12V DC MOTOR
Mabuchi# RS555FH-23300A
12 Vdc motor with 5-pole construction utilizes permanent magnet so that the motor produces high torque with high efficiency. Speed without load, 5560 rpm, Current draw, at 5000 RPM: 1.25A. Speed / Torque: 3950 Rpm / 380.3 g-cm. Stall torque: 1360 g-cm. Nominal voltage 12 Vdc. Operating voltage, 7-12 Vdc. 1.47” diameter x 2.36” long body. 0.50” long x 1/8” diameter flatted shaft. 3/16” solder lugs.
CAT# DCM-471 $4.50 ea. • 10 for $4.00 ea.

7.5 VDC MOTOR
Barber Colman EYQM. 7.5Vdc , 150mA; 3600 RPM (no-load). Runs smoothly in 7.5-15Vdc range. 30.5mm diameter x 54mm long, 3.5mm dia. shaft with a 6.5mm dia. pulley. The motor has two pairs of 6” leads. Red and blue operate the motor. The other pair is unknown.
CAT# DCM-420 $4.50 ea. • 10 for $4.00 ea.

12 VDC MOTOR
Buehler# EC775596 12 Vdc 200 mA, 5600 RPM. 34mm dia. x 55mm long. 3mm dia shaft with pulley.
CAT# DCM-455 $4.25 ea. • 2 for $4.00 ea.

6 - 24 VDC HIGH-SPEED MOTOR
Buehler# 13.65.36. High-speed permanent magnet motor 6-24 VDC with tach output. 7,000 RPM @ 12Vdc, 100mA (no-load). 34mm dia. x 55mm long. 3mm dia shaft with pulley. Four 90mm leads w/ 4-pin female connector (0.1”).
CAT# DCM-408 $4.25 ea. • 2 for $4.00 ea.

22 VDC MOTOR
Barber-Colman # 1-1928A FYQM. 31.5mm dia. x 50mm long. 3mm dia. x 12mm long shaft. Good quality motor, operates smoothly on 18-24 Vdc. 24 Vdc, 0.20A no load. Two tapped mounting holes on motor face. 18” leads.
CAT# DCM-456 $3.00 ea. • 10 for $2.50 ea.

24 VDC MOTOR
Operates on 18-30 Vdc. 24 Vdc, 0.2A no-load rating. 36mm dia. x 57mm long. 3mm dia. x 20mm long shaft. Solder/qc terminals and shaft on the same end.
CAT# DCM-461 $1.75 ea. 10 for $1.00 each

GEAR MOTOR W/ 9" WORM GEAR
Ametek® Pittman® # GM9234E992-R1. 5:9.1 ratio gear motor with 9" worm gear. Rated 24Vdc, the motor works well down to 6Vdc. Motor dimensions: 2.0” diameter (gear box) x 3.7” long. 9” long threaded shaft, with 8” of usable travel. 0.37” diameter. No-load ratings: 530 RPM @ 12Vdc, 130mA, 17” red/black leads.
CAT# DCM-483 $18.00 each

DC GEAR MOTORS

6 VDC, 25 RPM GEAR MOTOR
New gear head motor prepped with an arm that rotates an offset axle in a 1” circle. Can be used to facilitate reciprocating action. Motor is 1.45”D x 3.00”. No-load specs: 25RPM @ 6Vdc, 150mA. Prepped w/ wire leads and drive arm. Includes a custom mounting bracket and slotted metal link rod.
CAT# DCM-470 $5.75 each

9-24 VDC GEAR MOTOR, USED
Fairly powerful gearhead DC motor. 2.86” x 1.90” x 1.25” gear box with 5/16” diameter flatted shaft, 1.50” long. Motor is a Mabuchi RS555PC-3255. 1.46” dia.x 2.50” long. The gearhead reduces the speed to 80 RPM @ 12Vdc, 160mA (no-load rating). Used, good condition.
CAT# DCM-490 $7.95 each

6 VDC GEAR MOTOR
Power Electric Distribution 21267-000 Rev.B. 6 Vdc gear motor. No-load rating: 80 RPM @ 6 Vdc, 110mA. Works well down to 1.5Vdc (12RPM). 61mm L x 20mm D. 4mm diameter x 11mm flatted shaft. 280mm leads with 2-pin female connector.
CAT# DCM-365 $8.95 ea. • 5 for $4.75 ea.

RT-ANGLE DRIVE GEAR MOTORS
Powerful right-angle, worm-gear drive motor. The final drive mechanism rotates inside of the housing on the front of the motor and requires a 4mm square shaft. Motor body is 2.5” x 2.1” x 5.5” long. The gearhead reduces the speed to 80 RPM @ 12Vdc, 160mA (no-load rating). Used, good condition.
CAT# DCM-444 $16.00 each

12 VDC GEAR MOTOR
No-load measurements: 520 RPM @ 12Vdc, 250mA. Works as low as 3Vdc (approx. 100RPM). Overall length, 57mm. Gearbox, 27mm diameter x 23mm long. Motor, 24mm diameter x 30mm long. Flatted shaft, 6mm diameter x 20mm long. 48mm leads terminated with 2-conductor female connector, 2mm spacing (fits our connector CAT# SBH-1).
CAT# DCM-475 $9.50 ea. • 25 for $3.75 each • 100 for $3.50 each

ORDER TOLL FREE 1-800-826-5432
79
85 RPM 12V DC GEAR MOTOR
33, JPF-15380-50. Quality 12Vdc gear-motor runs 85rpm @ 42mA (no-load), but has input voltage range from 2 - 20 Vdc. At 12 Vdc draws about 160mA typical under load. Overall length excluding shaft - 50mm. Overall diameter - 33mm. Flatted shaft length 6.5mm, shaft diameter 4.0mm. Solder lugs. Ideal for robotics, modelers, hobby projects.
CAT# DCM-416 $6.75 each
$6.50 each • 100 for $4.50 each

24 VDC GEAR MOTOR W/ TURNTABLE
Relatively powerful, low-current DC motor and gearbox with a 4.9" dia. plastic (nylon?) turntable with a rubber o-ring circumference that could be used to drive another wheel. Turntable can be removed from motor and rubber ring on turntable can be removed as well. Motor gearbox has a 3/8" dia. shaft that is flatted and splined.
Specifications:
45RPM @ 24 Vdc, 60mA - operates at 12Vdc at 1/2 speed.
Mabuchi motor RS-380SH. 1.1" dia. x 1.67".
Motor gearbox# CHM-2435-1. 2.75" x 3.00" x 0.57"
CAT# DCM-351 $9.75 each

12VDC AUTO WINDOW LIFT MOTOR
Chrysler window-lift motor. 12Vdc, 3.5A, 88RPM (no load). Relatively powerful, right-angle worm-gear drive. 18mm diameter gear on 47mm turntable rotates around 8mm shaft. Center shaft is stationary. Overall dimensions, including mounting holes, 7.50" x 5" x 1.87". Power terminals are inside a recessed connector housing, but are not difficult to access. Right-hand configuration.
CAT# DCM-572 $14.95 each

GEARMOTOR & WHEEL ASSEMBLY
4.5 - 10 Vdc gear motor with a 2.75" diameter x 1" wide hard plastic wheel and rubber tire. Wheel can be attached to either side of motor. Motor with gearbox is 2.5" long x 0.75" x 0.9" not including axle or wheel. Low current consumption, 120 RPM @ 6 Vdc, 100mA (no-load rating).
CAT# AC-32 $5.50 each

12 VDC RIGHT-ANGLE GEAR HEAD MOTOR WITH WORM DRIVE
No-load rating: 180 RPM @ 12Vdc / 1.3A. Overall length, 144mm (5.66”). Motor diameter, 49mm (1.91”). 12mm dia. worm shaft is 89mm (3.55") long. The last 12mm of the shaft has a 6 x 1.0 reverse metric thread. Heavy gauge U-bracket on back of gearhead, 1/4” holes with 7mm spacing. 3/16” quick-connect terminals. Designed for power seat adjustment in autos. Right-hand configuration.
CAT# DCM-697 $17.95 each

PRECISION DC GEAR MOTOR, USED
FAULHABER #1624 motor, 16/5 (22:1) gearhead. Swiss-made precision gear motor. Small, powerful-for-its-size, very-low current. No-load Ratings: 320 RPM @ 12Vdc/2.5mA. 545 RPM @ 20Vdc / 3.9mA. 1.7mm dia. x 40mm long overall. 2mm diameter x 10mm shaft with attached 11.7mm dia. pulley for round, 2mm belt. Motor face has 4 tapped mounting holes. 2 wire leads, 45mm. Used, removed from equipment in good condition.
CAT# DCM-705 $7.00 ea. • 10 for $6.50 ea.

BUHLER DC GEAR MOTOR
Compact, relatively powerful DC gear motor. 44 RPM @ 6Vdc/70mA (no-load rating). 40.0 x 28.5 x 48.5mm long (1.57" x 1.12" x 1.90"), excluding shaft. 3mm (1/8") diameter flatted shaft x 10mm long. 8" pigtail leads.
CAT# DCM-401 $4.95 each • 10 for $4.50 each

STEEPER MOTORS

STEPPER / SPINDLE MOTOR
Seagate 73192-193MCCMAS. 45mm diameter x 20mm high stepper motor. 5mm diameter 10mm long shaft with aluminum bearing. 54mm mounting centers. Six 3" wire leads terminate to 6-pin socket.
CAT# SMT-379 $4.75 each • 10 for $1.00 each

STEPPER MOTOR DRIVER
Dual H-Bridge driver using L298N chip. 5V logic. Operates on 5-35Vdc. 25W max power.
CAT# SMD-298 $5.95 each

STEPPER MOTOR AND DRIVER BOARD
Includes our driver board, CAT# ME-16 (see below) and a 5-wire stepper motor that plugs directly into the board. Ideal for beginning robotics projects. Motor is a 4-phase, unipolar stepper, #28BYJ-48.
CAT# ME-125 $5.35 set

STEPPER MOTOR DRIVER BOARD
Four LEDs indicate the status of the stepper. Jumper for 5V / 12V use. 5-contact header mates with connector on some standard stepper motors.
32 x 34 x 11mm.
CAT# ME-16 $2.50 each

NEW

REDUCED

NEW
1.5 RPM GEAR MOTOR, 120 VAC
Hexin P/N 14011305. 1.5 RPM timing-type motor. Clock-wise rotation. Operates on 120Vac, 60Hz, 3W. 0.25” (6.5mm) flattened shaft is 0.75” long. Oval, 63 x 49 x 23mm deep. Two mounting holes on 48mm (1.875”) centers. 32” pigtail leads. cULus.
CAT# ACM-135 $4.25 each

GEARBOX 2 IN 1, MOTOR GEAR & ACCESSORIES
Velleman Kits # KNS7. Fun with gears & motors. Small 3 Vdc motor, metal bracket and axles, and an assortment of small plastic gears & collars to produce a gear train of various ratios.
CAT# GR-84 $11.95 each

12 VDC MOTOR-DRIVE ACTUATOR FOR AUTO DOOR LOCKS
Nylon plunger moves 0.75”. Push or pull, depending on polarity. Includes mounting hardware and a 10” metal extension rod which fits through the hole in the end of the plunger. Overall dimensions of actuator assembly (retracted): 8.42” x 2.35” x 1.15”. Rubber boot protects against moisture and dust. Pigtail leads.
CAT# DLA-1 $5.50 each

30 DETENT ROTARY ENCODER WITH SWITCH
Alps mechanical rotary encoder with momentary-on push switch. 30 detents. 6mm dia. aluminum shaft. 12mm square body. 7mm dia. x 10mm high plain bushing. PC pins. 2 terminals for switch. 3 terminals for encoder.
CAT# RE-30 $1.35 ea. • 50 for $1.15 ea.

MATING GEARS
SET OF 5 GEARS AND BUSHINGS
Five matched break-resistant plastic gears ranging from 0.44” diameter (10 teeth) to 2.02” (50 teeth). Gears are molded with 0.15” (4mm) bores and come with inserts which reduce the bore to 0.075” (2mm) diameter. Set includes five gears and five inserts.
CAT# GR-5 $3.50 each • 10 for $3.00 each

4 GEAR SET
Four matched unbreakable plastic gears. The three larger gears are beveled on one side and can mesh at 90° as well as the normal 180° angle. They have 5mm bores. Inserts are supplied to reduce the bore size to 3mm. The smallest gear has a 2mm bore. Gears are 41, 31, 21 and 13mm.
CAT# GR-66 $2.25 each

GEARS & ROTATING PARTS
PLASTIC RACE CAR WHEEL SET
A set of two front and two rear plastic wheels. Rear wheels, 40mm x 17mm. Front wheels 34mm x 4.5mm. 3mm dia. bore.
CAT# DWH-1 $3.75 set

PULLEYS, SET OF THREE
Set of three red plastic pulleys, 50mm, 38mm, 25mm with 4mm hole. 3mm diameter bore.
CAT# PLY-3 $2.00 set

3MM DIAMETER AXLES
Steel axle. 12” long.
CAT# AXL-12 $1.00 each
Set of two metal axles, 2.5” long.
CAT# AXL-25 50¢ per pair

SOLAR BATTERY CHARGERS
Water-proof, corrosion-proof solar cell arrays with adjustable mounting stands and alligator clip leads. UV-proof polycarbonate plastic case. Built-in blocking diode to prevent discharge at night.

12 VOLT 1260 Mw max power.
Max voltage, 18 Volts (no-load). Current, 60-70 mA.
6.8” x 6.2” x 0.68”
CAT# SPL-6012 $27.95 each

DC VOLTAGE CONTROLLER FOR SOLAR PANELS
10 Amp 12 Vdc output. 4.04” x 3.75” x 1.50”.
Prevents battery from being over-charged and over-discharged. Coordinates the functioning of solar panel, battery and load.
CAT# SCN-3 $29.95 each

SOLAR PANELS
Rugged photovoltaic solar panels. Sealed to withstand rain and snow. Heavy-duty anodized aluminum frame.
High-transparency, low-iron tempered glass.
Junction box with screw or solder terminals. CE.

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SOLAR CELLS
Epox encapsulated module. Ideal for solar-powered battery chargers and other projects.

1V 200mA solar cell
1.81” x 1.57” x 0.07”.
CAT# SOL-3N $3.00 each

2V 200mA solar cell
2.83” x 1.81” x 0.07”.
CAT# SOL-4N $4.00 each