 | 38.30 | 33600 | 1.85 | K 97 D132ML4 |
| 42 | 2090 | 34.23 | 33100 | 2.1 | KF 97 D132ML4 |
| 47 | 1880 | 30.82 | 32500 | 2.3 | KA 97 D132ML4 |
| 52 | 1700 | 27.91 | 32000 | 2.5 | KAF 97 D132ML4 |
| 58 | 1510 | 24.75 | 31300 | 2.8 | |
| 29 | 3000 | 49.16 | 22000 | 0.90 | K 87 D132ML4 |
| 33 | 2630 | 44.02 | 22200 | 0.95 | KF 87 D132ML4 |
| 39 | 2230 | 36.52 | 22200 | 1.10 | KA 87 D132ML4 |
| 46 | 1910 | 31.39 | 22100 | 1.40 | KAF 87 D132ML4 |
| 52 | 1700 | 27.88 | 21900 | 1.55 | |
| 58 | 1520 | 24.92 | 21700 | 1.65 | |
| 64 | 1370 | 22.41 | 21400 | 1.70 | |
| 74 | 1190 | 19.45 | 21000 | 1.95 | K 87 D132ML4 |
| 83 | 1060 | 17.42 | 20700 | 2.1 | KF 87 D132ML4 |
| 90 | 980 | 16.00 | 19700 | 1.85 | KA 87 D132ML4 |
| 100 | 880 | 14.45 | 20000 | 2.4 | KAF 87 D132ML4 |
| 115 | 765 | 12.56 | 19500 | 2.6 | |
| 129 | 880 | 11.17 | 18600 | 2.2 | |
| 144 | 610 | 10.00 | 18200 | 2.5 | |
| 62 | 1410 | 23.08 | 16300 | 1.10 | K 77 D132ML4 |
| 71 | 1240 | 20.25 | 17300 | 1.20 | KF 77 D132ML4 |
| 81 | 1090 | 17.87 | 17600 | 1.35 | KA 77 D132ML4 |
| 91 | 970 | 15.84 | 17400 | 1.45 | KAF 77 D132ML4 |
| 107 | 820 | 13.52 | 17000 | 1.60 | |
| 117 | 755 | 12.36 | 16300 | 1.35 | K 77 D132ML4 |
| 133 | 660 | 10.84 | 16000 | 1.50 | KF 77 D132ML4 |
| 151 | 585 | 9.56 | 15700 | 1.60 | KA 77 D132ML4 |
| 170 | 515 | 8.48 | 15400 | 1.70 | KAF 77 D132ML4 |
| 199 | 440 | 7.24 | 14900 | 1.85 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ | |
|---------------|---------|--------|---------|------|--|---------------------|
| 11 кВТ | | | | | | |
| 1.7 | 55900 | 835 | 179700 | 0.90 | K 187 R107 ESQ 160M4 | |
| 2.0 | 48800 | 729 | 190000 | 1.05 | | |
| 2.3 | 41600 | 622 | 190000 | 1.20 | | |
| 2.8 | 34800 | 520 | 190000 | 1.45 | | |
| 3.2 | 30400 | 454 | 190000 | 1.65 | | |
| 4.1 | 23800 | 355 | 190000 | 2.1 | | |
| 2.0 | 49600 | 738 | 190000 | 1.00 | | K 187 R97 ESQ 160M4 |
| 2.3 | 41700 | 621 | 190000 | 1.20 | | |
| 2.7 | 35300 | 527 | 190000 | 1.40 | | |
| 4.5 | 21300 | 318 | 150000 | 1.50 | | |
| 5.2 | 18600 | 278 | 150000 | 1.70 | K 167 R107 ESQ 160M4 | |
| 5.9 | 16300 | 244 | 150000 | 1.95 | | |
| 6.8 | 14200 | 213 | 150000 | 2.2 | | |
| 7.0 | 13700 | 206 | 150000 | 2.3 | | |
| 2.6 | 37500 | 561 | 150000 | 0.85 | | K 167 R97 ESQ 160M4 |
| 3.0 | 32300 | 481 | 150000 | 1.00 | | |
| 3.4 | 28300 | 423 | 150000 | 1.15 | | |
| 3.9 | 24700 | 369 | 150000 | 1.30 | | |
| 4.3 | 22300 | 333 | 109700 | 0.80 | K 157 R97 ESQ 160M4 KF 157 R97 ESQ 160M4 KA 157 R97 ESQ 160M4 KAF 157 R97 ESQ 160M4 | |
| 4.9 | 19500 | 291 | 111400 | 0.90 | | |
| 6.8 | 14300 | 213 | 77400 | 0.90 | K 127 R87 ESQ 160M4 | |
| 7.2 | 13500 | 200 | 78900 | 0.90 | KF 127 R87 ESQ 160M4 | |
| 8.7 | 11200 | 166 | 80100 | 1.10 | KA 127 R87 ESQ 160M4 | |
| 9.8 | 9850 | 147 | 80700 | 1.20 | KAF 127 R87 ESQ 160M4 | |
| 5.3 | 19700 | 134.99 | 150000 | 1.60 | K 167 ESQ 180L8 | |
| 6.6 | 16000 | 109.83 | 150000 | 2.0 | | |
| 5.8 | 18000 | 164.50 | 150000 | 1.80 | K 167 ESQ 160L6 | |
| 7.1 | 14800 | 134.99 | 150000 | 2.2 | | |
| 8.8 | 12000 | 164.50 | 150000 | 2.7 | K 167 ESQ 160M4 | |
| 11 | 9850 | 134.99 | 150000 | 3.2 | | |
| 5.9 | 17900 | 122.39 | 112300 | 1.00 | K 157 ESQ 180L8 | |
| 7.2 | 14600 | 100.22 | 113700 | 1.25 | KF 157 ESQ 180L8 | |
| 7.9 | 13400 | 91.65 | 114200 | 1.35 | KA 157 ESQ 180L8 | |
| 9.0 | 11600 | 79.75 | 114800 | 1.55 | KAF 157 ESQ 180L8 | |
| 6.4 | 16500 | 150.41 | 112900 | 1.10 | K 157 ESQ 160L6 | |
| 7.8 | 13400 | 122.39 | 114200 | 1.35 | | |
| 9.6 | 11000 | 100.22 | 115000 | 1.65 | K 157 ESQ 160L6 | |
| 10 | 10000 | 91.65 | 115300 | 1.80 | | |
| 12 | 8730 | 79.75 | 115600 | 2.1 | KAF 157 ESQ 160L6 | |
| 9.6 | 11000 | 150.41 | 115000 | 1.65 | K 157 ESQ 160M4 | |
| 12 | 8930 | 122.39 | 115600 | 2.0 | | |
| 14 | 7310 | 100.22 | 115900 | 2.5 | KA 157 ESQ 160M4 | |
| 16 | 6690 | 91.65 | 116000 | 2.7 | KAF 157 ESQ 160M4 | |
| 11 | 9930 | 136.14 | 80700 | 1.30 | K 127 ESQ 160M4 | |
| 12 | 8930 | 122.48 | 81100 | 1.45 | | |
| 13 | 8040 | 110.18 | 81400 | 1.60 | KF 127 ESQ 160M4 | |
| 16 | 6560 | 89.89 | 81900 | 2.0 | KA 127 ESQ 160M4 | |
| 18 | 5980 | 81.98 | 82100 | 2.2 | KAF 127 ESQ 160M4 | |
| 20 | 5180 | 70.95 | 82300 | 2.5 | | |
| 13 | 8200 | 112.41 | 58400 | 1.00 | K 107 ESQ 160M4 | |
| 14 | 7350 | 100.75 | 58300 | 1.10 | | |
| 16 | 6630 | 90.96 | 58000 | 1.20 | KF 107 ESQ 160M4 | |
| 17 | 6030 | 82.61 | 57500 | 1.35 | KA 107 ESQ 160M4 | |
| 20 | 5350 | 73.30 | 56900 | 1.50 | K 107 ESQ 160M4 | |
| 22 | 4850 | 66.52 | 56200 | 1.65 | | |
| 25 | 4170 | 57.17 | 55100 | 1.90 | KF 107 ESQ 160M4 | |
| 29 | 3640 | 49.90 | 54000 | 2.2 | KA 107 ESQ 160M4 | |
| 34 | 3090 | 42.33 | 52500 | 2.4 | KAF 107 ESQ 160M4 | |
| 39 | 2700 | 37.00 | 51200 | 2.7 | | |
| 20 | 5150 | 70.54 | 32200 | 0.85 | K 97 ESQ 160M4 | |
| 23 | 4560 | 62.55 | 32500 | 0.95 | | |
| 25 | 4130 | 56.55 | 32500 | 1.05 | KF 97 ESQ 160M4 | |
| 30 | 3500 | 47.93 | 32500 | 1.25 | KA 97 ESQ 160M4 KAF 97 ESQ 160M4 | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ | |
|---------------|---------|--------|---------|------|--|--|
| 34 | 3050 | 41.87 | 32200 | 1.40 | K 97 ESQ 160M4 KF 97 ESQ 160M4 KA 97 ESQ 160M4 KAF 97 ESQ 160M4 | |
| 38 | 2790 | 38.30 | 32000 | 1.55 | | |
| 42 | 2500 | 34.23 | 31600 | 1.70 | | |
| 47 | 2250 | 30.82 | 31300 | 1.90 | | |
| 52 | 2040 | 27.91 | 30800 | 2.1 | | |
| 58 | 1800 | 24.75 | 30300 | 2.4 | | |
| 64 | 1630 | 22.37 | 29800 | 2.6 | | |
| 33 | 3210 | 44.02 | 20000 | 0.80 | | K 87 ESQ 160M4 KF 87 ESQ 160M4 KA 87 ESQ 160M4 KAF 87 ESQ 160M4 |
| 39 | 2660 | 36.52 | 20400 | 0.95 | | |
| 46 | 2290 | 31.39 | 20600 | 1.20 | | |
| 52 | 2030 | 27.88 | 20600 | 1.30 | | |
| 58 | 1820 | 24.92 | 20500 | 1.40 | | |
| 64 | 1630 | 22.41 | 20300 | 1.40 | K 87 ESQ 160M4 KF 87 ESQ 160M4 KA 87 ESQ 160M4 KAF 87 ESQ 160M4 | |
| 74 | 1420 | 19.45 | 20100 | 1.60 | | |
| 83 | 1270 | 17.42 | 19800 | 1.75 | | |
| 90 | 1170 | 16.00 | 18800 | 1.55 | | |
| 100 | 1050 | 14.45 | 19400 | 2.0 | | |
| 115 | 920 | 12.56 | 18900 | 2.2 | | |
| 129 | 810 | 11.17 | 18000 | 1.85 | | |
| 144 | 730 | 10.00 | 17700 | 2.1 | | |
| 174 | 605 | 8.29 | 17100 | 2.3 | | |
| 200 | 525 | 7.21 | 16700 | 2.5 | | |
| 62 | 1680 | 23.08 | 14400 | 0.90 | K 77 ESQ 160M4 KF 77 ESQ 160M4 KA 77 ESQ 160M4 KAF 77 ESQ 160M4 | |
| 71 | 1480 | 20.25 | 15900 | 1.00 | | |
| 81 | 1300 | 17.87 | 16600 | 1.10 | | |
| 91 | 1160 | 15.84 | 16500 | 1.20 | | |
| 107 | 990 | 13.52 | 16300 | 1.35 | | |
| 117 | 900 | 12.36 | 15500 | 1.10 | | |
| 133 | 790 | 10.84 | 15300 | 1.25 | | |
| 151 | 700 | 9.56 | 15100 | 1.35 | | |
| 170 | 620 | 8.48 | 14800 | 1.45 | | |
| 199 | 530 | 7.24 | 14500 | 1.55 | | |
| 15 кВТ | | | | | | |
| 2.3 | 56100 | 622 | 179400 | 0.90 | K 187 R107 ESQ 160L4 | |
| 2.8 | 47000 | 520 | 190000 | 1.05 | | |
| 3.2 | 41000 | 454 | 190000 | 1.20 | | |
| 4.1 | 32100 | 355 | 190000 | 1.55 | | |
| 5.6 | 23600 | 261 | 190000 | 2.1 | | |
| 4.6 | 28700 | 318 | 150000 | 1.10 | | K 167 R107 ESQ 160L4 |
| 5.3 | 25000 | 278 | 150000 | 1.30 | | |
| 6.0 | 22000 | 244 | 150000 | 1.45 | | |
| 6.8 | 19200 | 213 | 150000 | 1.65 | | |
| 7.1 | 18500 | 206 | 150000 | 1.75 | | |
| 8.1 | 16200 | 180 | 150000 | 1.95 | | |
| 9.1 | 14400 | 160 | 150000 | 2.2 | | |
| 6.3 | 20700 | 230 | 110700 | 0.85 | K 157 R107 ESQ 160L4 KF 157 R107 ESQ 160L4 KA 157 R107 ESQ 160L4 KAF 157 R107 ESQ 160L4 | |
| 6.9 | 19200 | 213 | 116000 | 0.95 | | |
| 7.8 | 16800 | 187 | 112800 | 1.05 | | |
| 9.3 | 14200 | 157 | 113900 | 1.25 | | |
| 12 | 11000 | 122 | 115000 | 1.65 | | |
| 14 | 9630 | 107 | 115400 | 1.85 | | |
| 5.4 | 26600 | 179.86 | 190000 | 1.90 | | K 187 ESQ 180L6 |
| 5.9 | 24400 | 165.21 | 190000 | 2.0 | | |
| 7.2 | 19900 | 134.99 | 150000 | 1.60 | | K 167 ESQ 180L6 |
| 8.8 | 16200 | 109.83 | 150000 | 1.95 | | |
| 8.9 | 16100 | 164.50 | 150000 | 2.0 | K 167 ESQ 160L4 | |
| 11 | 13200 | 134.99 | 150000 | 2.4 | | |
| 7.9 | 18100 | 122.39 | 112200 | 1.00 | K 157 ESQ 180L6 KF 157 ESQ 180L6 KA 157 ESQ 180L6 KAF 157 ESQ 180L6 | |
| 9.7 | 14800 | 100.22 | 113700 | 1.20 | | |
| 11 | 13500 | 91.65 | 114100 | 1.35 | | |
| 12 | 11800 | 79.75 | 114800 | 1.55 | | |
| 14 | 10400 | 70.38 | 115200 | 1.75 | | |
| 9.7 | 14800 | 150.41 | 113700 | 1.20 | K 157ESQ 160L4 KF 157 ESQ 160L4 KA 157 ESQ 160L4 KAF 157 ESQ 160L4 | |
| 12 | 12000 | 122.39 | 114700 | 1.50 | | |
| 15 | 9830 | 100.22 | 114200 | 1.85 | | |
| 16 | 8990 | 91.65 | 112500 | 2.0 | | |
| 18 | 7820 | 79.75 | 109600 | 2.3 | | |
| 11 | 13400 | 136.14 | 79000 | 0.95 | K 127 ESQ 160L4 KF 127 ESQ 160L4 KA 127 ESQ 160L4 KAF 127 ESQ 160L4 | |
| 12 | 12000 | 122.48 | 79700 | 1.10 | | |
| 13 | 10800 | 110.18 | 80300 | 1.20 | | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ | |
|-----------------|---------|--------|---------|------|----------------------|----------------------|
| 16 | 8820 | 89.89 | 81200 | 1.45 | K 127 ESQ 160L4 | |
| 18 | 8040 | 81.98 | 81400 | 1.60 | | |
| 21 | 6960 | 70.95 | 81600 | 1.85 | | |
| 23 | 6140 | 62.60 | 80000 | 2.1 | | |
| 27 | 5300 | 54.07 | 78000 | 2.5 | | |
| 31 | 4690 | 47.82 | 76200 | 2.8 | | |
| 16 | 8920 | 90.96 | 50900 | 0.90 | K 107 ESQ 160L4 | |
| 18 | 8110 | 82.61 | 51100 | 1.00 | | |
| 20 | 7190 | 73.30 | 51200 | 1.10 | | |
| 22 | 6530 | 66.52 | 51000 | 1.25 | | |
| 26 | 5610 | 57.17 | 50600 | 1.45 | | |
| 29 | 4900 | 49.90 | 50000 | 1.60 | K 107 ESQ 160L4 | |
| 34 | 4150 | 42.33 | 49100 | 1.75 | | |
| 39 | 3630 | 37.00 | 48200 | 2.0 | | |
| 45 | 3210 | 32.69 | 47300 | 2.2 | | |
| 47 | 3070 | 31.28 | 47000 | 2.2 | | |
| 50 | 2840 | 29.00 | 46400 | 2.5 | | |
| 30 | 4700 | 47.93 | 28100 | 0.90 | K 97 ESQ 160L4 | |
| 35 | 4110 | 41.87 | 28400 | 1.05 | | |
| 38 | 3760 | 38.30 | 28500 | 1.15 | | |
| 43 | 3360 | 34.23 | 28500 | 1.30 | | |
| 47 | 3020 | 30.82 | 28400 | 1.40 | | |
| 52 | 2740 | 27.91 | 28300 | 1.55 | K 97 ESQ 160L4 | |
| 59 | 2430 | 24.75 | 28000 | 1.75 | | |
| 65 | 2190 | 22.37 | 27700 | 1.95 | | |
| 77 | 1860 | 18.96 | 27200 | 2.3 | | |
| 88 | 1620 | 16.56 | 26600 | 2.7 | | |
| 47 | 3080 | 31.39 | 17300 | 0.90 | K 87 ESQ 160L4 | |
| 52 | 2730 | 27.88 | 17600 | 0.95 | | |
| 59 | 2440 | 24.92 | 17800 | 1.00 | | |
| 65 | 2200 | 22.41 | 18000 | 1.05 | | |
| 75 | 1910 | 19.45 | 18000 | 1.20 | | |
| 84 | 1710 | 17.42 | 18000 | 1.30 | | |
| 91 | 1570 | 16.00 | 18800 | 1.15 | K 87 ESQ 160L4 | |
| 101 | 1420 | 14.45 | 17800 | 1.50 | | |
| 116 | 1230 | 12.56 | 17600 | 1.60 | | |
| 131 | 1100 | 11.17 | 16600 | 1.35 | | |
| 146 | 980 | 10.00 | 16400 | 1.55 | | |
| 176 | 810 | 8.29 | 16000 | 1.70 | | |
| 202 | 705 | 7.21 | 15700 | 1.85 | | |
| 18.5 кВт | | | | | | |
| 2.8 | 57800 | 520 | 176300 | 0.85 | K 187 R107 ESQ 180M4 | |
| 3.2 | 50400 | 454 | 189200 | 1.00 | | |
| 4.1 | 39500 | 355 | 190000 | 1.25 | | |
| 5.6 | 29000 | 261 | 190000 | 1.70 | | |
| 6.6 | 24600 | 221 | 190000 | 2.0 | | |
| 4.6 | 35300 | 318 | 150000 | 0.90 | K 167 R107 ESQ 180M4 | |
| 5.3 | 30800 | 278 | 150000 | 1.05 | | |
| 6.0 | 27100 | 244 | 150000 | 1.20 | | |
| 6.9 | 23600 | 213 | 150000 | 1.35 | | |
| 7.1 | 22800 | 206 | 150000 | 1.40 | | |
| 8.1 | 20000 | 180 | 150000 | 1.60 | K 157 R107 ESQ 180M4 | |
| 9.2 | 17700 | 160 | 150000 | 1.80 | | |
| 11 | 15000 | 135 | 150000 | 2.1 | | |
| 12 | 13100 | 118 | 150000 | 2.4 | | |
| 7.8 | 20700 | 187 | 110700 | 0.85 | | K 157 R107 ESQ 180M4 |
| 9.3 | 17400 | 157 | 112500 | 1.05 | | |
| 12 | 13600 | 122 | 114100 | 1.35 | | |
| 14 | 11900 | 107 | 112300 | 1.50 | | |
| 5.4 | 32800 | 179.86 | 190000 | 1.55 | K 187 ESQ 200LA6 | |
| 5.9 | 30100 | 165.21 | 190000 | 1.65 | | |
| 6.7 | 26300 | 144.59 | 190000 | 1.90 | | |
| 7.5 | 23600 | 129.69 | 190000 | 2.1 | | |
| 8.1 | 21700 | 179.86 | 190000 | 2.3 | | |
| 8.9 | 19900 | 165.21 | 190000 | 2.5 | K 187 ESQ 180M4 | |
| 10 | 17400 | 144.59 | 190000 | 2.9 | | |
| 11 | 15600 | 129.69 | 190000 | 3.2 | | |
| 11 | 16300 | 134.99 | 150000 | 1.95 | | K 167 ESQ 180M4 |
| 13 | 13200 | 109.83 | 150000 | 2.4 | | |
| 17 | 10600 | 87.86 | 150000 | 3.0 | | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + ПАМ | |
|---------------|---------|--------|---------|------|----------------------|-----------------|
| 9.7 | 18300 | 100.22 | 112100 | 1.00 | K 157 ESQ 200LA6 | |
| 11 | 16700 | 91.65 | 112800 | 1.10 | | |
| 12 | 14500 | 79.75 | 115000 | 1.25 | | |
| 14 | 12800 | 70.38 | 109900 | 1.40 | | |
| 12 | 14800 | 122.39 | 111600 | 1.20 | | K 157 ESQ 180M4 |
| 15 | 12100 | 100.22 | 109100 | 1.50 | | |
| 16 | 11100 | 91.65 | 107800 | 1.65 | | |
| 18 | 9620 | 79.75 | 105600 | 1.85 | | |
| 21 | 8490 | 70.38 | 103400 | 2.1 | | |
| 24 | 7360 | 61.02 | 100700 | 2.5 | K 127 ESQ 180M4 | |
| 27 | 6550 | 54.29 | 98500 | 2.8 | | |
| 31 | 5640 | 46.79 | 95500 | 3.2 | | |
| 39 | 4580 | 38.02 | 91300 | 3.9 | | |
| 13 | 13300 | 110.18 | 79000 | 1.00 | | K 127 ESQ 180M4 |
| 16 | 10800 | 89.89 | 79000 | 1.20 | | |
| 18 | 9890 | 81.98 | 78500 | 1.30 | | |
| 21 | 8560 | 70.95 | 77500 | 1.50 | | |
| 23 | 7550 | 62.60 | 76400 | 1.70 | | |
| 27 | 6520 | 54.07 | 74800 | 2.0 | K 107 ESQ 180M4 | |
| 31 | 5770 | 47.82 | 73400 | 2.2 | | |
| 36 | 4850 | 40.19 | 71300 | 2.7 | | |
| 40 | 4370 | 36.25 | 69900 | 3.0 | | |
| 47 | 3780 | 31.37 | 68000 | 3.4 | | |
| 53 | 3340 | 27.68 | 66200 | 3.9 | | |
| 20 | 8840 | 73.30 | 46300 | 0.90 | K 97 ESQ 180M4 | |
| 22 | 8020 | 66.52 | 46600 | 1.00 | | |
| 26 | 6890 | 57.17 | 46800 | 1.15 | | |
| 29 | 6020 | 49.90 | 46700 | 1.30 | | |
| 35 | 5100 | 42.33 | 46300 | 1.45 | | |
| 40 | 4460 | 37.00 | 45700 | 1.60 | K 87 ESQ 180M4 | |
| 45 | 3940 | 32.69 | 45100 | 1.85 | | |
| 47 | 3770 | 31.28 | 44900 | 1.80 | | |
| 51 | 3500 | 29.00 | 44400 | 2.1 | | |
| 56 | 3170 | 26.32 | 43800 | 2.3 | | |
| 65 | 2730 | 22.62 | 42700 | 2.6 | K 87 ESQ 180M4 | |
| 74 | 2380 | 19.74 | 41700 | 3.0 | | |
| 88 | 2020 | 16.75 | 40400 | 3.5 | | |
| 35 | 5050 | 41.87 | 25100 | 0.85 | | K 97 ESQ 180M4 |
| 48 | 3720 | 30.82 | 26000 | 1.15 | | |
| 53 | 3360 | 27.91 | 26000 | 1.30 | | |
| 59 | 2980 | 24.75 | 26000 | 1.45 | | |
| 65 | 2700 | 22.37 | 25900 | 1.60 | | |
| 77 | 2290 | 18.96 | 25700 | 1.90 | K 87 ESQ 180M4 | |
| 88 | 2000 | 16.56 | 25300 | 2.2 | | |
| 106 | 1670 | 13.85 | 24800 | 2.6 | | |
| 122 | 1450 | 11.99 | 24300 | 2.7 | | |
| 59 | 3000 | 24.92 | 15600 | 0.85 | | K 87 ESQ 180M4 |
| 65 | 2700 | 22.41 | 15900 | 0.85 | | |
| 75 | 2340 | 19.45 | 16200 | 1.00 | | |
| 84 | 2100 | 17.42 | 16400 | 1.05 | | |
| 101 | 1740 | 14.45 | 16500 | 1.20 | | |
| 117 | 1510 | 12.56 | 16400 | 1.30 | K 87 ESQ 180M4 | |
| 131 | 1350 | 11.17 | 15400 | 1.10 | | |
| 147 | 1210 | 10.00 | 15300 | 1.25 | | |
| 177 | 1000 | 8.29 | 15100 | 1.40 | | |
| 203 | 870 | 7.21 | 14900 | 1.50 | | |
| 22 кВт | | | | | | |
| 3.2 | 60000 | 454 | 172300 | 0.85 | K 187 R107 ESQ 180L4 | |
| 4.1 | 47000 | 355 | 190000 | 1.05 | | |
| 5.6 | 34500 | 261 | 190000 | 1.45 | | |
| 6.6 | 29300 | 221 | 190000 | 1.70 | | |
| 7.6 | 25600 | 193 | 190000 | 1.95 | | |
| 8.9 | 21600 | 163 | 190000 | 2.3 | | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM | |
|---------------|---------|--------|---------|------|----------------------|------------------------|
| 5.3 | 36700 | 278 | 150000 | 0.85 | K 167 R107 ESQ 180L4 | |
| 6.0 | 32200 | 244 | 150000 | 1.00 | | |
| 6.9 | 28200 | 213 | 150000 | 1.15 | | |
| 7.1 | 27200 | 206 | 150000 | 1.20 | | |
| 8.1 | 23800 | 180 | 150000 | 1.35 | | |
| 9.2 | 21100 | 160 | 150000 | 1.50 | | |
| 11 | 17900 | 135 | 150000 | 1.80 | | |
| 12 | 15600 | 118 | 150000 | 2.0 | | |
| 9.3 | 20800 | 157 | 109800 | 0.85 | | K 157 R107 ESQ 180L4 |
| 12 | 16200 | 122 | 108600 | 1.10 | | KF 157 R107 ESQ 180L4 |
| 14 | 14100 | 107 | 107300 | 1.25 | | KA 157 R107 ESQ 180L4 |
| 14 | 14100 | 107 | 107300 | 1.25 | | KAF 157 R107 ESQ 180L4 |
| 5.4 | 39000 | 179.86 | 190000 | 1.30 | K 187 ESQ 200LB6 | |
| 5.9 | 35800 | 165.21 | 190000 | 1.40 | | |
| 6.7 | 31300 | 144.59 | 190000 | 1.60 | | |
| 7.5 | 28100 | 129.69 | 190000 | 1.80 | | |
| 8.6 | 24400 | 112.60 | 190000 | 2.0 | | |
| 8.1 | 25800 | 179.86 | 190000 | 1.95 | | |
| 8.9 | 23700 | 165.21 | 190000 | 2.1 | | |
| 10 | 20700 | 144.59 | 190000 | 2.4 | | |
| 11 | 18600 | 129.69 | 190000 | 2.7 | | |
| 11 | 19400 | 134.99 | 150000 | 1.65 | | K 167 ESQ 180L4 |
| 13 | 15700 | 109.83 | 150000 | 2.0 | | |
| 17 | 12600 | 87.86 | 150000 | 2.5 | | |
| 19 | 11200 | 78.14 | 150000 | 2.9 | | |
| 9.7 | 21700 | 100.22 | 105900 | 0.85 | K 157 ESQ 200LB6 | |
| 11 | 19900 | 91.65 | 105900 | 0.90 | KF 157 ESQ 200LB6 | |
| 12 | 17300 | 79.75 | 105500 | 1.05 | KA 157 ESQ 200LB6 | |
| 14 | 15200 | 70.38 | 104600 | 1.20 | KAF 157 ESQ 200LB6 | |
| 16 | 13200 | 61.02 | 103300 | 1.35 | | |
| 12 | 17600 | 122.39 | 105500 | 1.05 | K 157 ESQ 180L4 | |
| 15 | 14400 | 100.22 | 104100 | 1.25 | | |
| 16 | 13100 | 91.65 | 103200 | 1.35 | | |
| 18 | 11400 | 79.75 | 101600 | 1.55 | | |
| 21 | 10100 | 70.38 | 99800 | 1.80 | | |
| 24 | 8750 | 61.02 | 97700 | 2.1 | | |
| 27 | 7790 | 54.29 | 95800 | 2.3 | | |
| 31 | 6710 | 46.79 | 93200 | 2.7 | | |
| 39 | 5450 | 38.02 | 89400 | 3.3 | | |
| 16 | 12900 | 89.89 | 73900 | 1.00 | | K 127 ESQ 180L4 |
| 18 | 11800 | 81.98 | 73800 | 1.10 | | KF 127 ESQ180L4 |
| 21 | 10200 | 70.95 | 73400 | 1.30 | | KA 127 ESQ180L4 |
| 23 | 8980 | 62.60 | 72800 | 1.45 | KAF 127 ESQ180L4 | |
| 27 | 7750 | 54.07 | 71700 | 1.70 | K 127 ESQ 180L4 | |
| 31 | 6860 | 47.82 | 70700 | 1.90 | | |
| 36 | 5760 | 40.19 | 69000 | 2.3 | | |
| 40 | 5200 | 36.25 | 67800 | 2.5 | | |
| 47 | 4500 | 31.37 | 66200 | 2.9 | | |
| 53 | 3970 | 27.68 | 64600 | 3.3 | | |
| 61 | 3430 | 23.91 | 62800 | 3.8 | | |
| 69 | 3030 | 21.15 | 61200 | 4.3 | | |
| 26 | 8200 | 57.17 | 43000 | 1.00 | | K 107 ESQ180L4 |
| 29 | 7160 | 49.90 | 43300 | 1.10 | | KF 107 ESQ180L4 |
| 35 | 6070 | 42.33 | 43400 | 1.20 | | KA 107 ESQ180L4 |
| 40 | 5310 | 37.00 | 43200 | 1.35 | | KAF 107 ESQ180L4 |
| 45 | 4690 | 32.69 | 42900 | 1.55 | K 107 ESQ 180L4 | |
| 47 | 4490 | 31.28 | 42800 | 1.50 | | |
| 51 | 4160 | 29.00 | 42500 | 1.75 | | |
| 56 | 3770 | 26.32 | 42000 | 1.90 | | |
| 65 | 3240 | 22.62 | 41200 | 2.2 | | |
| 74 | 2830 | 19.74 | 40400 | 2.5 | | |
| 88 | 2400 | 16.75 | 39300 | 2.9 | | |
| 100 | 2100 | 14.64 | 38400 | 3.3 | | |
| 109 | 1930 | 13.43 | 36800 | 2.2 | | |
| 125 | 1680 | 11.73 | 35800 | 2.6 | | |
| 147 | 1430 | 9.94 | 34800 | 2.9 | | |

| n2 [1/МИН] | M [H*М] | i | Fr2 [N] | fs | Редуктор + PAM | | |
|---------------|---------|--------|---------|------|----------------------|----------------------|-----------------|
| 48 | 4420 | 30.82 | 23500 | 0.95 | K 97 ESQ 180L4 | | |
| 53 | 4000 | 27.91 | 23800 | 1.05 | KF 97 ESQ 180L4 | | |
| 59 | 3550 | 24.75 | 24100 | 1.20 | KA 97 ESQ 180L4 | | |
| 65 | 3210 | 22.37 | 24200 | 1.35 | KAF 97 ESQ 180L4 | | |
| 77 | 2720 | 18.96 | 24100 | 1.60 | K 97 ESQ 180L4 | | |
| 88 | 2370 | 16.56 | 24000 | 1.80 | | | |
| 106 | 1990 | 13.85 | 23700 | 2.2 | | | |
| 122 | 1720 | 11.99 | 23300 | 2.3 | | | |
| 141 | 1490 | 10.41 | 21800 | 1.90 | | | |
| 168 | 1250 | 8.71 | 21300 | 2.1 | | | |
| 75 | 2790 | 19.45 | 14400 | 0.80 | | K 87 ESQ 180L4 | |
| 84 | 2500 | 17.42 | 14800 | 0.90 | | | |
| 101 | 2070 | 14.45 | 15100 | 1.00 | | | |
| 117 | 1800 | 12.56 | 15300 | 1.10 | | | |
| 131 | 1600 | 11.17 | 14200 | 0.95 | | | |
| 147 | 1430 | 10.00 | 14200 | 1.05 | | | |
| 177 | 1190 | 8.29 | 14300 | 1.20 | | | |
| 203 | 1030 | 7.21 | 14200 | 1.25 | | | |
| 30 кВт | | | | | | | |
| 5.6 | 47000 | 261 | 190000 | 1.05 | K 187 R107 ESQ 200L4 | | |
| 6.6 | 39800 | 221 | 190000 | 1.25 | | | |
| 7.6 | 34800 | 193 | 190000 | 1.45 | | | |
| 9.0 | 29400 | 163 | 190000 | 1.70 | | | |
| 6.9 | 38300 | 213 | 150000 | 0.85 | | K 167 R107 ESQ 200L4 | |
| 7.1 | 37000 | 206 | 150000 | 0.85 | | | |
| 8.1 | 32400 | 180 | 150000 | 1.00 | | | |
| 9.2 | 28700 | 160 | 150000 | 1.10 | | | |
| 11 | 24400 | 135 | 150000 | 1.30 | | | |
| 12 | 21300 | 118 | 150000 | 1.50 | | | |
| 8.2 | 35100 | 179.86 | 190000 | 1.45 | | | K 187 ESQ 200L4 |
| 8.9 | 32200 | 165.21 | 190000 | 1.55 | | | |
| 10 | 28200 | 144.59 | 190000 | 1.75 | | | |
| 11 | 25300 | 129.69 | 190000 | 2.0 | | | |
| 13 | 21900 | 112.60 | 190000 | 2.3 | | | |
| 14 | 19900 | 102.16 | 190000 | 2.5 | | | |
| 17 | 17200 | 88.00 | 190000 | 2.9 | | | |
| 13 | 21400 | 109.83 | 150000 | 1.50 | K 167 ESQ 200L4 | | |
| 17 | 17100 | 87.86 | 150000 | 1.85 | | | |
| 19 | 15200 | 78.14 | 150000 | 2.1 | | | |
| 22 | 13300 | 68.07 | 150000 | 2.4 | | | |
| 24 | 11800 | 60.74 | 150000 | 2.7 | | | |
| 15 | 19500 | 100.22 | 92700 | 0.90 | | K 157 ESQ 200L4 | |
| 16 | 17900 | 91.65 | 92800 | 1.00 | | | |
| 18 | 15500 | 79.75 | 92400 | 1.15 | | | |
| 21 | 13700 | 70.38 | 91800 | 1.30 | | | |
| 24 | 11900 | 61.02 | 90700 | 1.50 | | | |
| 27 | 10600 | 54.29 | 89500 | 1.70 | | | |
| 31 | 9120 | 46.79 | 87800 | 1.95 | | | |
| 39 | 7410 | 38.02 | 85100 | 2.4 | | | |
| 47 | 6100 | 31.30 | 82200 | 3.0 | | | |
| 21 | 13800 | 70.95 | 64200 | 0.95 | K 127 ESQ 200L4 | | |
| 23 | 12200 | 62.60 | 64600 | 1.05 | | | |
| 27 | 10500 | 54.07 | 64700 | 1.25 | | | |
| 31 | 9320 | 47.82 | 64400 | 1.40 | | | |
| 37 | 7830 | 40.19 | 63700 | 1.65 | | | |
| 41 | 7060 | 36.25 | 63100 | 1.85 | | | |
| 47 | 6110 | 31.37 | 62000 | 2.1 | | | |
| 53 | 5390 | 27.68 | 61000 | 2.4 | | | |
| 62 | 4660 | 23.91 | 59600 | 2.8 | | | |
| 35 | 8250 | 42.33 | 36100 | 0.90 | | K 107 ESQ 200L4 | |
| 40 | 7210 | 37.00 | 37600 | 1.00 | | KF 107 ESQ 200L4 | |
| 40 | 7210 | 37.00 | 37600 | 1.00 | | KA 107 ESQ 200L4 | |
| 47 | 6100 | 31.28 | 38000 | 1.10 | KAF 107 ESQ 200L4 | | |

| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|---|
| 51 | 5650 | 29.00 | 38000 | 1.25 | |
| 56 | 5130 | 26.32 | 38000 | 1.40 | |
| 65 | 4410 | 22.62 | 37700 | 1.65 | |
| 74 | 3850 | 19.74 | 37400 | 1.85 | K 107 ESQ 200L4 |
| 88 | 3260 | 16.75 | 36700 | 2.2 | KF 107 ESQ 200L4 |
| 100 | 2850 | 14.64 | 36100 | 2.4 | KA 107 ESQ 200L4 |
| 109 | 2620 | 13.43 | 34400 | 1.65 | KAF 107 ESQ 200L4 |
| 125 | 2280 | 11.73 | 33800 | 1.90 | |
| 148 | 1940 | 9.94 | 33000 | 2.2 | |
| 169 | 1690 | 8.69 | 32200 | 2.4 | |
| 59 | 4820 | 24.75 | 19600 | 0.90 | |
| 66 | 4360 | 22.37 | 20100 | 1.00 | |
| 78 | 3690 | 18.96 | 20700 | 1.15 | K 97 ESQ 200L4 |
| 89 | 3230 | 16.56 | 21000 | 1.35 | KF 97 ESQ 200L4 |
| 106 | 2700 | 13.85 | 21200 | 1.60 | KA 97 ESQ 200L4 |
| 123 | 2340 | 11.99 | 21100 | 1.65 | KAF 97 ESQ 200L4 |
| 141 | 2030 | 10.41 | 19500 | 1.40 | |
| 169 | 1700 | 8.71 | 19400 | 1.55 | |
| 37 кВт | | | | | |
| 5.6 | 58000 | 261 | 176000 | 0.85 | |
| 6.6 | 49200 | 221 | 190000 | 1.00 | K 187 R107 ESQ 225S4 |
| 7.6 | 43000 | 193 | 190000 | 1.15 | |
| 9.0 | 36300 | 163 | 190000 | 1.40 | |
| 8.1 | 40000 | 180 | 150000 | 0.80 | |
| 9.2 | 35500 | 160 | 150000 | 0.90 | K 167 R107 ESQ 225S4 |
| 11 | 30100 | 135 | 150000 | 1.05 | |
| 12 | 26300 | 118 | 150000 | 1.20 | |
| 8.2 | 43200 | 179.86 | 190000 | 1.15 | |
| 8.9 | 39700 | 165.21 | 190000 | 1.25 | |
| 10 | 34800 | 144.59 | 190000 | 1.45 | |
| 11 | 31200 | 129.69 | 190000 | 1.60 | K 187 ESQ 225S4 |
| 13 | 27100 | 112.60 | 190000 | 1.85 | |
| 14 | 24600 | 102.16 | 190000 | 2.0 | |
| 17 | 21200 | 88.00 | 190000 | 2.4 | |
| 13 | 26400 | 109.83 | 150000 | 1.20 | |
| 17 | 21100 | 87.86 | 150000 | 1.50 | K 167 ESQ 225S4 |
| 19 | 18800 | 78.14 | 150000 | 1.70 | |
| 22 | 16400 | 68.07 | 150000 | 1.95 | |
| 24 | 14600 | 60.74 | 150000 | 2.2 | |
| 28 | 12400 | 51.77 | 150000 | 2.6 | |
| 16 | 22000 | 91.65 | 83600 | 0.80 | K 157 ESQ 225S4 KF 157 ESQ 225S4 KA 157 ESQ 225S4 |
| 18 | 19200 | 79.75 | 84500 | 0.95 | KAF 157 ESQ 225S4 |
| 21 | 16900 | 70.38 | 84800 | 1.05 | |
| 24 | 14700 | 61.02 | 84600 | 1.25 | K 157 ESQ 225S4 |
| 27 | 13000 | 54.29 | 84100 | 1.40 | KF 157 ESQ 225S4 |
| 31 | 11200 | 46.79 | 83200 | 1.60 | KA 157 ESQ 225S4 |
| 39 | 9140 | 38.02 | 81300 | 1.95 | KAF 157 ESQ 225S4 |
| 47 | 7520 | 31.30 | 79100 | 2.4 | |
| 23 | 15000 | 62.60 | 57500 | 0.85 | K 127 ESQ 225S4 |
| 27 | 13000 | 54.07 | 58500 | 1.00 | KF 127 ESQ 225S4 |
| 31 | 11500 | 47.82 | 59000 | 1.15 | KA 127 ESQ 225S4 |
| 37 | 9660 | 40.19 | 59100 | 1.35 | KAF 127 ESQ 225S4 |
| 41 | 8710 | 36.25 | 59000 | 1.50 | |
| 47 | 7540 | 31.37 | 58500 | 1.70 | |
| 53 | 6650 | 27.68 | 57800 | 1.95 | |
| 62 | 5740 | 23.91 | 56900 | 2.3 | K 127 ESQ 225S4 |
| 70 | 5080 | 21.15 | 56000 | 2.6 | KF 127 ESQ 225S4 |
| 83 | 4270 | 17.77 | 54500 | 3.0 | KA 127 ESQ 225S4 |
| 102 | 3450 | 14.35 | 52500 | 3.5 | KAF127 ESQ 225S4 |
| 115 | 3070 | 12.79 | 50200 | 2.8 | |
| 137 | 2580 | 10.74 | 48600 | 3.1 | |
| 169 | 2090 | 8.68 | 46600 | 3.5 | |

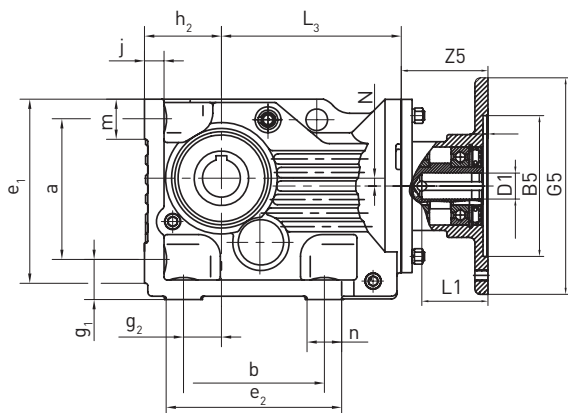
| n2 [1/МИН] | M [Н*М] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|---------------|---------|--------|---------|------|--------------------------------------|
| 40 | 8890 | 37.00 | 29000 | 0.80 | |
| 47 | 7520 | 31.28 | 33000 | 0.90 | |
| 51 | 6970 | 29.00 | 34200 | 1.05 | |
| 56 | 6320 | 26.32 | 34500 | 1.15 | |
| 65 | 5440 | 22.62 | 34700 | 1.30 | K 107 ESQ 225S4 |
| 74 | 4740 | 19.74 | 34700 | 1.50 | KF 107 ESQ 225S4 |
| 88 | 4020 | 16.75 | 34500 | 1.75 | KA 107 ESQ 225S4 |
| 100 | 3520 | 14.64 | 34200 | 1.95 | KAF107 ESQ 225S4 |
| 109 | 3230 | 13.43 | 32300 | 1.35 | |
| 125 | 2820 | 11.73 | 32000 | 1.55 | |
| 148 | 2390 | 9.94 | 31400 | 1.75 | |
| 169 | 2090 | 8.69 | 30900 | 1.95 | |
| 45 кВт | | | | | |
| 6.6 | 59800 | 221 | 172600 | 0.85 | |
| 7.6 | 52300 | 193 | 186100 | 1.95 | K 187 R107 ESQ 225M4 |
| 9.0 | 44200 | 163 | 190000 | 1.15 | |
| 11 | 36600 | 135 | 150000 | 0.85 | |
| 12 | 32000 | 118 | 150000 | 1.00 | K 167 R107 ESQ 225M4 |
| 8.2 | 52600 | 179.86 | 185500 | 0.95 | |
| 8.9 | 48300 | 165.21 | 190000 | 1.05 | |
| 10 | 42300 | 144.59 | 190000 | 1.20 | |
| 11 | 37900 | 129.69 | 190000 | 1.30 | |
| 13 | 32900 | 112.60 | 190000 | 1.50 | K 187 ESQ 225M4 |
| 14 | 29900 | 102.16 | 190000 | 1.65 | |
| 17 | 25700 | 88.00 | 190000 | 1.95 | |
| 20 | 21600 | 73.96 | 187700 | 2.3 | |
| 13 | 32100 | 109.83 | 150000 | 1.00 | |
| 17 | 25700 | 87.86 | 150000 | 1.25 | |
| 19 | 22800 | 78.14 | 150000 | 1.40 | |
| 22 | 19900 | 68.07 | 150000 | 1.60 | K 167 ESQ 225M4 |
| 24 | 17800 | 60.74 | 149000 | 1.80 | |
| 28 | 15100 | 51.77 | 145600 | 2.1 | |
| 34 | 12500 | 42.89 | 140600 | 2.5 | |
| 21 | 20600 | 70.38 | 76800 | 0.85 | |
| 24 | 17800 | 61.02 | 77700 | 1.00 | |
| 27 | 15900 | 54.29 | 77900 | 1.15 | |
| 31 | 13700 | 46.79 | 77800 | 1.30 | K 157 ESQ 225M4 |
| 39 | 11100 | 38.02 | 76900 | 1.60 | KF 157 ESQ 225M4 |
| 47 | 9150 | 31.30 | 75500 | 1.95 | KA 157 ESQ 225M4 |
| 53 | 8080 | 27.62 | 74300 | 2.2 | KAF157 ESQ 225M4 |
| 61 | 7000 | 23.95 | 72800 | 2.6 | |
| 69 | 6230 | 21.31 | 71500 | 2.9 | |
| 80 | 5370 | 18.37 | 69700 | 3.3 | |
| 31 | 14000 | 47.82 | 52800 | 0.95 | K 127 ESQ 225M4 |
| 37 | 11700 | 40.19 | 53900 | 1.10 | KF 127 ESQ 225M4 KA 127 ESQ 225M4 |
| 41 | 10600 | 36.25 | 54200 | 1.25 | KAF127 ESQ 225M4 |
| 47 | 9170 | 31.37 | 54400 | 1.40 | |
| 53 | 8090 | 27.68 | 54200 | 1.60 | |
| 62 | 6990 | 23.91 | 53800 | 1.85 | |
| 70 | 6180 | 21.15 | 53200 | 2.1 | K 127 ESQ 225M4 |
| 83 | 5190 | 17.77 | 52200 | 2.5 | KF 127 ESQ 225M4 |
| 102 | 4190 | 14.35 | 50700 | 2.9 | KA 127 ESQ 225M4 |
| 115 | 3740 | 12.79 | 48300 | 2.3 | KAF127 ESQ 225M4 |
| 137 | 3140 | 10.74 | 47000 | 2.5 | |
| 169 | 2540 | 8.68 | 45300 | 2.8 | |
| 51 | 8480 | 29.00 | 25600 | 0.85 | K 107 ESQ 225M4 |
| 56 | 7690 | 26.32 | 28300 | 0.95 | KF 107 ESQ 225M4 |
| 65 | 6610 | 22.62 | 31000 | 1.10 | KA 107 ESQ 225M4 |
| 74 | 5770 | 19.74 | 31700 | 1.25 | KAF107 ESQ 225M4 |
| 88 | 4890 | 16.75 | 31900 | 1.45 | |
| 100 | 4280 | 14.64 | 31900 | 1.60 | K 107 ESQ 225M4 |
| 109 | 3930 | 13.43 | 29900 | 1.10 | KF 107 ESQ 225M4 |
| 125 | 3430 | 11.73 | 29900 | 1.25 | KA 107 ESQ 225M4 |
| 148 | 2910 | 9.94 | 29600 | 1.45 | KAF107 ESQ 225M4 |
| 169 | 2540 | 8.69 | 29300 | 1.60 | |

| n2 [1/мин] | M [H*м] | i | Fr2 [N] | fs | Редуктор + ПАМ | |
|---------------|---------|--------|---------|------|-----------------|-----------------|
| 55 кВт | | | | | | |
| 10 | 51500 | 144.59 | 187400 | 0.95 | K 187 ESQ 250M4 | |
| 11 | 46200 | 129.69 | 180000 | 1.10 | | |
| 13 | 40100 | 112.60 | 188500 | 1.25 | | |
| 14 | 36400 | 102.16 | 187100 | 1.35 | | |
| 17 | 31300 | 88.00 | 184200 | 1.60 | | |
| 20 | 26300 | 73.96 | 180200 | 1.90 | | |
| 23 | 22800 | 64.04 | 176300 | 2.2 | | |
| 17 | 31300 | 87.86 | 145300 | 1.00 | | K 167 ESQ 250M4 |
| 19 | 27800 | 78.14 | 144600 | 1.15 | | |
| 22 | 24200 | 68.07 | 143300 | 1.30 | | |
| 24 | 21600 | 60.74 | 141700 | 1.50 | | |
| 28 | 18400 | 51.77 | 139100 | 1.75 | | |
| 34 | 15300 | 42.89 | 135400 | 2.1 | | |
| 40 | 13000 | 36.61 | 131900 | 2.5 | | |
| 24 | 21700 | 61.02 | 69000 | 0.85 | K 157 ESQ 250M4 | |
| 27 | 19300 | 54.29 | 70200 | 0.95 | | |
| 32 | 16700 | 46.79 | 71200 | 1.10 | | |
| 39 | 13500 | 38.02 | 71500 | 1.35 | | |
| 47 | 11100 | 31.30 | 71000 | 1.60 | | |
| 53 | 9840 | 27.62 | 70400 | 1.85 | | |
| 62 | 8530 | 23.95 | 69400 | 2.1 | | |
| 69 | 7590 | 21.31 | 68400 | 2.4 | | |
| 80 | 6540 | 18.37 | 67000 | 2.8 | | |
| 99 | 5310 | 14.92 | 64800 | 3.4 | | |
| 117 | 4510 | 12.65 | 62900 | 3.8 | | |
| 37 | 14300 | 40.19 | 47400 | 0.90 | K 127 ESQ 250M4 | |
| 47 | 11200 | 31.37 | 49300 | 1.15 | | |
| 53 | 8850 | 27.68 | 49700 | 1.30 | | |
| 62 | 8510 | 23.91 | 49900 | 1.55 | | |
| 70 | 7530 | 21.15 | 49600 | 1.75 | | |
| 83 | 6330 | 17.77 | 49300 | 2.0 | | |
| 103 | 5110 | 14.35 | 48300 | 2.4 | | |
| 115 | 4550 | 12.79 | 45900 | 1.85 | | |
| 137 | 3830 | 10.74 | 45000 | 2.1 | | |
| 170 | 3090 | 8.68 | 43600 | 2.3 | | |
| 75 кВт | | | | | | |
| 11 | 62800 | 129.69 | 164100 | 0.80 | K 187 ESQ 280S4 | |
| 13 | 45400 | 112.60 | 166100 | 0.90 | | |
| 14 | 49400 | 102.16 | 166600 | 1.00 | | |
| 17 | 42600 | 88.00 | 166600 | 1.15 | | |
| 20 | 35800 | 73.96 | 165300 | 1.40 | | |
| 23 | 31000 | 64.04 | 163400 | 1.60 | | |
| 28 | 25800 | 53.36 | 160100 | 1.95 | | |
| 33 | 22000 | 45.50 | 156700 | 2.3 | | |
| 19 | 37800 | 78.14 | 128100 | 0.85 | | K 167 ESQ 280S4 |
| 22 | 32900 | 68.07 | 127100 | 0.95 | | |
| 24 | 29400 | 60.74 | 127300 | 1.10 | | |
| 29 | 25100 | 51.77 | 126800 | 1.30 | | |
| 35 | 20800 | 42.89 | 125200 | 1.55 | | |
| 40 | 17700 | 36.61 | 123200 | 1.80 | | |
| 46 | 15600 | 32.25 | 121300 | 2.0 | | |
| 51 | 13900 | 28.77 | 119300 | 2.3 | | |
| 60 | 11900 | 24.52 | 116300 | 2.7 | | |
| 39 | 18400 | 38.02 | 60800 | 1.00 | K 157 ESQ 280S4 | |
| 47 | 15100 | 31.30 | 62200 | 1.20 | | |
| 54 | 13400 | 27.62 | 62600 | 1.35 | | |
| 62 | 11600 | 23.95 | 62600 | 1.55 | | |
| 69 | 10300 | 21.31 | 62400 | 1.75 | | |
| 81 | 8890 | 18.37 | 61800 | 2.0 | | |
| 99 | 7220 | 14.92 | 60500 | 2.5 | | |
| 117 | 6120 | 12.65 | 59300 | 2.8 | | |
| 47 | 15200 | 31.37 | 39200 | 0.85 | | K 127 ESQ 280S4 |
| 53 | 13400 | 27.68 | 40800 | 0.95 | | |
| 62 | 11600 | 23.91 | 42200 | 1.10 | | |
| 70 | 10200 | 21.15 | 42900 | 1.25 | | |
| 83 | 8600 | 17.77 | 43500 | 1.50 | | |
| 103 | 6940 | 14.35 | 43700 | 1.75 | | |
| 116 | 6190 | 12.79 | 41100 | 1.40 | | |
| 138 | 5200 | 10.74 | 41000 | 1.55 | | |
| 171 | 4200 | 8.68 | 40400 | 1.70 | | |

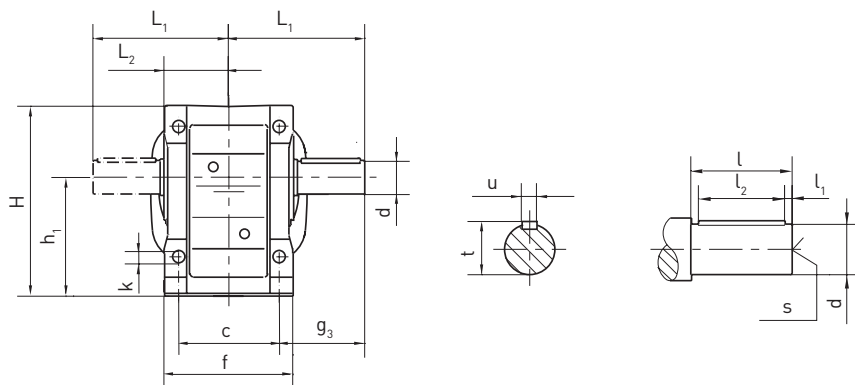
| n2 [1/мин] | M [H*м] | i | Fr2 [N] | fs | Редуктор + ПАМ | |
|----------------|---------|--------|---------|------|-----------------|-----------------|
| 90 кВт | | | | | | |
| 14 | 59300 | 102.16 | 151300 | 0.85 | K 187 ESQ 280M4 | |
| 17 | 51100 | 88.00 | 153400 | 1.00 | | |
| 20 | 42900 | 73.96 | 154200 | 1.15 | | |
| 23 | 37200 | 64.04 | 153800 | 1.35 | | |
| 28 | 31000 | 53.36 | 152200 | 1.60 | | |
| 33 | 28400 | 45.50 | 149900 | 1.90 | | |
| 35 | 24700 | 42.51 | 148700 | 2.0 | | |
| 38 | 22400 | 38.57 | 146900 | 2.2 | | |
| 22 | 39500 | 68.07 | 115100 | 0.80 | | K 167 ESQ 280M4 |
| 24 | 35300 | 60.74 | 116600 | 0.90 | | |
| 29 | 30100 | 51.77 | 117600 | 1.05 | | |
| 35 | 24900 | 42.89 | 117600 | 1.30 | | |
| 40 | 21300 | 36.61 | 116700 | 1.50 | | |
| 46 | 18700 | 32.25 | 115500 | 1.70 | | |
| 51 | 16700 | 28.77 | 114200 | 1.90 | | |
| 60 | 14200 | 24.52 | 111900 | 2.2 | | |
| 73 | 11800 | 20.32 | 108800 | 2.7 | | |
| 85 | 10100 | 17.34 | 106000 | 3.2 | | |
| 39 | 22100 | 38.02 | 52700 | 0.80 | K 157 ESQ 280M4 | |
| 47 | 18200 | 31.30 | 55500 | 1.00 | | |
| 54 | 18000 | 27.62 | 56700 | 1.10 | | |
| 62 | 13900 | 23.95 | 57500 | 1.30 | | |
| 69 | 12400 | 21.31 | 57900 | 1.45 | | |
| 81 | 10700 | 18.37 | 57900 | 1.70 | | |
| 99 | 8670 | 14.92 | 57400 | 2.1 | | |
| 117 | 7350 | 12.65 | 56600 | 2.3 | | |
| 62 | 13900 | 23.91 | 36400 | 0.95 | | K 127 ESQ 280M4 |
| 70 | 12300 | 21.15 | 37800 | 1.05 | | |
| 83 | 10300 | 17.77 | 39200 | 1.25 | | |
| 103 | 8330 | 14.35 | 40200 | 1.45 | | |
| 116 | 7420 | 12.79 | 37600 | 1.15 | | |
| 138 | 6240 | 10.74 | 38000 | 1.30 | | |
| 171 | 5040 | 8.68 | 38000 | 1.45 | | |
| 110 кВт | | | | | | |
| 17 | 62300 | 88.00 | 136000 | 0.80 | K 187 ESQ 315S4 | |
| 20 | 52300 | 73.96 | 139500 | 0.95 | | |
| 23 | 45300 | 64.04 | 141000 | 1.10 | | |
| 28 | 37700 | 53.36 | 141500 | 1.30 | | |
| 33 | 32200 | 45.50 | 140800 | 1.55 | | |
| 35 | 30100 | 42.51 | 140200 | 1.65 | | |
| 39 | 27300 | 38.57 | 139100 | 1.85 | | |
| 45 | 23500 | 33.23 | 137000 | 2.1 | | |
| 53 | 19800 | 27.92 | 134000 | 2.5 | | |
| 29 | 36600 | 51.77 | 105500 | 0.85 | | K 167 ESQ 315S4 |
| 35 | 30300 | 42.89 | 107500 | 1.05 | | |
| 41 | 25900 | 36.61 | 108100 | 1.25 | | |
| 46 | 22800 | 32.25 | 107900 | 1.40 | | |
| 52 | 20400 | 28.77 | 107400 | 1.55 | | |
| 61 | 17300 | 24.52 | 106100 | 1.85 | | |
| 73 | 14400 | 20.32 | 104000 | 2.2 | | |
| 86 | 12300 | 17.34 | 101800 | 2.6 | | |
| 62 | 16900 | 23.95 | 50800 | 1.05 | K 157 ESQ 315S4 | |
| 70 | 15100 | 21.31 | 51900 | 1.20 | | |
| 81 | 13000 | 18.37 | 52700 | 1.40 | | |
| 100 | 10600 | 14.92 | 53100 | 1.70 | | |
| 117 | 8950 | 12.65 | 53000 | 1.90 | | |
| 132 кВт | | | | | | |
| 20 | 62800 | 73.96 | 123300 | 0.80 | | K 187 ESQ 315M4 |
| 23 | 54400 | 64.04 | 127000 | 0.90 | | |
| 28 | 45300 | 53.36 | 129800 | 1.10 | | |
| 33 | 38600 | 45.50 | 130800 | 1.30 | | |
| 35 | 36100 | 42.51 | 130900 | 1.40 | | |
| 39 | 32700 | 38.57 | 130700 | 1.55 | | |
| 45 | 28200 | 33.23 | 129800 | 1.75 | | |
| 53 | 23700 | 27.92 | 127900 | 2.1 | | |
| 61 | 20500 | 24.18 | 125900 | 2.3 | | |
| 74 | 17100 | 20.15 | 122800 | 2.6 | | |
| 86 | 14600 | 17.18 | 119700 | 2.8 | | |

| n2 [1/мин] | M [Н*м] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|----------------|---------|-------|---------|------|--|
| 35 | 36400 | 42.89 | 96400 | 0.90 | |
| 41 | 31100 | 36.61 | 98600 | 1.05 | |
| 46 | 27400 | 32.25 | 99600 | 1.15 | |
| 52 | 24400 | 28.77 | 99900 | 1.30 | K 167 ESQ 315M4 |
| 61 | 20800 | 24.52 | 99800 | 1.55 | |
| 73 | 17200 | 20.32 | 98700 | 1.85 | |
| 86 | 14700 | 17.34 | 97300 | 2.2 | |
| 62 | 20300 | 23.95 | 43400 | 0.90 | K 157 ESQ 315M4 |
| 70 | 18100 | 21.31 | 45300 | 1.00 | KF 157 ESQ 315M4 |
| 81 | 15600 | 18.37 | 47000 | 1.15 | KA 157 ESQ 315M4 |
| 100 | 12700 | 14.92 | 48500 | 1.40 | KAF157 ESQ 315M4 |
| 117 | 10700 | 12.65 | 49100 | 1.60 | |
| 160 кВт | | | | | |
| 28 | 54900 | 53.36 | 114900 | 0.90 | |
| 33 | 46800 | 45.50 | 118100 | 1.05 | |
| 45 | 34200 | 33.23 | 120500 | 1.45 | |
| 53 | 28700 | 27.92 | 120100 | 1.75 | K 187 ESQ 315LA4 |
| 61 | 24900 | 24.18 | 119100 | 1.90 | |
| 74 | 20700 | 20.15 | 117200 | 2.1 | |
| 86 | 17700 | 17.18 | 114900 | 2.3 | |
| 41 | 37700 | 36.61 | 86500 | 0.85 | |
| 61 | 25200 | 24.52 | 91700 | 1.25 | K 167 ESQ 315LA4 |
| 73 | 20900 | 20.32 | 82000 | 1.55 | |
| 86 | 17800 | 17.34 | 91600 | 1.80 | |
| 81 | 18900 | 18.37 | 39800 | 0.95 | K 157 ESQ 315LA4 |
| 100 | 15400 | 14.92 | 42600 | 1.15 | KF 157 ESQ 315LA4 KA 157 ESQ 315LA4 |
| 117 | 13000 | 12.65 | 44100 | 1.30 | KAF157 ESQ 315LA4 |

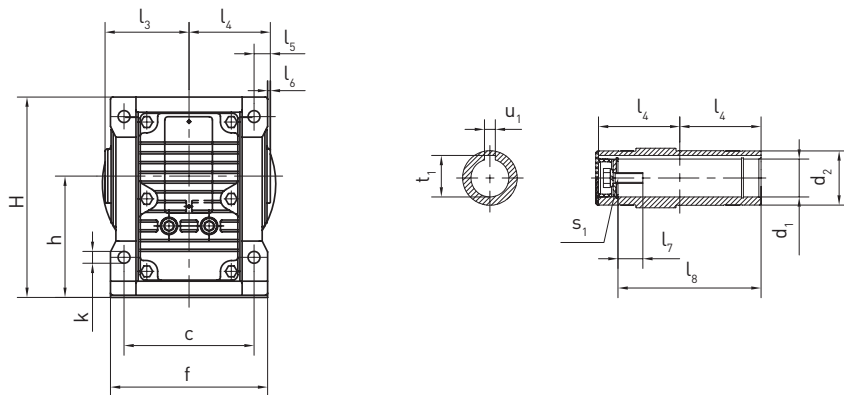
| n2 [1/мин] | M [Н*м] | i | Fr2 [N] | fs | Редуктор + ПАМ |
|----------------|---------|-------|---------|------|---|
| 200 кВт | | | | | |
| 33 | 58500 | 45.50 | 100000 | 0.85 | |
| 45 | 42700 | 33.23 | 107300 | 1.15 | |
| 53 | 35900 | 27.92 | 109000 | 1.40 | K 187 ESQ 315LB4 |
| 61 | 31100 | 24.18 | 109500 | 1.55 | |
| 74 | 25900 | 20.15 | 109100 | 1.70 | |
| 86 | 22100 | 17.18 | 108100 | 1.85 | |
| 61 | 31500 | 24.52 | 80100 | 1.00 | |
| 73 | 26100 | 20.32 | 82400 | 1.20 | K 167 ESQ 315LB4 |
| 86 | 22300 | 17.34 | 83400 | 1.45 | |
| 100 | 19200 | 14.92 | 34200 | 0.95 | K 157 ESQ 315LB4 KF 157 ESQ 315LB4 KA 157 ESQ 315LB4 KAF157 ESQ 315LB4 |
| 117 | 16300 | 12.65 | 36900 | 1.05 | |



K37-K157



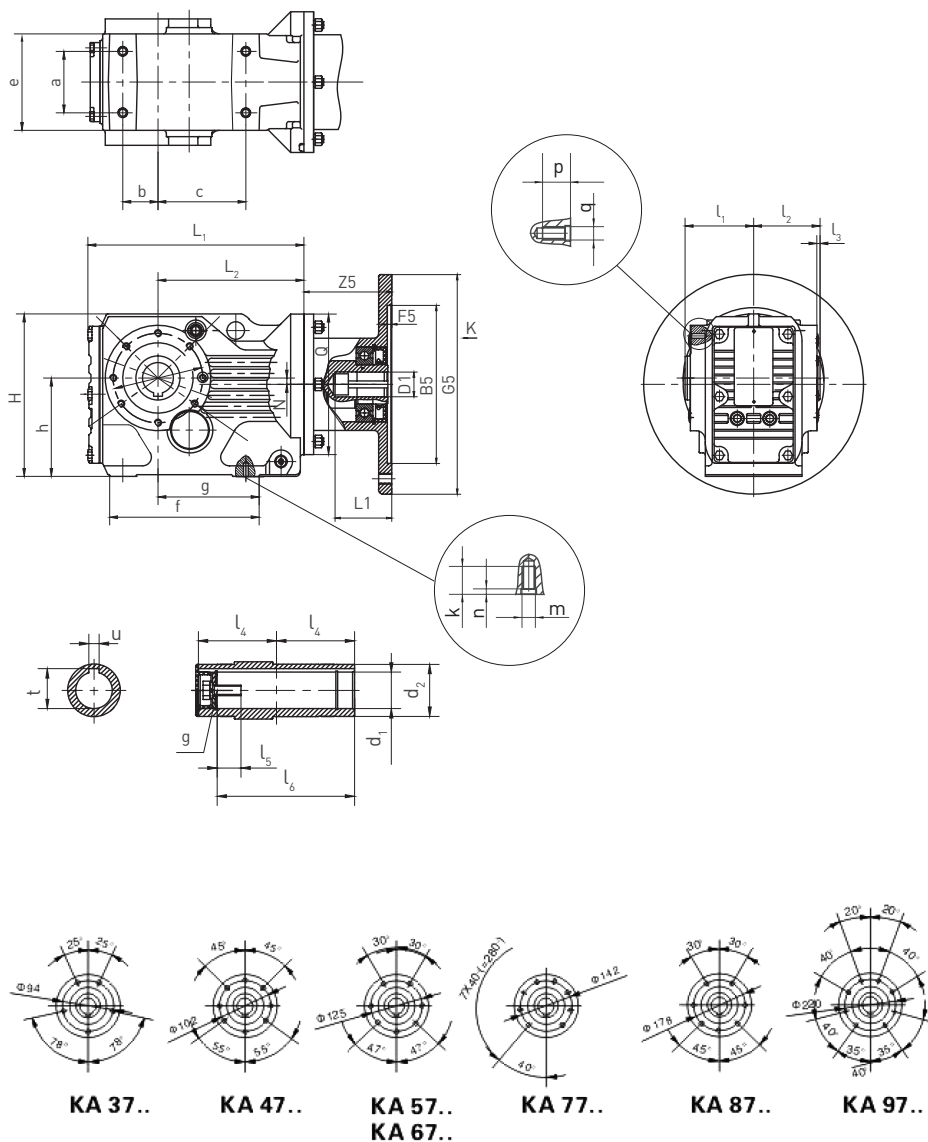
KA37B-KA157B



| Габарит | Размеры сплошного вала | | | | | Габарит | Размеры полого вала | | | | | | |
|-------------|------------------------|-----|----------------------------------|-----|------------|---------------|---------------------|----------------|----------------------------------|----------------------------------|----------------------------------|----------------|----------------------------------|
| | d | l | l ₁ l ₂ | s | t u | | d ₁ | d ₂ | l ₃ l ₄ | l ₅ l ₆ | l ₇ l ₈ | s ₁ | t ₁ u ₁ |
| K37 | 25k6 | 50 | 5 40 | M10 | 28 8 | KA37B | 30H7 | 45 | 60 60 | - | 17 105 | M10x25 | 33.3 8 |
| K47 | 30k6 | 60 | 3.5 50 | M10 | 33 8 | KA47B | 35H7 | 50 | 78 75 | 15 3 | 22 132 | M12x30 | 38.3 10 |
| K57 | 35k6 | 70 | 7 56 | M12 | 38 10 | KA57B | 40H7 | 55 | 86 83 | 18 3 | 29 142 | M16x40 | 43.3 12 |
| K67 | 40k6 | 80 | 5 70 | M16 | 43 12 | KA67B | 40H7 | 55 | 93 90 | 20 3.5 | 29 156 | M16x40 | 43.3 12 |
| K77 | 50k6 | 100 | 10 80 | M16 | 53.5 14 | KA77B | 50H7 | 70 | 108 105 | 22.5 4 | 32 183 | M16x45 | 53.8 14 |
| K87 | 60m6 | 120 | 5 110 | M20 | 64 18 | KA87B | 60H7 | 85 | 123 120 | 30 4 | 36 210 | M20x50 | 64.4 18 |
| K97 | 70m6 | 140 | 7.5 25 | M20 | 74.5 20 | KA97B | 70H7 | 95 | 153 150 | 30 4 | 34 210 | M20x50 | 74.9 20 |
| K107 | 90m6 | 170 | 5 160 | M24 | 95 25 | KA107B | 90H7 | 118 | 178 175 | 40 2.5 | 40 270 | M24x60 | 95.4 25 |
| K127 | 110m6 | 210 | 15 180 | M24 | 116 28 | KA127B | 100H7 | 135 | 208 205 | 40 2.5 | 38 373 | M24x60 | 106.4 28 |
| K157 | 120m6 | 210 | 5 200 | M24 | 127 32 | KA157B | 120H7 | 155 | 253 250 | 40 | 36 460 | M24x60 | 127.4 32 |

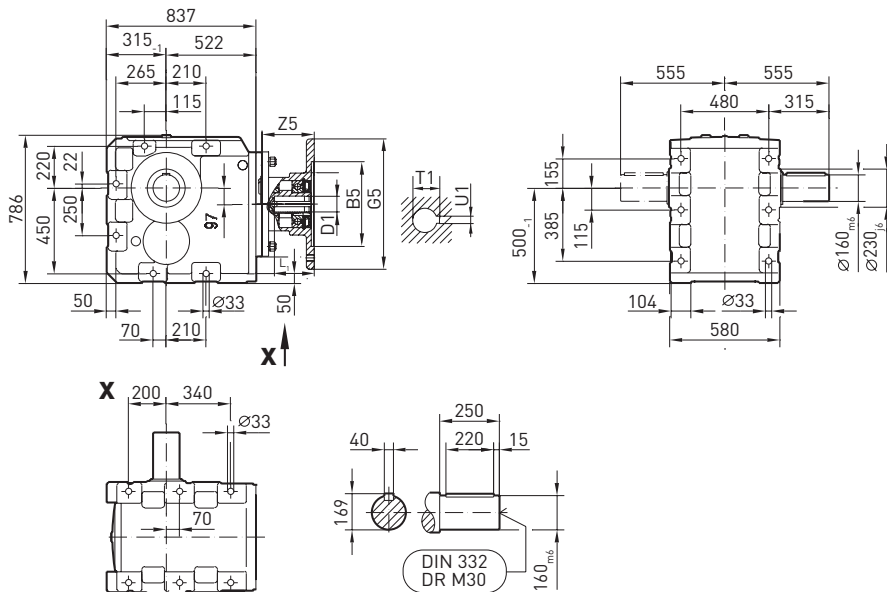
| Габарит | a b c | e ₁ e ₂ f | g ₁ g ₂ g ₃ | h ₁ h ₂ | J | k | m n | H | L ₁ L ₂ | L ₃ | N | Q |
|----------------|-------------------|---------------------------------------|--|--|----|------|------------|-----|----------------------------------|----------------|------|-----|
| K37 KA37B | 115 110 100 | 150 143 120 | 32 26 56.5 | 100 _{-0.5} 63 _{-0.5} | 16 | 11 | 37 38 | 165 | 110 60 | 139 | 8.5 | 120 |
| K47 KA47B | 130 130 120 | 170 162 145 | 37 35 77.5 | 112 _{-0.5} 71 _{-0.5} | 18 | 11 | 37 32 | 185 | 135 72 | 166 | 7.2 | 160 |
| K57 KA57B | 150 130 130 | 190 172 157 | 45 30 89.5 | 132 _{-0.5} 80 _{-0.5} | 21 | 13.5 | 43 40 | 217 | 153 80 | 173 | 13.1 | 160 |
| K67 KA67B | 160 120 140 | 203 170 170 | 45 30 102 | 140 _{-0.5} 90 _{-0.5} | 24 | 13.5 | 43 45 | 228 | 171 86.5 | 179 | 20 | 160 |
| K77 KA77B | 200 150 165 | 263 208 200 | 55 40 125 | 180 _{-0.5} 112 _{-0.5} | 27 | 17.5 | 55 55 | 288 | 206 101 | 202 | 31.3 | 200 |
| K87 KA87B | 233 180 180 | 305 260 230 | 70 55 151.5 | 212 _{-0.5} 132 _{-0.5} | 32 | 22 | 67 75 | 340 | 240 116 | 257 | 25.9 | 250 |
| K97 KA97B | 295 240 240 | 372 294 290 | 75 75 172.5 | 265 ₋₁ 160 _{-0.5} | 36 | 26 | 82 60 | 417 | 291 146 | 277 | 32.3 | 300 |
| K107 KA107B | 360 280 270 | 448 380 340 | 95 95 215 | 315 ₋₁ 200 _{-0.5} | 40 | 33 | 98 100 | 503 | 347 175 | 341 | 52 | 350 |
| K127 KA127B | 420 350 330 | 526 440 400 | 110 115 253 | 375 ₋₁ 225 _{-0.5} | 45 | 39 | 111 100 | 592 | 418 203 | 390 | 53 | 450 |
| K157 KA157B | 500 380 420 | 634 480 500 | 130 140 247 | 450 ₋₁ 280 ₋₁ | 50 | 39 | 130 100 | 705 | 457 250 | 426 | 71.7 | 550 |

KA37...KA107

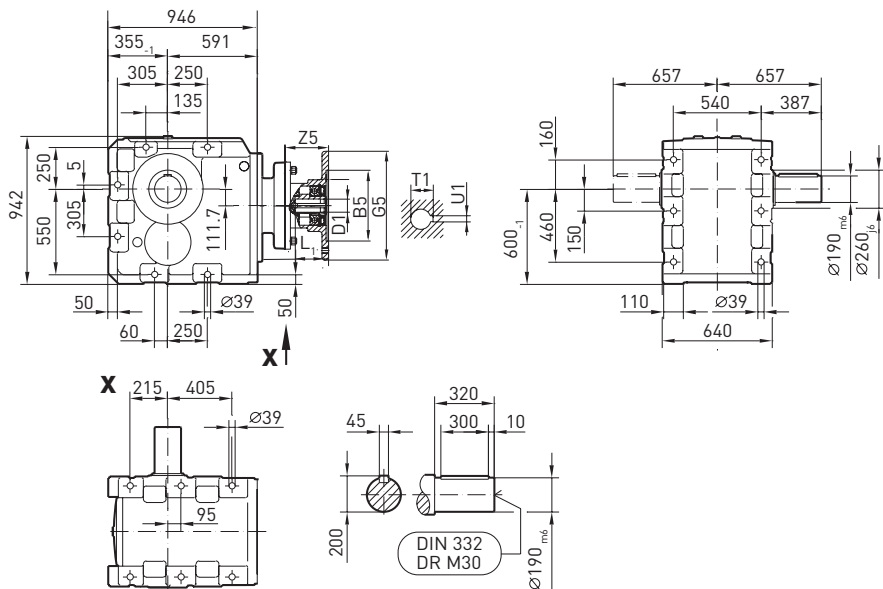


| Габарит | a | e | h | k | p | d ₁ | l ₁ | l ₄ | s | g ₁ | h ₁ | d ₃ | r | H | N |
|----------------------|-------------------|-------------------|---------------------|----------------|-----------|-------------------------|-------------------|------------------|-------------------|------------------|--|---|-----------------------------------|-------------------|-------------|
| | b | f | | m | q | d ₂ | l ₂ | l ₅ | t | g ₂ | | h ₂ | | l ₇ | |
| | c | g | | n | | | l ₃ | l ₆ | u | g ₃ | h ₃ | l ₈ | | | |
| KA37... K37T... | 60 35 82 | 100 147 97 | 100 ^{-0.5} | 20 M10 4 | 12 M8 | 30 ^{H7} 45 | 63 60 2.5 | 60 17 105 | M10 33.3 8 | 23.5 20 20 | 100 ^{-0.5} 10 140 ^{+0.2} -0.7 | 10.4 ^{+0.1} 31 36 ^{-0.3} | 22.5 M10x25 60 ⁰ | 164 210 139 | 8.5 120 |
| KA47... K47B... | 70 70 100 | 110 170 115 | 112 ^{-0.5} | 20 M10 4 | 12 M8 | 35 ^{H7} 50 | 78 75 3 | 75 22 132 | M12 38.3 10 | 30 20 20 | 112 ^{-0.5} 12 160 ^{+0.2} -0.7 | 10.4 ^{+0.1} 31 36 ^{-0.3} | 22.5 M10x30 55 ⁰ | 185 243 166 | 7.2 160 |
| KA57... K57B... | 88 47 105 | 122 182 120 | 132 ^{-0.5} | 25 M12 5 | 20 M12 | 40 ^{H7} 55 | 86 83 3 | 86 29 142 | M16 43.3 12 | 40 18 18 | 132 ^{-0.5} 13 192 ^{+0.2} -0.7 | 16.4 ^{+0.08} 54 60 ^{-0.3} | 29 M12x35 55 ⁰ | 215 269 173 | 13.1 160 |
| KA67... K67B... | 88 42 110 | 130 182 125 | 140 ^{-0.5} | 25 M12 5 | 20 M12 | 40 ^{H7} 55 | 94 90 3.5 | 90 29 156 | M16 43.3 12 | 45 25 25 | 140 ^{-0.5} 13 200 ^{+0.2} -0.7 | 16.4 ^{+0.08} 54 60 ^{-0.3} | 29 M12x35 55 ⁰ | 226 274 179 | 20 160 |
| KA77... K77B... | 102 48 122 | 154 204 139 | 180 ^{-0.5} | 32 M16 6 | 20 M12 | 50 ^{H7} 70 | 108 105 4 | 105 32 186 | M16 53.8 14 | 52.5 25 25 | 180 ^{-0.5} 14 250 ^{+0.2} -0.7 | 16.4 ^{+0.08} 54 60 ^{-0.3} | 29 M16x40 60 ⁰ | 286 312 202 | 31.3 200 |
| KA87... K87B... | 118 65 160 | 170 280 190 | 212 ^{-0.5} | 32 M16 6 | 26 M16 | 60 ^{H7} 85 | 123 120 4 | 120 36 210 | M20 64.4 18 | 60 30 30 | 212 ^{-0.5} 16 300 ^{+0.2} -0.7 | 25 ^{+0.08} 72 80 ^{-0.3} | 41 M16x45 60 ⁰ | 338 390 275 | 25.9 250 |
| KA97... K97B... | 160 83 165 | 226 298 190 | 262 ^{-0.5} | 36 M20 6 | 26 M16 | 70 ^{H7} 95 | 153 150 4 | 150 34 270 | M20 74.9 20 | 70 40 40 | 265 ^{-0.5} 17 350 ^{+0.2} -0.7 | 25 ^{+0.08} 90 100 ^{-0.3} | 41 M20x50 50 ⁰ | 414 435 277 | 32.3 300 |
| KA107... K107B... | 190 100 190 | 266 370 230 | 315 ^{-0.5} | 44 M24 6 | - | 90 ^{H7} 118 | 178 175 2.5 | 175 40 313 | M24 95.4 25 | 74 45 45 | 315 ^{-0.5} 20 450 ^{+0.2} -0.7 | 25 ^{+0.08} 90 100 ^{-0.3} | 41 M24x60 55 ⁰ | 500 537 341 | 52 350 |

K167..



K187..



KF37..KF157..

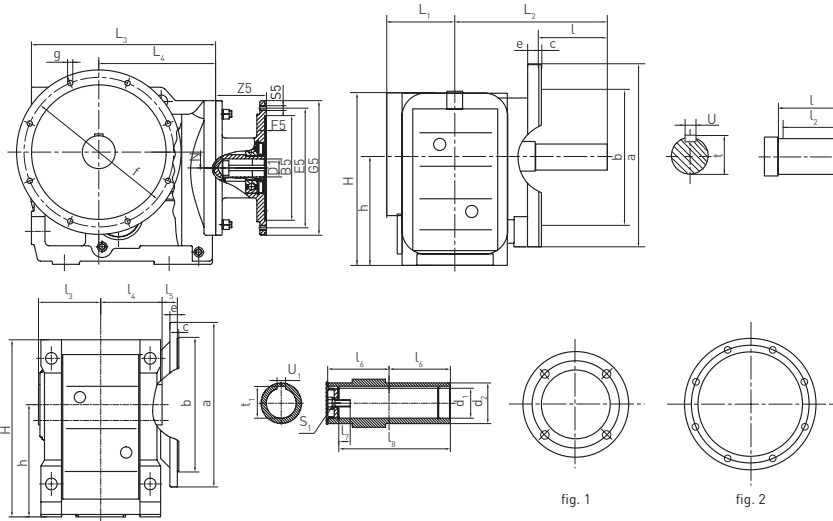
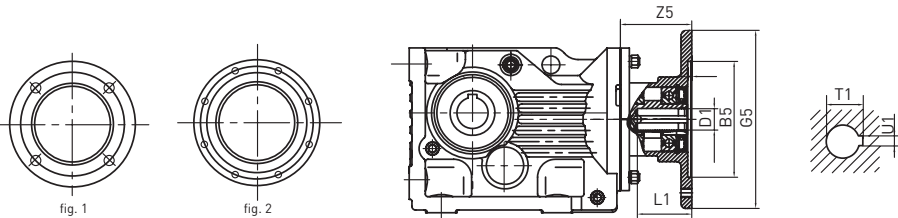


fig. 1

fig. 2

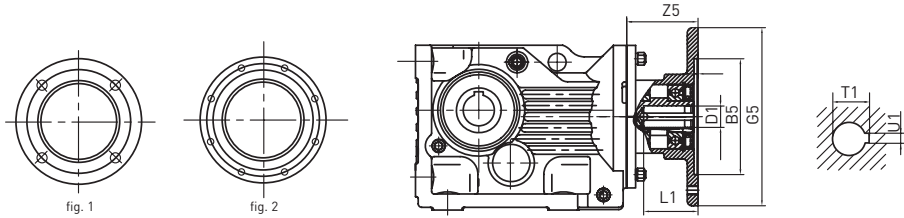
| Габарит | | a b | c e | f g h | d | l ₁ | s | t | u | d ₁ | d ₂ | l ₃ | l ₄ | l ₅ | l ₆ | l ₇ | l ₈ | S1 | t ₁ | u ₁ | H | L ₁ | L ₂ | L ₃ | L ₄ | N | Q |
|------------------------|-------|--------------|-----------|----------------------|--------------|----------------|-----|------|----|----------------|----------------|---------------------------|-------------------|----------------|----------------|----------------|----------------|--------|----------------|----------------|-----|--------------------|--------------------|----------------|----------------|---|---|
| | | | | | l | l ₂ | | | | | | | | | | | | | | | | | | | | | |
| KF37... KAF37 | Fig.1 | 160 110j6 | 3.5 10 | 130 9 100 | 25k6 50 | 5 40 | M10 | 28 | 8 | 30H7 45 | | 63 60 17 24 | 60 17 105 | | | | | M10x25 | 33.3 8 | | 164 | 57.5 134 210 | 139 8.5 120 | | | | |
| KF47... KAF47B... | Fig.1 | 200 130j6 | 3.5 10 | 165 11 112 | 30k6 60 | 3.5 50 | M10 | 33 | 8 | 35H7 50 | | 78 75 25 12 | 75 22 132 | | | | | M12x30 | 38.3 10 | | 185 | 72 160 243 | 166 7.2 160 | | | | |
| KF57... KAF57B... | Fig.1 | 250 180j6 | 4 15 | 215 13.5 132 | 35k6 70 | 7 56 | M12 | 38 | 10 | 40H7 55 | | 86 83 23.5 142 | 83 29 142 | | | | | M16x40 | 43.3 12 | | 215 | 80 177 269 | 173 13.1 160 | | | | |
| KF67... KAF67B... | Fig.1 | 250 180j6 | 4 15 | 215 13.5 140 | 40k6 80 | 5 70 | M16 | 43 | 12 | 40H7 55 | | 94 90 23 156 | 90 29 156 | | | | | M16x40 | 43.3 12 | | 226 | 86.5 193 274 | 179 20 160 | | | | |
| KF77... KAF77B... | Fig.1 | 300 230j6 | 4 15 | 265 13.5 180 | 50k6 100 | 80 10 | M16 | 53.5 | 14 | 50H7 70 | | 108 105 37 183 | 105 132 183 | | | | | M16x45 | 53.8 14 | | 286 | 101 242 312 | 202 31.3 200 | | | | |
| KF87... KAF87B... | Fig.1 | 350 250h6 | 5 18 | 300 17.5 212 | 60m6 120 | 5 110 | M20 | 64 | 18 | 60H7 85 | | 123 120 30 210 | 120 136 210 | | | | | M20x50 | 64.4 18 | | 338 | 138 270 390 | 157 25.9 250 | | | | |
| KF97... KAF97B... | Fig.2 | 450 350h6 | 5 22 | 400 17.5 265 | 70m6 140 | 7.5 125 | M20 | 74.5 | 20 | 70H7 95 | | 153 150 41.5 270 | 150 34 270 | | | | | M20x50 | 74.9 20 | | 414 | 171 332 435 | 277 32.3 300 | | | | |
| KF107... KAF107B... | Fig.2 | 450 350h6 | 5 22 | 400 17.5 315 | 90m6 170 | 5 160 | M24 | 95 | 25 | 90H7 118 | | 178 175 41 313 | 175 40 313 | | | | | M24x60 | 95.4 25 | | 500 | 175 386 537 | 341 52 350 | | | | |
| KF127... KAF127B... | Fig.2 | 550 450h6 | 5 25 | 500 17.5 375-1 | 110m6 210 | 15 180 | M24 | 116 | 28 | 100H7 135 | | 208 205 51 373 | 205 38 373 | | | | | M24x60 | 106.4 28 | | 592 | 203 466 615 | 390 53 450 | | | | |
| KF157... KAF157B... | Fig.2 | 660 550h6 | 6 28 | 600 22 450-1 | 120m6 210 | 5 200 | M24 | 127 | 32 | 120H7 155 | | 253 250 60 460 | 250 36 460 | | | | | M24x60 | 127.4 32 | | 705 | 253 520 706 | 705 71.7 550 | | | | |

К..АМ.. РАМ (присоединительные размеры к двигателю)



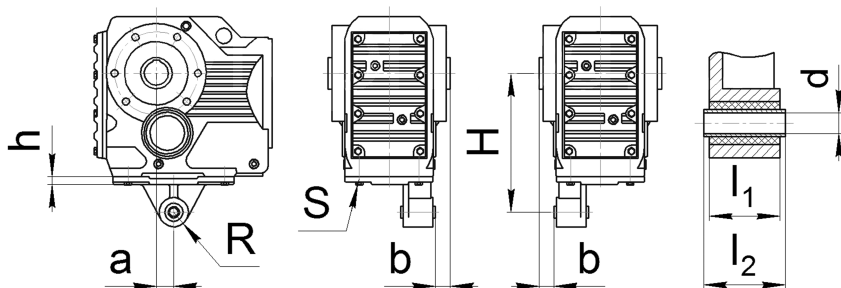
| | | Fig | B5 | E5 | F5 | G2 | G5 | S5 | Z5 | D1 | L1 | T1 | U1 | | |
|-----------------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|----|
| K..37 | AM63 | 1 | 95 | 115 | 3.5 | 120 | 140 | M8 | 72 | 11 | 23 | 12.8 | 4 | | |
| | AM71 ¹⁾ | | 110 | 130 | | | 14 | | | 30 | 16.3 | 5 | | | |
| | AM80 ¹⁾ | | 130 | 165 | 4.5 | | 200 | M10 | 106 | 19 | 40 | 21.8 | 6 | | |
| | AM90 ¹⁾ | | | | | | | | | 24 | 50 | 27.3 | 8 | | |
| K..47 | AM63 | 1 | 95 | 115 | 3.5 | 160 | 140 | M8 | 66 | 11 | 23 | 12.8 | 4 | | |
| | AM71 | | 110 | 130 | | | 14 | | | 30 | 16.3 | 5 | | | |
| AM80 | 130 | | 165 | 4.5 | 200 | | M10 | 99 | 19 | 40 | 21.8 | 6 | | | |
| AM90 | | | | | | | | | 24 | 50 | 27.3 | 8 | | | |
| K...57 K...67 | AM100 ¹⁾ | | 180 | 215 | 5 | | 250 | M12 | 134 | 28 | 60 | 31.3 | 8 | | |
| K..77 | AM63 | 1 | 95 | 115 | 3.5 | 200 | 140 | M8 | 60 | 11 | 23 | 12.8 | 4 | | |
| | AM71 | | 110 | 130 | | | 14 | | | 30 | 16.3 | 5 | | | |
| | AM80 | | 130 | 165 | 4.5 | | 200 | M10 | 92 | 19 | 40 | 21.8 | 6 | | |
| | AM90 | | | | | | | | | 24 | 50 | 27.3 | 8 | | |
| | AM100 ¹⁾ | | | 180 | 215 | | 5 | | 250 | M12 | 126 | 28 | 60 | 31.3 | 8 |
| | AM112 ¹⁾ | | | 230 | 265 | | 5 | | 300 | | 179 | 38 | 80 | 41.3 | 10 |
| | AM132S ¹⁾ | | | | | | | | | | | | | | |
| | AM132M ¹⁾ | | | | | | | | | | | | | | |
| AM132ML ¹⁾ | | | | | | | | | | | | | | | |
| K..87 | AM80 | 1 | 130 | 165 | 4.5 | 250 | 200 | M10 | 87 | 19 | 40 | 21.8 | 6 | | |
| | AM90 | | | | | | | | | 24 | 50 | 27.3 | 8 | | |
| | AM100 | | 180 | 215 | 5 | | 250 | 250 | M12 | 121 | 28 | 60 | 31.3 | 8 | |
| | AM112 | | | | | | | | | | | | | | |
| | AM132S | | 230 | 265 | 5 | | 250 | 300 | M12 | 174 | 38 | 80 | 41.3 | 10 | |
| | AM132M | | | | | | | | | | | | | | |
| | AM132ML | | 250 | 300 | 6 | | 250 | 350 | M16 | 232 | 42 | 110 | 45.3 | 12 | |
| | AM160 ¹⁾ | | | | | | | | | | 48 | | 51.8 | 14 | |
| AM180 ¹⁾ | | | | | | | | | | | | | | | |
| K..97 | AM100 | 1 | 180 | 215 | 5 | 300 | 250 | M12 | 116 | 28 | 60 | 31.3 | 8 | | |
| | AM112 | | | | | | | | | | | | | | |
| | AM132S | | 230 | 265 | 5 | | 300 | | M12 | 169 | 38 | 80 | 41.3 | 10 | |
| | AM132M | | | | | | | | | | | | | | |
| | AM132ML | 250 | 300 | 6 | 300 | | 350 | M16 | 227 | 42 | 110 | 45.3 | 12 | | |
| | AM160 | | | | | | | | | 48 | | 51.8 | 14 | | |
| | AM180 | 300 | 350 | 7 | 300 | | 400 | M16 | 268 | 55 | 110 | 59.3 | 16 | | |
| | AM200 ¹⁾ | | | | | | | | | | | | | | |
| | AM225 ¹⁾ | 2 | 350 | 400 | 7 | | 300 | 450 | M16 | 283 | 60 | 140 | 64.4 | 18 | |

К..АМ.. РАМ (присоединительные размеры к двигателю)

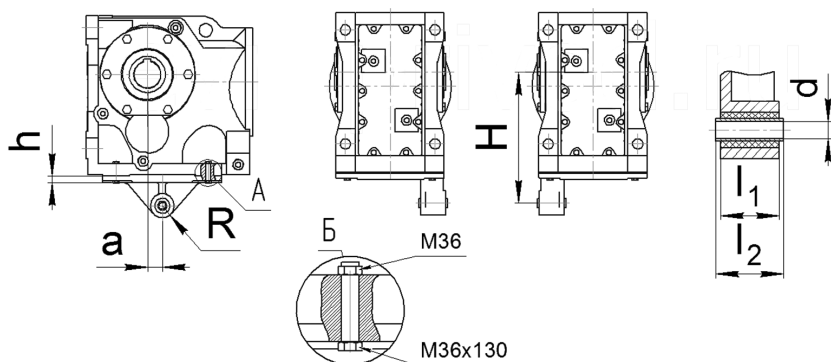


| | | Fig | B5 | E5 | F5 | G2 | G5 | S5 | Z5 | D1 | L1 | T1 | U1 | | | | | |
|--------|---------|-------|-----|------|-----|-----|-----|------|-----|-----|------|------|------|------|------|-----|------|----|
| K..107 | AM100 | 1 | 180 | 215 | 5 | 350 | 250 | M12 | 110 | 28 | 60 | 31.3 | 8 | | | | | |
| | AM112 | | | | | | | | | | | | | | | | | |
| | AM132S | | | | | | | | | | | | | | | | | |
| | AM132M | | | | | | | | | | | | | | | | | |
| | AM132ML | | 230 | 265 | | | | 300 | | 163 | 38 | 80 | 41.3 | 10 | | | | |
| | AM160 | | 250 | 300 | 6 | | | 350 | M16 | 221 | 42 | 110 | 45.3 | 12 | | | | |
| | AM180 | | | | | | 48 | 51.8 | | | 14 | | | | | | | |
| | AM200 | | 300 | 350 | 7 | | | 400 | | 262 | 55 | | 59.3 | 16 | | | | |
| AM225 | 2 | 350 | 400 | 6 | | 450 | | 277 | 60 | 140 | 64.4 | 18 | | | | | | |
| K..127 | AM132S | 1 | 230 | 265 | 5 | 450 | 300 | M12 | 148 | 38 | 80 | 41.3 | 10 | | | | | |
| | AM132M | | | | | | | | | | | | | | | | | |
| | AM160 | | | 250 | | | 300 | | 6 | | | 350 | M16 | 206 | 42 | 110 | 45.3 | 12 |
| | AM180 | | | | | | | | | 48 | | 51.8 | | | 14 | | | |
| | AM200 | | 300 | 350 | 7 | | | 400 | | 247 | 55 | | 59.3 | 16 | | | | |
| | AM225 | 2 | 350 | 400 | 6 | | | 450 | | 262 | 60 | | 64.4 | 18 | | | | |
| | AM250 | | | 450 | 500 | | 7 | | 550 | M16 | 336 | 65 | 140 | | 69.4 | | | |
| | AM280 | | | | | | | 75 | | | | 79.9 | | 20 | | | | |
| K..157 | AM160 | | 1 | 250 | 300 | 6 | 550 | 350 | M16 | 198 | 42 | 110 | 45.3 | 12 | | | | |
| | AM180 | | | | | | | | | | 48 | | 51.8 | 14 | | | | |
| K..167 | AM200 | | 300 | 350 | 7 | | | 400 | | | 239 | 55 | | 59.3 | 16 | | | |
| | K..187 | AM225 | 2 | 350 | 400 | 6 | | | | 450 | | 254 | 60 | 140 | 64.4 | 18 | | |
| AM250 | | | | | | | | 550 | M16 | 328 | 65 | 69.4 | | | | | | |
| AM280 | | | 75 | 79.9 | 20 | | | | | | | | | | | | | |

Размеры реактивной тяги
KA 37...107



KA 127...157

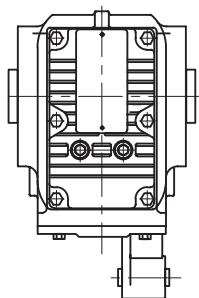


| Габарит редуктора | a | b | H | h | R | S | l ₁ | l ₂ | d |
|-------------------|------|----|-----|----|------|-----------|----------------|---------------------|-----------|
| 37 | 23,5 | 20 | 140 | 10 | 22,5 | M10 x 25 | 31 | 36 _{-0,3} | 10,4±0,1 |
| 47 | 30 | 20 | 160 | 12 | 22,5 | M10 x 30 | 31 | 36 _{-0,3} | 10,4±0,1 |
| 57 | 40 | 18 | 192 | 13 | 29 | M12 x 35 | 54 | 60 _{-0,3} | 16,4±0,08 |
| 67 | 45 | 25 | 200 | 13 | 29 | M12 x 35 | 54 | 60 _{-0,3} | 16,4±0,08 |
| 77 | 52,5 | 25 | 250 | 14 | 29 | M16 x 40 | 54 | 60 _{-0,3} | 16,4±0,08 |
| 87 | 60 | 30 | 300 | 16 | 41 | M 16 x 45 | 72 | 80 _{-0,3} | 25±0,08 |
| 97 | 70 | 40 | 350 | 17 | 41 | M20 x 50 | 92 | 100 _{-0,3} | 25±0,08 |
| 107 | 74 | 45 | 450 | 20 | 41 | M24 x 60 | 92 | 100 _{-0,3} | 25±0,08 |
| 127 | 60 | 0 | 550 | 45 | 70 | M36 x 130 | 110 | 126 _{-0,3} | 40±0,08 |
| 157 | 50 | 0 | 700 | 45 | 70 | M36 x 130 | 110 | 126 _{-0,3} | 40±0,08 |

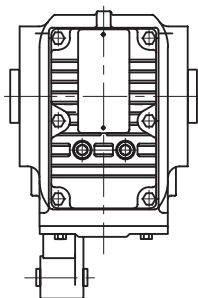
1. Исполнение реактивной штанги

T1 (слева от входного вала), T2 (справа от входного вала)

T1



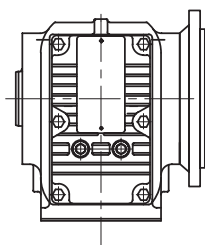
T2



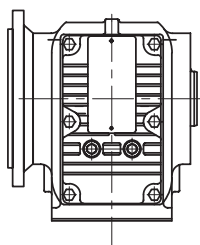
2. Исполнение выходного фланца

F1 (слева от входного вала), F2 (справа от входного вала)

F1



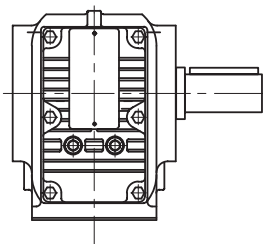
F2



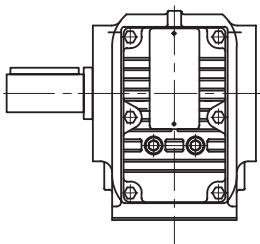
3. Исполнение выходного вала

SS1 (слева от входного вала), SS2 (справа от входного вала), DS (двухсторонний выходной вал)

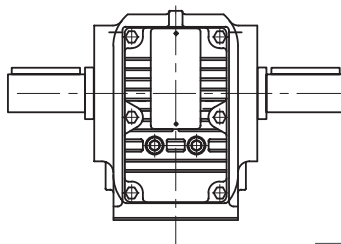
SS1

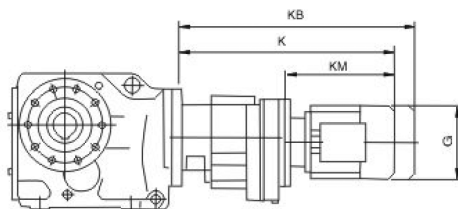


SS2



DS





| | | G | K | KB | KM |
|----------------------|--------|-----|-----|-----|-----|
| K..37R17 | D63.. | 155 | 368 | 425 | 193 |
| | D71D | 155 | 369 | 433 | 194 |
| | D80.. | 155 | 419 | 483 | 244 |
| K..47R17 K..67R37 | D63.. | 155 | 400 | 457 | 235 |
| | D71D | 155 | 401 | 465 | 236 |
| | D80.. | 155 | 451 | 515 | 286 |
| K..57R37 | D63.. | 155 | 410 | 457 | 235 |
| | D71D | 155 | 401 | 465 | 236 |
| | D80.. | 155 | 451 | 515 | 286 |
| K..77R37 | D90.. | 210 | 451 | 538 | 286 |
| | D63.. | 155 | 392 | 449 | 235 |
| | D71D | 155 | 393 | 457 | 236 |
| K..87R57 | D80.. | 155 | 443 | 507 | 286 |
| | D90.. | 210 | 443 | 528 | 286 |
| | D63.. | 155 | 445 | 502 | 229 |
| K..87R57 | D71D | 155 | 445 | 569 | 229 |
| | D80.. | 210 | 495 | 559 | 279 |
| | D90.. | 210 | 495 | 580 | 279 |
| | D100M | 210 | 545 | 634 | 329 |
| | D100L | 210 | 565 | 650 | 349 |
| | D63.. | 155 | 440 | 497 | 229 |
| K..97R57 | D71D | 155 | 440 | 504 | 229 |
| | D80.. | 210 | 490 | 554 | 279 |
| | D90.. | 210 | 490 | 575 | 279 |
| | D100M | 210 | 540 | 625 | 329 |
| | D100L | 210 | 560 | 645 | 349 |
| | D112M | 240 | 575 | 655 | 364 |
| K..107R77 | D63.. | 155 | 470 | 527 | 223 |
| | D71D | 155 | 470 | 534 | 223 |
| | D80.. | 155 | 520 | 584 | 273 |
| | D90.. | 210 | 518 | 603 | 271 |
| | D100M | 210 | 568 | 653 | 321 |
| | D100L | 210 | 588 | 673 | 341 |
| | D112M | 240 | 602 | 682 | 355 |
| | D132S | 240 | 647 | 727 | 400 |
| | D132M | 285 | 699 | 811 | 452 |
| | D132ML | 285 | 719 | 831 | 472 |
| D160M | 330 | 749 | 861 | 512 | |

| | | G | K | KB | KM |
|---|--------|-----|------|------|-----|
| K..127R77 | D63.. | 155 | 45.5 | 512 | 223 |
| | D71D | 155 | 455 | 519 | 223 |
| | D80.. | 155 | 505 | 569 | 273 |
| | D90.. | 210 | 503 | 588 | 271 |
| | D100M | 210 | 553 | 638 | 321 |
| | D100L | 210 | 573 | 658 | 341 |
| | D112M | 240 | 587 | 657 | 355 |
| | D132S | 240 | 632 | 712 | 400 |
| | D132M | 285 | 684 | 796 | 452 |
| | D132ML | 285 | 704 | 816 | 472 |
| K..127R87 | D160M | 330 | 734 | 846 | 502 |
| | D90 | 210 | 547 | 632 | 267 |
| | D100M | 210 | 597 | 682 | 317 |
| | DV100L | 210 | 617 | 702 | 337 |
| | D112M | 240 | 630 | 710 | 350 |
| | D132S | 240 | 675 | 755 | 395 |
| | D132M | 285 | 727 | 839 | 447 |
| | D132ML | 285 | 747 | 859 | 467 |
| | D160M | 320 | 777 | 889 | 497 |
| | DV160L | 330 | 824 | 9.80 | 544 |
| K..157R97 K167R97 KH167BR97 K187R97 KH187R97 | D180.. | aso | 896 | 1052 | 616 |
| | D80.. | 155 | 586 | 650 | 261 |
| | D90.. | 210 | 586 | 671 | 261 |
| | D100M | 210 | 636 | 721 | 311 |
| | D100L | 210 | 658 | 741 | 331 |
| | D112M | 240 | 670 | 750 | 345 |
| | D132S | 240 | 715 | 795 | 339 |
| | D132M | 285 | 767 | 879 | 442 |
| | D132ML | 330 | 787 | 899 | 482 |
| | D160M | 330 | 817 | 929 | 492 |
| K..157R107 K167R97 KH167BR97 K187R97 KH187R97 | D160L | 330 | 864 | 1020 | 539 |
| | D180. | 380 | 936 | 1092 | 611 |
| | D200.. | 420 | 1024 | 1180 | 699 |
| | D100M | 210 | 687 | 772 | 305 |
| | D100L | 210 | 707 | 792 | 325 |
| | D112M | 240 | 721 | 801 | 339 |
| | D132S | 240 | 768 | 846 | 384 |
| | D132M | 285 | 818 | 930 | 436 |
| | D132ML | 285 | 838 | 9.50 | 456 |
| | D160M | 330 | 868 | 980 | 486 |
| K..157R107 K167R97 KH167BR97 K187R97 KH187R97 | D160L | 330 | 915 | 1071 | 533 |
| | D180.. | 380 | 987 | 1143 | 605 |
| | D200.. | 420 | 1075 | 1231 | 693 |
| | D225.. | 470 | 1107 | 1263 | 725 |

