Gearboxes for EVs

Hewland:

* GEVT-200:
  + typical range: 3:1-9:1
  + Optimal NVH (Noise, vibration, and harshness (NVH), also known as noise and vibration (N&V), is the study and modification of the noise and vibration characteristics of vehicles, particularly cars and trucks. While noise and vibration can be readily measured, harshness is a subjective quality, and is measured either via "jury" evaluations, or with analytical tools that can provide results reflecting human subjective impressions.)
  + Optimal efficiency
  + using precision ground helical gears

ARADEX AG:

* Up to 500,000 Nm at 1200 kW
* Planetary, helical, summing and transfer gearboxes.
  + Planetary: for high torques, mainly used in buses and trucks
  + Summing: for compiling the revolutions of two motors , for example: hybrid vehicles
  + Transfer: the input torque is divided into several output drives, different rotational speeds of the driven wheels can be compensated for, for driving more than one axis, for example: all-wheel drive vehicles, differential-controlled all-wheel drive
* Efficiency up to 98%
* High running stability, minimal operating nose
* <https://www.aradex.de/en/products/gearboxes-for-electric-vehicles//>

Kreisel Electric:

* automated 2-speed transmission
* up to 900Nm, 600 kW and 300km/h max speed
* 0.25 second gearshift
* Can be applied for multiple motor drive system as well as for singe motor drived system