CITATIER'S Old Road, Darley Dale, Matlock, Derbyshire, DE4 2ER Tel: 01629 734053; Fax: 01629 732235 PLASTIKARD VISA





Gearboxes and Motors for O Gauge

Slater's range of gearboxes all feature precision CNC machined brass sideplates with highefficiency crossed helical and spur gearing, mostly in steel. All manufacture is done in-house

NOTE: Although we describe different gearbox/motors within our range as being suitable for a particular Gauge or Scale, many of them can also be used, for example, in small locos in the next Scale up, or in large locos in the next Scale down.

For O Gauge there are three gear ratios: 14:1, intended for main line diesel locos, 30:1 intended for most steam locomotives, and 40:1 intended for shunting locomotives. We now use the Canon EN22 flat can motor, but some of the range will be available with the Mashima 1833 (with L suffix) or 1824 (with S suffix) Flat Can motors (which are no longer made), while stocks last.



(Left) GB13/GB14

14:1 gear ratio, designed to take our standard 3/16in driving axle. The GB13 will replace the GB14 once stocks are exhausted; the only difference is with two of the gears which are now manufactured in-house rather than bought in.

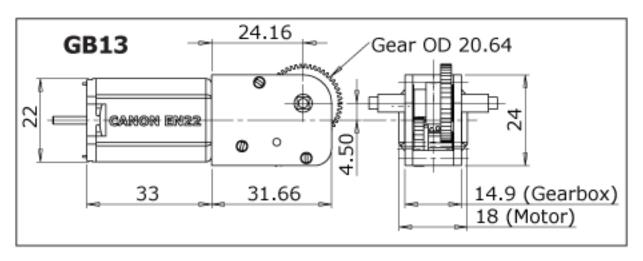


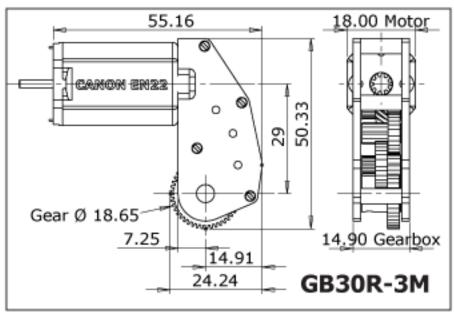


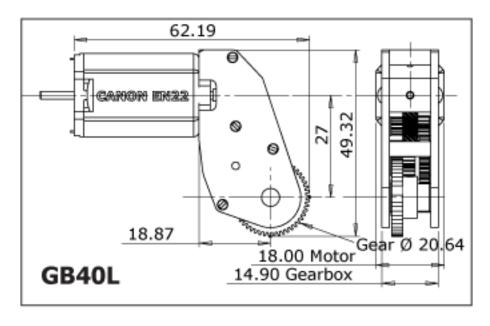


(Above) GB30R-3M 30:1 gear ratio, designed to take our standard 3/16in driving axle.

For scale drawings of these gearbox/motors, see overleaf







These drawings should be to scale if this PDF document has been printed without any scale reduction onto A4 size paper. Always check against the quoted dimensions

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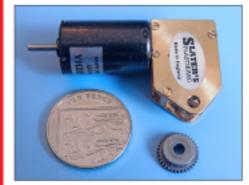


Small Gearboxes and Motors

Slater's range of gearboxes all feature precision CNC machined brass sideplates with highefficiency crossed helical and spur gearing, mostly in steel. All manufacture is done in-house

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For smaller locomotives there is the SG4 for models with a Vain axle. It has been designed as a direct replacement for the Portescap @ RG4. The SG38 is very similar, but for models with 3/16in axle. The SG29 has been designed for locomotives with the driving axle under the cab floor, and the motor sitting vertically in the firebox (typically on G.W.R. 4-4-0s). In addition we also have the FD01 and FD03, which are final drive, stand-alone, gearboxes for remotely connecting to a gearhead motor where a conventional gearbox/motor arrangement will not fit. Note that the last two require assembly.



(Left) SG4 Designed as a direct replacement for the Portescap ® RG4. For OO/ HO/EM/P4 and small O gauge locos. For 1/sin driving axle.

(Right) SG38 A similar configuration to the SG4, but for 3/16in driving axle. Intended for small O gauge locos.





(Left) **SG29** A compact 29:1 gearbox for use in, for example, G.W.R. 4-4-0s. For ¾16in driving axle.



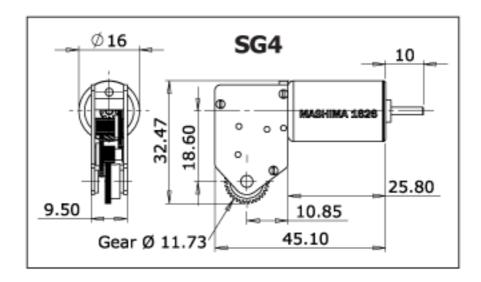
(Left) **FD01** 3:1 final drive gearbox, Shown un-assembled (as supplied). Fits 3/16in or 1/8in axle.

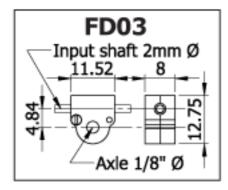
(Right) FD03 1.3:1 Small final drive gearbox. Shown unassembled (as supplied). Fits ⅓in axle.

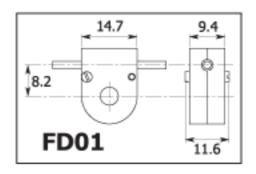


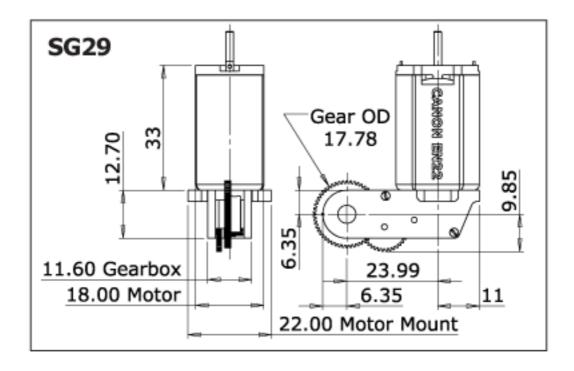
For scale drawings of these gearbox/motors, see overleaf

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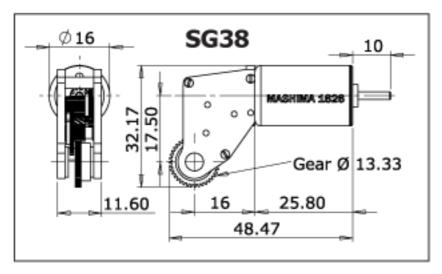


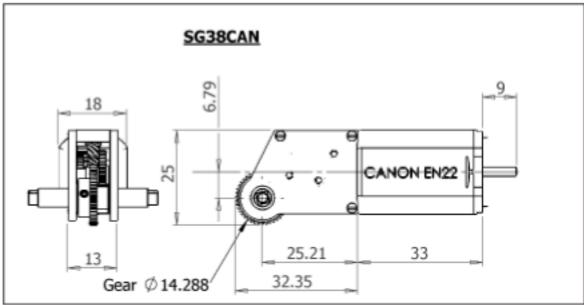


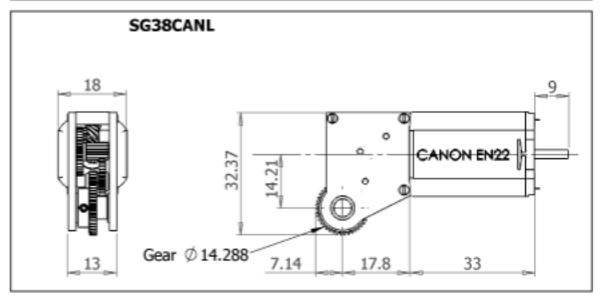


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Gearboxes and Motors for Gauge 1

Slater's range of gearboxes all feature precision CNC machined brass sideplates with highefficiency crossed helical and spur gearing, mostly in steel. All manufacture is done in-house

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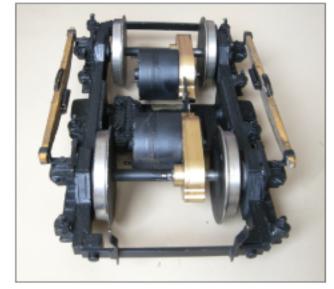
For Gauge 1, we have a Gearbox/Motor intended for use in diesel and electric motor bogies. In use it resembles the "axle-hung" style used for many years on full size locomotives, multiple units and tramcars. There are three different gear ratios - AGB17 (standard); AGB6 (fast) and AGB14 (medium). The motor is a very powerful and high quality Faulhaber coreless type. Each unit is supplied fitted with our 3/16in diameter Gauge 1 diesel and bogie axle, but no wheels,

We also have our "standard" O Gauge gearboxes fitted with a larger (and higher voltage) motor, and also designed to be used with our 1/4in axle.



(Left) AGB6 As supplied, fitted with our Gauge 1 3/16in driving axle. (AGB17 and AGB14 are identical externally).





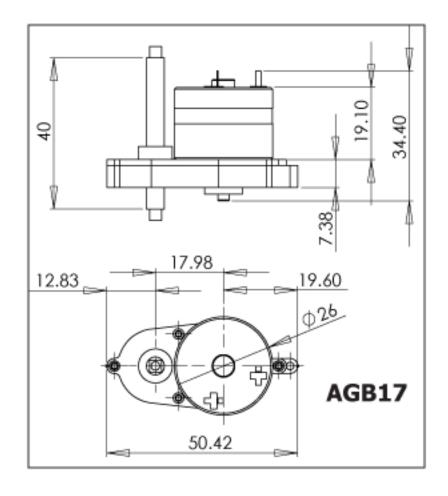
(Above)

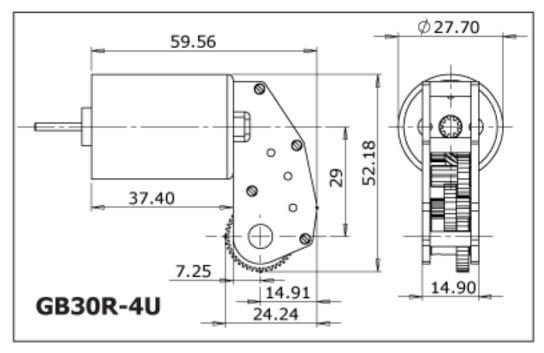
Two AGB units fitted into an electric multiple unit motor bogie (shown upside down).

Photo: courtesy Peter Rogers Models

(Left) GB30R-4U 30:1 gear ratio, fitted with the 18volt 2838 round can motor and designed to take our standard 1/4in driving axle.

For scale drawings of these gearbox/motors, see overleaf





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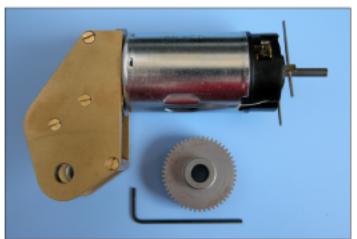


Gearboxes and Motors for Gauge 3

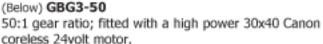
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For Gauge 3, we have two different ratios, 30:1 (high speed) and 50:1 (more sedate speed), and three or four different motors. See our Web Site or Price List for current availability of motor and gearbox combinations. These gearbox/motors have ample power for Gauge 3, but their relatively compact size means that they are also suitable for larger Gauge 1 or 16mm Scale locomotives.



(Left) GBG3P 30:1 gear ratio; fitted with a 28x55 Piko 18volt motor.

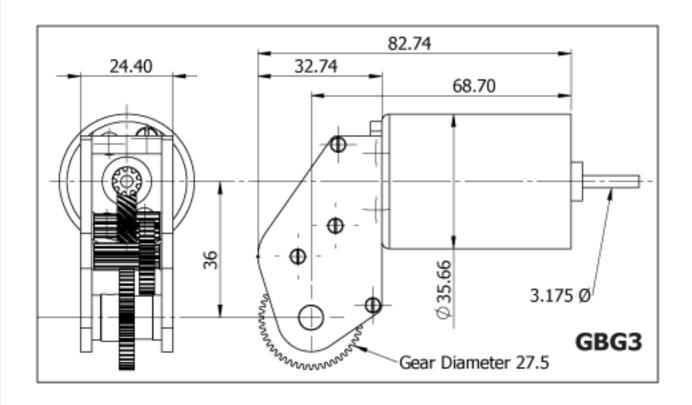


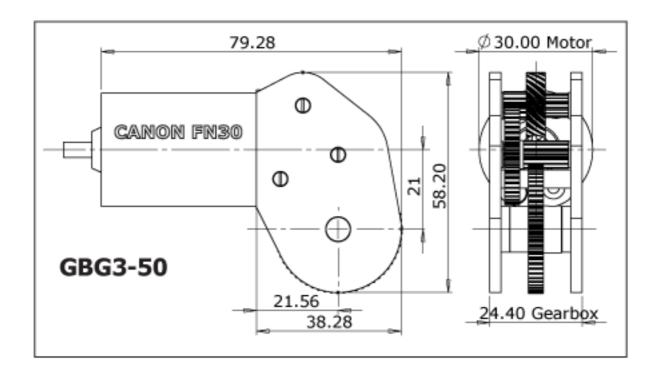




(Above) GBG3 30:1 gear ratio; fitted with a 36x50 Mabuchi 24volt motor.

For scale drawings of these gearbox/motors, see overleaf





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