

YORK

MODEL J, K & S RECIPROCATING COMPRESSORS TOLERANCES AND WEAR LIMITS

MAINTENANCE

Supersedes: Nothing

589

Form 180.00-M1

THE FOLLOWING TOLERANCES AND WEAR LIMITS SHOULD
BE USEFUL WHEN REBUILDING COMPRESSORS

DESCRIPTION		S COMPRESSOR		J COMPRESSOR	
		MFG. TOLERANCE	WEAR LIMIT	MFG. TOLERANCE	WEAR LIMIT
CRANKSHAFT	MAIN BEARINGS	$\frac{2.2505}{2.2500}$	.002	$\frac{3.0000}{2.9995}$	.002
	ROD JOURNALS	$\frac{2.0000}{1.9995}$	.002	$\frac{2.6250}{2.6245}$	.002
CONNECTING ROD	SHAFT JOURNAL BORE	$\frac{2.0024}{2.0031}$	.002	$\frac{2.6282}{2.6290}$	.002
	WRIST PIN BORE	$\frac{.8755}{.8758}$	.002	$\frac{1.2505}{1.2508}$	.002
CYLINDER SLEEVE	INSIDE DIAMETER	$\frac{2.6245}{2.6255}$	.002	$\frac{3.7500}{3.7515}$	.002
PISTON	TOP DIAMETER	$\frac{2.612}{2.615}$	.002	$\frac{3.7405}{3.7415}$	.002
	BOTTOM DIAMETER	$\frac{2.6186}{2.6206}$	.002	$\frac{3.745}{3.746}$	.002
	WRIST PIN HOLE DIAMETER	$\frac{.928}{.934}$	.002	$\frac{1.2502}{1.2506}$	.002
WRIST PIN	DIAMETER	$\frac{.8751}{.8754}$	.0005	$\frac{1.2497}{1.2500}$	.0005
BEARINGS	PUMP END & MOTOR END	$\frac{2.2540}{2.2525}$	.002	$\frac{3.0045}{3.0030}$	.002
VALVES	SUCTION & DISCHARGE	—	.005	—	.005
CRANKSHAFT	THRUST CLEARANCE	.010/.024	—	.014/.034	—

DESCRIPTION			R-COMPRESSOR	
			MFG. TOLERANCE	WEAR LIMIT
CRANKSHAFT	CENTER MAIN		<u>3.2450</u> 3.2440	.002
	SEAL END		<u>3.2606</u> 3.2495	.002
	PUMP END		<u>2.6250</u> 2.6245	.002
	CRANK PIN		<u>2.5250</u> 2.8245	.002
CONNECTING ROD	WRIST PIN HOLE		<u>1.2508</u> 1.2506	.002
	CRANK END HOLE		<u>2.6280</u> 2.6282	.002
	CRANK END WIDTH		<u>.8738</u> .8720	.001
CYLINDER SLEEVE	INSIDE DIAMETER		<u>3.7515</u> 3.7500	.002
PISTON	DIA. TOP	C.I.	<u>3.7415</u> 3.7405	.003
		ALUM.	<u>3.7385</u> 3.7375	.003
	DIA. BOTTOM	C.I.	<u>3.748</u> 3.745	.003
		ALUM.	<u>3.743</u> 3.741	.003
	WRIST PIN HOLE	C.I.	<u>1.2513</u> 1.2510	.002
		ALUM.	<u>1.2608</u> 1.2603	.002
WRIST PIN	DIAMETER	—	<u>1.2500</u> 1.2497	.0005

DESCRIPTION		R-COMPRESSOR	
		MFG. TOLERANCE	WEAR LIMIT
WIDTH BETWEEN CHEEKS	6 & 12 CYLINDER	<u>2.648</u> 2.638	.005
	4 CYLINDER	<u>1.771</u> 1.761	.005
	8 & 16 CYLINDER	<u>3.523</u> 3.513	.005
BEARINGS	PUMP END	<u>2.832</u> 2.829	.002
	SEAL END	<u>3.2565</u> 3.2555	.002
	CENTER MAIN (w/BRG. INSTALLED)	<u>3.2514</u> 3.2494	.002
VALVES	SUCTION & DISCHARGE	—	.005
CRANKSHAFT	THRUST CLEARANCE	.010/.030	

York
International
Corporation

Applied
Systems

Post Office
Box
1592-368E

York
Pennsylvania
17403-1592

Telephone
717 771 7898

YORK.

YORK has a policy of continuous product improvement, and reserves the right to change specifications and designs without notice.

Printed in U.S.A.

Form 180.00-M1 (589)

Copyright © by York International Corporation 1989 ALL RIGHTS RESERVED

RPC 2M 689 .10
CODE: SN