

PZ Series

The PZ expanders come equipped with three expansion rolls and a self-feeding mechanism, making them perfect for both re-rolling leaky tubes and constructing new water tube boilers, fire tube boilers, economizers, and air heaters. Upon request, these expanders are available with five rolls for more demanding applications. KRAIS K70 right-angle rolling motors are recommended for use with these expanders.



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Tube OD		Tube Gauge	Tool No.	Expansion Range				Stdandard Rolls			Mandrel			Short Mandrell Set (3 pcs.)			Square
				[mm]		[inch]		No.	Lenght		No.	Length		No.	Length		
[inch]	[mm]	[BWG]		min	max	min	max			[mm]		[inch]			[mm]	[inch]	
1"	25,40	11-12	PZ-1942	19,0	22,0	0,75	0,87	RR12/42	42	1,654	TK19	196	7,677	-	-	-	1/2
			PZ-1950	19,0	22,0	0,75	0,87	RR12/50	50	1,969	TK19	196	7,677	-	-	-	1/2
1"	25,40	13-16	PZ-2042	20,0	23,0	0,79	0,91	RR12/42	42	1,654	TK20	196	8,189	-	-	-	1/2
			PZ-2050	20,0	23,0	0,79	0,91	RR12/50	50	1,969	TK20	196	8,189	-	-	-	1/2
1-1/8"	28,58	12-14	PZ-2242	22,0	25,0	0,87	0,98	RR12/42	42	1,654	TK22	196	8,661	-	-	-	1/2
			PZ-2250	22,0	25,0	0,87	0,98	RR12/50	50	1,969	TK22	196	8,661	-	-	-	1/2
1-1/8"	28,58	14-16	PZ-2342	23,0	26,0	0,91	1,02	RR13/42	42	1,654	TK23	196	8,661	-	-	-	1/2
			PZ-2350	23,0	26,0	0,91	1,02	RR13/50	50	1,969	TK23	196	8,661	-	-	-	1/2
1-1/8"	28,58	15-17	PZ-2442	24,0	27,0	0,94	1,06	RR13/42	42	1,654	TK24	196	8,661	-	-	-	1/2
			PZ-2450	24,0	27,0	0,94	1,06	RR13/50	50	1,969	TK24	196	8,661	-	-	-	1/2
1-1/8"	28,58	16	PZ-2542	25,0	28,0	0,98	1,10	RR13/42	42	1,654	TK25	196	8,661	-	-	-	1/2
			PZ-2550	25,0	28,0	0,98	1,10	RR13/50	50	1,969	TK25	196	8,661	-	-	-	1/2
1-1/4"	31,75	12-14	PZ-2642	26,0	29,0	1,02	1,14	RR13/42	42	1,654	TK26	196	8,661	-	-	-	1/2
			PZ-2650	26,0	29,0	1,02	1,14	RR13/50	50	1,969	TK26	196	8,661	-	-	-	1/2
1-1/4"	31,75	12-17	PZ-2742	27,0	30,0	1,06	1,18	RR15/42	42	1,654	TK27	196	8,661	-	-	-	1/2
			PZ-2750	27,0	30,0	1,06	1,18	RR15/50	50	1,969	TK27	196	8,661	-	-	-	1/2
1-1/4"	31,75	16	PZ-2842	28,0	32,0	1,10	1,26	RR16/42	42	1,654	TK28	260	11,220	-	-	-	3/4
			PZ-2850	28,0	32,0	1,10	1,26	RR16/50	50	1,969	TK28	260	11,220	-	-	-	3/4
1-1/2"	38,10	7-11	PZ-2942	29,0	33,0	1,14	1,30	RR16/42	42	1,654	TK29	260	11,220	-	-	-	3/4
			PZ-2950	29,0	33,0	1,14	1,30	RR16/50	50	1,969	TK29	260	11,220	-	-	-	3/4
1-1/2"	38,10	10-12	PZ-3042	30,0	34,0	1,18	1,34	RR16/42	42	1,654	TK30	260	11,220	-	-	-	3/4
			PZ-3050	30,0	34,0	1,18	1,34	RR16/50	50	1,969	TK30	260	11,220	-	-	-	3/4
1-1/2"	38,10	13-16	PZ-3242	32,0	36,0	1,26	1,42	RR17/42	42	1,654	TK32	260	10,236	-	-	-	3/4
			PZ-3250	32,0	36,0	1,26	1,42	RR17/50	50	1,969	TK32	260	10,236	-	-	-	3/4
1-1/2"	38,10	13-20	PZ-3342	33,0	38,0	1,30	1,50	RP33/42	42	1,654	TK33	290	11,417	TKK33	181,00	7,126	3/4
			PZ-3350	33,0	38,0	1,30	1,50	RP33/50	50	1,969	TK33	290	11,417	TKK33	181,00	7,126	3/4
1-3/4"	44,45	8-9	PZ-3542	35,0	41,0	1,38	1,61	RR21/42	42	1,654	TK37	310	12,205	TKK37	188,00	7,402	3/4
			PZ-3550	35,0	41,0	1,38	1,61	RR21/50	50	1,969	TK37	310	12,205	TKK37	188,00	7,402	3/4
1-3/4"	44,45	10-16	PZ-3742	37,0	43,0	1,46	1,69	RR22/42	42	1,654	TK37	310	12,205	TKK37	188,00	7,402	3/4
			PZ-3750	37,0	43,0	1,46	1,69	RR22/50	50	1,969	TK37	310	12,205	TKK37	188,00	7,402	3/4
1-3/4"	44,45	12-18	PZ-3942	39,0	45,0	1,54	1,77	RR40/42	42	1,654	TK37	310	12,205	TKK37	188,00	7,402	3/4
			PZ-3950	39,0	45,0	1,54	1,77	RR40/50	50	1,969	TK37	310	12,205	TKK37	188,00	7,402	3/4
2"	50,80	7-10	PZ-4050	40,0	46,0	1,57	1,81	RR40/50	50	1,969	TK42	310	12,205	TKK42	205,00	8,071	3/4
			PZ-4080	40,0	46,0	1,57	1,81	RR40/80	80	3,150	TK42	310	12,205	TKK42	205,00	8,071	3/4

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Tube OD		Tube Gauge	Tool No.	Expansion Range				Stdandard Rolls			Mandrel			Short Mandrell Set (3 pcs.)			Square
				[mm]		[inch]		No.	Lenght		No.	Length		No.	Length		
[inch]	[mm]	[BWG]		min	max	min	max			[mm]		[inch]			[mm]	[inch]	
2"	50,80	11-12	PZ-4250	42,0	48,0	1,65	1,89	RR23/50	50	1,969	TK42	310	12,205	TKK42	205,00	8,071	3/4
			PZ-4280	42,0	48,0	1,65	1,89	RR23/80	80	3,150	TK42	310	12,205	TKK42	205,00	8,071	3/4
2"	50,80	13-15	PZ-4450	44,0	50,0	1,73	1,97	RR23/50	50	1,969	TK44	310	12,205	TKK44	205,00	8,071	3/4
			PZ-4480	44,0	50,0	1,73	1,97	RR23/80	80	3,150	TK44	310	12,205	TKK44	205,00	8,071	3/4
2"	50,80	15-16	PZ-4750	47,0	54,0	1,85	2,13	RR24/50	50	1,969	TK47	340	13,307	TKK47	218,00	8,583	3/4
			PZ-4780	47,0	54,0	1,85	2,13	RR24/80	80	3,150	TK47	340	13,307	TKK47	218,00	8,583	3/4
2-1/4"	57,15	10-12	PZ-4950	49,0	56,0	1,93	2,20	RR24/50	50	1,969	TK49	340	13,307	TKK49	218,00	8,583	3/4
			PZ-4980	49,0	56,0	1,93	2,20	RR24/80	80	3,150	TK49	340	13,307	TKK49	218,00	8,583	3/4
2-1/4"	57,15	14-16	PZ-5250	52,0	59,0	2,05	2,32	RR25/50	50	1,969	TK49	340	13,307	TKK49	218,00	8,583	3/4
			PZ-5280	52,0	59,0	2,05	2,32	RR25/80	80	3,150	TK49	340	13,307	TKK49	218,00	8,583	3/4
2-1/2"	63,50	11-12	PZ-5450	54,0	62,0	2,13	2,44	RR26/50	50	1,969	TK54	375	14,764	TKK54	230,00	9,055	3/4
			PZ-5480	54,0	62,0	2,13	2,44	RR26/80	80	3,150	TK54	375	14,764	TKK54	230,00	9,055	3/4
2-1/2"	63,50	13-16	PZ-5750	57,0	66,0	2,24	2,60	RR27/50	50	1,969	TK57	395	15,551	TKK57	235,00	9,252	3/4
			PZ-5780	57,0	66,0	2,24	2,60	RR27/80	80	3,150	TK57	395	15,551	TKK57	235,00	9,252	3/4
2-3/4"	69,85	7-11	PZ-6050	60,0	69,0	2,36	2,72	RR28/50	50	1,969	TK57	395	15,551	TKK57	235,00	9,252	3/4
			PZ-6080	60,0	69,0	2,36	2,72	RR28/80	80	3,150	TK57	395	15,551	TKK57	235,00	9,252	3/4
3"	76,20	7-11	PZ-6550	65,0	74,0	2,56	2,91	RR29/50	50	1,969	TK65	395	15,551	TKK65	235,00	9,252	3/4
			PZ-6580	65,0	74,0	2,56	2,91	RR29/80	80	3,150	TK65	395	15,551	TKK65	235,00	9,252	3/4
3"	76,20	12-13	PZ-6850	68,0	77,0	2,68	3,03	RR30/50	50	1,969	TK72	403	15,866	TKK72	255,00	10,039	1
			PZ-6880	68,0	77,0	2,68	3,03	RR30/80	80	3,150	TK72	403	15,866	TKK72	255,00	10,039	1
3-1/4"	82,55	7-12	PZ-7250	72,0	81,0	2,83	3,19	RR31/50	50	1,969	TK72	403	15,866	TKK72	255,00	10,039	1
			PZ-7280	72,0	81,0	2,83	3,19	RR31/80	80	3,150	TK72	403	15,866	TKK72	255,00	10,039	1
3-1/4"	82,55	13-16	PZ-7750	77,0	87,0	3,03	3,43	RR32/50	50	1,969	TK77	422	16,614	TKK77	255,00	10,039	1
			PZ-7780	77,0	87,0	3,03	3,43	RR32/80	80	3,150	TK77	422	16,614	TKK77	255,00	10,039	1
3-1/2"	88,90	10-16	PZ-8250	82,0	92,0	3,23	3,62	RR33/50	50	1,969	TK82	422	16,614	TKK82	255,00	10,039	1
			PZ-8280	82,0	92,0	3,23	3,62	RR33/80	80	3,150	TK82	422	16,614	TKK82	255,00	10,039	1
3-3/4"	95,25	7-12	PZ-8650	86,0	96,0	3,39	3,78	RR34/50	50	1,969	TK86	422	16,614	TKK86	255,00	10,039	1
			PZ-8680	86,0	96,0	3,39	3,78	RR34/80	80	3,150	TK86	422	16,614	TKK86	255,00	10,039	1
4"	101,60	8-12	PZ-9050	90,0	100,0	3,54	3,94	RR34/50	50	1,969	TK90	422	16,614	TKK90	275,00	10,827	1
			PZ-9080	90,0	100,0	3,54	3,94	RR34/80	80	3,150	TK90	422	16,614	TKK90	275,00	10,827	1
4"	101,60	13-16	PZ-9650	96,0	106,0	3,78	4,17	RR35/50	50	1,969	TK96	422	16,614	TKK96	275,00	10,827	1
			PZ-9680	96,0	106,0	3,78	4,17	RR35/80	80	3,150	TK96	422	16,614	TKK96	275,00	10,827	1

* 100 mm roll length made to order, only if technically possible!

SHORTER EXPANSION LENGTH



If you require expanding shorter expansion length than a standard expander, we can supply the reduction collar SC (you can specify desired length in order e.g. PZ-4280/60).