

PZ Series

[View product here](#)

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 | | | | Standard Rolls | | | | Mandrel | | Short Mandrel Set (3 pcs.) | | | Square | |
|---------|------------|----------|-----------------|------|--------|------|----------------|---------|--------|-------|---------|--------|----------------------------|--------|--------|--------|-----|
| | | | [mm] | | [inch] | | No. | Length | | No. | Length | | No. | Length | | | |
| [inch] | [mm] | [BWG] | min | max | min | max | | [mm] | [inch] | | [mm] | [inch] | | [mm] | [inch] | [mm] | |
| 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 |

PZ Series

[View product here](#)

| Tube OD | | Tube Gauge | Tool No. | Expansion Range | | | | Standard Rolls | | | Mandrel | | Short Mandrel Set (3 pcs.) | | | Square | |
|---------|--------|------------|----------------|-----------------|-------|--------|------|----------------|--------|--------|-------------|--------|----------------------------|-------|--------|--------|--------|
| [inch] | [mm] | | | [mm] | | [inch] | | No. | Length | | No. | Length | | No. | Length | | |
| | | | | min | max | min | max | | [mm] | [inch] | | [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).