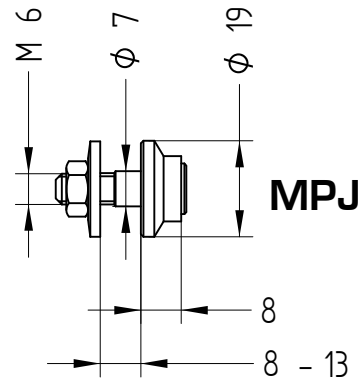
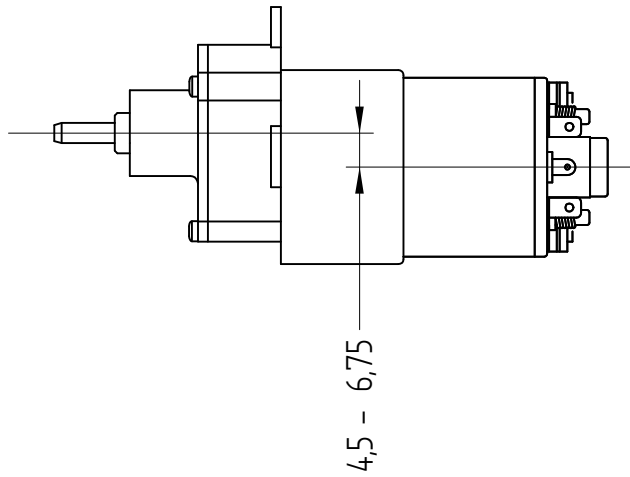
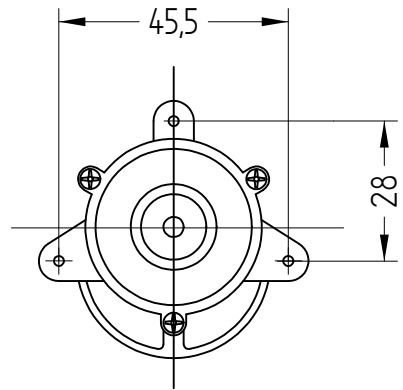
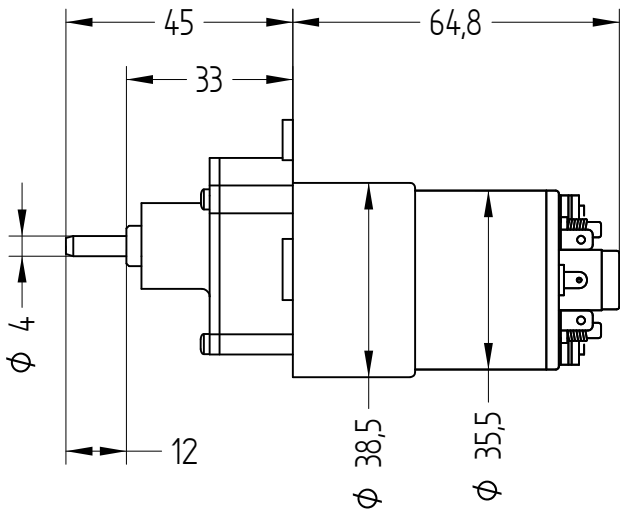
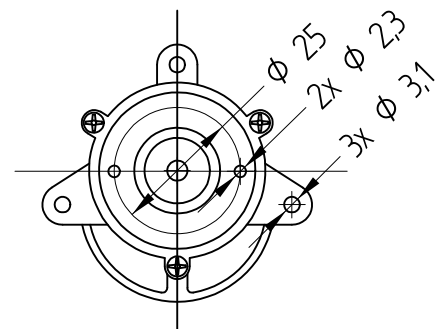
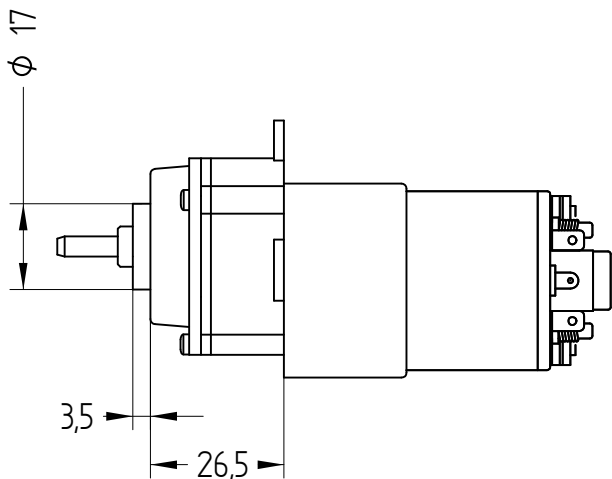
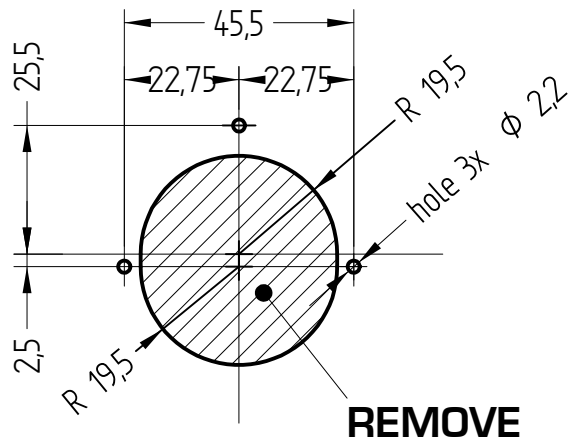
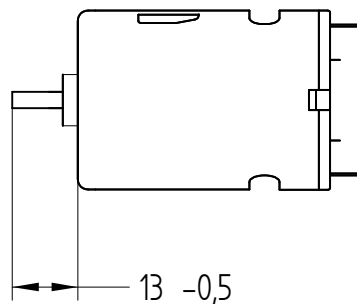


# GEARBOX 500 - 650 BB



**MPJ 4703**



## GEARBOXES FOR ELECTROMOTORS 500-650 SIZE

Gearboxes are recommended to be used with electromotors size 540/550 (Mabuchi, Igarashi, Johnson, Fully etc.). For standard power models, gear ratios 1,75:1 or 2,33:1 are suitable, for motor gliders 2,33:1 or 2,8:1. The shaft of gearbox is supported in two ball bearings. For folding propeller use one of propeller spinners with collet 4 mm dia, for non-folding propeller use collet prop adapter MPJ 4703.

MPJ	8120	Gearbox "500-650" BB 2,8:1, pinion wheel 3,2 mm dia
MPJ	8121	Gearbox "500-650" BB 2,33:1, pinion wheel 3,2 mm dia
MPJ	8122	Gearbox "500-650" BB 1,75:1, pinion wheel 3,2 mm dia
MPJ	8123	Pinion wheel 15 tooth, 3,2 mm dia, for 2,8:1
MPJ	8124	Pinion wheel 18 tooth, 3,2 mm dia, for 2,33:1
MPJ	8125	Pinion wheel 24 tooth, 3,2 mm dia, for 1,75:1
MPJ	8126	Front adapter for 500-650 size
MPJ	8127	Locking tie set for 500-650 size
MPJ	4703	Collet prop adapter 19 mm dia, for 4 mm shaft, M6/29
MPJ	4683	Collet 4 mm dia, M6/29 for prop adapters 19 mm dia

### MOUNTING TO MODEL

The gearboxes are possible to mount in this three methods:

1. Standard mounting on the firewall with three radial lugs.
2. Like standard electromotor - dismount three PAN HEAD screws 2,2x9,5, put the front adapter MPJ 8126, use the PAN HEAD screws 2,2x13. The complete gearbox with front adapter is mounted like standard electromotor on the firewall in side fuselage.
3. The gearbox is put in place for electromotor from above with locking ties MPJ 8127.

In the front of the fuselage make please the holes for air ventilation for cooling of electromotor.

### ASSEMBLING OF PINION WHEEL

The shaft of the motor has to be shortened on 13 -0,2 mm (see drawing on the second side). Use suitable glue (such as Loctite 638 or Weicon LOCK AN 306-38) to glue the pinion wheel on the electromotor shaft.

### MAINTENANCE

Lubricate the ball bearings with light machine oil, Shell Alvania or Kluber Isoflex LDS 18 grease is recommended for gears. Please do not use the silicone type grease (or with PTFE), as the life of the brass pinion wheel will be very short. Keep the gearboxes clean from the dust.

## OTHER TYPES OF MP JET GEARBOXES

FOR ELECTROMOTORS "280" SIZE		
MPJ	8000	Gearbox SF280 5:1, pinion wheel 2 mm dia
MPJ	8001	Gearbox SF280 4,5:1, pinion wheel 2 mm dia
MPJ	8002	Gearbox SF280 4,1:1, pinion wheel 2 mm dia
MPJ	8003	Gearbox SF280 3,75:1, pinion wheel 2 mm dia
MPJ	8004	Gearbox SF280 3,5:1, pinion wheel 2 mm dia
MPJ	8005	Gearbox SF280 BB 5:1, pinion wheel 2 mm dia
MPJ	8006	Gearbox SF280 BB 4,5:1, pinion wheel 2 mm dia
MPJ	8007	Gearbox SF280 BB 4,1:1, pinion wheel 2 mm dia
MPJ	8008	Gearbox SF280 BB 3,75:1, pinion wheel 2 mm dia
MPJ	8009	Gearbox SF280 BB 3,5:1, pinion wheel 2 mm dia
MPJ	8020	Pinion wheel 9 tooth, 2 mm dia, for 5:1
MPJ	8021	Pinion wheel 10 tooth, 2 mm dia, for 4,5:1
MPJ	8022	Pinion wheel 11 tooth, 2 mm dia, for 4,1:1
MPJ	8023	Pinion wheel 12 tooth, 2 mm dia, for 3,75:1
MPJ	8024	Pinion wheel 13 tooth, 2 mm dia, for 3,5:1
MPJ	8035	Front adapter for 280, 300 size
MPJ	8036	Locking tie set for 280 size
FOR ELECTROMOTORS "300" SIZE		
MPJ	8041	Gearbox "300" 5:1, pinion wheel 2 mm dia
MPJ	8042	Gearbox "300" 4,5:1, pinion wheel 2 mm dia
MPJ	8043	Gearbox "300" BB 5:1, pinion wheel 2 mm dia
MPJ	8044	Gearbox "300" BB 4,5:1, pinion wheel 2 mm dia
MPJ	8020	Pinion wheel 9 tooth, 2 mm dia, for 5:1
MPJ	8021	Pinion wheel 10 tooth, 2 mm dia, for 4,5:1
FOR ELECTROMOTORS "400" SIZE		
MPJ	8011	Gearbox "400" STD 4,1:1, pinion wheel 2,3 mm dia
MPJ	8012	Gearbox "400" STD 3,5:1, pinion wheel 2,3 mm dia
MPJ	8013	Gearbox "400" STD 3:1, pinion wheel 2,3 mm dia
MPJ	8014	Gearbox "400" STD 2,33:1, pinion wheel 2,3 mm dia
MPJ	8016	Gearbox "400" BB 4,1:1, pinion wheel 2,3 mm dia

MPJ	8017	Gearbox "400" BB 3,5:1, pinion wheel 2,3 mm dia
MPJ	8018	Gearbox "400" BB 3:1, pinion wheel 2,3 mm dia
MPJ	8019	Gearbox "400" BB 2,33:1, pinion wheel 2,3 mm dia
MPJ	8026	Pinion wheel 11 tooth, 2,3 mm dia, for 4,1:1
MPJ	8027	Pinion wheel 13 tooth, 2,3 mm dia, for 3,5:1
MPJ	8028	Pinion wheel 15 tooth, 2,3 mm dia, for 3:1
MPJ	8029	Pinion wheel 18 tooth, 2,3 mm dia, for 2,33:1
MPJ	8037	Front adapter for 400, 480 size
MPJ	8038	Locking tie set for 400 size
FOR ELECTROMOTORS "480" SIZE		
MPJ	8100	Gearbox "480" STD 4,1:1, pinion wheel 3,2 mm dia
MPJ	8101	Gearbox "480" STD 3,5:1, pinion wheel 3,2 mm dia
MPJ	8102	Gearbox "480" STD 3:1, pinion wheel 3,2 mm dia
MPJ	8103	Gearbox "480" STD 2,33:1, pinion wheel 3,2 mm dia
MPJ	8104	Gearbox "480" BB 4,1:1, pinion wheel 3,2 mm dia
MPJ	8105	Gearbox "480" BB 3,5:1, pinion wheel 3,2 mm dia
MPJ	8106	Gearbox "480" BB 3:1, pinion wheel 3,2 mm dia
MPJ	8107	Gearbox "480" BB 2,33:1, pinion wheel 3,2 mm dia
MPJ	8108	Pinion wheel 11 tooth, 3,2 mm dia, for 4,1:1
MPJ	8109	Pinion wheel 13 tooth, 3,2 mm dia, for 3,5:1
MPJ	8110	Pinion wheel 15 tooth, 3,2 mm dia, for 3:1
MPJ	8111	Pinion wheel 18 tooth, 3,2 mm dia, for 2,33:1
MPJ	8037	Front adapter for 400, 480 size
ACCESSORIES FOR GEARBOXES		
MPJ	8030	Collet prop adapter 14,5 mm dia, for 3 mm shaft, M5/22
MPJ	8031	Collet prop adapter 14,5 mm dia, for 3 mm shaft, M5/27
MPJ	8032	Propeller nut small M5
MPJ	8033	Collet 3 mm dia, M5/22 for prop adapters 14,5 mm dia
MPJ	8034	Collet 3 mm dia, M5/27 for prop adapters 14,5 mm dia
MPJ	4703	Collet prop adapter 19 mm dia, for 4 mm shaft, M6/29
MPJ	4683	Collet 4 mm dia, M6/29 for prop adapters 19 mm dia