

## Dodge® Torque-Arm family: shaft dimensional requirements

All Torque-Arm Family reducers that are shaft mounted must have a shaft that is designed and machined properly so that the gearbox will fit and be concentric to the shaft. This includes the diameter, keyway width, keyway depth, and the length of the diameter and keyway. Improper design or machining of these features will cause the reducer not to go on the shaft when mounting, have excessive movement of the reducer when running, or will make it hard to remove the inboard bushing of tapered bore reducers.

Shaft requirements are listed in Torque-Arm catalogs and manuals, but this white paper will put tolerances and dimensions to these requirements that are easier to measure when the shaft is being produced. Most of these tolerances are in line with commercial shaft tolerance, AGMA, and/or ISO tolerances.

Each Torque-Arm family reducer will be listed with all the appropriate bushing sizes for each reducer. This will be for all ratios and variations of the reducers (except screw conveyor drives that use the screw conveyor adapter and a driveshaft).

It will start with TXT for standard shafts only, move on to TAIL/MTA for standard shafts, and then finish with TAIL/MTA for metric shafts. See the table of contents on the next pages to help find the gearbox and shaft that you are looking for.

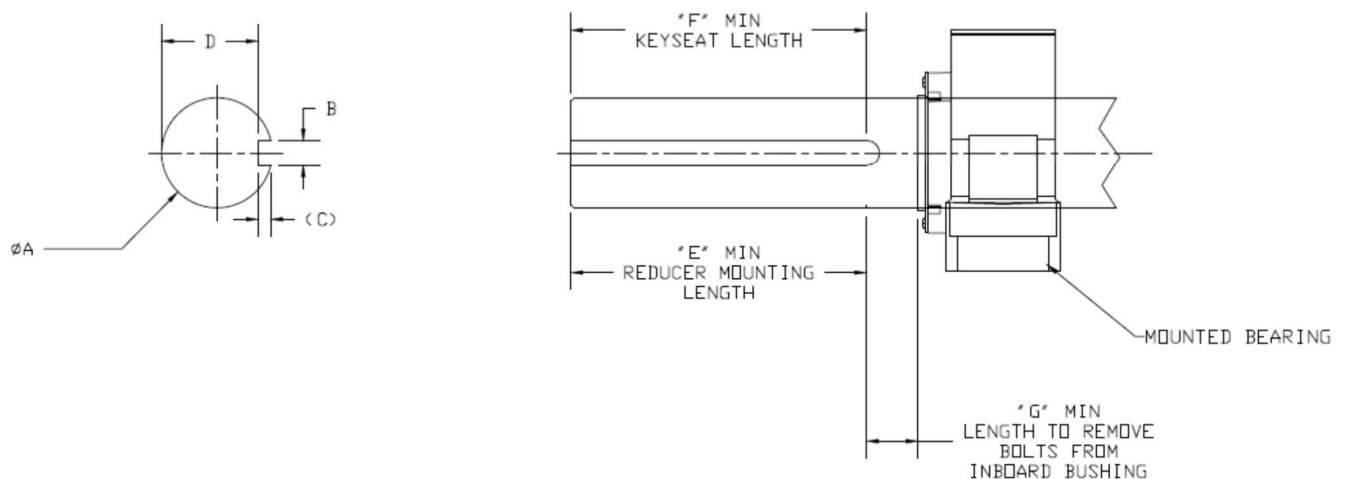


Figure 1. Shaft Requirements

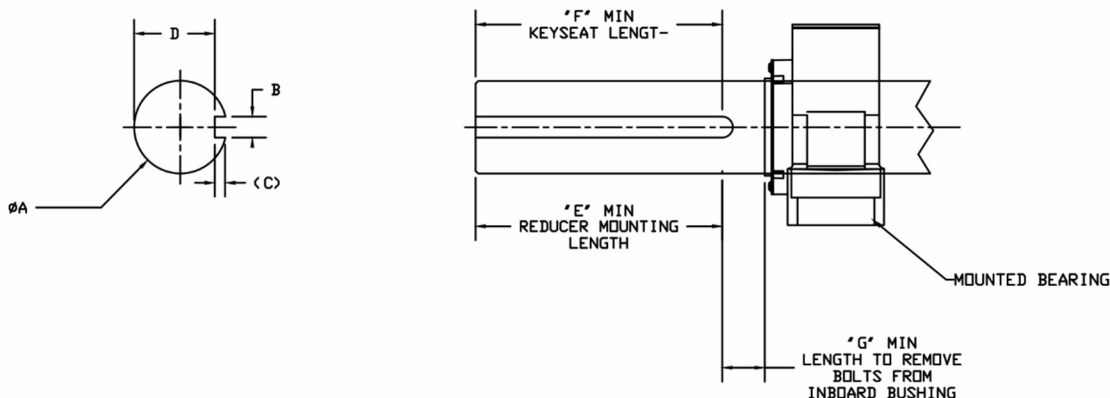
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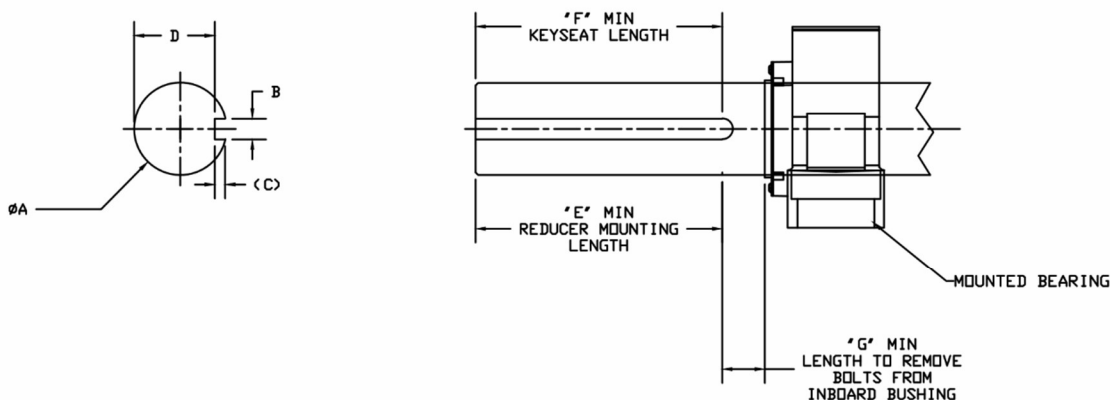


## REQUIREMENTS TO MOUNT TXT1 REDUCER ON SHAFT



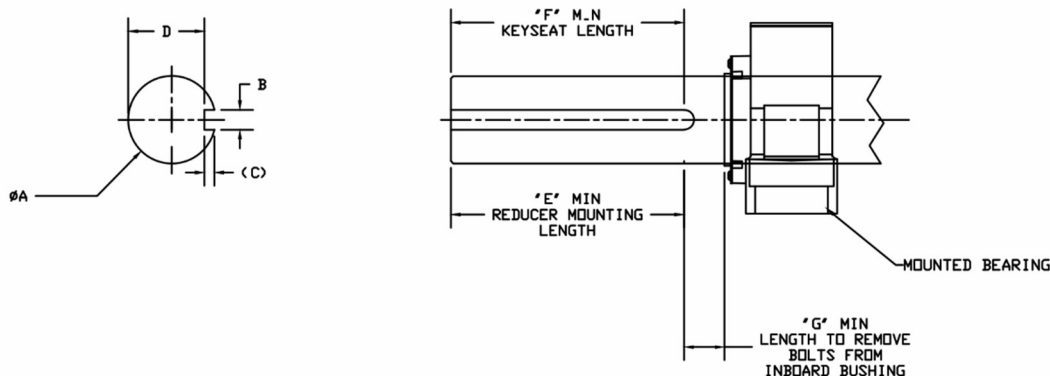
TXT1 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.225 <sup>+0.000</sup> <sub>-0.005</sub>	TAPERED BORE: 6-1/2" STRAIGHT BORE: 5-5/8"	TAPERED BORE: 6-7/16" STRAIGHT BORE: 2"	TAPERED BORE: 1-1/4" STRAIGHT BORE: N/A
1-3/8	1.375 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.200 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-7/16" STRAIGHT BORE: N/A	
1-5/16	1.3125 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.137 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-7/16" STRAIGHT BORE: 2"	
1-1/4	1.250 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.112 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-7/16" STRAIGHT BORE: 2"	
1-3/16	1.1875 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.049 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-7/16" STRAIGHT BORE: 2"	
1-1/8	1.125 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.985 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-7/16" STRAIGHT BORE: 1-3/4"	
1	1.000 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.859 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-7/16" STRAIGHT BORE: 1-3/4"	

## REQUIREMENTS TO MOUNT TXT2 REDUCER ON SHAFT



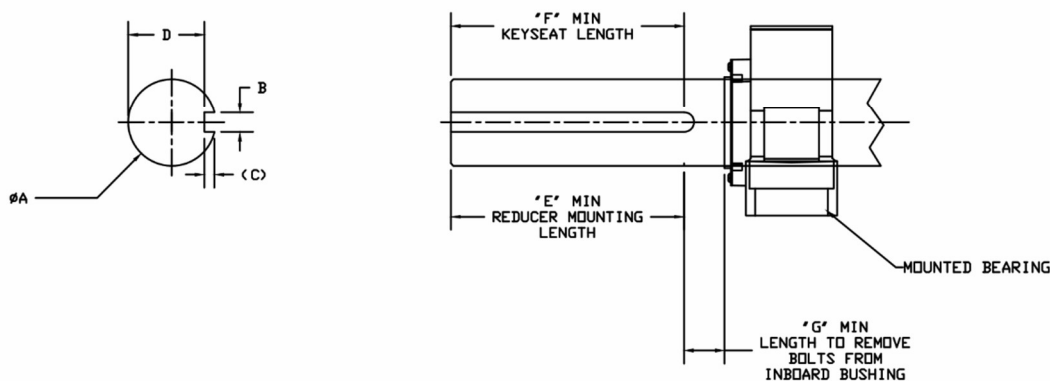
TXT2 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
1-15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>	TAPERED BORE: 6-3/4" STRAIGHT BORE: 5-13/16"	TAPERED BORE: 6-11/16" STRAIGHT BORE: 2-1/2"	TAPERED BORE: 1-1/4" STRAIGHT BORE: N/A
1-3/4	1.750 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.542 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2-7/8"	
1-11/16	1.6875 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.478 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2-7/8"	
1-5/8	1.625 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.415 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2-7/8"	
1-1/2	1.500 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.288 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2-1/2"	
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.225 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2-1/2"	
1-3/8	1.375 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.200 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2"	
1-5/16	1.3125 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.137 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2"	
1-1/4	1.250 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.112 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2"	
1-3/16	1.1875 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.049 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: 2"	
1-1/8	1.125 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.985 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 6-11/16" STRAIGHT BORE: N/A	

## REQUIREMENTS TO MOUNT TXT3 REDUCER ON SHAFT



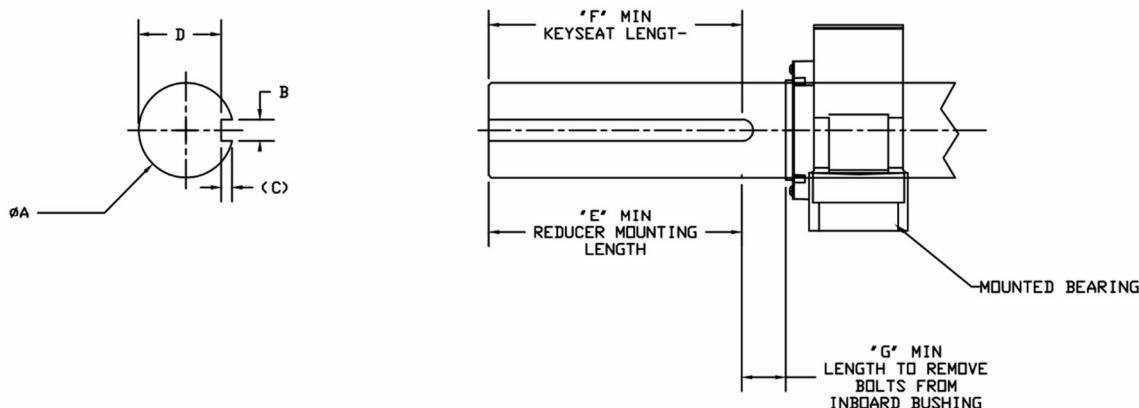
TXT3 REDUCER SHAFT REQUIREMENTS						
SHAFT SIZE	A	B	C	D	E	F
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>	TAPERED BORE: 8-9/16" STRAIGHT BORE: 7-11/16"	TAPERED BORE: 8-1/16" STRAIGHT BORE: 3-5/8"
2	2.000 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.718 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 3-5/8"
1-15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 3-5/8"
1-7/8	1.875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.591 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 3-5/8"
1-3/4	1.750 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.542 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 3-1/4"
1-11/16	1.6875 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.478 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 3-1/4"
1-5/8	1.625 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.415 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 2-1/4"
1-1/2	1.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.288 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 2-1/4"
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.225 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 2-1/4"
1-3/8	1.375 <sup>+0.000</sup> <sub>-0.003</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.200 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 2-1/4"
1-5/16	1.3125 <sup>+0.000</sup> <sub>-0.003</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.137 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 8-1/16" STRAIGHT BORE: 2-1/4"
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						TAPERED BORE: 1-1/2" STRAIGHT BORE: N/A

## REQUIREMENTS TO MOUNT TXT4 REDUCER ON SHAFT



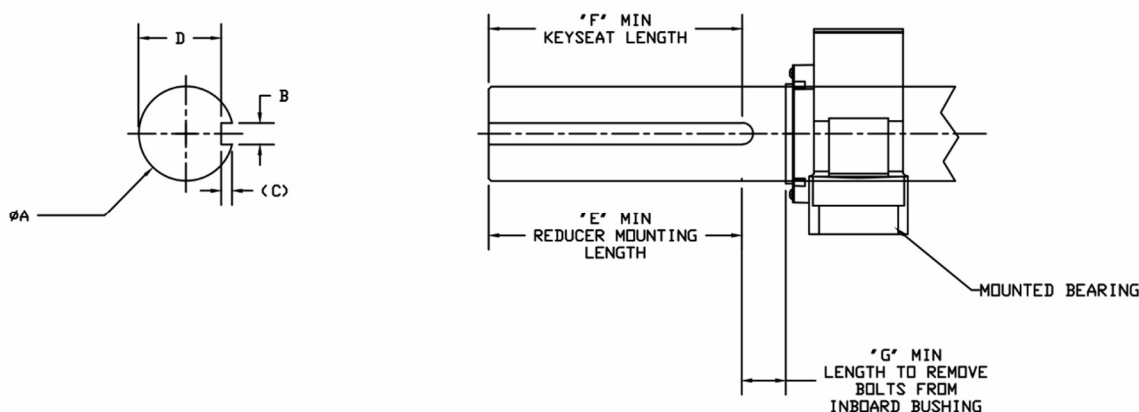
TXT4 REDUCER SHAFT REQUIREMENTS						
SHAFT SIZE	A	B	C	D	E	F
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.005</sub>	TAPERED BORE: 9-5/16" STRAIGHT BORE: 8-1/4"	TAPERED BORE: 9-1/32" STRAIGHT BORE: 3-3/8"
2-1/4	2.250 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.971 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 3-3/8"
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 3-3/8"
2-1/8	2.125 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.845 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 3-3/8"
2	2.000 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.718 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 4"
1-15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 4"
1-3/4	1.750 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.542 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 2-7/16"
1-11/16	1.6875 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.478 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 2-7/16"
1-1/2	1.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.288 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 2-7/16"
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.225 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-1/32" STRAIGHT BORE: 2-7/16"
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						TAPERED BORE: 1-3/4" STRAIGHT BORE: N/A

## REQUIREMENTS TO MOUNT TXT5 REDUCER ON SHAFT



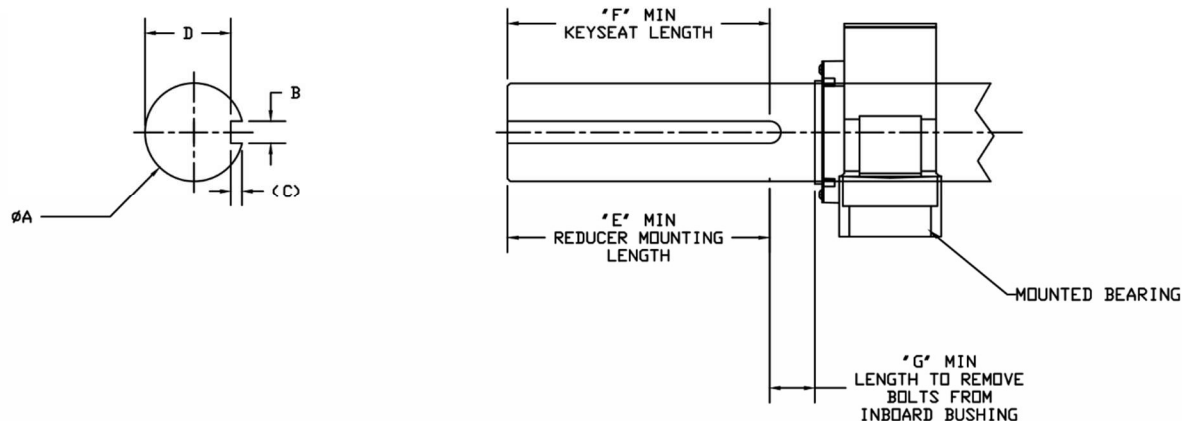
TXT5 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>	TAPERED BORE: 9-3/4" STRAIGHT BORE: 8-11/16"	TAPERED BORE: 9-3/8" STRAIGHT BORE: 4-3/8"	TAPERED BORE: 1-13/16" STRAIGHT BORE: N/A
2-11/16	2.6875 <sup>+0.000</sup> <sub>-0.004</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.338 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 9-3/8" STRAIGHT BORE: 4-3/8"	
2-1/2	2.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.147 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 9-3/8" STRAIGHT BORE: 4-3/8"	
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 9-3/8" STRAIGHT BORE: 4-3/8"	
2-1/4	2.250 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.971 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-3/8" STRAIGHT BORE: 3"	
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-3/8" STRAIGHT BORE: 3"	
2	2.000 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.718 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-3/8" STRAIGHT BORE: 3"	
1-15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 9-3/8" STRAIGHT BORE: 3"	

## REQUIREMENTS TO MOUNT TXT6 REDUCER ON SHAFT



TXT6 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>	TAPERED BORE: 10-3/4" STRAIGHT BORE: 5-7/8"	TAPERED BORE: 10-11/16" STRAIGHT BORE: 5-7/8"	TAPERED BORE: 1-13/16" STRAIGHT BORE: N/A
3	3.000 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.577 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 5-7/8"	
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 5-7/8"	
2-7/8	2.875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.450 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 5-7/8"	
2-3/4	2.6875 <sup>+0.000</sup> <sub>-0.004</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.338 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 5-7/8"	
2-1/2	2.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.147 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 3-1/2"	
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 3-1/2"	
2-1/4	2.250 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.971 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 3-1/2"	
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>		TAPERED BORE: 10-11/16" STRAIGHT BORE: 3-1/2"	

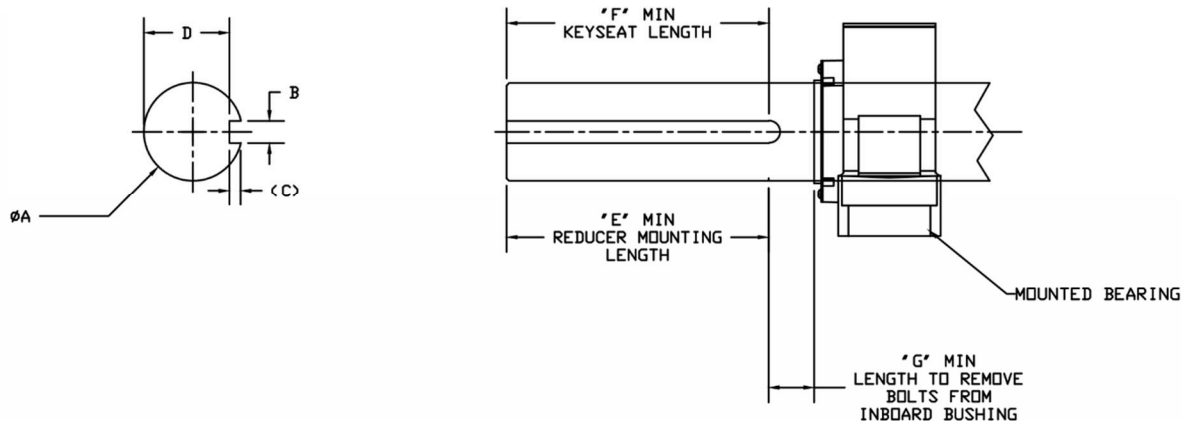
## REQUIREMENTS TO MOUNT TXT7 REDUCER ON SHAFT



TXT7 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>	TAPERED BORE: 11-15/16" STRAIGHT BORE: 10-3/4"	TAPERED BORE: 11-27/32" STRAIGHT BORE: 4-7/8"	TAPERED BORE: 2-1/16" STRAIGHT BORE: N/A
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 11-27/32" STRAIGHT BORE: 6-3/8"	
3-3/16	3.1875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.767 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 11-27/32" STRAIGHT BORE: 6-3/8"	
3	3.000 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.577 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 11-27/32" STRAIGHT BORE: 6-3/8"	
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 11-27/32" STRAIGHT BORE: 4-7/8"	
2-11/16	2.6875 <sup>+0.000</sup> <sub>-0.004</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.338 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 11-27/32" STRAIGHT BORE: 3-1/2"	
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 11-27/32" STRAIGHT BORE: 3-1/2"	



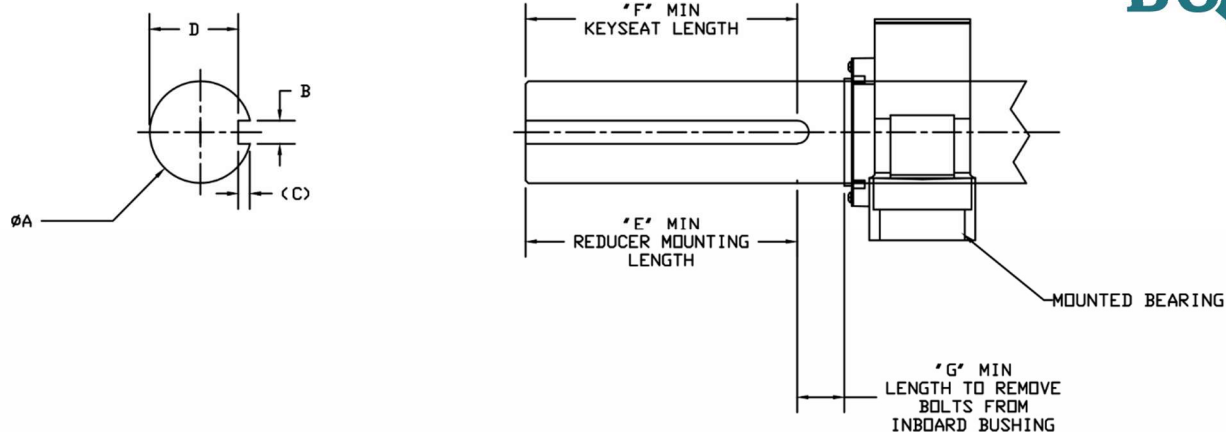
## REQUIREMENTS TO MOUNT TXT8 REDUCER ON SHAFT



TXT8 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
4-7/16	4.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.880 <sup>+0.000</sup> <sub>-0.006</sub>	TAPERED BORE: 13-1/8" STRAIGHT BORE: 11-3/8"	TAPERED BORE: 13-1/16" STRAIGHT BORE: 6-7/8"	TAPERED BORE: 2-1/16" STRAIGHT BORE: N/A
4-3/16	4.1875 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.626 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 13-1/16" STRAIGHT BORE: 6-7/8"	
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 13-1/16" STRAIGHT BORE: 6-7/8"	
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 13-1/16" STRAIGHT BORE: 6-7/8"	
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 13-1/16" STRAIGHT BORE: 4-3/8"	

## 7 REQUIREMENTS TO MOUNT TXT9 REDUCER ON SHAFT





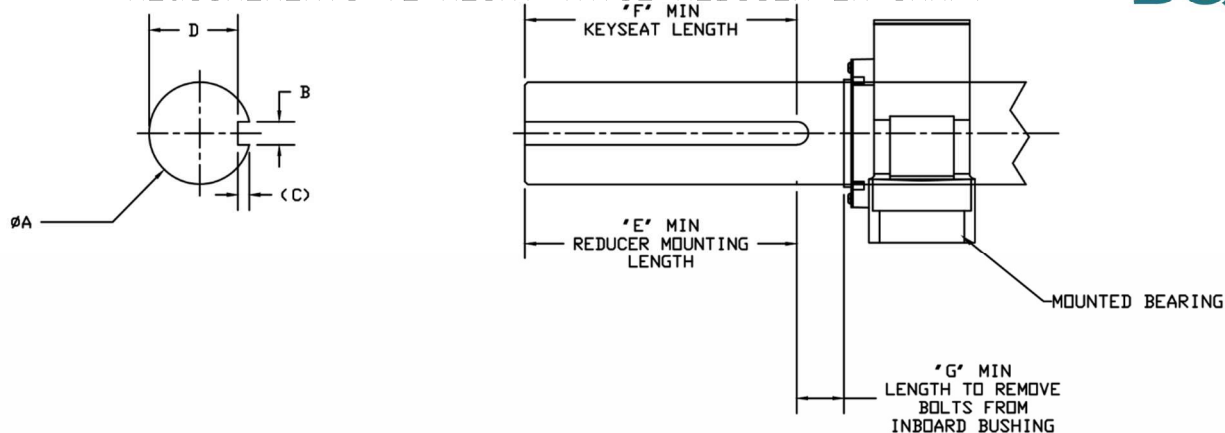
TXT9 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
4-15/16	4.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.232 <sup>+0.000</sup> <sub>-0.007</sub>	TAPERED BORE: 13" STRAIGHT BORE: 11-3/8"	TAPERED BORE: 12-15/16" STRAIGHT BORE: 11-3/8"	TAPERED BORE: 2-7/16" STRAIGHT BORE: N/A
4-7/16	4.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.880 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 12-15/16" STRAIGHT BORE: 11-3/8"	
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 12-15/16" STRAIGHT BORE: 11-3/8"	
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 12-15/16" STRAIGHT BORE: 5"	

## REQUIREMENTS TO MOUNT TXT10 REDUCER ON SHAFT



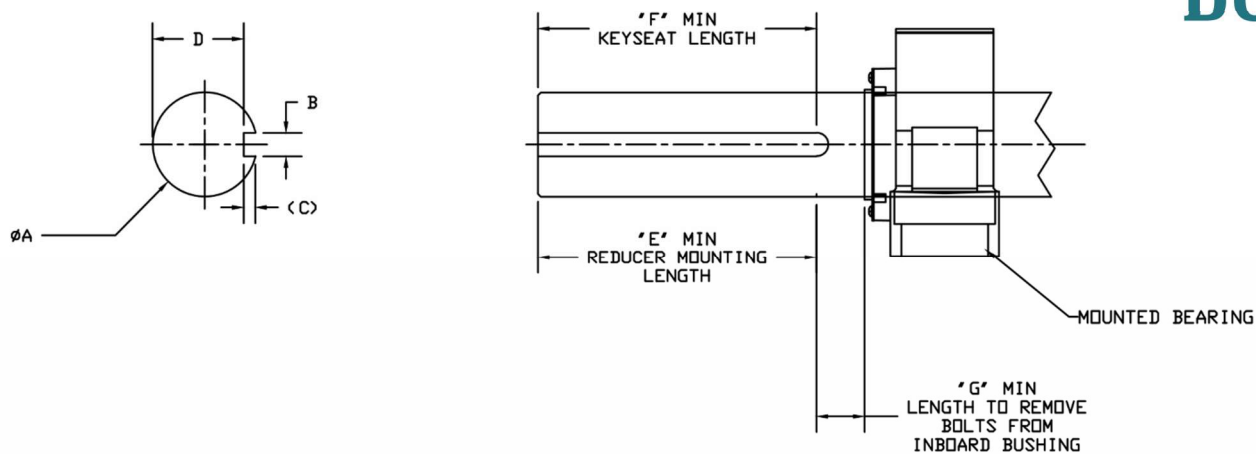


# REQUIREMENTS TO MOUNT TXT12 REDUCER ON SHAFT



TXT10 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
5-7/16	5.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.739 <sup>+0.000</sup> <sub>-0.007</sub>	TAPERED BORE: 14-3/16" STRAIGHT BORE: 12-3/8"	TAPERED BORE: 14-1/16" STRAIGHT BORE: 12-3/8"	TAPERED BORE: 2-7/16" STRAIGHT BORE: N/A
4-15/16	4.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.232 <sup>+0.000</sup> <sub>-0.007</sub>		TAPERED BORE: 14-1/16" STRAIGHT BORE: 12-3/8"	
4-7/16	4.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.880 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 14-1/16" STRAIGHT BORE: 12-3/8"	
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>		TAPERED BORE: 14-1/16" STRAIGHT BORE: 6-5/8"	



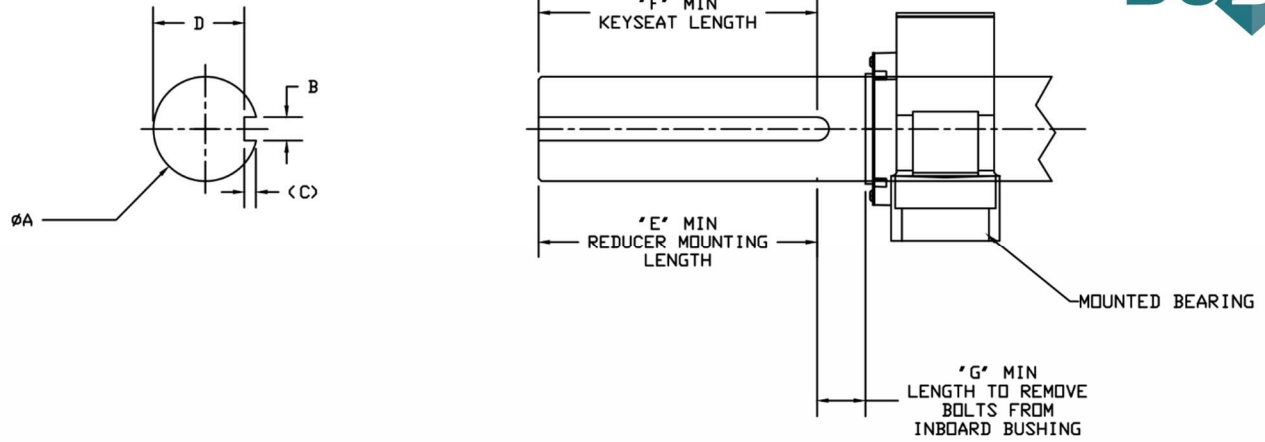


TXT12 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
6-1/2	6.500 <sup>+0.000</sup> <sub>-0.006</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.662 <sup>+0.000</sup> <sub>-0.008</sub>	17-3/8"	17-5/16"	2-7/16"
6-7/16	6.4375 <sup>+0.000</sup> <sub>-0.006</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.598 <sup>+0.000</sup> <sub>-0.008</sub>			
6	6.000 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.154 <sup>+0.000</sup> <sub>-0.007</sub>			
5-15/16	5.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.091 <sup>+0.000</sup> <sub>-0.007</sub>			
5-7/16	5.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.739 <sup>+0.000</sup> <sub>-0.007</sub>			

## REQUIREMENTS TO MOUNT TDT13 REDUCER ON SHAFT



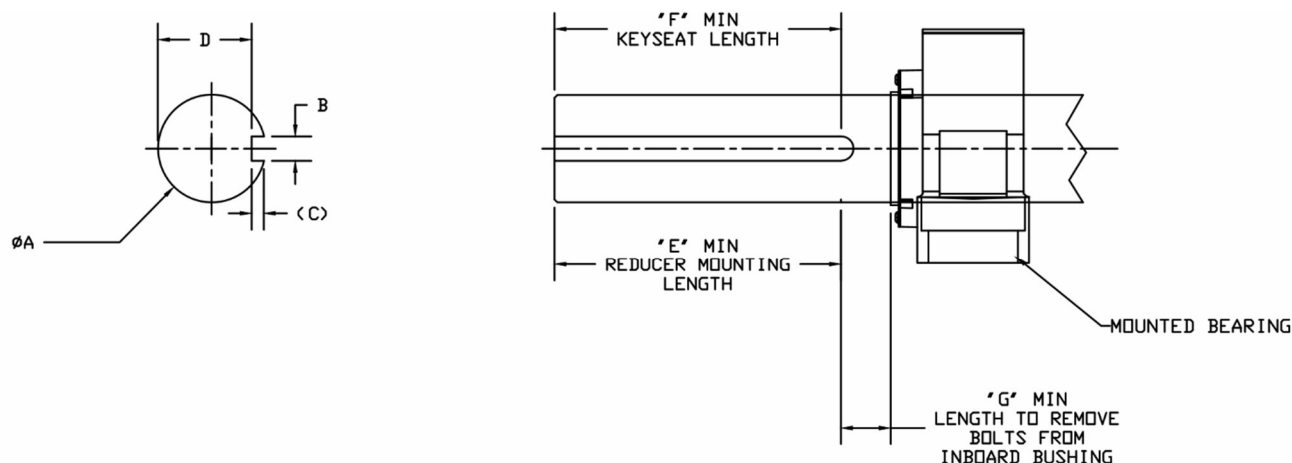




TDT13 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
7	7.000 <sup>+0.000</sup> <sub>-0.006</sub>	1.750 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	6.138 <sup>+0.000</sup> <sub>-0.008</sub>	19 7/8	19-9/16"	2 11/16"
6-1/2	6.500 <sup>+0.000</sup> <sub>-0.006</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.662 <sup>+0.000</sup> <sub>-0.008</sub>			
6	6.000 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.154 <sup>+0.000</sup> <sub>-0.007</sub>			
5-15/16	5.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.091 <sup>+0.000</sup> <sub>-0.007</sub>			



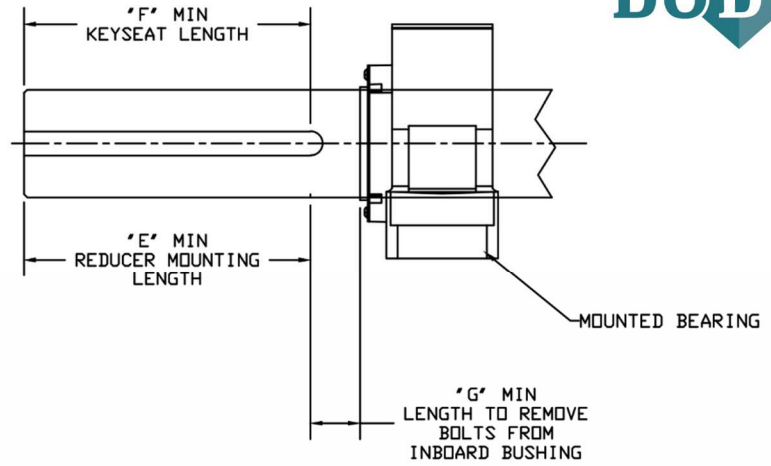
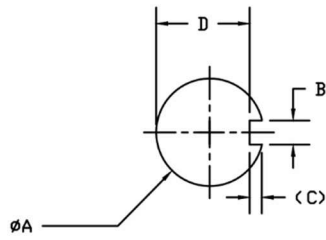
## REQUIREMENTS TO MOUNT TDT14 REDUCER ON SHAFT



TDT14 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
8	8.000 <sup>+0.000</sup> <sub>-0.006</sub>	2.000 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	7.122 <sup>+0.000</sup> <sub>-0.008</sub>	22-3/8"	22-1/4"	3"
7	7.000 <sup>+0.000</sup> <sub>-0.006</sub>	1.750 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	6.138 <sup>+0.000</sup> <sub>-0.008</sub>			
6-1/2	6.500 <sup>+0.000</sup> <sub>-0.006</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.662 <sup>+0.000</sup> <sub>-0.008</sub>			
6	6.000 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.154 <sup>+0.000</sup> <sub>-0.007</sub>			

## REQUIREMENTS TO MOUNT TDT15 REDUCER ON SHAFT

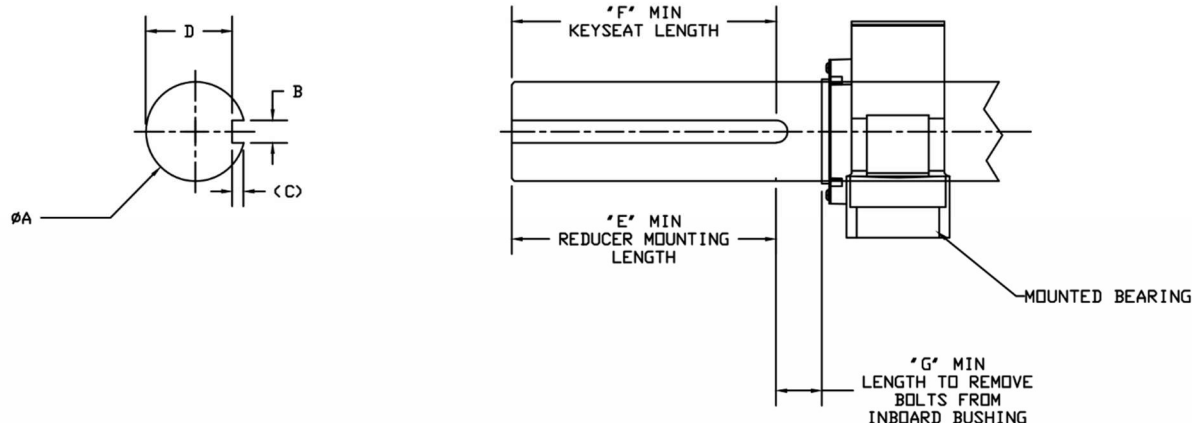




TDT15 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
10	10.000 <sup>+0.000</sup> <sub>-0.008</sub>	2.500 <sup>+0.004</sup> <sub>-0.000</sub>	7/8	8.966 <sup>+0.000</sup> <sub>-0.008</sub>	27-3/8"	27 5/16"	3"
9	9.000 <sup>+0.000</sup> <sub>-0.007</sub>	2.000 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	8.137 <sup>+0.000</sup> <sub>-0.008</sub>			
8-1/2	8.500 <sup>+0.000</sup> <sub>-0.007</sub>	2.000 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	7.630 <sup>+0.000</sup> <sub>-0.008</sub>			
8	8.000 <sup>+0.000</sup> <sub>-0.006</sub>	2.000 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	7.122 <sup>+0.000</sup> <sub>-0.008</sub>			

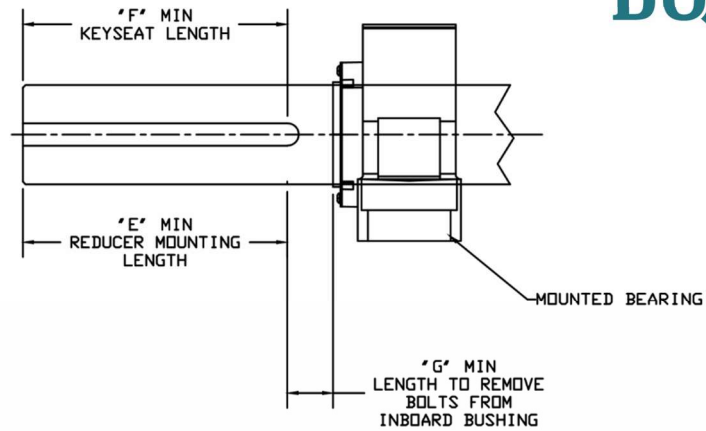
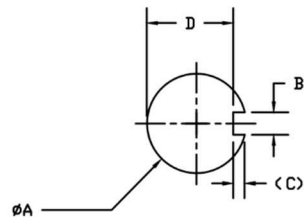


# REQUIREMENTS TO MOUNT TA0107L REDUCER ON SHAFT



TA0107L REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.225 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	1.08"
1-3/8	1.375 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.200 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	
1-5/16	1.3125 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.137 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	
1-1/4	1.250 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.112 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	
1-3/16	1.1875 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.049 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.83" SHORT SHAFT: 4.35"	STANDARD SHAFT: 6.83" SHORT SHAFT: 4.35"	
1-1/8	1.125 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.985 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.83" SHORT SHAFT: 4.35"	STANDARD SHAFT: 6.83" SHORT SHAFT: 4.35"	
1	1.000 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.859 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.83" SHORT SHAFT: 4.35"	STANDARD SHAFT: 6.83" SHORT SHAFT: 4.35"	

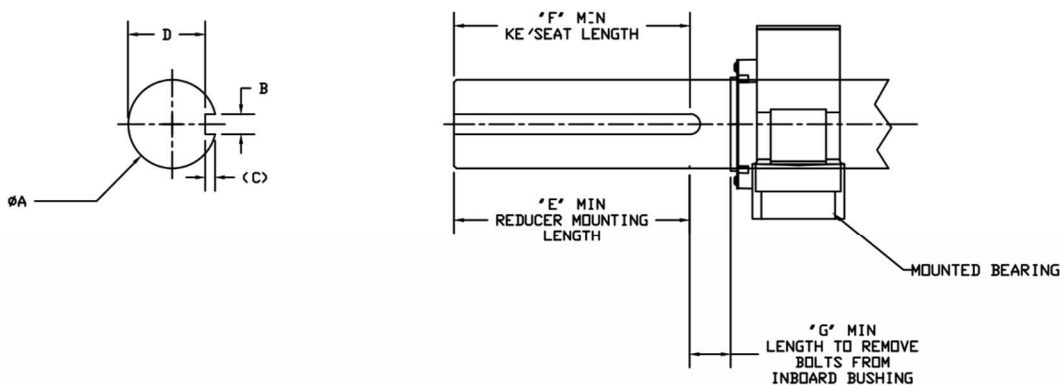
# REQUIREMENTS TO MOUNT TA1107H REDUCER ON SHAFT



TA1107H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
1-1/2	1.500 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.288 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: N/A	STANDARD SHAFT: 6.83" SHORT SHAFT: N/A	1.20'
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.225 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	
1-3/8	1.375 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.200 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	
1-5/16	1.3125 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.137 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	
1-1/4	1.250 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.112 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	
1-3/16	1.1875 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	1.049 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	
1-1/8	1.125 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.985 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	
1-1/16	1.0625 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.922 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	
1	1.000 <sup>+0.000</sup> <sub>-0.002</sub>	0.250 <sup>+0.002</sup> <sub>-0.000</sub>	1/8	0.859 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	STANDARD SHAFT: 6.95" SHORT SHAFT: 4.43"	

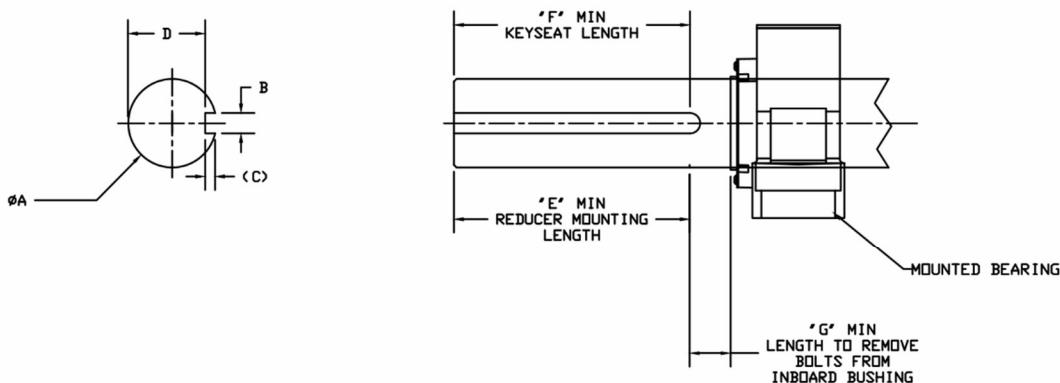


# REQUIREMENTS TO MOUNT TA2115H/MTA2 REDUCER ON SHAFT



TA2115H/MTA2 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: N/A	STANDARD SHAFT: 7.80" SHORT SHAFT: N/A	1.20"
2	2.000 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.718 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: N/A	STANDARD SHAFT: 7.80" SHORT SHAFT: N/A	
1-15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-7/8	1.875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.591 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-3/4	1.750 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.542 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-11/16	1.6875 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.478 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-5/8	1.625 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.415 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-1/2	1.500 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.288 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.225 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-3/8	1.375 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.200 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	
1-5/16	1.3125 <sup>+0.000</sup> <sub>-0.002</sub>	0.313 <sup>+0.002</sup> <sub>-0.000</sub>	5/32	1.137 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 7.81" SHORT SHAFT: 4.80"	STANDARD SHAFT: 7.80" SHORT SHAFT: 4.80"	

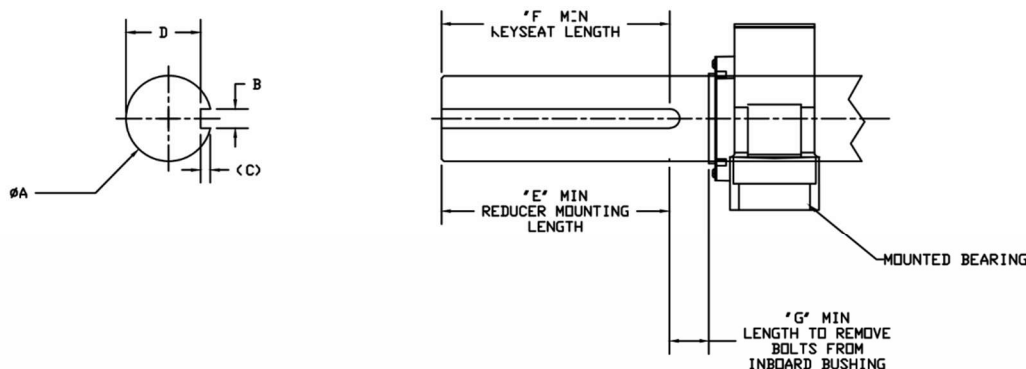
# REQUIREMENTS TO MOUNT TA3203H/MTA3 REDUCER ON SHAFT



TA3203H/MTA3 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
2-3/8	2.375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.020 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: N/A	STANDARD SHAFT: 8.55" SHORT SHAFT: N/A	1.20"
2-1/4	2.250 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.971 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: N/A	STANDARD SHAFT: 8.55" SHORT SHAFT: N/A	
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
2-1/8	2.125 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.845 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
2	2.000 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.718 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
1-15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
1-7/8	1.875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.591 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
1-3/4	1.750 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.542 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
1-11/16	1.6875 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.478 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
1-5/8	1.625 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.415 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
1-1/2	1.500 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.288 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	
1-7/16	1.4375 <sup>+0.000</sup> <sub>-0.002</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.250 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.62" SHORT SHAFT: 5.46"	STANDARD SHAFT: 8.55" SHORT SHAFT: 5.46"	



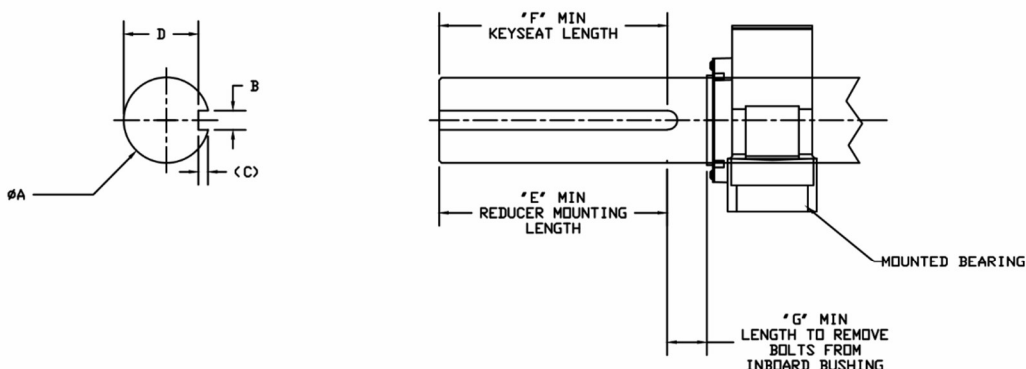
# REQUIREMENTS TO MOUNT TA4207H/MTA4 REDUCER ON SHAFT



TA4207H/MTA4 REDUCER SHAFT REQUIREMENTS						
SHAFT SIZE	A	B	C	D	E	F
2-11/16	2.6875 <sup>+0.000</sup> <sub>-0.004</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.338 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: N/A	STANDARD SHAFT: 8.93" SHORT SHAFT: N/A
2-1/2	2.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.147 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: N/A	STANDARD SHAFT: 8.93" SHORT SHAFT: N/A
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
2-3/8	2.375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.020 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
2-1/4	2.250 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.971 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
2-1/8	2.125 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.845 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
2	2.000 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.718 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
1-15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
1-7/8	1.875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.591 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
1-3/4	1.750 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.542 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"
1-11/16	1.6875 <sup>+0.000</sup> <sub>-0.003</sub>	0.375 <sup>+0.002</sup> <sub>-0.000</sub>	3/16	1.478 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 8.94" SHORT SHAFT: 5.65"	STANDARD SHAFT: 8.93" SHORT SHAFT: 5.65"

1.48"

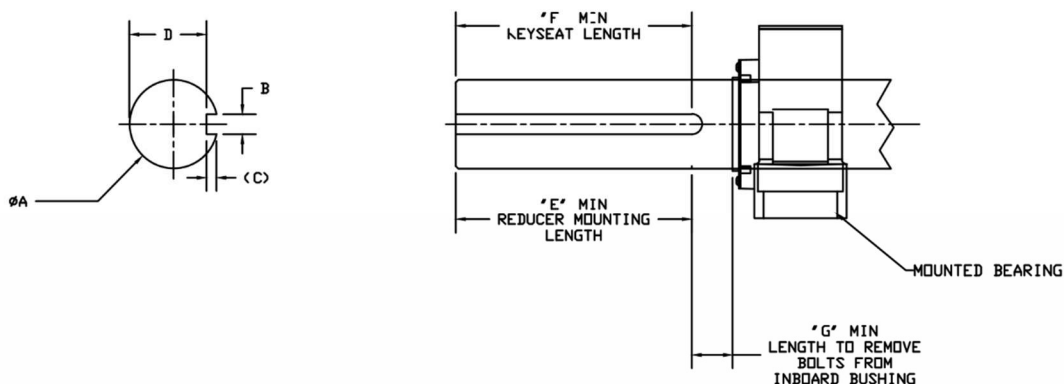
# REQUIREMENTS TO MOUNT TA5215H/MTA5 REDUCER ON SHAFT



TA5215H/MTA5 REDUCER SHAFT REQUIREMENTS						
SHAFT SIZE	A	B	C	D	E	F
3-3/16	3.1875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.767 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: N/A	STANDARD SHAFT: 10.34" SHORT SHAFT: N/A
3	3.000 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.577 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: N/A	STANDARD SHAFT: 10.34" SHORT SHAFT: N/A
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-7/8	2.875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.450 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-11/16	2.6875 <sup>+0.000</sup> <sub>-0.004</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.338 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-1/2	2.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.147 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-3/8	2.375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.020 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-1/4	2.250 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.971 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2-1/8	2.125 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.845 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
2	2.000 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.718 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"
1 15/16	1.9375 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.654 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"	STANDARD SHAFT: 10.34" SHORT SHAFT: 6.36"

1.81"

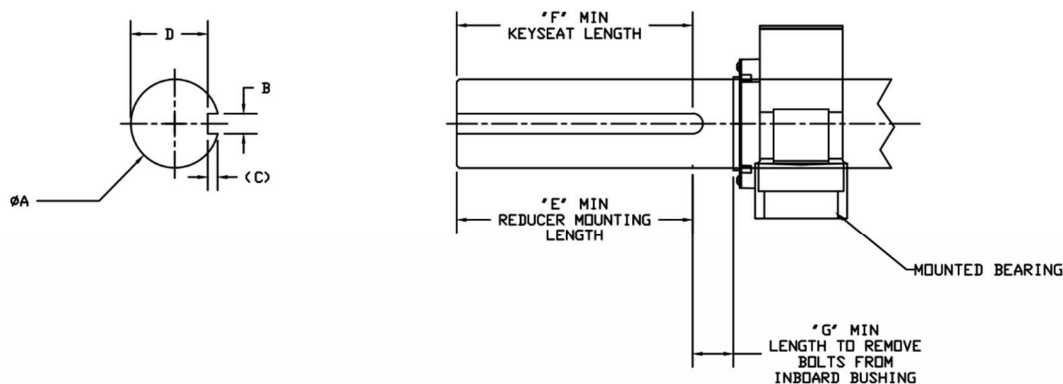
# REQUIREMENTS TO MOUNT TA6307H/MTA6 REDUCER ON SHAFT



TA6307H/MTA6 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	1.81"
3-3/16	3.1875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.767 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
3	3.000 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.577 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-7/8	2.875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.450 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-11/16	2.6875 <sup>+0.000</sup> <sub>-0.004</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.338 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-1/2	2.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.147 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-3/8	2.375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.020 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-1/4	2.250 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.971 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	
2-3/16	2.1875 <sup>+0.000</sup> <sub>-0.003</sub>	0.500 <sup>+0.002</sup> <sub>-0.000</sub>	1/4	1.908 <sup>+0.000</sup> <sub>-0.005</sub>	STANDARD SHAFT: 10.84" SHORT SHAFT: 6.72"	STANDARD SHAFT: 10.82" SHORT SHAFT: 6.72"	



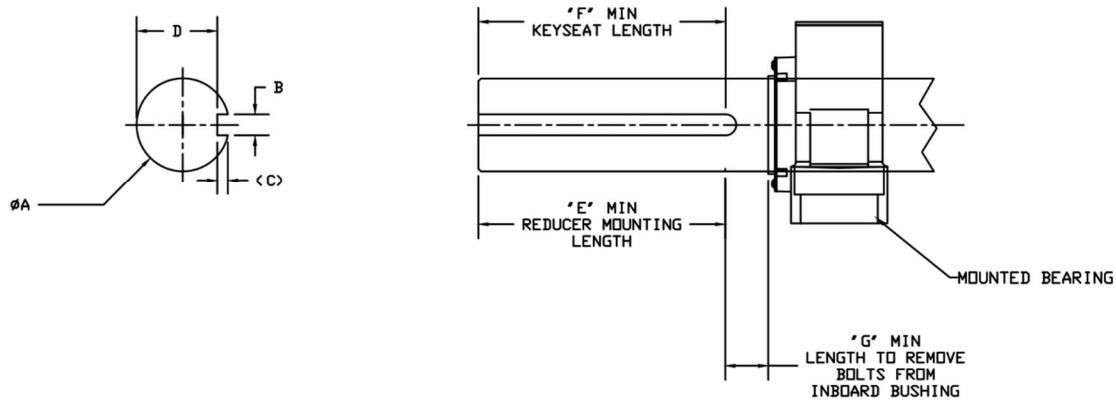
# REQUIREMENTS TO MOUNT TA7315H/MTA7 REDUCER ON SHAFT



TA7315H/MTA7 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
4-7/16	4.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.880 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: N/A	STANDARD SHAFT: 11.87" SHORT SHAFT: N/A	2.06"
4-3/16	4.1875 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.626 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: N/A	STANDARD SHAFT: 11.87" SHORT SHAFT: N/A	
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
3-3/16	3.1875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.767 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
3	3.000 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.577 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
2-7/8	2.875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.450 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
2-11/16	2.6875 <sup>+0.000</sup> <sub>-0.004</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.338 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
2-1/2	2.500 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.147 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	
2-7/16	2.4375 <sup>+0.000</sup> <sub>-0.003</sub>	0.625 <sup>+0.003</sup> <sub>-0.000</sub>	5/16	2.084 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	STANDARD SHAFT: 11.87" SHORT SHAFT: 7.62"	



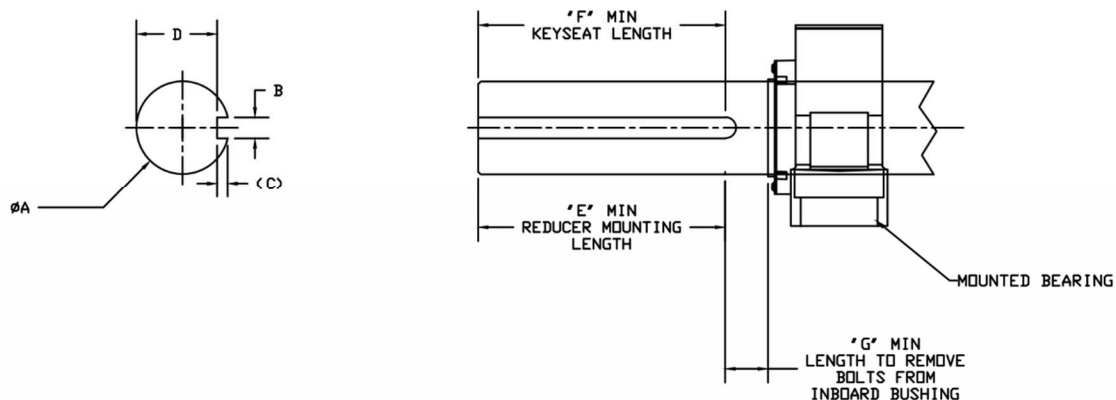
## REQUIREMENTS TO MOUNT TA8407H MTA8 REDUCER ON SHAFT



TA8407H/MTA8 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
4-7/16	4.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.880 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	2.06'
4-3/16	4.1875 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.626 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	
3-3/16	3.1875 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.767 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	
3	3.000 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.577 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	
2-15/16	2.9375 <sup>+0.000</sup> <sub>-0.004</sub>	0.750 <sup>+0.003</sup> <sub>-0.000</sub>	3/8	2.513 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	STANDARD SHAFT: 12.82" SHORT SHAFT: 8.10"	

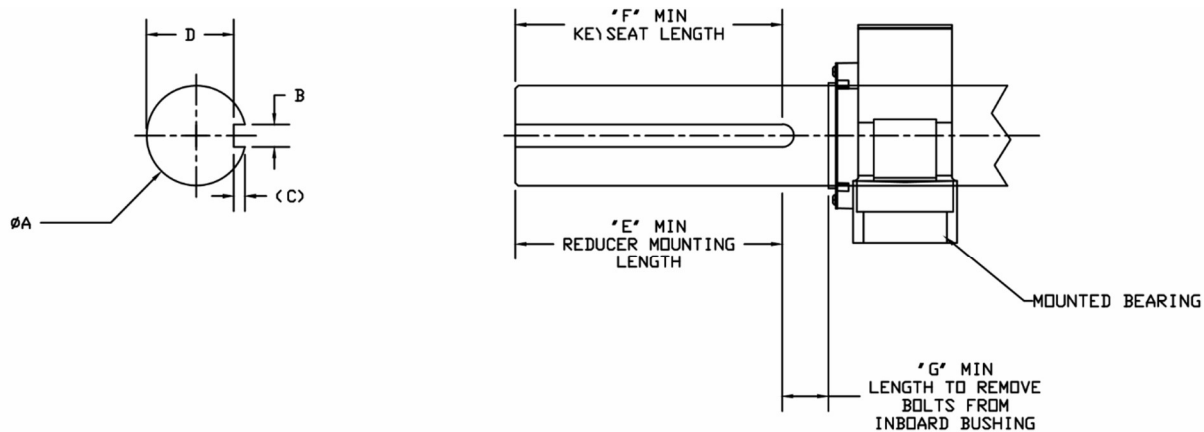


# REQUIREMENTS TO MOUNT TA9415H REDUCER ON SHAFT



TA9415H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
4-15/16	4.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.232 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 13.75" SHORT SHAFT: 8.56"	STANDARD SHAFT: 13.74" SHORT SHAFT: 8.56"	2.39"
4-7/16	4.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.880 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 13.75" SHORT SHAFT: 8.56"	STANDARD SHAFT: 13.74" SHORT SHAFT: 8.56"	
4-3/16	4.1875 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.626 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 13.75" SHORT SHAFT: 8.56"	STANDARD SHAFT: 13.74" SHORT SHAFT: 8.56"	
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 13.75" SHORT SHAFT: 8.56"	STANDARD SHAFT: 13.74" SHORT SHAFT: 8.56"	
3-7/16	3.4375 <sup>+0.000</sup> <sub>-0.004</sub>	0.875 <sup>+0.003</sup> <sub>-0.000</sub>	7/16	2.943 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 13.75" SHORT SHAFT: 8.56"	STANDARD SHAFT: 13.74" SHORT SHAFT: 8.56"	

## REQUIREMENTS TO MOUNT TA10507H REDUCER ON SHAFT

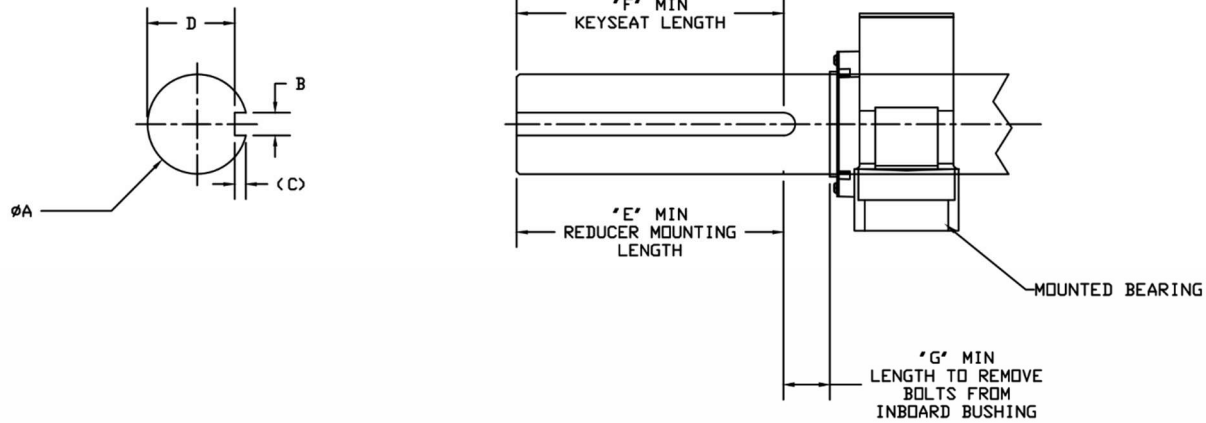


TA10507H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
6	6.000 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.154 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 15.47" SHORT SHAFT: N/A	STANDARD SHAFT: 15.46" SHORT SHAFT: N/A	2.39"
5-15/16	5.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.091 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 15.47" SHORT SHAFT: N/A	STANDARD SHAFT: 15.46" SHORT SHAFT: N/A	
5-7/16	5.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.739 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 15.47" SHORT SHAFT: 9.67"	STANDARD SHAFT: 15.46" SHORT SHAFT: 9.67"	
4-15/16	4.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.232 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 15.47" SHORT SHAFT: 9.67"	STANDARD SHAFT: 15.46" SHORT SHAFT: 9.67"	
4-7/16	4.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.880 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 15.47" SHORT SHAFT: 9.67"	STANDARD SHAFT: 15.46" SHORT SHAFT: 9.67"	
4-3/16	4.1875 <sup>+0.000</sup> <sub>-0.005</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.626 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 15.47" SHORT SHAFT: 9.67"	STANDARD SHAFT: 15.46" SHORT SHAFT: 9.67"	
3-15/16	3.9375 <sup>+0.000</sup> <sub>-0.004</sub>	1.000 <sup>+0.003</sup> <sub>-0.000</sub>	1/2	3.372 <sup>+0.000</sup> <sub>-0.006</sub>	STANDARD SHAFT: 15.47" SHORT SHAFT: 9.67"	STANDARD SHAFT: 15.46" SHORT SHAFT: 9.67"	

## REQUIREMENTS TO MOUNT TA12608H REDUCER ON SHAFT

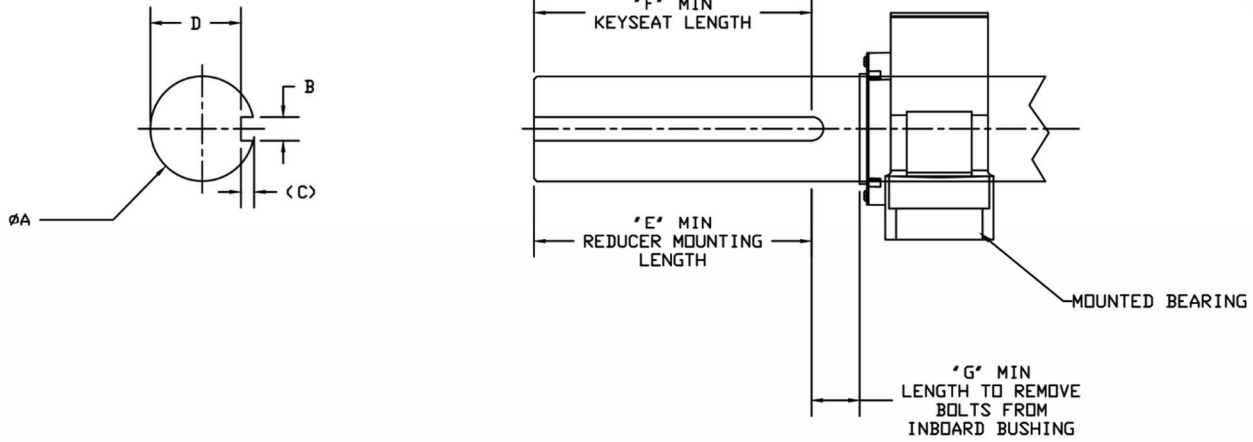


## REQUIREMENTS TO MOUNT TA0107L REDUCER ON SHAFT



TA12608H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
7	7.000 <sup>+0.000</sup> <sub>-0.006</sub>	1.750 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	6.138 <sup>+0.000</sup> <sub>-0.008</sub>	STANDARD SHAFT: 18.33" SHORT SHAFT: N/A	STANDARD SHAFT: 18.32" SHORT SHAFT: N/A	2.39"
6-1/2	6.500 <sup>+0.000</sup> <sub>-0.006</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.662 <sup>+0.000</sup> <sub>-0.008</sub>	STANDARD SHAFT: 18.33" SHORT SHAFT: 11.60"	STANDARD SHAFT: 18.32" SHORT SHAFT: 11.60"	
6-7/16	6.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.598 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 18.33" SHORT SHAFT: 11.60"	STANDARD SHAFT: 18.32" SHORT SHAFT: 11.60"	
6	6.000 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.154 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 18.33" SHORT SHAFT: 11.60"	STANDARD SHAFT: 18.32" SHORT SHAFT: 11.60"	
5-15/16	5.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.500 <sup>+0.004</sup> <sub>-0.000</sub>	3/4	5.091 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 18.33" SHORT SHAFT: 11.60"	STANDARD SHAFT: 18.32" SHORT SHAFT: 11.60"	
5-7/16	5.4375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.739 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 18.33" SHORT SHAFT: 11.60"	STANDARD SHAFT: 18.32" SHORT SHAFT: 11.60"	
4-15/16	4.9375 <sup>+0.000</sup> <sub>-0.005</sub>	1.250 <sup>+0.004</sup> <sub>-0.000</sub>	5/8	4.321 <sup>+0.000</sup> <sub>-0.007</sub>	STANDARD SHAFT: 18.33" SHORT SHAFT: 11.60"	STANDARD SHAFT: 18.32" SHORT SHAFT: 11.60"	



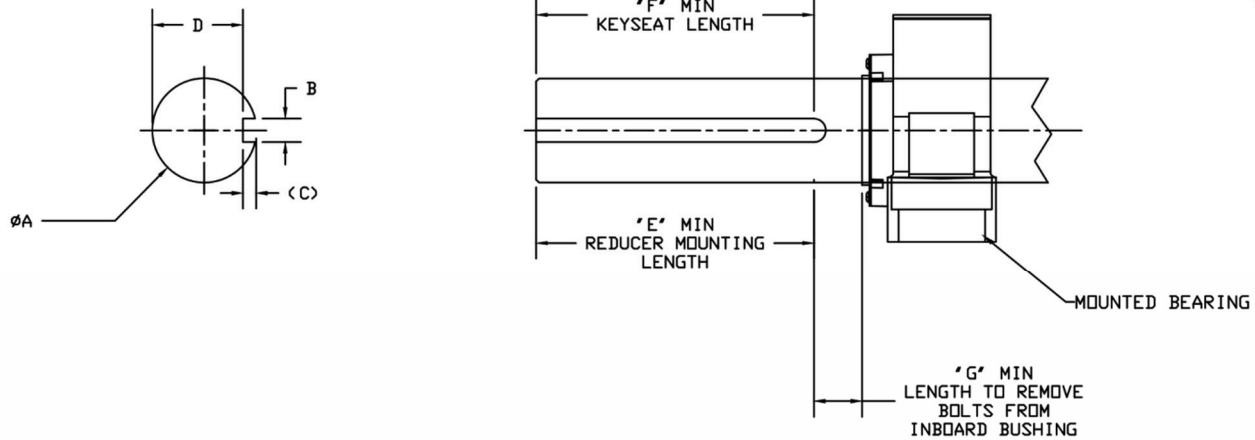


TA0107L REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
35mm	35 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	30 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 174mm SHORT SHAFT: N/A	STANDARD SHAFT: 174mm SHORT SHAFT: N/A	30mm
32mm	32 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	27 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 174mm SHORT SHAFT: N/A	STANDARD SHAFT: 174mm SHORT SHAFT: N/A	
30mm	30 <sup>+0.000</sup> <sub>-0.050</sub>	8 <sup>+0.036</sup> <sub>-0.000</sub>	4	26 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 174mm SHORT SHAFT: 110mm	STANDARD SHAFT: 174mm SHORT SHAFT: 110mm	
25mm	25 <sup>+0.000</sup> <sub>-0.050</sub>	8 <sup>+0.036</sup> <sub>-0.000</sub>	4	21 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 174mm SHORT SHAFT: 110mm	STANDARD SHAFT: 174mm SHORT SHAFT: 110mm	

REQUIREMENTS TO MOUNT TA1107H REDUCER ON SHAFT

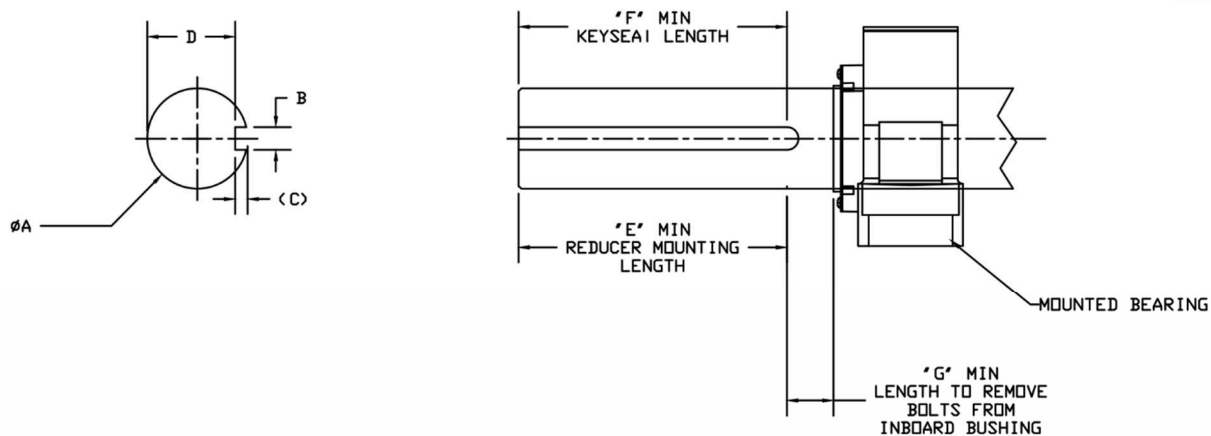


# REQUIREMENTS TO MOUNT TA2115H/MA2 REDUCER ON SHAFT



TA1107H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
40mm	40 <sup>+0.000</sup> <sub>-0.075</sub>	12 <sup>+0.043</sup> <sub>-0.000</sub>	5	35 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT. 177mm SHORT S-AFT. N/A	STANDARD S-AFT. 177mm SHORT S-AFT. N/A	30mm
38mm	38 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	33 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT. 177mm SHORT S-AFT. N/A	STANDARD S-AFT. 177mm SHORT S-AFT. N/A	
35mm	35 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	30 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT. 177mm SHORT S-AFT. 113mm	STANDARD S-AFT. 177mm SHORT S-AFT. 113mm	
32mm	32 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	27 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT. 177mm SHORT S-AFT. 113mm	STANDARD S-AFT. 177mm SHORT S-AFT. 113mm	
30mm	30 <sup>+0.000</sup> <sub>-0.050</sub>	8 <sup>+0.036</sup> <sub>-0.000</sub>	4	26 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT. 177mm SHORT S-AFT. 113mm	STANDARD S-AFT. 177mm SHORT S-AFT. 113mm	

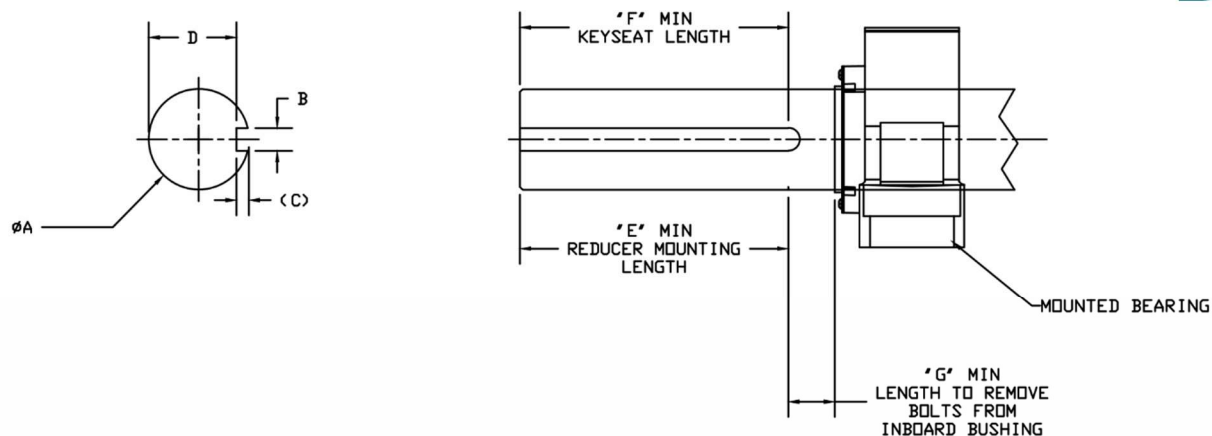




TA2115H/MTA2 REDUCER SHAFT REQUIREMENTS						
SHAFT SIZE	A	B	C	D	E	F
55mm	55 <sup>+0.000</sup> <sub>-0.075</sub>	16 <sup>+0.043</sup> <sub>-0.000</sub>	6	49 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 199mm SHORT SHAFT: N/A	STANDARD SHAFT: 199mm SHORT SHAFT: N/A
50mm	50 <sup>+0.000</sup> <sub>-0.075</sub>	14 <sup>+0.043</sup> <sub>-0.000</sub>	5.5	44.5 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm
45mm	45 <sup>+0.000</sup> <sub>-0.075</sub>	14 <sup>+0.043</sup> <sub>-0.000</sub>	5.5	39.5 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm
42mm	42 <sup>+0.000</sup> <sub>-0.075</sub>	12 <sup>+0.043</sup> <sub>-0.000</sub>	5	37 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm
40mm	40 <sup>+0.000</sup> <sub>-0.075</sub>	12 <sup>+0.043</sup> <sub>-0.000</sub>	5	35 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm
38mm	38 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	33 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm
35mm	35 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	30 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm	STANDARD SHAFT: 199mm SHORT SHAFT: 122mm

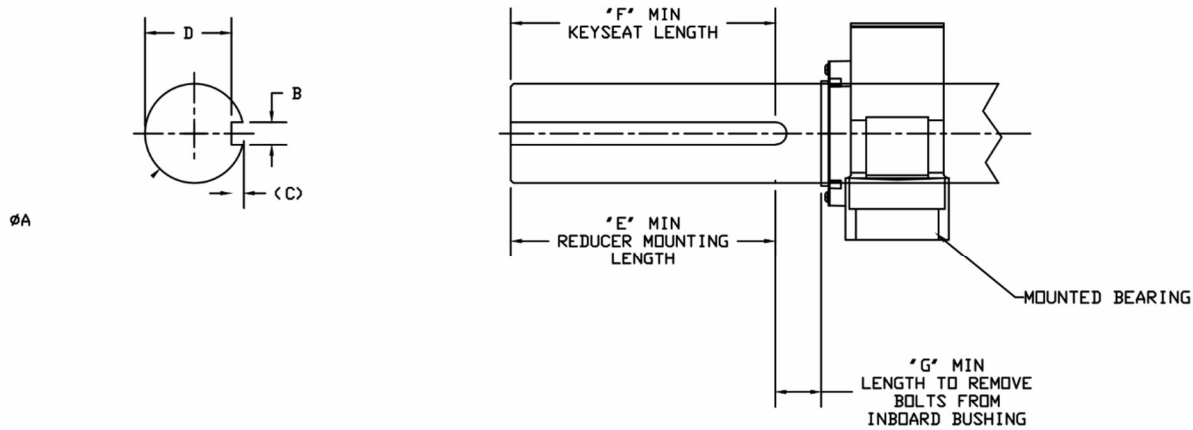
## REQUIREMENTS TO MOUNT TA3203H/MTA3 REDUCER ON SHAFT





TA3203H/MTA3 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
60mm	60 <sup>+0.000</sup> <sub>-0.075</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	53 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 219mm SHORT SHAFT: N/A	STANDARD SHAFT: 218mm SHORT SHAFT: N/A	36mm
55mm	55 <sup>+0.000</sup> <sub>-0.075</sub>	16 <sup>+0.043</sup> <sub>-0.000</sub>	6	49 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 219mm SHORT S-AFT: 139mm	STANDARD SHAFT: 218mm SHORT S-AFT: 139mm	
50mm	50 <sup>+0.000</sup> <sub>-0.075</sub>	14 <sup>+0.043</sup> <sub>-0.000</sub>	5.5	44.5 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 219mm SHORT SHAFT: 139mm	STANDARD SHAFT: 218mm SHORT S-AFT: 139mm	
45mm	45 <sup>+0.000</sup> <sub>-0.075</sub>	14 <sup>+0.043</sup> <sub>-0.000</sub>	5.5	39.5 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 219mm SHORT SHAFT: 139mm	STANDARD SHAFT: 218mm SHORT S-AFT: 139mm	
42mm	42 <sup>+0.000</sup> <sub>-0.075</sub>	12 <sup>+0.043</sup> <sub>-0.000</sub>	5	37 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT: 219mm SHORT SHAFT: 139mm	STANDARD S-AFT: 218mm SHORT S-AFT: 139mm	
40mm	40 <sup>+0.000</sup> <sub>-0.075</sub>	12 <sup>+0.043</sup> <sub>-0.000</sub>	5	35 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT: 219mm SHORT SHAFT: 139mm	STANDARD S-AFT: 218mm SHORT SHAFT: 139mm	
38mm	38 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	33 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT: 219mm SHORT S-AFT: 139mm	STANDARD S-AFT: 218mm SHORT SHAFT: 139mm	
35mm	35 <sup>+0.000</sup> <sub>-0.050</sub>	10 <sup>+0.036</sup> <sub>-0.000</sub>	5	30 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT: 219mm SHORT SHAFT: 139mm	STANDARD S-AFT: 218mm SHORT SHAFT: 139mm	

# REQUIREMENTS TO MOUNT TA4207H/MTA4 REDUCER ON SHAFT

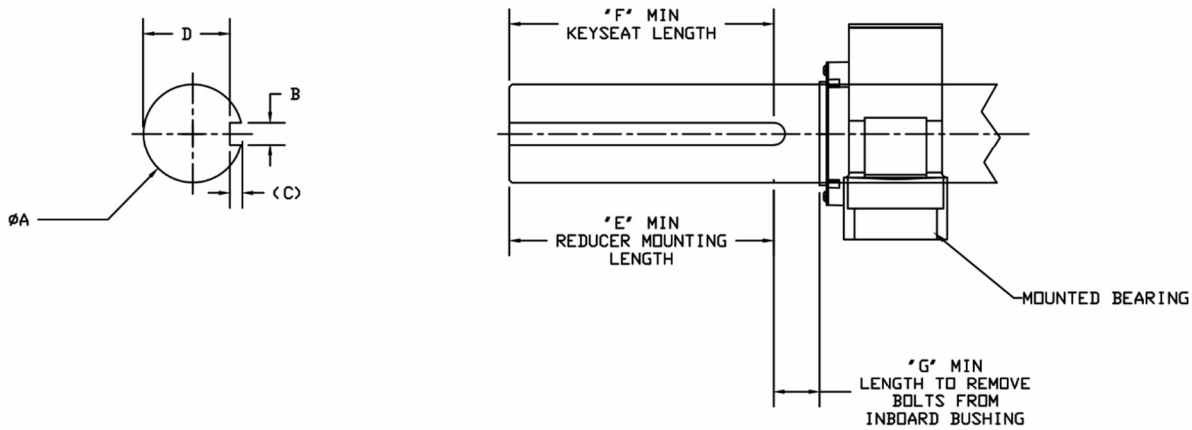


TA4207H/MTA4 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
70mm	70 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	62.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 227mm SHORT SHAFT: N/A	STANDARD SHAFT: 227mm SHORT SHAFT: N/A	36mm
65mm	65 <sup>+0.000</sup> <sub>-0.100</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	58 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	
60mm	60 <sup>+0.000</sup> <sub>-0.075</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	53 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	
55mm	55 <sup>+0.000</sup> <sub>-0.075</sub>	16 <sup>+0.043</sup> <sub>-0.000</sub>	6	49 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	
50mm	50 <sup>+0.000</sup> <sub>-0.075</sub>	14 <sup>+0.043</sup> <sub>-0.000</sub>	5.5	44.5 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	
45mm	45 <sup>+0.000</sup> <sub>-0.075</sub>	14 <sup>+0.043</sup> <sub>-0.000</sub>	5.5	39.5 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	
42mm	42 <sup>+0.000</sup> <sub>-0.075</sub>	12 <sup>+0.043</sup> <sub>-0.000</sub>	5	37 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	STANDARD SHAFT: 227mm SHORT SHAFT: 144mm	





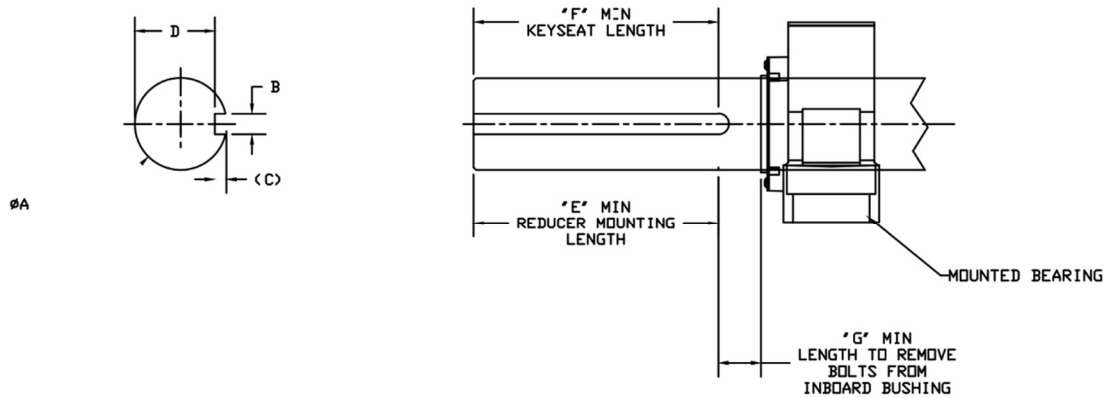
## REQUIREMENTS TO MOUNT TA5215H/MTA5 REDUCER ON SHAFT



TA5215H/MTA5 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
80mm	80 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	71 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 263mm SHORT S-AFT: N/A	STANDARD SHAFT: 263mm SHORT SHAFT: N/A	48mm
75mm	75 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	67.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD S-AFT: 263mm SHORT SHAFT: 162mm	STANDARD S-AFT: 263mm SHORT SHAFT: 162mm	
70mm	70 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	62.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 263mm SHORT S-AFT: 162mm	STANDARD SHAFT: 263mm SHORT SHAFT: 162mm	
65mm	65 <sup>+0.000</sup> <sub>-0.100</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	58 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 263mm SHORT S-AFT: 162mm	STANDARD SHAFT: 263mm SHORT SHAFT: 162mm	
60mm	60 <sup>+0.000</sup> <sub>-0.075</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	53 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT: 263mm SHORT S-AFT: 162mm	STANDARD S-AFT: 263mm SHORT SHAFT: 162mm	
55mm	55 <sup>+0.000</sup> <sub>-0.075</sub>	16 <sup>+0.043</sup> <sub>-0.000</sub>	6	49 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD S-AFT: 263mm SHORT S-AFT: 162mm	STANDARD S-AFT: 263mm SHORT SHAFT: 162mm	
50mm	50 <sup>+0.000</sup> <sub>-0.075</sub>	14 <sup>+0.043</sup> <sub>-0.000</sub>	5.5	44.5 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 263mm SHORT SHAFT: 162mm	STANDARD SHAFT: 263mm SHORT SHAFT: 162mm	

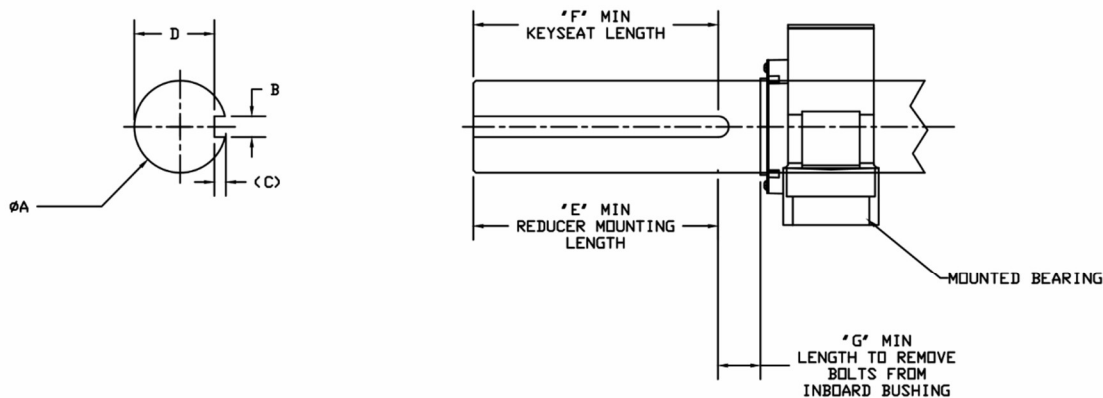


# REQUIREMENTS TO MOUNT TA6307H/MTA6 REDUCER ON SHAFT



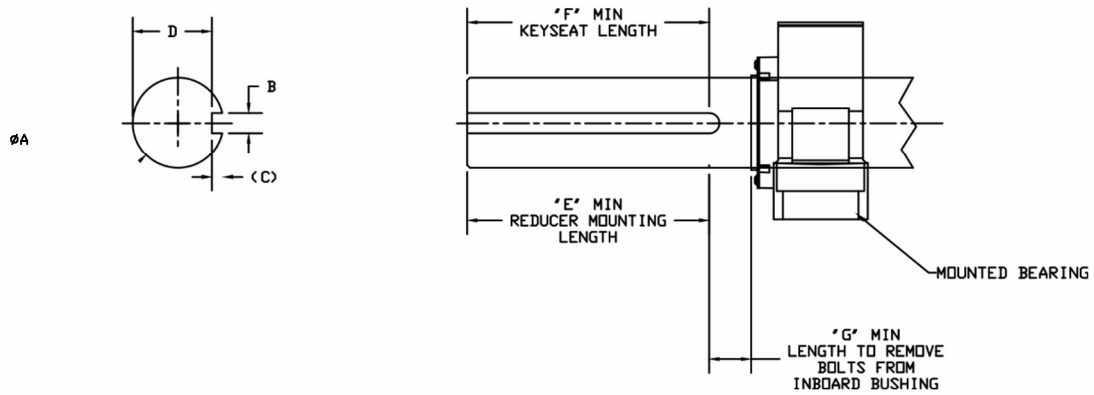
TA6307H/MTA6 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
90mm	90 <sup>+0.000</sup> <sub>-0.100</sub>	25 <sup>+0.052</sup> <sub>-0.000</sub>	9	81 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 275mm SHORT SHAFT: N/A	STANDARD SHAFT: 275mm SHORT SHAFT: N/A	48mm
85mm	85 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	76 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	
80mm	80 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	71 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	
75mm	75 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	67.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	
70mm	70 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	62.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	
65mm	65 <sup>+0.000</sup> <sub>-0.100</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	58 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	
60mm	60 <sup>+0.000</sup> <sub>-0.075</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	53 <sup>+0.000</sup> <sub>-0.130</sub>	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	STANDARD SHAFT: 275mm SHORT SHAFT: 171mm	

# REQUIREMENTS TO MOUNT TA7315H/MTA7 REDUCER ON SHAFT



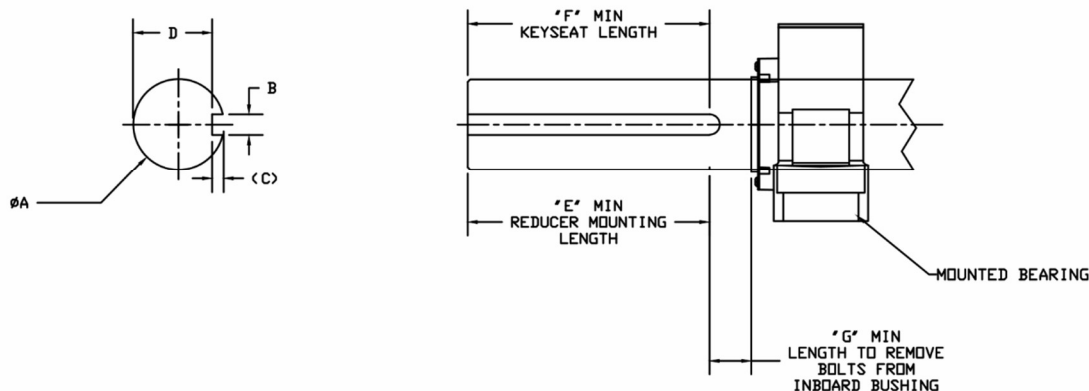
TA7315H/MTA7 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
110mm	110 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	100 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: N/A	STANDARD SHAFT: 302mm SHORT SHAFT: N/A	53mm
100mm	100 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	90 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
95mm	95 <sup>+0.000</sup> <sub>-0.100</sub>	25 <sup>+0.052</sup> <sub>-0.000</sub>	9	86 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
90mm	90 <sup>+0.000</sup> <sub>-0.100</sub>	25 <sup>+0.052</sup> <sub>-0.000</sub>	9	81 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
85mm	85 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	76 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
85mm	85 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	76 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
80mm	80 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	71 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
75mm	75 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	67.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
70mm	70 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	62.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	
65mm	65 <sup>+0.000</sup> <sub>-0.100</sub>	18 <sup>+0.043</sup> <sub>-0.000</sub>	7	58 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	STANDARD SHAFT: 302mm SHORT SHAFT: 194mm	

## REQUIREMENTS TO MOUNT TA8407H/MTA8 REDUCER ON SHAFT



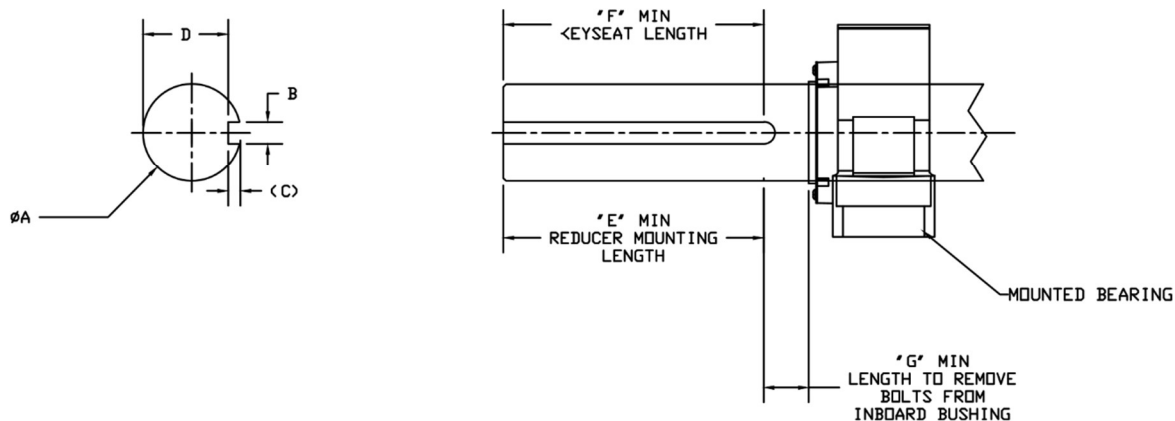
TA8407H/MTA8 REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
120mm	120 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	109 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: N/A	STANDARD SHAFT: 326mm SHORT SHAFT: N/A	53mm
110mm	110 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	100 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	
100mm	100 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	90 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	
95mm	95 <sup>+0.000</sup> <sub>-0.100</sub>	25 <sup>+0.052</sup> <sub>-0.000</sub>	9	86 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	
90mm	90 <sup>+0.000</sup> <sub>-0.100</sub>	25 <sup>+0.052</sup> <sub>-0.000</sub>	9	81 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	
85mm	85 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	76 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	
80mm	80 <sup>+0.000</sup> <sub>-0.100</sub>	22 <sup>+0.052</sup> <sub>-0.000</sub>	9	71 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	
75mm	75 <sup>+0.000</sup> <sub>-0.100</sub>	20 <sup>+0.052</sup> <sub>-0.000</sub>	7.5	67.5 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	STANDARD SHAFT: 326mm SHORT SHAFT: 206mm	

## REQUIREMENTS TO MOUNT TA9415H REDUCER ON SHAFT



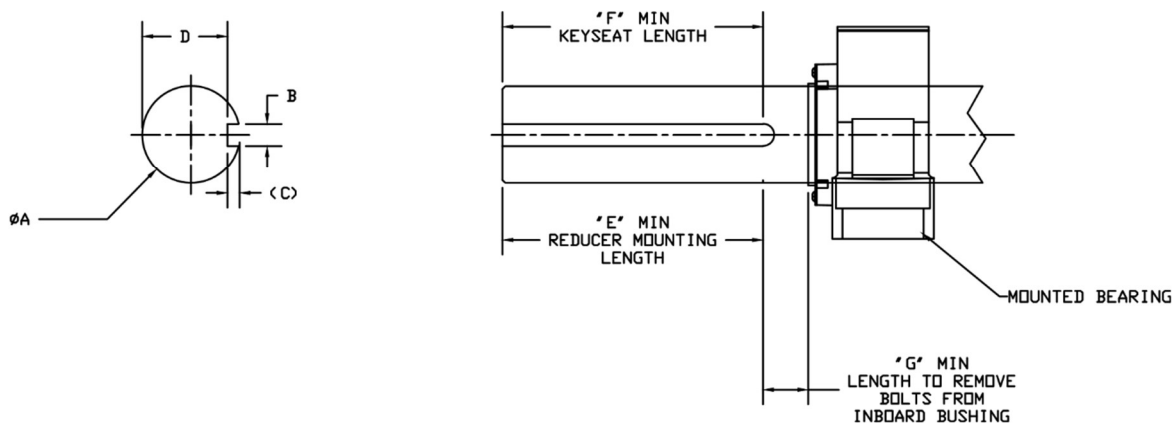
TA9415H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
130mm	130 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	119 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 349mm SHORT SHAFT: N/A	STANDARD SHAFT: 349mm SHORT SHAFT: N/A	60mm
125mm	125 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	114 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	
120mm	120 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	109 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	
110mm	110 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	100 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	
100mm	100 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	90 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	
95mm	95 <sup>+0.000</sup> <sub>-0.100</sub>	25 <sup>+0.052</sup> <sub>-0.000</sub>	9	86 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	
90mm	90 <sup>+0.000</sup> <sub>-0.100</sub>	25 <sup>+0.052</sup> <sub>-0.000</sub>	9	81 <sup>+0.000</sup> <sub>-0.150</sub>	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	STANDARD SHAFT: 349mm SHORT SHAFT: 217mm	

# REQUIREMENTS TO MOUNT TA10507H REDUCER ON SHAFT



TA10507H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
150mm	150 <sup>+0.000</sup> <sub>-0.150</sub>	36 <sup>+0.062</sup> <sub>-0.000</sub>	12	138 <sup>+0.000</sup> <sub>-0.200</sub>	STANDARD SHAFT: 393mm SHORT SHAFT: N/A	STANDARD SHAFT: 393mm SHORT SHAFT: N/A	60mm
130mm	130 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	119 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	
125mm	125 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	114 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	
120mm	120 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	109 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	
110mm	110 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	100 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	
100mm	100 <sup>+0.000</sup> <sub>-0.130</sub>	28 <sup>+0.052</sup> <sub>-0.000</sub>	10	90 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	STANDARD SHAFT: 393mm SHORT SHAFT: 246mm	

# REQUIREMENTS TO MOUNT TA12608H REDUCER ON SHAFT





TA12608H REDUCER SHAFT REQUIREMENTS							
SHAFT SIZE	A	B	C	D	E	F	G
160mm	160 <sup>+0.000</sup> <sub>-0.150</sub>	40 <sup>+0.062</sup> <sub>-0.000</sub>	13	147 <sup>+0.000</sup> <sub>-0.200</sub>	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	60mm
150mm	150 <sup>+0.000</sup> <sub>-0.150</sub>	36 <sup>+0.062</sup> <sub>-0.000</sub>	12	138 <sup>+0.000</sup> <sub>-0.200</sub>	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	
130mm	130 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	119 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	
125mm	125 <sup>+0.000</sup> <sub>-0.130</sub>	32 <sup>+0.062</sup> <sub>-0.000</sub>	11	114 <sup>+0.000</sup> <sub>-0.180</sub>	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	STANDARD SHAFT: 466mm SHORT SHAFT: 295mm	