

FTKS-L Flare Type Series

The FTKS-L expander stands out for its self-feeding mechanism that combines three expansion rolls and three flare rolls, allowing for simultaneous tube expansion and flaring. An adjustable thrust collar ensures friction-free operation, longer tool life, and consistent flare length. This expander is highly effective for re-rolling leaky tubes and new installations in water tube boilers, fire tube boilers, economizers, and air heaters. KRAIS K70 right-angle rolling motors are recommended for use with this tool.



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Tube OD		Tube Gauge	Tool No.	Expansion Range				Standard 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]	
1-1/4"	31,75	16	FTKS-2842-L	28,0	31,5	1,10	1,24	RR16RK8	42	1,654	T-300	375	14,764	PTK28	175	6,890	3/4
			FTKS-2880-L	28,0	31,5	1,10	1,24	RR16RK8/80	80	3,150	T-300	375	14,764	PTK28	175	6,890	3/4
1-1/2"	38,10	7-10	FTKS-2942-L	29,0	32,5	1,14	1,28	RR16RK8	42	1,654	T-300	375	14,764	PTK29	175	6,890	3/4
			FTKS-2980-L	29,0	32,5	1,14	1,28	RR16RK8/80	80	3,150	T-300	375	14,764	PTK29	175	6,890	3/4
1-1/2"	38,10	10-12	FTKS-3042-L	30,0	33,5	1,18	1,32	RR16RK8	42	1,654	T-300	375	14,764	PTK30	175	6,890	3/4
			FTKS-3080-L	30,0	33,5	1,18	1,32	RR16RK8/80	80	3,150	T-300	375	14,764	PTK30	175	6,890	3/4
1-1/2"	38,10	12-14	FTKS-3242-L	32,0	35,5	1,26	1,40	RR17RK9	42	1,654	T-320	385	15,157	PTK32	175	6,890	3/4
			FTKS-3280-L	32,0	35,5	1,26	1,40	RR17RK9/80	80	3,150	T-320	385	15,157	PTK32	175	6,890	3/4
1-1/2"	38,10	13-20	FTKS-3342-L	33,0	36,5	1,30	1,44	RP33RR33	42	1,654	T-320	385	15,157	PTK33	181	7,126	3/4
			FTKS-3380-L	33,0	36,5	1,30	1,44	RP33RR33/80	80	3,150	T-320	385	15,157	PTK33	181	7,126	3/4
1-3/4"	44,45	8-9	FTKS-3542-L	35,0	40,5	1,38	1,59	RR21RK35	42	1,654	T-370	410	16,142	PTK37	188	7,402	3/4
			FTKS-3580-L	35,0	40,5	1,38	1,59	RR21RK35/80	80	3,150	T-370	410	16,142	PTK37	188	7,402	3/4
1-3/4"	44,45	10-12	FTKS-3742-L	37,0	42,5	1,46	1,67	RR22RK10	42	1,654	T-370	410	16,142	PTK37	188	7,402	3/4
			FTKS-3780-L	37,0	42,5	1,46	1,67	RR22RK10/80	80	3,150	T-370	410	16,142	PTK37	188	7,402	3/4
1-3/4"	44,45	12-18	FTKS-3950-L	39,0	44,5	1,54	1,75	RR40RK40	50	1,654	T-370	410	16,142	PTK37	188	7,402	3/4
			FTKS-3980-L	39,0	44,5	1,54	1,75	RR40RK40/80	80	3,150	T-370	410	16,142	PTK37	188	7,402	3/4
2"	50,80	7-9	FTKS-4050-L	40,0	45,5	1,57	1,79	RR40RK40	50	1,969	T-420	410	16,142	PTK42	205	8,071	3/4
			FTKS-4080-L	40,0	45,5	1,57	1,79	RR40RK40/80	80	3,150	T-420	410	16,142	PTK42	205	8,071	3/4
2"	50,80	10-13	FTKS-4250-L	42,0	47,5	1,65	1,87	RR23RK11	50	1,969	T-420	410	16,142	PTK42	205	8,071	3/4
			FTKS-4280-L	42,0	47,5	1,65	1,87	RR23RK11/80	80	3,150	T-420	410	16,142	PTK42	205	8,071	3/4
2"	50,80	12-14	FTKS-4450-L	44,0	49,5	1,73	1,95	RR23RK11	50	1,969	T-440	410	16,142	PTK44	205	8,071	3/4
			FTKS-4480-L	44,0	49,5	1,73	1,95	RR23RK11/80	80	3,150	T-440	410	16,142	PTK44	205	8,071	3/4
2"	50,80	16	FTKS-4750-L	47,0	53,5	1,85	2,11	RR24RK12	50	1,969	T-470	435	17,126	PTK47	218	8,583	3/4
			FTKS-4780-L	47,0	53,5	1,85	2,11	RR24RK12/80	80	3,150	T-470	435	17,126	PTK47	218	8,583	3/4
2-1/4"	57,15	10-13	FTKS-4950-L	49,0	55,5	1,93	2,19	RR24RK12	50	1,969	T-490	435	17,126	PTK49	218	8,583	3/4
			FTKS-4980-L	49,0	55,5	1,93	2,19	RR24RK12/80	80	3,150	T-490	435	17,126	PTK49	218	8,583	3/4
2-1/4"	57,15	14-16	FTKS-5250-L	52,0	58,5	2,05	2,30	RR25RK13	50	1,969	T-490	435	17,126	PTK49	218	8,583	3/4
			FTKS-5280-L	52,0	58,5	2,05	2,30	RR25RK13/80	80	3,150	T-490	435	17,126	PTK49	218	8,583	3/4
2-1/2"	63,50	8-13	FTKS-5450-L	54,0	61,5	2,13	2,42	RR26RK14	50	1,969	T-540	470	18,504	PTK54	230	9,055	3/4
			FTKS-5480-L	54,0	61,5	2,13	2,42	RR26RK14/80	80	3,150	T-540	470	18,504	PTK54	230	9,055	3/4

Tube OD		Tube Gauge	Tool No.	Expansion Range				Standard 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]	
2-1/2"	63,50	12-16	FTKS-5750-L	57,0	65,5	2,24	2,58	RR27RK15	50	1,969	T-570	500	19,685	PTK57	235	9,252	3/4
			FTKS-5780-L	57,0	65,5	2,24	2,58	RR27RK15/80	80	3,150	T-570	500	19,685	PTK57	235	9,252	3/4
2-3/4"	69,85	7-11	FTKS-6050-L	60,0	68,5	2,36	2,70	RR28RK16	50	1,969	T-570	500	19,685	PTK57	235	9,252	3/4
			FTKS-6080-L	60,0	68,5	2,36	2,70	RR28RK16/80	80	3,150	T-570	500	19,685	PTK57	235	9,252	3/4
3"	76,20	7-8	FTKS-6550-L	65,0	73,5	2,56	2,89	RR29RK17	50	1,969	T-650	500	19,685	PTK65	235	9,252	3/4
			FTKS-6580-L	65,0	73,5	2,56	2,89	RR29RK17/80	80	3,150	T-650	500	19,685	PTK65	235	9,252	3/4
3"	76,20	10-14	FTKS-6850-L	68,0	76,5	2,68	3,01	RR30RK18	50	1,969	T-720	530	20,866	PTK72	255	10,039	1
			FTKS-6880-L	68,0	76,5	2,68	3,01	RR30RK18/80	80	3,150	T-720	530	20,866	PTK72	255	10,039	1
3-1/4"	82,55	7-11	FTKS-7250-L	72,0	80,5	2,83	3,17	RR31RK19	50	1,969	T-720	530	20,866	PTK72	255	10,039	1
			FTKS-7280-L	72,0	80,5	2,83	3,17	RR31RK19/80	80	3,150	T-720	530	20,866	PTK72	255	10,039	1
3-1/4"	82,55	15-16	FTKS-7750-L	77,0	86,5	3,03	3,41	RR32RK20	50	1,969	T-770	530	20,866	PTK77	255	10,039	1
			FTKS-7780-L	77,0	86,5	3,03	3,41	RR32RK20/80	80	3,150	T-770	530	20,866	PTK77	255	10,039	1
3-1/2"	88,90	10-13	FTKS-8250-L	82,0	91,5	3,23	3,60	RR33RK21	50	1,969	T-820	530	20,866	PTK82	255	10,039	1
			FTKS-8280-L	82,0	91,5	3,23	3,60	RR33RK21/80	80	3,150	T-820	530	20,866	PTK82	255	10,039	1
3-3/4"	95,25	8-12	FTKS-8650-L	86,0	95,5	3,39	3,76	RR34RK22	50	1,969	T-860	530	20,866	PTK86	255	10,039	1
			FTKS-8680-L	86,0	95,5	3,39	3,76	RR34RK22/80	80	3,150	T-860	530	20,866	PTK86	255	10,039	1
4"	101,60	9-12	FTKS-9050-L	90,0	99,5	3,54	3,92	RR34RK22	50	1,969	T-900	530	20,866	PTK90	275	10,827	1
			FTKS-9080-L	90,0	99,5	3,54	3,92	RR34RK22/80	80	3,150	T-900	530	20,866	PTK90	275	10,827	1
4"	101,60	16	FTKS-9650-L	96,0	105,5	3,78	4,15	RR35RK23	50	1,969	T-960	530	20,866	PTK96	275	10,827	1
			FTKS-9680-L	96,0	105,5	3,78	4,15	RR35RK23/80	80	3,150	T-960	530	20,866	PTK96	275	10,827	1