## ERNST. Machen.

→ Mit Premium-Qualität.

### Flexible Tubes from ERNST. The benefits to you.



- Fully manufactured from type 1.4301 stainless steel
- Simple and rapid fitting thanks to 0,7 mm oversize
- Elaborate internal structure with corrugated tube and sleeve
- Cost-effective repair solution for still-functioning catalytic convertes and diesel particulate filters

Outside

Prevention of booming noises at high mileages

**Outside** 

### The Product Range.

Inside

Inside



Ernst No.	dia d1/d2/d3 [mm]	dia d4 [mm]	dia D1/D2/D3 [mm] /	dia D4 [mm]	Length L1 [mm]	Length L2 [mm]	a x b [mm]	A x B [mm]	pipe dia [mm]	
Flexibl	e Tube									L1 D4
460 49 1	38,7			64,0	100				38,0	
460 34 7	40,7			65,0	100				40,0	
460 35 4	42,7			68,0	100				42,0	
460 77 4	42,7			68,0	250				42,0	
460 00 2	45,7			72,0	100				45,0	
460 01 9	45,7			73,5	200				45,0	
460 37 8	45,7			70,5	250				45,0	
460 69 9	48,7			75,0	100				48,0	
460 02 6	50,7			77,5	100				50,0	
460 76 7	50,7			76,0	150				50,0	
460 03 3	50,7			79,0	200				50,0	
460 39 2	50,7			76,0	280				50,0	
460 23 1	52,7			77,5	100				52,0	
460 70 5	52,7			77,5	150				52,0	
460 04 0	52,7			77,5	200				52,0	
460 21 7	55,7			83,0	100				55,0	
460 40 8	55,7			84,0	150				55,0	
460 05 7	55,7			82,0	200				55,0	
460 42 2	55,7			82,0	280				55,0	
460 12 5	60,7			91,0	116				60,0	

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Ernst No.	Inside dia d1/d2/d3 [mm]	Inside dia d4 [mm]	Outside dia D1/D2/D3 [mm] /	Outside dia D4 [mm]	Length L1 [mm]	Length L2 [mm]	Inside a x b [mm]	Outside A x B [mm]	Exhaust pipe dia [mm]	
Flexibl	e Tube									L1 D4
460 78 1	60,7			91,5	150				60,0	
460 24 8	60,7			91,5	200				60,0	
460 79 8	63,7			93,0	150				63,0	
460 28 6	63,7			98,0	190				63,0	
460 43 9	63,7			91,0	250				63,0	
460 26 2	65,7			93,0	200				65,0	
460 44 6	70,7			102,0	70				70,0	
460 45 3	70,7			101,0	150				70,0	
460 46 0	70,7			100,0	250				70,0	
460 47 7	75,7			105,0	150				75,0	
460 48 4	75,7			105,0	250				75,0	
Ernst No.	Inside dia d1/d2/d3	Inside dia d4	Outside dia D1/D2/D3	Outside dia D4	Length L1 [mm]	Length L2 [mm]	Inside a x b [mm]	Outside A x B [mm]	Exhaust pipe dia [mm]	
	[mm] e Tube	[mm]	[mm] /	[mm]					-	L2 L1
Flexibl with sta	e Tube ainless s		[mm] /	pipes on	inlet ar	T	et		20.0	L1
Flexible with sta	e Tube ainless s			pipes on	inlet ar	220	et		38,0	L1
Flexible with statement with statement with statement with statement with the statement w	e Tube ainless s			pipes on 68,0 73,5	inlet ar	220 320	et		38,0 40,0	L1
Flexible with state 460 36 1 460 15 6 460 14 9	e Tube ainless s			68,0 73,5 72,0	inlet ar	220 320 220	et		38,0 40,0 40,0	L1
Flexible with statement of the statement	e Tube ainless s 38,7 40,7 40,7 42,7			68,0 73,5 72,0 73,5	inlet ar  100 200 100 200	220 320 220 320	et		38,0 40,0 40,0 42,0	L1
Flexible with sta 460 36 1 460 15 6 460 14 9 460 17 0 460 16 3	e Tube ainless s  38,7  40,7  40,7  42,7  42,7			68,0 73,5 72,0 73,5 68,5	inlet ar  100 200 100 200 100	220 320 220 320 220	et		38,0 40,0 40,0 42,0 42,0	L1
Flexible with state 460 36 1 460 15 6 460 14 9 460 17 0 460 16 3 460 71 2	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7			68,0 73,5 72,0 73,5 68,5 79,0	inlet ar  100 200 100 200 100 200 200	220 320 220 320 220 350	et		38,0 40,0 40,0 42,0 42,0 44,0	L1
Flexible with sta 460 36 1 460 15 6 460 14 9 460 16 3 460 71 2 460 07 1	e Tube ainless s  38,7  40,7  40,7  42,7  42,7  44,7  45,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5	100 200 100 200 100 200 200 200	220 320 220 320 220 350 320	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0	L1
Flexible with state 460 36 1 460 15 6 460 17 0 460 16 3 460 71 2 460 07 1 460 06 4	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7 45,7 45,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0	100 200 100 200 100 200 100 200 200	220 320 220 320 220 350 320 220	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0	L1
Flexible with state   460 36 1   460 15 6   460 14 9   460 16 3   460 71 2   460 07 1   460 06 4   460 63 7	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7 45,7 45,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5	100 200 100 200 100 200 200 200 100 150	220 320 220 320 220 350 320 220 270	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0 45,0	L1
Flexible with state 460 36 1 460 15 6 460 17 0 460 16 3 460 71 2 460 07 1 460 06 4 460 63 7 460 65 1	e Tube ainless s  38,7  40,7  40,7  42,7  42,7  44,7  45,7  45,7  45,7  45,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 70,5	100 200 100 200 100 200 200 200 100 150 250	220 320 220 320 220 350 320 220 270 370	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0 45,0 45,0	L1
Flexible with statement of the statement	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7 45,7 45,7 45,7 45,7 45,7 45,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 70,5 75,0	100 200 100 200 100 200 200 100 150 250	220 320 220 320 220 350 320 220 270 370 220	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0	L1
Flexible with statement of the statement	e Tube ainless s  38,7  40,7  40,7  42,7  42,7  44,7  45,7  45,7  45,7  45,7  45,7  45,7  45,7  45,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 72,0 73,5 70,5 75,0 79,0	100 200 100 200 100 200 200 200 100 150 250	220 320 220 320 220 350 320 220 270 370 220 320	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0	L1
Flexible with state   460 36 1   460 15 6   460 14 9   460 16 3   460 71 2   460 06 4   460 63 7   460 65 1   460 18 7	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7 45,7 45,7 45,7 45,7 45,7 45,7 48,7 48,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 72,0 73,5 70,5 70,5 75,0 79,0 77,5	inlet and 100 200 100 200 200 150 250 100 200 200 200 200 200 200 200 200 20	220 320 220 320 220 350 320 220 270 370 220 320 350	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0 48,0	L1
Flexible with state   460 36 1   460 15 6   460 14 9   460 16 3   460 71 2   460 06 4   460 63 7   460 65 1   460 18 7   460 75 0	e Tube ainless s  38,7  40,7  40,7  42,7  42,7  44,7  45,7  45,7  45,7  45,7  45,7  45,7  45,7  45,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 72,0 73,5 70,5 75,0 79,0	inlet and 100 200 100 200 200 150 250 100 200	220 320 220 320 220 350 320 220 270 370 220 320	et		38,0 40,0 40,0 42,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0	L1
Flexible with state   460 36 1   460 15 6   460 14 9   460 16 3   460 71 2   460 07 1   460 06 4   460 63 7   460 65 1   460 18 7   460 19 4   460 75 0   460 08 8	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7 45,7 45,7 45,7 45,7 45,7 48,7 48,7 50,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 70,5 75,0 79,0 77,5	100 200 100 200 100 200 200 150 250 100 200 200 200	220 320 220 320 220 350 320 270 370 220 320 320 220	et		38,0 40,0 40,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0 48,0 50,0	L1
Flexible with state   460 36 1   460 15 6   460 14 9   460 16 3   460 71 2   460 07 1   460 06 4   460 65 1   460 18 7   460 19 4   460 75 0   460 08 8   464 12 3	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7 45,7 45,7 45,7 45,7 48,7 48,7 50,7 50,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 70,5 75,0 79,0 77,5 77,5 76,0	inlet and 100 200 100 200 100 250 100 200 200 100 150 150 150	220 320 220 320 220 350 320 220 270 370 220 350 220 320 270	et		38,0 40,0 42,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0 48,0 50,0 50,0	L1
Flexible with state   460 36 1   460 15 6   460 14 9   460 16 3   460 71 2   460 07 1   460 06 4   460 63 7   460 65 1   460 18 7   460 75 0   460 08 8   464 12 3   460 09 5	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 44,7 45,7 45,7 45,7 45,7 45,7 45,7 50,7 50,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 72,0 73,5 75,0 79,0 77,5 76,0 79,0	inlet and 100 200 100 200 100 250 100 200 200 100 150 200 200 100 150 200 200 100 150 200 200 100 150 200 100 150 200 100 150 200 100 150 150 100 150 100 150 100 150 100 10	220 320 220 320 220 350 320 270 370 220 350 220 350 220 350 320 320 320	et		38,0 40,0 42,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0 48,0 50,0 50,0	L1
Flexible with state 460 36 1 460 15 6 460 16 3 460 71 2 460 06 4 460 65 1 460 65 1 460 75 0 460 08 8 464 12 3 460 20 0	e Tube ainless s  38,7 40,7 40,7 42,7 42,7 42,7 45,7 45,7 45,7 45,7 45,7 45,7 50,7 50,7 50,7 52,7			68,0 73,5 72,0 73,5 68,5 79,0 73,5 72,0 73,5 70,5 75,0 79,0 77,5 77,5 76,0 79,0 77,5	inlet and 100 200 100 200 100 200 200 100 150 200 100 150 200 100 100 100 100 100 100 100 100 10	220 320 220 320 220 350 320 220 370 220 320 350 220 320 220 270 320 220	et		38,0 40,0 40,0 42,0 44,0 45,0 45,0 45,0 45,0 48,0 50,0 50,0 50,0 52,0	L1

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Ernst No.	Inside dia d1/d2/d3 [mm]	Inside dia d4 [mm]	Outside dia D1/D2/D3 [mm] /	Outside dia D4 [mm]	Length L1 [mm]	Length L2 [mm]	Inside a x b [mm]	Outside A x B [mm]	Exhaust pipe dia [mm]		
Flexible Tube with stainless steel connecting pipes on inlet and outlet											
460 22 4	55,7			83,0	100	220			55,0		7
460 50 7	55,7			84,0	150	270			55,0		
460 25 5	60,7			91,5	200	320			60,0		
460 13 2	60,7			91,0	116	220			60,0		
460 51 4	63,7			90,0	115	220			63,0		
460 52 1	65,7			93,0	200	320			65,0		
460 53 8	70,7			101,0	150	270			70,0		
460 54 5	75,7			105,0	150	270			75,0		
Ernst No.	Inside D1/D2/D			Outside dia D4 [mm] /	Length L1 [mm]	Length L2 [mm]					
with sta	ainless s	steel co	nnecting	pipes on	inlet ar	nd outle	et		D1\D2	2 D3	
464 17 8	32,7 / 37	7,7 / 42,7		72,0	100	280				D4	
464 17 8 460 30 9	42,7 / 45	,7 / 48,7		79,0	100	400				D4	
464 17 8 460 30 9 460 31 6	42,7 / 45 42,7 / 45	,7 / 48,7 ,7 / 48,7		79,0 77,5	100 200	400 400				D4	
464 17 8 460 30 9 460 31 6 464 16 1	42,7 / 45 42,7 / 45 42,7 / 47	,7 / 48,7 ,7 / 48,7 ,7 / 52,7		79,0 77,5 83,0	100 200 100	400 400 280				D4	
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4	42,7 / 45 42,7 / 45 42,7 / 47 42,7 / 47	,7 / 48,7 ,7 / 48,7 ,7 / 52,7 ,7 / 52,7		79,0 77,5 83,0 83,0	100 200 100 100	400 400 280 350				D4	
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8	42,7 / 45 42,7 / 45 42,7 / 47 42,7 / 47 45,7 / 48	,7 / 48,7 ,7 / 48,7 ,7 / 52,7 ,7 / 52,7 ,7 / 55,7		79,0 77,5 83,0 83,0 84,0	100 200 100 100 100	400 400 280 350 400				D4	
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8 460 67 5	42,7 / 45 42,7 / 45 42,7 / 47 42,7 / 47 45,7 / 48 45,7 / 48	7 / 48,7 7 / 48,7 7 / 52,7 7 / 52,7 7 / 55,7 7 / 55,7		79,0 77,5 83,0 83,0 84,0 83,0	100 200 100 100	400 400 280 350				D4	
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8	42,7 / 45 42,7 / 45 42,7 / 47 42,7 / 47 45,7 / 48	7 / 48,7 7 / 48,7 7 / 52,7 7 / 52,7 7 / 55,7 7 / 55,7 7 / 55,7		79,0 77,5 83,0 83,0 84,0	100 200 100 100 100 200	400 400 280 350 400 400				D4	
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8 460 67 5 460 32 3	42,7 / 45 42,7 / 45 42,7 / 47 42,7 / 47 45,7 / 48 45,7 / 48 50,7 / 52 50,7 / 52	7 / 48,7 7 / 48,7 7 / 52,7 7 / 52,7 7 / 55,7 7 / 55,7 7 / 55,7 7 / 55,7		79,0 77,5 83,0 83,0 84,0 83,0 84,0 83,0 93,0	100 200 100 100 100 200 100	400 400 280 350 400 400				D4	
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8 460 67 5 460 32 3 460 33 0	42,7 / 45 42,7 / 47 42,7 / 47 42,7 / 47 45,7 / 48 45,7 / 48 50,7 / 52 50,7 / 52	7 / 48,7 7 / 48,7 7 / 52,7 7 / 52,7 7 / 55,7 7 / 55,7 7 / 55,7 7 / 55,7	Outside dia D1/D2/D3 [mm] /	79,0 77,5 83,0 83,0 84,0 83,0 84,0 83,0	100 200 100 100 100 200 100 200	400 400 280 350 400 400 400 400	Inside a x b [mm]	Outside A x B [mm]	Exhaust pipe dia [mm]	D4	
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8 460 67 5 460 32 3 460 33 0 460 72 9 Ernst No.	42,7 / 45 42,7 / 47 42,7 / 47 42,7 / 48 45,7 / 48 45,7 / 48 50,7 / 52 50,7 / 55 Inside dia d1/d2/d3	,7 / 48,7 ,7 / 48,7 ,7 / 52,7 ,7 / 52,7 ,7 / 55,7 ,7 / 55,7 ,7 / 55,7 ,7 / 55,7 ,7 / 60,7 Inside dia d4 [mm]	dia D1/D2/D3	79,0 77,5 83,0 83,0 84,0 83,0 84,0 93,0 Outside dia D4	100 200 100 100 100 200 100 200 150 Length L1	400 400 280 350 400 400 400 400 Length L2	a x b	AxB	pipe dia	X:	Y-Y: B
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8 460 67 5 460 32 3 460 33 0 460 72 9 Ernst No.	42,7 / 45 42,7 / 47 42,7 / 47 45,7 / 48 45,7 / 48 50,7 / 52 50,7 / 52 50,7 / 55 Inside dia d1/d2/d3 [mm] e Tube (	,7 / 48,7 ,7 / 48,7 ,7 / 52,7 ,7 / 52,7 ,7 / 55,7 ,7 / 55,7 ,7 / 55,7 ,7 / 55,7 ,7 / 60,7 Inside dia d4 [mm]	dia D1/D2/D3	79,0 77,5 83,0 83,0 84,0 83,0 84,0 93,0 Outside dia D4	100 200 100 100 100 200 100 200 150 Length L1	400 400 280 350 400 400 400 400 Length L2	a x b	AxB	pipe dia [mm]		Y-Y:
464 17 8 460 30 9 460 31 6 464 16 1 464 15 4 460 66 8 460 67 5 460 32 3 460 72 9  Ernst No.  Flexible  460 29 3	42,7 / 45 42,7 / 47 42,7 / 47 42,7 / 48 45,7 / 48 50,7 / 55 50,7 / 55 Inside dia d1/d2/d3 [mm] e Tube (	7 / 48,7 7 / 48,7 7 / 52,7 7 / 52,7 7 / 55,7 7 / 55,7 7 / 55,7 7 / 55,7 7 / 60,7 Inside dia d4 [mm]  Oval	dia D1/D2/D3	79,0 77,5 83,0 83,0 84,0 83,0 93,0 Outside dia D4 [mm]	100 200 100 100 100 200 100 200 150 Length L1 [mm]	400 400 280 350 400 400 400 400 Length L2 [mm]	a x b [mm]	A x B [mm]	pipe dia [mm]		Y-Y: B Y-Y B



### Flexible Tubes with knitted sleeve. The next generation.

These flexible tubes are highly flexible for large movements thanks to the finer mesh structure with high-quality interlocking. The effect: engine movements and vibrations are decoupled even more effectively.

#### Always the optimum solution.

A defective flexible tube should be replaced by an original ERNST flexible tube of the same type:

- "hard" (with mesh sleeve) for "hard" and
- "soft" (with knitted sleeve) for "soft"

This is the only way to maintain the sensitive basic tuning oft he exhaust system.



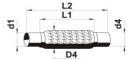
No d1	side dia Outsi / d2 / d3 dia [mm] D4 [m	Lengtn	Length L2 [mm]	Exhaust pipe dia [mm]	
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### Flexible tube "soft"



464 19 2	38,7	62,0	170	38,0	
464 10 9	38,7	62,0	200	38,0	
464 20 8	40,7	64,0	170	40.0	
464 21 5	40,7	64,0	200	40,0	
464 22 2	42,7	66,0	170	42,0	
464 23 9	42,7	66,0	200	42,0	
460 62 0	45,7	73,0	170	45,0	
464 00 0	48,7	74,0	150	48,0	
464 01 7	50,7	76,0	170	50,0	
464 24 6	52,7	75,0	170	52,0	
464 25 3	55,7	80,0	170	55,0	
464 07 9	60,7	85,0	190	60,0	
464 33 8	60,7	88,0	230	60,0	

#### Flexible tube "soft" with stainless steel connecting pipes on inlet and outlet



464 26 0	38,7	64,0	170	290	38,0		
464 27 7	38,7	64,0	200	320	38,0		
464 28 4	40,7	66,0	170	290	40,0		
464 29 1	40,7	66,0	200	320	40,0		
464 02 4	42,7	73,0	170	290	42,0		
464 30 7	42,7	66,0	200	320	42,0		
464 03 1	45,7	73,0	170	290	45,0		
464 31 4	45,7	66,0	200	320	45,0		
464 04 8	48,7	74,0	150	290	48,0		
464 05 5	50,7	76,0	170	290	50,0		
464 06 2	52,7	76,0	170	290	52,0		
464 32 1	55,7	80,0	170	290	55,0	_	-
464 08 6	60,7	85,0	190	310	60,0	_	-