

QUARTER TURN WORM GEAR BOXES FOR ELECTRICAL OPERATION (QTE- SERIES)

The 'QTE' series Quarter Turn Worm Gear Boxes are High Performance Gear Boxes operated electrically by Electric Actuators.

PRODUCT DESCRIPTION:

- ◆ High Performance Gear Boxes by Robust Construction & Compact Design.
- ◆ Meeting QUALITY, EFFICIENCY and DELIVERY.
- ◆ 17 models with Torque range from 300 Nm to 85000 Nm.
- ◆ Output Travel - 0° to 90° ($\pm 5^\circ$)
- ◆ Self-locking Mechanism (Worm & Worm Wheel)
- ◆ Standard Version LR : Clockwise Input = Clockwise Output to Close
- ◆ IP-67 Enclosure
- ◆ Working Temperature -20°C to +120°C
- ◆ Graded Cast Iron Housing and Worm Wheel in Ductile Iron
- ◆ High Tensile Fasteners
- ◆ High Performance Bearings
- ◆ Semi-Glossy Black Epoxy Paint as Standard
- ◆ Gear Boxes lubricated with Multi-purpose Grease
- ◆ Gear Box Mounting as per ISO 5211 Std.
- ◆ Types of Stem Cavity Processed: Round with keyway, Square, Double Dee Orientation.

FEATURES:

- ◆ Housing, Cover and Worm Wheel material also available in Ductile Iron/Carbon Steel/Stainless Steel/Nickel Aluminium Bronze material or as required as optional.
- ◆ Worm and Shaft are also available in Stainless Steel, Aluminium Bronze (AB1/AB2) material as optional.
- ◆ Fasteners also available in Stainless Steel as optional.
- ◆ Grease Nipple, available as optional.
- ◆ IP-68 Enclosure available against requirement.
- ◆ Multi-Turn (360°) operational gear boxes also available.

TESTING FACILITIES:

- ◆ Test Rig to measure the Performance Factor (P.F)
- ◆ Endurance test Setup

PERFECT ACTUATORS & CONTROLS PVT. LTD.

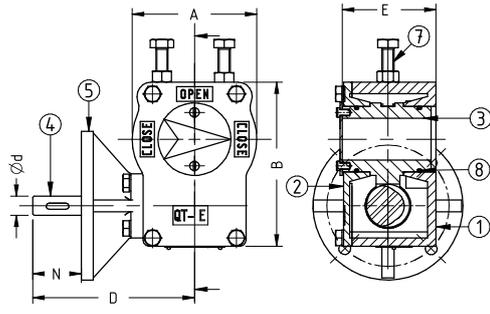
(An ISO 9001 : 2015 & ISO 45001 : 2018 Certified Company)

B-137/493, INDUSTRIAL ESTATE, GOKUL ROAD. HUBLI - 580 030. INDIA

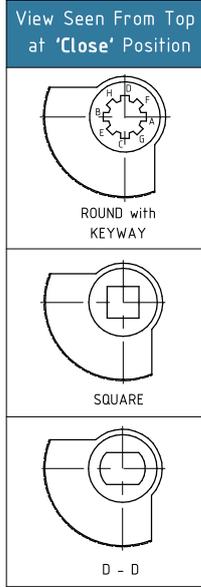
PHONE : 0836 - 2335971, 2210619. FAX : (0836) 2331698

E-Mail : sales@pacplindia.com, info@pacplindia.com. Website : www.pacplindia.com

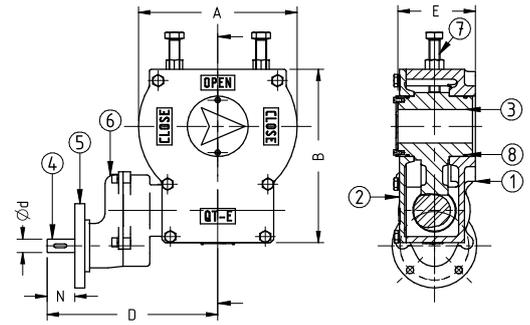
a) Standard Gear Box



Sl. No.	Description	Material *
1	Housing	CI FG-220
2	Cover	CI FG-220
3	Worm wheel	SGI 500/7
4	Input Shaft	EN-8D
5	Electrical Flange	CI FG-220
6	Spur Gear Unit	CI FG-220
7	Fasteners	8.8 Gr.
8	O-Ring	Nitrile
9	Grease	Multipurpose



b) Gear Box with Secondary Gear attachment



⇒ VERSION (LR): Clockwise to 'CLOSE'
Anticlockwise to 'OPEN'
⇒ IP Enclosure : IP-67

Note - a) *Material optional as required
b) Performance Factor achieved after few cycles.
c) All dimensions are in mm & indicative
d) Input Shaft and Drive Bore keyway as per IS:2048

MODEL	RATIO	TURNS TO CLOSE 90 °	PERFORMANCE FACTOR ±10%	OUTPUT TORQUE (Nm)		DIAMETER OF DRIVE BORE (mm)		GEAR BOX BASE AS PER ISO:5211		ELECTRIC ACTUATOR MOUNTING BASE AS PER ISO:5211	Approx. Weight (Kg)	A	B	D	Ød	E	N
				Max.	Max.	Min.	Max.										
QT-35E	32 : 1	8	8	300	30	F07	F10	F10	7	96	127.5	139	16	74	42		
QT-50E	40 : 1	10	10	420	36				8	104	138			78			
QT-70E	50 : 1	12.5	12	600	45.5	9	125		157	82							
QT-100E	40 : 1	10	10	850		F10	F12		12	127	166	170	20	95			
QT-150E	56 : 1	14	14	1250	57	F10.	F14		17	170	200	178	24	94			
QT-225E	52 : 1	13	12	2000					22	212	227	192		108			
QT-280E	58 : 1	14.5	14	2350	68	F12	F16	F10-F14	24	230	240	30	109	45			
QT-330E	60 : 1	15	16	4000					30	202	114.5						
QT-330SGE	150:1	37.5	30	4000					35	252	40						
QT-650SGE	264:1	66	60	6000	80	F16	F16.		F10	47	280	280	20	114	40		
										F25	F25.	50		320		268	124
QT-850SGPE	212:1	53	45	7500	90	F16	F25			F10-F14	65	330	336	330	124.5	35	
	318:1	79.5	70														
	477:1	119.25	94														
QT-1100SGPE	224:1	56	50	9500	100	F25	F30	F10-F14			83	345	359(F25) 400(F30)	328	132(F25) 153(F30)		
	336:1	84	75														
	504:1	126	105														
QT-1500SGDE	224:1	56	48	13000	115	F25	F35		F10-F14	97	352	420	342	24	161	32	
	336:1	84	70														
	504:1	126	100														
QT-2400SGA1E	232:1	58	49	20000	150	F25	F35	F10-F14		138	430	518	375	170	42		
	348:1	87	70														
	522:1	130.5	105														
QT-3500SGB2E	264:1	66	52	29185	170	F30	F48		F10-F14	211	484	551	390	185.5	38		
	528:1	132	103														
	1056:1	264	206														
QT-5000SGCE	240:1	60	50	41695	160	F30.	F40	F10-F14		400	550	732	609	212	42		
	480:1	120	100														
	960:1	240	200														
	1500:1	375	310														
QT-7500SGCE	212:1	53	45	62540	170	F40	F48		F10-F14	450	600	803	638	220			
	424:1	106	90														
	848:1	212	180														
	1325:1	331.25	280														
QT-10KSGCE	1450:1	362.5	390	85000	200			F14-F16		630	690	830	775	40	270	60	

Important Note:

- 1) We have endeavoured in this publication to make the content as accurate as possible, being given as general information. It is not taken as binding unless specifically confirmed in writing.
- 2) Due to PAC's continual commitment to engineering, Product specifications and data presented in this publication are subject to change without prior notice.
- 3) All Dimensions are in "mm".