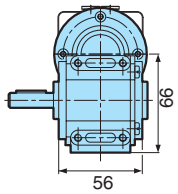
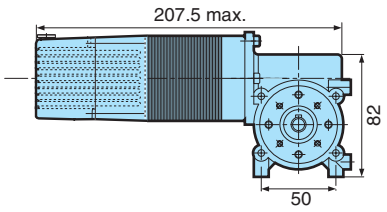
Guide to selecting motomate brushless with controler

Right angle gearbox

Gearbox	Max. torque (Nm)	1	1.7	2.9



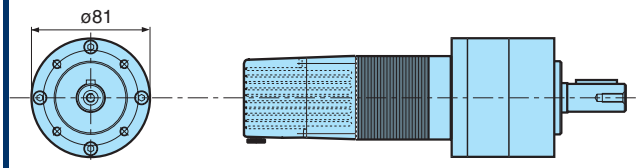


Motors direct drive (Nm)

Usable Power (W)	Nominal torque (Nm)	Nominal speed (rpm)	Supply voltage (V)	Motor type dimensions (mm)			
80	240	3250	24	▶p.88 80 080 57x57	▶p.88 80 081 650 rpm	▶p.88 80 081 325 rpm	▶p.88 80 081 163 rpm

Planetary gearbox

Gearbox	Max. torque (Nm)	1	4.5	20



Motors direct drive (Nm)

Usable Power (W)	Nominal torque (Nm)	Nominal speed (rpm)	Supply voltage (V)	Motor type dimensions (mm)			
30	240	3250	24	▶p.88 80 080 57x57	▶p.88 80 089 650 rpm	▶p.88 80 089 120 rpm	▶p.88 80 089 23 rpm

Choice of gearbox according to mechanical criteria

Right angle	Perpendicular output Silence (<53 dB) Non-reversible from R = 30
Planetary	Output in shaft Increased efficiency Reversible

Selection of a geared motor

A geared motor is selected according to the required usable power output.

$$\underset{(W)}{\text{UsablePower}} = \frac{2\pi}{60}\underset{(Nm)}{C} \cdot \underset{(rpm)}{n}$$

A geared motor must have usable power equal to or greater than the power required to rotate the load. It is selected by checking that the point corresponding to the required operating conditions (torque and speed output) is higher than the nominal torque versus speed curve of the geared motor. The required torque output of a geared motor must be within its maximum recommended torque for continuous duty.

3.4	3.5
▶p.88 80 081  65 rpm	▶p.88 80 081  108 rpm