

PZ Series

Three expansion rolls, self feeding tube expanders. An excellent expander for re-rolling leaky tubes and for new constructions of water tube boilers, fire tube boilers, economizers and air heaters.

Expanders with 4, 5 and 7 rolls are available on request.

Our K70's right-angle rolling motors are recommended to be used with this expanders.



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	195	7,677	-	-	-	1/2
			PZ-1950	19,0	22,0	0,75	0,87	RR12/50	50	1,969	TK19	195	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	208	8,189	-	-	-	1/2
			PZ-2050	20,0	23,0	0,79	0,91	RR12/50	50	1,969	TK20	208	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	220	8,661	-	-	-	1/2
			PZ-2250	22,0	25,0	0,87	0,98	RR12/50	50	1,969	TK22	220	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	220	8,661	-	-	-	1/2
			PZ-2350	23,0	26,0	0,91	1,02	RR13/50	50	1,969	TK23	220	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	220	8,661	-	-	-	1/2
			PZ-2450	24,0	27,0	0,94	1,06	RR13/50	50	1,969	TK24	220	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	220	8,661	-	-	-	1/2
			PZ-2550	25,0	28,0	0,98	1,10	RR13/50	50	1,969	TK25	220	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	220	8,661	-	-	-	1/2
			PZ-2650	26,0	29,0	1,02	1,14	RR13/50	50	1,969	TK26	220	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	220	8,661	-	-	-	1/2
			PZ-2750	27,0	30,0	1,06	1,18	RR15/50	50	1,969	TK27	220	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	285	11,220	-	-	-	3/4
			PZ-2850	28,0	32,0	1,10	1,26	RR16/50	50	1,969	TK28	285	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	285	11,220	-	-	-	3/4
			PZ-2950	29,0	33,0	1,14	1,30	RR16/50	50	1,969	TK29	285	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	285	11,220	-	-	-	3/4
			PZ-3050	30,0	34,0	1,18	1,34	RR16/50	50	1,969	TK30	285	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
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	338	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	338	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	338	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	338	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	338	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	338	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

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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]	
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).