

4. Choose the appropriate expanding sleeve(s)

1/2 length sleeve, extended length & dual length sleeves available

KEM-AS					
STANDARD SLEEVE			FLUSH SLEEVE		
Nominal Sleeve Ø	Gripping Range mm	Part Number	Nominal Sleeve Ø	Gripping Range mm	Part Number
12.50	12.40 - 12.90	92.000.210.1250	16.50	16.40 - 16.90	92.001.210.1650
13.00	12.90 - 13.40	92.000.210.1300	17.00	16.90 - 17.40	92.001.210.1700
13.50	13.40 - 13.90	92.000.210.1350	17.50	17.40 - 17.90	92.001.210.1750
14.00	13.90 - 14.40	92.000.210.1400	18.00	17.90 - 18.40	92.001.210.1800
14.50	14.40 - 14.90	92.000.210.1450	18.50	18.40 - 18.90	92.001.210.1850
15.00	14.90 - 15.40	92.000.210.1500	19.00	18.90 - 19.40	92.001.210.1900
15.50	15.40 - 15.90	92.000.210.1550	19.50	19.40 - 19.90	92.001.210.1950
16.00	15.90 - 16.40	92.000.210.1600	20.00	19.90 - 20.40	92.001.210.2000
			20.50	20.40 - 20.90	92.001.210.2050
			21.00	20.90 - 21.40	92.001.210.2100
			21.50	21.40 - 21.90	92.001.210.2150
			22.00	21.90 - 22.40	92.001.210.2200

KEM-BS					
STANDARD SLEEVE			FLUSH SLEEVE		
Nominal Sleeve Ø	Gripping Range mm	Part Number	Nominal Sleeve Ø	Gripping Range mm	Part Number
16.00	15.90 - 16.40	92.050.210.1600	22.00	21.90 - 22.70	92.051.210.2200
16.50	16.40 - 16.90	92.050.210.1650	22.80	22.70 - 23.50	92.051.210.2280
17.00	16.90 - 17.40	92.050.210.1700	23.60	23.50 - 24.30	92.051.210.2360
17.50	17.40 - 17.90	92.050.210.1750	24.40	24.30 - 25.10	92.051.210.2440
18.00	17.90 - 18.40	92.050.210.1800	25.20	25.10 - 25.90	92.051.210.2520
18.50	18.40 - 18.90	92.050.210.1850	26.00	25.90 - 26.70	92.051.210.2600
19.00	18.90 - 19.40	92.050.210.1900	26.80	26.70 - 27.50	92.051.210.2680
19.50	19.40 - 19.90	92.050.210.1950	27.60	27.50 - 28.30	92.051.210.2760
20.00	19.90 - 20.40	92.050.210.2000	28.40	28.30 - 29.10	92.051.210.2840
20.50	20.40 - 20.90	92.050.210.2050			
21.00	20.90 - 21.40	92.050.210.2100			
21.50	21.40 - 21.90	92.050.210.2150			
22.00	21.90 - 22.40	92.050.210.2200			

KEM-CS					
STANDARD SLEEVE			FLUSH SLEEVE		
Nominal Sleeve Ø	Gripping Range mm	Part Number	Nominal Sleeve Ø	Gripping Range mm	Part Number
22.00	21.90 - 22.70	92.100.210.2200	28.40	28.30 - 29.10	92.101.210.2840
22.80	22.70 - 23.50	92.100.210.2280	29.20	29.10 - 29.90	92.101.210.2920
23.60	23.50 - 24.30	92.100.210.2360	30.00	29.90 - 30.70	92.101.210.3000
24.40	24.30 - 25.10	92.100.210.2440	30.80	30.70 - 31.50	92.101.210.3080
25.20	25.10 - 25.90	92.100.210.2520	31.60	31.50 - 32.30	92.101.210.3160
26.00	25.90 - 26.70	92.100.210.2600	32.40	32.30 - 33.10	92.101.210.3240
26.80	26.70 - 27.50	92.100.210.2680	33.20	33.10 - 33.90	92.101.210.3320
27.60	27.50 - 28.30	92.100.210.2760	34.00	33.90 - 34.70	92.101.210.3400
28.40	28.30 - 29.10	92.100.210.2840	34.80	34.70 - 35.50	92.101.210.3480
			35.60	35.50 - 36.30	92.101.210.3560
			36.40	36.30 - 37.10	92.101.210.3640
			37.20	37.10 - 37.90	92.101.210.3720
			38.00	37.90 - 38.70	92.101.210.3800
			38.80	38.70 - 39.50	92.101.210.3880
			39.60	39.50 - 40.30	92.101.210.3960

KEM-DS					
STANDARD SLEEVE			FLUSH SLEEVE		
Nominal Sleeve Ø	Gripping Range mm	Part Number	Nominal Sleeve Ø	Gripping Range mm	Part Number
28.40	28.30 - 29.10	92.150.210.2840	39.60	39.50 - 40.30	92.151.210.3960
29.20	29.10 - 29.90	92.150.210.2920	40.40	40.30 - 41.10	92.151.210.4040
30.00	29.90 - 30.70	92.150.210.3000	41.20	41.10 - 41.90	92.151.210.4120
30.80	30.70 - 31.50	92.150.210.3080	42.00	41.90 - 42.70	92.151.210.4200
31.60	31.50 - 32.30	92.150.210.3160	42.80	42.70 - 43.50	92.151.210.4280
32.40	32.30 - 33.10	92.150.210.3240	43.60	43.50 - 44.30	92.151.210.4360
33.20	33.10 - 33.90	92.150.210.3320	44.40	44.30 - 45.10	92.151.210.4440
34.00	33.90 - 34.70	92.150.210.3400	45.20	45.10 - 45.90	92.151.210.4520
34.80	34.70 - 35.50	92.150.210.3480	46.00	45.90 - 46.70	92.151.210.4600
35.60	35.50 - 36.30	92.150.210.3560	46.80	46.70 - 47.50	92.151.210.4680
36.40	36.30 - 37.10	92.150.210.3640	47.60	47.50 - 48.30	92.151.210.4760
37.20	37.10 - 37.90	92.150.210.3720	48.40	48.30 - 49.10	92.151.210.4840
38.00	37.90 - 38.70	92.150.210.3800	49.20	49.10 - 49.90	92.151.210.4920
38.80	38.70 - 39.50	92.150.210.3880	50.00	49.90 - 50.70	92.151.210.5000
39.60	39.50 - 40.30	92.150.210.3960	50.80	50.70 - 51.50	92.151.210.5080
40.40	40.30 - 41.10	92.150.210.4040			
41.20	41.10 - 41.90	92.150.210.4120			

KEM-ES					
STANDARD SLEEVE			FLUSH SLEEVE		
Nominal Sleeve Ø	Gripping Range mm	Part Number	Nominal Sleeve Ø	Gripping Range mm	Part Number
41.20	41.10 - 41.90	92.200.210.4120	50.80	50.70 - 51.50	92.201.210.5080
42.00	41.90 - 42.70	92.200.210.4200	51.60	51.50 - 52.30	92.201.210.5160
42.80	42.70 - 43.50	92.200.210.4280	52.40	52.30 - 53.10	92.201.210.5240
43.60	43.50 - 44.30	92.200.210.4360	53.20	53.10 - 53.90	92.201.210.5320
44.40	44.30 - 45.10	92.200.210.4440	54.00	53.90 - 54.70	92.201.210.5400
45.20	45.10 - 45.90	92.200.210.4520	54.80	54.70 - 55.50	92.201.210.5480
46.00	45.90 - 46.70	92.200.210.4600	55.60	55.50 - 56.30	92.201.210.5560
46.80	46.70 - 47.50	92.200.210.4680	56.40	56.30 - 57.10	92.201.210.5640
47.60	47.50 - 48.30	92.200.210.4760	57.20	57.10 - 57.90	92.201.210.5720
48.40	48.30 - 49.10	92.200.210.4840	58.00	57.90 - 58.70	92.201.210.5800
49.20	49.10 - 49.90	92.200.210.4920	58.80	58.70 - 59.50	92.201.210.5880
50.00	49.90 - 50.70	92.200.210.5000	59.60	59.50 - 60.30	92.201.210.5960
50.80	50.70 - 51.50	92.200.210.5080	60.40	60.30 - 61.10	92.201.210.6040
51.60	51.50 - 52.30	92.200.210.5160	61.20	61.10 - 61.90	92.201.210.6120
52.40	52.30 - 53.10	92.200.210.5240	62.00	61.90 - 62.70	92.201.210.6200
53.20	53.10 - 53.90	92.200.210.5320	62.80	62.70 - 63.50	92.201.210.6280
54.00	53.90 - 54.70	92.200.210.5400	63.60	63.50 - 64.30	92.201.210.6360
54.80	54.70 - 55.50	92.200.210.5480	64.40	64.30 - 65.10	92.201.210.6440
55.60	55.50 - 56.30	92.200.210.5560	65.20	65.10 - 65.90	92.201.210.6520
56.40	56.30 - 57.10	92.200.210.5640	66.00	65.90 - 66.70	92.201.210.6600
57.20	57.10 - 57.90	92.200.210.5720	66.80	66.70 - 67.50	92.201.210.6680
58.00	57.90 - 58.70	92.200.210.5800	67.60	67.50 - 68.30	92.201.210.6760
58.80	58.70 - 59.50	92.200.210.5880	68.40	68.30 - 69.10	92.201.210.6840
59.60	59.50 - 60.30	92.200.210.5960	69.20	69.10 - 69.90	92.201.210.6920
60.40	60.30 - 61.10	92.200.210.6040	70.00	69.90 - 70.70	92.201.210.7000
61.20	61.10 - 61.90	92.200.210.6120	70.80	70.70 - 71.50	92.201.210.7080
62.00	61.90 - 62.70	92.200.210.6200	71.60	71.50 - 72.30	92.201.210.7160
62.80	62.70 - 63.50	92.200.210.6280	72.40	72.30 - 73.10	92.201.210.7240
			73.20	73.10 - 73.90	92.201.210.7320
			74.00	73.90 - 74.70	92.201.210.7400
			74.80	74.70 - 75.50	92.201.210.7480
			75.60	75.50 - 76.30	92.201.210.7560
			76.40	76.30 - 77.10	92.201.210.7640
			77.20	77.10 - 77.90	92.201.210.7720
			78.00	77.90 - 78.70	92.201.210.7800
			78.80	78.70 - 79.50	92.201.210.7880
			79.60	79.50 - 80.30	92.201.210.7960
			80.40	80.30 - 81.10	92.201.210.8040
			81.20	81.10 - 81.90	92.201.210.8120
			82.00	81.90 - 82.70	92.201.210.8200

- All expanding sleeves are bonded to ensure they are fully sealed against coolant and chip penetration
- A double-angle design of KEM Expanding Mandrels provides parallel expansion of the sleeve for full-length workpiece contact and ensures positive release when the part is unclamped
- All expanding sleeves collapse 0.1mm below nominal ground sleeve diameter size to ensure easy workpiece loading and unloading