

Coolant hoses made of metal

Materials: Threaded part (DIN 3852-A), hose coil, discharge nozzle: Steel nickel-plated, inside hose: PVC (for replaceable nozzles: nozzle connection brass nickel-plated with NBR O-ring)

Suitable:

- Coolant and lubricant pipes for cutting machines used for metal processing
- Coolant in spark erosion machines
- Blowing away chippings and metal filings from shapes, work pieces or stamped parts

✓ **Advantages:**

- Completely sealed
- Smooth coolant stream in both directions precisely adjustable, steady
- Small bend radius
- Very rugged and wear resistant
- Resistant against oils, grease and hot chippings etc.



Distributor bars from page 132

Standard design (MT/nozzle)

Type	Available lengths							Bend radius	Thread	DN
	200	250	320	400	500	630	700			
KMS 18-**	✓	✓	✓	✓	✓	✓	✓	64	G 1/8"	4
KMS 14-**	✓	✓	✓	✓	✓	✓	✓	72	G 1/4"	6
KMS 38-**	---	✓	✓	✓	✓	✓	✓	88	G 3/8"	8
KMS 12-**	---	---	✓	✓	✓	✓	✓	110	G 1/2"	10
KMS 34-**	---	---	---	✓	✓	✓	✓	110	G 3/4"	16

Special type male threads on both sides for replaceable nozzle

Type	Available lengths							Nozzle connection (MT)	Bend radius	Thread	DN
	200	250	320	400	500	630	700				
KMSW 18-**	✓	✓	✓	✓	✓	✓	✓	M 10 x 1	64	G 1/8"	4
KMSW 14-**	✓	✓	✓	✓	✓	✓	✓	M 12 x 1	72	G 1/4"	6
KMSW 38-**	---	✓	✓	✓	✓	✓	✓	M 16 x 1	88	G 3/8"	8
KMSW 12-**	---	---	✓	✓	✓	✓	✓	M 18 x 1	110	G 1/2"	10
KMSW 34-**	---	---	---	✓	✓	✓	✓	M 26 x 1.5	110	G 3/4"	16

Replaceable nozzles for coolant hose type KMSW

Flat nozzle aluminium	Width x height	Adj. nozzle brass nickel-pl.	Special nozzle for self drilling	External Ø	Connection thread (FT)	DN
KMSW 18-DF	16 x 0.8	KMSW 18-DR	KMSW 18-DS	12.0	M 10 x 1	4
KMSW 14-DF	21 x 1.4	KMSW 14-DR	KMSW 14-DS	15.0	M 12 x 1	6
KMSW 38-DF	26 x 2.0	KMSW 38-DR	KMSW 38-DS	19.0	M 16 x 1	8
KMSW 12-DF	32 x 2.5	KMSW 12-DR	KMSW 12-DS	23.0	M 18 x 1	10
KMSW 34-DF	44 x 3.0	KMSW 34-DR	KMSW 34-DS	31.5	M 26 x 1.5	16

Magnet holder

KMS 14 MAG Magnet holder for 1/4" hose with ball valve and 13 mm hose nipple

! In your order please enter the required length here!

Order example: KMS 18 - **

Standard type

Order supplement for length:	
200 mm	...-200
250 mm	...-250
320 mm	...-320
400 mm	...-400
500 mm	...-500
630 mm	...-630
700 mm	...-700
800 mm	...-800

VORTEX tubes - compressed air operated cold generators

Function: Incoming compressed air is separated into hot air flow and cold air flow by the VORTEX tube. The hot air emerges on one side of the tube, while the cold air is on the other side. The difference in temperatures between the incoming compressed air and the outgoing cold air can be set using the flow control valve. If the outlet temperature goes down, the volume of escaping cold air reduces simultaneously. Temperatures from -40°C on the cold air side and up to +110°C on the hot air side are generated. If the air inlet temperature and the pressure remain constant, the outlet temperature can be set with a tolerance of ± 0.6 K.

Materials: Housing: Stainless steel AISI 303, VORTEX generator: Plastic

Temperature range: -20°C to max. +120°C

Operating pressure: 1 - 8 bar, optional: 5 bar (filtered, uncoiled compressed air)

✓ **Advantages:**

- Low purchase and operating costs
- Maintenance free
- No moving components - no wear
- Only compressed air is required for operation, no electricity
- No residue on the cooled objects from coolant or refrigerant spray

Type	Air inlet	Cold air outlet	Installation length	Tube Ø	Supply volume
VORTEX 14 B	Rp 1/4" FT	G 1/4" MT	210	45	VORTEX tube with red generator
VORTEX 14	Rp 1/4" FT	G 1/2" FT	285	45	VORTEX tube with silencer (for cold air side), 8 pieces. VORTEX generators (yellow, green, red, white, blue, grey, beige), adjustable coolant hose for cold air
VORTEX 14 KP	Rp 1/4" FT	G 1/2" FT	285	45	VORTEX tube with silencer (for cold and hot air side), 4 pieces. VORTEX generators (yellow, red, blue, brown), adjustable coolant hose for cold air, magnetic foot

VORTEX generators

Colour	Yellow	Green	Red***	White	Blue	Grey	Beige	Brown
Temperature*	-31°C	-33°C	-30°C	-34°C	-26°C	-30°C	-24°C	-29°C
Cooling capacity* (kcal/h)	130	130	230	230	380	380	630	630
Air consumption* (l/min)	280	280	420	420	700	700	990	990

* air inlet at 5.5 bar and 20°C, regulating screw 2.5 turns opened (70% of the air jet leaks as cold air)

*** installed as standard in all VORTEX tubes

All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C.

