

TELESCOPIC BRUSHES and INSERTS GP.TB Series



Telescopic Brushes

for ZF Clutches EK 1 to EK 320 (Wet and Dry Applications)



Telescopic Brushes Carbon Dry Applications



Dual Slip Ring Brushes for Wet & Dry Operations



TELESCOPIC BRUSHES

Telescopic Brushes

for Stromag / Ortlinghaus / Hied & other Multi Disc Slip Ring Clutches



M 16 x 1.5



M 14 x 1.5

Telescopic Brushes

for ETM Series (Russian Clutches)



M 22 x 1.5



M 16 x 1.5

M 18 x 1.5

Telescopic Brushes

as per Sample or Drawings



Current supply brushes for slipping-type clutches

Selection and ordering data

Insertion Length / mm	Current supply brushes				Brush inserts		
	ZF type	Order No.	weight approx. g	Colour code	ZF type	Order No.	weight approx. g

Wet Operation

14 ¹⁾	SK 4	2LZ2 060-0AA	32	green	SK 4 E	2LZ2 080-0AA	6			
14 ¹⁾	TSK 6/16	2LZ2 061-0AA	40	yellow	TSK 6/16 E	2LZ2 081-0AA	7			
22 ¹⁾	TSN 6/16	2LZ2 062-0AB	44	yellow	TSN 6/16 E	2LZ2 082-0AB	10			
30	TSL 6/16	2LZ2 063-0AC	55	yellow	TSL 6/16 E	2LZ2 083-0AC	15			
40		2LZ2 063-0AD	59			2LZ2 083-0AD	15			
50		2LZ2 063-0AE	64			2LZ2 083-0AE	15			
60		2LZ2 063-0AF	70			2LZ2 083-0AF	18			
70		2LZ2 063-0AG	74			2LZ2 083-0AG	18			
80		2LZ2 063-0AH	79			2LZ2 083-0AH	18			
90		2LZ2 063-0AJ	82			2LZ2 083-0AJ	18			
100 ²⁾		2LZ2 063-0AK	85			2LZ2 083-0AK	22			
22 ¹⁾		TSN 8	2LZ2 064-0AB			54	red		2LZ2 084-0AB	12
30		TSL 8	2LZ2 065-0AC			65			2LZ2 085-0AC	15
40	2LZ2 065-0AD		71	2LZ2 085-0AD	15					
50	2LZ2 065-0AE		75	2LZ2 085-0AE	15					
60	2LZ2 065-0AF		80	2LZ2 085-0AF	18					
70	2LZ2 065-0AG		82	2LZ2 085-0AG	18					
80	2LZ2 065-0AH		88	2LZ2 085-0AH	18					
90	2LZ2 065-0AJ		92	2LZ2 085-0AJ	18					
100 ²⁾	2LZ2 065-0AK		96	2LZ2 085-0AK	22					
With Contact For Wear Monitoring										
22	TSN 8 V		2LZ2 066-0AB	69	red	TSN 8 VE	2LZ2 086-0AB	20		

Dry Operation

14 ¹⁾	STK 4 R	2LZ2 060-0BA	34		STK 4 ER	2LZ2 080-0BA	6			
14 ¹⁾	STK 6/16 R	2LZ2 061-0BA	41		STK 6/16 ER	2LZ2 081-0BA	6			
22 ¹⁾	STN 6/16 R	2LZ2 062-0BB	47		STN 6/16 ER	2LZ2 082-0BB	6			
30	STL 6/16 R	2LZ2 063-0BC	75		STL 6/16 ER	2LZ2 083-0BC	9			
40		2LZ2 063-0BD	78			2LZ2 083-0BD	9			
50		2LZ2 063-0BE	81			2LZ2 083-0BE	9			
60		2LZ2 063-0BF	84			2LZ2 083-0BF	12			
70		2LZ2 063-0BG	87			2LZ2 083-0BG	12			
80		2LZ2 063-0BH	90			2LZ2 083-0BH	12			
90		2LZ2 063-0BJ	93			2LZ2 083-0BJ	12			
100 ²⁾		2LZ2 063-0BK	96			2LZ2 083-0BK	16			
22 ¹⁾		STN 8 R	2LZ2 064-0BB			55	--	STN 8 ER	2LZ2 084-0BB	5
30		STL 8 R	2LZ2 065-0BC			60	--	STL 8 ER	2LZ2 085-0BC	9
40	2LZ2 065-0BD		65	2LZ2 085-0BD	9					
50	2LZ2 065-0BE		71	2LZ2 085-0BE	9					
60	2LZ2 065-0BF		78	2LZ2 085-0BF	12					
70	2LZ2 065-0BG		84	2LZ2 085-0BG	12					
80	2LZ2 065-0BH		91	2LZ2 085-0BH	12					
90	2LZ2 065-0BJ		98	2LZ2 085-0BJ	12					
100 ²⁾	2LZ2 065-0BK		105	2LZ2 085-0BK	16					

1) Insertion lengths 14 and 22 mm are preferred; they are stock item.

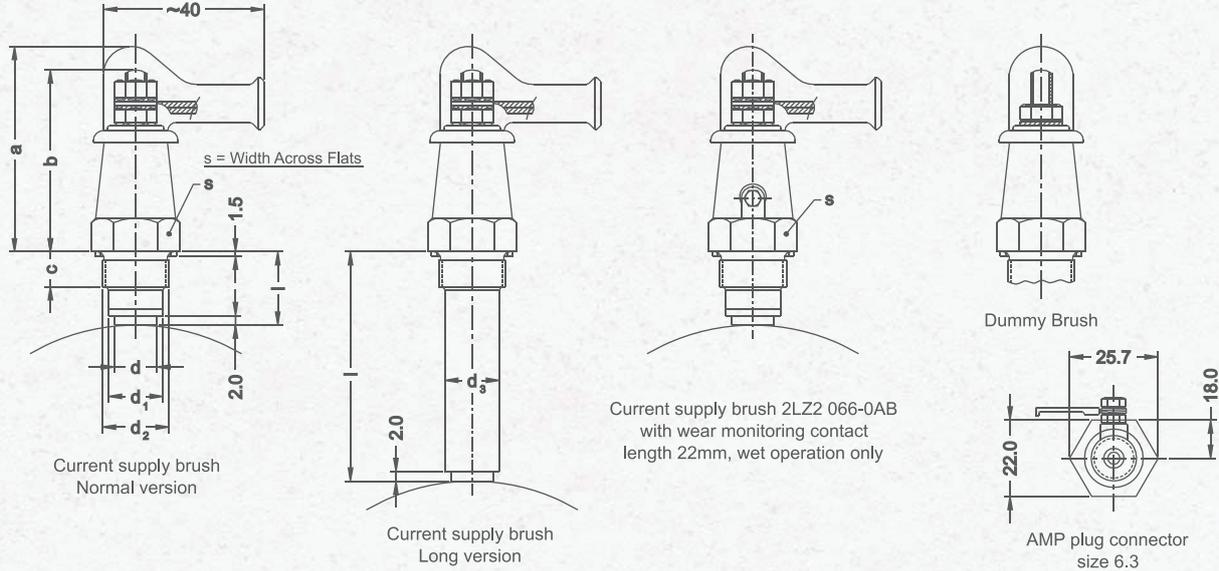
2) In urgent cases this brush insert should be ordered and shortened by the required length.

3) Only necessary if the slip ring velocity is more than 10 m/s when energized or if the clutch is almost constantly energized.

Telescopic Brushes & Inserts GP.TB Series

Current supply brushes for slipping-type clutches

Dimensions



Insertion Length	Dimensions								For		
	a	b	c	d	d ₁	d ₂	d ₃	s	slipping-type multiple-disc clutches	self-adjusting multiple-disc clutches	spring-applied multiple-disc clutches

Wet Operation

14	47	40	8	4	12	M 14 x1.5	—	17	2LP1 250	—	—
14	47	40	8	6	14	M 16 x1.5	—	19	2LP1 310 to 2LP1 355 and 2LP2 320 to 2LP2 355	2LP4 350	2LP5 320 to 2LP5 340
22	56	52	10	6	14	M 16 x1.5	—	19			
30	56	52	10	6	14	M 16 x1.5	9.5	19			
40											
50											
60											
70											
80											
90											
100											
22	56	52	10	8	15	M 18 x1.5	—	22	2LP1 411 and above and 2LP2 410 and above and 2LP3 410 and above	2LP4 410 and above	2LP5 380 and above
30	56	52	10	8	15	M 18 x1.5	9.5	22			
40											
50											
60											
70											
80											
90											
100											
With Contact For Wear Monitoring											
22	56	52	10	8	15	M 18 x1.5	—	22			

Dry Operation

14	47	40	8	4	12	M 14 x1.5	—	17	—	—	—
14	47	40	8	6	14	M 16 x1.5	—	19	—	2LP4 350	2LP5 320 to 2LP5 350
22	56	52	10	6	14	M 16 x1.5	—	19			
30	56	52	10	6	14	M 16 x1.5	9.5	19			
40											
50											
60											
70											
80											
90											
100											
22	56	52	10	8	15	M 18 x1.5	—	22	—	2LP4 410 and above	2LP5 410 and above
30	56	52	10	8	15	M 18 x1.5	9.5	22			
40											
50											
60											
70											
80											
90											
100											