

Technical drawing of the IW11 IR3-2 Quarter Turn Gearbox, showing dimensions, specifications, and assembly details.

Table 1: Input Flange Details

INPUT FLANGE	FLANGE O/DIA.	SHAFT DIA.	RECESS DIA.	RECESS DEPTH	HOLE DETAILS (OFF CENTRES)	KEY DETAILS
ISO F10	Ø125 x 15 (Ø4.92" x 0.59")	Ø20.00-0.05 (Ø0.787"-0.002")	Ø70.05+0.15 (Ø2.758"+0.006")	4 (0.16")	4 x Ø10.5 ON Ø102.0 P.C. (4 x Ø0.41" ON Ø4.02" P.C.)	6x6x40 (0.24"x0.24"x1.57")
FA10			Ø58.70+0.15 (Ø2.311"+0.006")			

Table 2: Mounting Holes - Bolt Circle (Off Centres)

ISO 5211 / MSS SP-101 MOUNTING OPTION	HOLE DETAILS (OFF CENTRES)	MAX OUTSIDE DIA. INCLUDING DRILLED HOLES	MIN INSIDE DIA. INCLUDING DRILLED HOLES
ISO F40*	8 x M36 x 36 (1.42") DEEP ON Ø406.0 (Ø15.98") P.C.	Ø544 (21.42")	Ø361 (14.2")
FA40*	8 x 1.25" UNC x 36 (1.42") DEEP ON Ø406.4 (Ø16.00") P.C.		

Table 3: Stem Acceptance in Accordance to Standard

SQ BORE MAX	STANDARD	MIN BORE	SQ KEY MAX BORE	SQ KEY SIZE	RECT. KEY MAX BORE	RECT KEY SIZE
□ 189.5 (7.46")	BS4235	-	-	-	270.0	63 x 32
	BS46	-	-	-	10"	2 1/2" x 1 7/8"
	ANSI B17.1	-	9.4"	2 1/2" SQ.	10.125"	2 1/2" x 1 3/4"
	DIN 6885	-	-	-	270.0	63 x 32

Dimensions and Notes:

- Overall dimensions: 1106 [43.55"] (total width), 709 [27.90"] (flange width), 541 [21.29"] (keyway width), 340 [13.40"] (flange offset), 795 [31.30"] (flange diameter).
- Keyway position can be moved through 45° steps by removing 8 screws indicated and rotating output sleeve.
- Mounting holes can be positioned on centres by removing 16 bolts indicated and repositioning.
- SEE TABLE FOR FLANGE OPTIONS, SEE KEY DETAILS, SEE TABLE FOR MOUNTING DETAILS, SEE TABLE FOR BORE & KEY DETAILS.
- MAX STEM ENTRY: 200 [7.86"].
- Centre of Gravity (C OF G) dimensions: 120 [4.71"] (Z), 59 [2.32"] (CRS).
- PLAN VIEW OF GEARBOX IN CLOSED POSITION SHOWING STANDARD KEYWAY POSITIONS. ALTERNATIVES AVAILABLE ON REQUEST.

Table 4: Gearbox Specifications

RATIO	TURNS TO CLOSE	M.A. (±10%)	WEIGHT (KG)	MAX OUTPUT (Nm)	MAX INPUT (Nm)	X	Y	Z
3650	913	1174	499	108464	92	71	115	103
3066	767	987			110			
2628	657	846			128			
1792	448	577			188			
1314	329	423			257			
1222	306	393			276			

Notes:

- OTHER INPUT AND OUTPUT OPTIONS AVAILABLE - SEE 'IW GEARBOX BROCHURE' AT WWW.ROTORK.COM FOR FURTHER DETAILS.
- CENTRE OF GRAVITY POSITION IS INDICATIVE FOR STANDARD BUILD WHEN IN POSITION SHOWN.
- * THREAD DEPTH DOES NOT MATCH ISO STANDARD.
- WEIGHT AND C OF G DIMENSIONS WILL VARY +/-1% DEPENDING ON RATIO.

AS PART OF CONTINUOUS PRODUCT DEVELOPMENT, ALL DETAILS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. FOR UP TO DATE DETAILS PLEASE VISIT www.rotork.com

rotork® Gears

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Dimensions in mm
Scale: 1:10

Title: IW11 IR3-2 QUARTER TURN GEARBOX

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Rev: 0-0

Nominal Mass: SEE TABLE
Size: A3
Sheet: 1 of 1