

## Le choix de première classe en matière de titane et de superalliages

Gamme étendue avec mini-fraises toriques à partir de Ø1,0 mm **New**

### VOS AVANTAGES

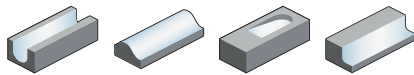
- Convient tout particulièrement à l'ébauche et à la finition des alliages à base de titane et des alliages à base de nickel et de cobalt
- Usinage fiable grâce à une stabilité élevée des arêtes de coupe lors des opérations d'usinage complexes
- Durée de vie prolongée grâce à un substrat novateur avec une technologie de revêtement extrêmement moderne



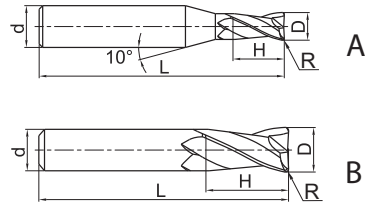
## Fraise torique

## Usinage haute performance

TM-2R **New**



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



B

Fraisage

Article	*	Dimensions [mm]					Dents	Géométrie	Nuance
		D	R	d (h5)	H	L			KMS405
TM-2R-D1.0R0.05		1	0,05	4	3	50	2	A	●
TM-2R-D1.0R0.30		1	0,3	4	3	50	2	A	●
TM-2R-D2.0R0.05		2	0,05	4	6	50	2	A	●
TM-2R-D2.0R0.30		2	0,3	4	6	50	2	A	●
TM-2R-D2.5R0.05		2,5	0,05	4	8	50	2	A	○
TM-2R-D2.5R0.30		2,5	0,3	4	8	50	2	A	○
TM-2R-D3.0R0.05		3	0,05	4	8	50	2	A	●
TM-2R-D3.0R0.30		3	0,3	4	8	50	2	A	○
TM-2R-D4.0R0.10		4	0,1	4	11	50	2	B	●
TM-2R-D4.0R0.30		4	0,3	4	11	50	2	B	○
TM-2R-D4.0R0.50		4	0,5	4	11	50	2	B	○
TM-2R-D5.0R0.10		5	0,1	6	13	50	2	A	●
TM-2R-D5.0R0.30		5	0,3	6	13	50	2	A	○
TM-2R-D5.0R0.50		5	0,5	6	13	50	2	A	○

● En stock ○ Sur demande

\* Avec arrosage interne

### Domaine d'utilisation

P	M	K	N	S	H
	✓			✓	

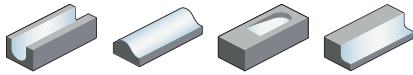
✓ Très approprié

✓ Approprié

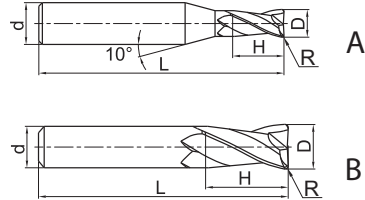
**Fraise torique**

**Usinage haute performance**

**TM-3R** New



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



Article	*	Dimensions [mm]					Dents	Géométrie	Nuance
		D	R	d (h5)	H	L			KMS405
TM-3R-D3.0R0.1		3	0,1	4	8	50	3	A	●
TM-3R-D3.0R0.3		3	0,3	4	8	50	3	A	○
TM-3R-D3.0R0.5		3	0,5	4	8	50	3	A	●
TM-3R-D4.0R0.1		4	0,1	4	11	50	3	B	●
TM-3R-D4.0R0.3		4	0,3	4	11	50	3	B	○
TM-3R-D4.0R0.5		4	0,5	4	11	50	3	B	●
TM-3R-D5.0R0.1		5	0,1	6	13	50	3	A	●
TM-3R-D5.0R0.3		5	0,3	6	13	50	3	A	○
TM-3R-D5.0R0.5		5	0,5	6	13	50	3	A	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

P	M	K	N	S	H
	✓			✓	

✓ Très approprié

✓ Approprié

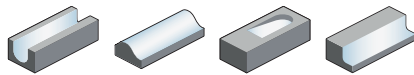
**B**

Fraisage

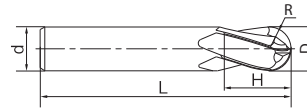
## Fraise hémisphérique

## Usinage haute performance

### TM-4B



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-4B-R3.0		6	3	6	9	50	4	●
TM-4B-R4.0		8	4	8	12	60	4	●
TM-4B-R5.0		10	5	10	15	75	4	●
TM-4B-R6.0		12	6	12	18	75	4	●
TM-4B-R8.0		16	8	16	24	85	4	●
TM-4B-R10.0		20	10	20	30	100	4	●

● En stock ○ Sur demande

\* Avec arrosage interne

#### Domaine d'utilisation

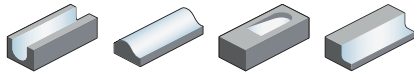
P	M	K	N	S	H
	✓			✓	

✓ Très approprié

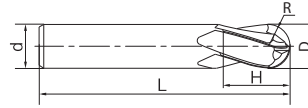
✓ Approprié

**Fraise hémisphérique** **Usinage haute performance**

**TM-4BL**



- Type d'attachement : DIN 6535HA
- Coupe au centre
- Angle d'hélice 38°



Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-4BL-R3.0		6	3	6	16	57	4	●
TM-4BL-R4.0		8	4	8	20	63	4	●
TM-4BL-R5.0		10	5	10	22	72	4	●
TM-4BL-R6.0		12	6	12	25	83	4	●
TM-4BL-R8.0		16	8	16	32	92	4	●
TM-4BL-R10.0		20	10	20	38	104	4	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

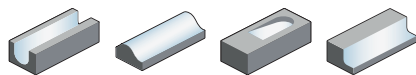
P	M	K	N	S	H
	✓			✓	

- ✓ Très approprié
- ✓ Approprié

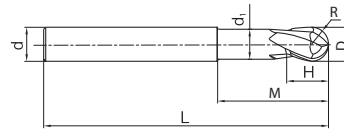
## Fraise hémisphérique

## Usinage haute performance

### TM-4BP



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



Article	*	Dimensions [mm]							Dents	Nuance
		D	R	d (h6)	d <sub>1</sub>	H	M	L		KMS405
TM-4BP-R3.0		6	3	6	5.5	9	18	60	4	●
TM-4BP-R4.0		8	4	8	7.4	12	24	75	4	●
TM-4BP-R5.0		10	5	10	9.4	15	30	75	4	●
TM-4BP-R6.0		12	6	12	11.4	18	35	90	4	●
TM-4BP-R8.0		16	8	16	15.4	24	40	90	4	●
TM-4BP-R10.0		20	10	20	19.4	35	50	110	4	●

● En stock ○ Sur demande

\* Avec arrosage interne

### Domaine d'utilisation

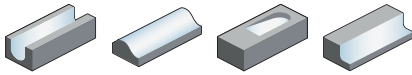
P	M	K	N	S	H
	✓			✓	

✓ Très approprié

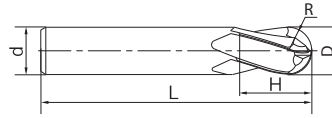
✓ Approprié

**Fraise hémisphérique** **Usinage haute performance**

**TM-5B**



- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 38°



Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-5B-R3.0		6	3	6	9	50	5	●
TM-5B-R4.0		8	4	8	12	60	5	●
TM-5B-R5.0		10	5	10	15	75	5	●
TM-5B-R6.0		12	6	12	18	75	5	●
TM-5B-R8.0		16	8	16	24	85	5	●
TM-5B-R10.0		20	10	20	30	100	5	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

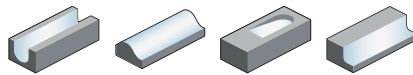
P	M	K	N	S	H
	✓			✓	

- ✓ Très approprié
- ✓ Approprié

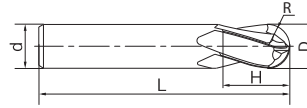
## Fraise hémisphérique

## Usinage haute performance

### TM-5BL



- Type d'attachement : DIN 6535HA
- Angle d'hélice 38°



Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-5BL-R3.0		6	3	6	16	57	5	●
TM-5BL-R4.0		8	4	8	20	63	5	●
TM-5BL-R5.0		10	5	10	22	72	5	●
TM-5BL-R6.0		12	6	12	25	83	5	●
TM-5BL-R8.0		16	8	16	32	92	5	●
TM-5BL-R10.0		20	10	20	38	104	5	●

● En stock ○ Sur demande

\* Avec arrosage interne

#### Domaine d'utilisation

P	M	K	N	S	H
	✓			✓	

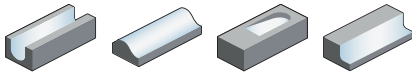
✓ Très approprié

✓ Approprié

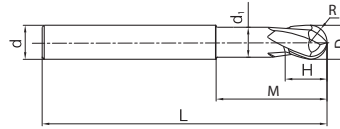
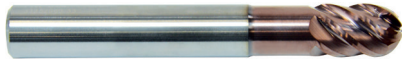


**Fraise hémisphérique** **Usinage haute performance**

**TM-5BP**



- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 38°



Article	*	Dimensions [mm]							Dents	Nuance
		D	R	d (h6)	d <sub>1</sub>	H	M	L		KMS405
TM-5BP-R3.0		6	3	6	5.5	9	18	60	5	●
TM-5BP-R4.0		8	4	8	7.4	12	24	75	5	●
TM-5BP-R5.0		10	5	10	9.4	15	30	75	5	●
TM-5BP-R6.0		12	6	12	11.4	18	35	90	5	●
TM-5BP-R8.0		16	8	16	15.4	24	40	90	5	●
TM-5BP-R10.0		20	10	20	19.4	35	50	110	5	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

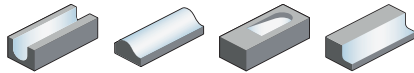
P	M	K	N	S	H
	✓			✓	

- ✓ Très approprié
- ✓ Approprié

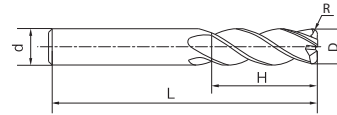
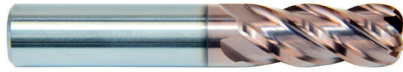
## Fraise torique

## Usinage haute performance

### TM-4R



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



B

Fraisage

Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-4R-D6.0R0.3		6	0.3	6	16	50	4	●
TM-4R-D6.0R0.5		6	0.5	6	16	50	4	●
TM-4R-D6.0R 0.75		6	0.75	6	16	50	4	○
TM-4R-D6.0R1.0		6	1.0	6	16	50	4	●
TM-4R-D8.0R0.3		8	0.3	8	20	60	4	●
TM-4R-D8.0R0.5		8	0.5	8	20	60	4	●
TM-4R-D8.0R0.75		8	0.75	8	20	60	4	○
TM-4R-D8.0R1.0		8	1.0	8	20	60	4	●
TM-4R-D10.0R0.5		10	0.5	10	25	75	4	●
TM-4R-D10.0R0.75		10	0.75	10	25	75	4	○
TM-4R-D10.0R1.0		10	1.0	10	25	75	4	●
TM-4R-D10.0R1.25		10	1.25	10	25	75	4	○
TM-4R-D10.0R1.5		10	1.5	10	25	75	4	●
TM-4R-D10.0R1.6		10	1.6	10	25	75	4	●
TM-4R-D10.0R2.0		10	2.0	10	25	75	4	●
TM-4R-D10.0R2.5		10	2.5	10	25	75	4	○
TM-4R-D10.0R3.0		10	3.0	10	25	75	4	●
TM-4R-D12.0R0.5		12	0.5	12	30	75	4	●
TM-4R-D12.0R0.75		12	0.75	12	30	75	4	○
TM-4R-D12.0R1.0		12	1.0	12	30	75	4	●
TM-4R-D12.0R1.25		12	1.25	12	30	75	4	○
TM-4R-D12.0R1.5		12	1.5	12	30	75	4	●
TM-4R-D12.0R1.6		12	1.6	12	30	75	4	●
TM-4R-D12.0R2.0		12	2.0	12	30	75	4	●
TM-4R-D12.0R2.5		12	2.5	12	30	75	4	●
TM-4R-D12.0R3.0		12	3.0	12	30	75	4	●
TM-4R-D12.0R3.2		12	3.2	12	30	75	4	●
TM-4R-D12.0R4.0		12	4.0	12	30	75	4	●
TM-4R-D16.0R1.0		16	1.0	16	35	90	4	●
TM-4R-D16.0R1.25		16	1.25	16	35	90	4	●
TM-4R-D16.0R1.5		16	1.5	16	35	90	4	●
TM-4R-D16.0R1.6		16	1.6	16	35	90	4	●

● En stock ○ Sur demande

\* Avec arrosage interne

### Domaine d'utilisation

P	M	K	N	S	H
	✓			✓	

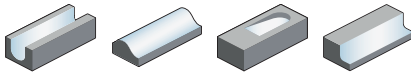
✓ Très approprié

✓ Approprié

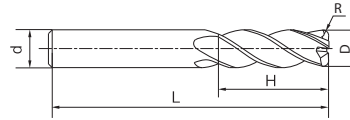
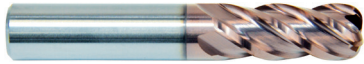
**Fraise torique**

**Usinage haute performance**

**TM-4R**



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-4R-D16.0R2.0		16	2.0	16	35	90	4	●
TM-4R-D16.0R2.5		16	2.5	16	35	90	4	●
TM-4R-D16.0R3.0		16	3.0	16	35	90	4	●
TM-4R-D16.0R3.2		16	3.2	16	35	90	4	●
TM-4R-D16.0R4.0		16	4.0	16	35	90	4	●
TM-4R-D16.0R5.0		16	5.0	16	35	90	4	●
TM-4R-D16.0R6.3		16	6.3	16	35	90	4	○
TM-4R-D20.0R1.0		20	1.0	20	45	100	4	●
TM-4R-D20.0R1.25		20	1.25	20	45	100	4	●
TM-4R-D20.0R1.5		20	1.5	20	45	100	4	●
TM-4R-D20.0R1.6		20	1.6	20	45	100	4	●
TM-4R-D20.0R2.0		20	2.0	20	45	100	4	●
TM-4R-D20.0R2.5		20	2.5	20	45	100	4	●
TM-4R-D20.0R3.0		20	3.0	20	45	100	4	●
TM-4R-D20.0R3.2		20	3.2	20	45	100	4	●
TM-4R-D20.0R4.0		20	4.0	20	45	100	4	●
TM-4R-D20.0R5.0		20	5.0	20	45	100	4	●
TM-4R-D20.0R6.3		20	6.3	20	45	100	4	●
TM-4R-D25.0R1.0		25	1.0	25	50	110	4	●
TM-4R-D25.0R1.25		25	1.25	25	50	110	4	○
TM-4R-D25.0R1.5		25	1.5	25	50	110	4	●
TM-4R-D25.0R1.6		25	1.6	25	50	110	4	●
TM-4R-D25.0R2.0		25	2.0	25	50	110	4	●
TM-4R-D25.0R2.5		25	2.5	25	50	110	4	○
TM-4R-D25.0R3.0		25	3.0	25	50	110	4	●
TM-4R-D25.0R3.2		25	3.2	25	50	110	4	●
TM-4R-D25.0R4.0		25	4.0	25	50	110	4	●
TM-4R-D25.0R5.0		25	5.0	25	50	110	4	●
TM-4R-D25.0R6.3		25	6.3	25	50	110	4	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

P	M	K	N	S	H
	✓			✓	

✓ Très approprié

✓ Approprié

## TM-4R PRIX 2025

Article	P.V. HT en €
TM-4R-D6.0R0.2 KMS405	25.27
TM-4R-D6.0R0.3 KMS405	25.27
TM-4R-D6.0R0.5 KMS405	25.27
TM-4R-D6.0R0.75 KMS405	25.27
TM-4R-D6.0R1.0 KMS405	25.27
TM-4R-D8.0R0.2 KMS405	40.93
TM-4R-D8.0R0.3 KMS405	40.93
TM-4R-D8.0R0.5 KMS405	40.93
TM-4R-D8.0R0.75 KMS405	40.93
TM-4R-D8.0R1.0 KMS405	40.93
TM-4R-D10.0R0.2 KMS405	53.61
TM-4R-D10.0R0.5 KMS405	53.61
TM-4R-D10.0R0.75 KMS405	53.61
TM-4R-D10.0R1.0 KMS405	53.61
TM-4R-D10.0R1.25 KMS405	53.61
TM-4R-D10.0R1.5 KMS405	53.61
TM-4R-D10.0R1.6 KMS405	53.61
TM-4R-D10.0R2.0 KMS405	53.61
TM-4R-D10.0R2.5 KMS405	53.61
TM-4R-D10.0R3.0 KMS405	53.61
TM-4R-D12.0R0.2 KMS405	72.59
TM-4R-D12.0R0.5 KMS405	72.59
TM-4R-D12.0R0.75 KMS405	72.59
TM-4R-D12.0R1.0 KMS405	72.59
TM-4R-D12.0R1.25 KMS405	72.59
TM-4R-D12.0R1.5 KMS405	72.59

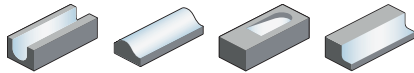
TM-4R-D12.0R1.6 KMS405	72.59
TM-4R-D12.0R2.0 KMS405	72.59
TM-4R-D12.0R2.5 KMS405	72.59
TM-4R-D12.0R3.0 KMS405	72.59
TM-4R-D12.0R3.2 KMS405	72.59
TM-4R-D12.0R4.0 KMS405	72.59
TM-4R-D16.0R0.2 KMS405	131.57
TM-4R-D16.0R1.0 KMS405	131.57
TM-4R-D16.0R1.25 KMS405	131.57
TM-4R-D16.0R1.5 KMS405	131.57
TM-4R-D16.0R1.6 KMS405	131.57
TM-4R-D16.0R2.0 KMS405	131.57
TM-4R-D16.0R2.5 KMS405	131.57
TM-4R-D16.0R3.0 KMS405	131.57
TM-4R-D16.0R3.2 KMS405	131.57
TM-4R-D16.0R4.0 KMS405	131.57
TM-4R-D16.0R5.0 KMS405	131.57
TM-4R-D16.0R6.3 KMS405	131.57
TM-4R-D20.0R0.2 KMS405	195.37
TM-4R-D20.0R1.0 KMS405	195.37
TM-4R-D20.0R1.25 KMS405	195.37
TM-4R-D20.0R1.5 KMS405	195.37
TM-4R-D20.0R1.6 KMS405	195.37
TM-4R-D20.0R2.0 KMS405	195.37
TM-4R-D20.0R2.5 KMS405	195.37
TM-4R-D20.0R3.0 KMS405	195.37
TM-4R-D20.0R3.2 KMS405	195.37
TM-4R-D20.0R4.0 KMS405	195.37

TM-4R-D20.0R5.0 KMS405	195.37
TM-4R-D20.0R6.3 KMS405	195.37
TM-4R-D25.0R0.2 KMS405	378
TM-4R-D25.0R1.0 KMS405	378
TM-4R-D25.0R1.25 KMS405	378
TM-4R-D25.0R1.5 KMS405	378
TM-4R-D25.0R1.6 KMS405	378
TM-4R-D25.0R2.0 KMS405	378
TM-4R-D25.0R2.5 KMS405	378
TM-4R-D25.0R3.0 KMS405	378
TM-4R-D25.0R3.2 KMS405	378
TM-4R-D25.0R4.0 KMS405	378
TM-4R-D25.0R5.0 KMS405	378
TM-4R-D25.0R6.3 KMS405	378

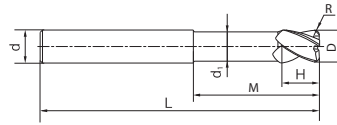
## Fraise torique

## Usinage haute performance

### TM-4RP



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



B

Fraisage

Article	*	Dimensions [mm]							Dents	Nuance
		D	R	d (h6)	d <sub>1</sub>	H	M	L		KMS405
TM-4RP-D8.0R0.3		8	0.3	8	7.4	16	25	75	4	●
TM-4RP-D8.0R0.5		8	0.5	8	7.4	16	25	75	4	●
TM-4RP-D8.0R0.75		8	0.75	8	7.4	16	25	75	4	○
TM-4RP-D8.0R1.0		8	1.0	8	7.4	16	25	75	4	●
TM-4RP-D10.0R0.5		10	0.5	10	9.4	20	32	75	4	●
TM-4RP-D10.0R0.75		10	0.75	10	9.4	20	32	75	4	○
TM-4RP-D10.0R1.0		10	1.0	10	9.4	20	32	75	4	●
TM-4RP-D10.0R1.25		10	1.25	10	9.4	20	32	75	4	●
TM-4RP-D10.0R1.5		10	1.5	10	9.4	20	32	75	4	●
TM-4RP-D10.0R1.6		10	1.6	10	9.4	20	32	75	4	●
TM-4RP-D10.0R2.0		10	2.0	10	9.4	20	32	75	4	●
TM-4RP-D10.0R2.5		10	2.5	10	9.4	20	32	75	4	○
TM-4RP-D10.0R3.0		10	3.0	10	9.4	20	32	75	4	●
TM-4RP-D12.0R0.5		12	0.5	12	11.4	24	40	90	4	●
TM-4RP-D12.0R0.75		12	0.75	12	11.4	24	40	90	4	○
TM-4RP-D12.0R1.0		12	1.0	12	11.4	24	40	90	4	●
TM-4RP-D12.0R1.25		12	1.25	12	11.4	24	40	90	4	●
TM-4RP-D12.0R1.5		12	1.5	12	11.4	24	40	90	4	●
TM-4RP-D12.0R1.6		12	1.6	12	11.4	24	40	90	4	●
TM-4RP-D12.0R2.0		12	2.0	12	11.4	24	40	90	4	●
TM-4RP-D12.0R2.5		12	2.5	12	11.4	24	40	90	4	○
TM-4RP-D12.0R3.0		12	3.0	12	11.4	24	40	90	4	●
TM-4RP-D12.0R3.2		12	3.2	12	11.4	24	40	90	4	●
TM-4RP-D12.0R4.0		12	4.0	12	11.4	24	40	90	4	●
TM-4RP-D16.0R1.0		16	1.0	16	15	32	50	100	4	●
TM-4RP-D16.0R1.25		16	1.25	16	15	32	50	100	4	●
TM-4RP-D16.0R1.5		16	1.5	16	15	32	50	100	4	●
TM-4RP-D16.0R1.6		16	1.6	16	15	32	50	100	4	●
TM-4RP-D16.0R2.0		16	2.0	16	15	32	50	100	4	●

● En stock ○ Sur demande

\* Avec arrosage interne

### Domaine d'utilisation

P	M	K	N	S	H
	✓			✓	

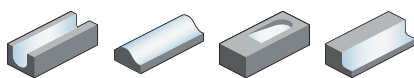
✓ Très approprié

✓ Approprié

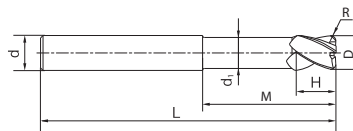
**Fraise torique**

**Usinage haute performance**

**TM-4RP**



- Attachement cylindrique, standard usine ZCC-CT
- Coupe au centre
- Angle d'hélice 38°



Article	*	Dimensions [mm]							Dents	Nuance
		D	R	d (h6)	d <sub>1</sub>	H	M	L		KMS405
TM-4RP-D16.0R2.5		16	2.5	16	15	32	50	100	4	○
TM-4RP-D16.0R3.0		16	3.0	15	14	32	50	100	4	●
TM-4RP-D16.0R3.2		16	3.2	16	15	32	50	100	4	●
TM-4RP-D16.0R4.0		16	4.0	16	15	32	50	100	4	●
TM-4RP-D16.0R5.0		16	5.0	16	15	32	50	100	4	●
TM-4RP-D16.0R6.3		16	6.3	16	15	32	50	100	4	○
TM-4RP-D20.0R1.0		20	1.0	20	19	35	60	110	4	●
TM-4RP-D20.0R1.25		20	1.25	20	19	35	60	110	4	●
TM-4RP-D20.0R1.5		20	1.5	20	19	35	60	110	4	●
TM-4RP-D20.0R1.6		20	1.6	20	19	35	60	110	4	●
TM-4RP-D20.0R2.0		20	2.0	20	19	35	60	110	4	●
TM-4RP-D20.0R2.5		20	2.5	20	19	35	60	110	4	○
TM-4RP-D20.0R3.0		20	3.0	20	19	35	60	110	4	●
TM-4RP-D20.0R3.2		20	3.2	20	19	35	60	110	4	●
TM-4RP-D20.0R4.0		20	4.0	20	19	35	60	110	4	●
TM-4RP-D20.0R5.0		20	5.0	20	19	35	60	110	4	●
TM-4RP-D20.0R6.3		20	6.3	20	19	35	60	110	4	●
TM-4RP-D25.0R1.0		25	1.0	25	24	45	75	150	4	●
TM-4RP-D25.0R1.25		25	1.25	25	24	45	75	150	4	○
TM-4RP-D25.0R1.5		25	1.5	25	24	45	75	150	4	●
TM-4RP-D25.0R1.6		25	1.6	25	24	45	75	150	4	●
TM-4RP-D25.0R2.0		25	2.0	25	24	45	75	150	4	●
TM-4RP-D25.0R2.5		25	2.5	25	24	45	75	150	4	●
TM-4RP-D25.0R3.0		25	3.0	25	24	45	75	150	4	●
TM-4RP-D25.0R3.2		25	3.2	25	24	45	75	150	4	●
TM-4RP-D25.0R4.0		25	4.0	25	24	45	75	150	4	●
TM-4RP-D25.0R5.0		25	5.0	25	24	45	75	150	4	●
TM-4RP-D25.0R6.3		25	6.3	25	24	45	75	150	4	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

P	M	K	N	S	H
	✓			✓	

✓ Très approprié

✓ Approprié

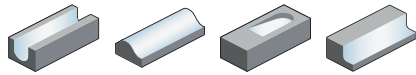
**B**  
Fraisage



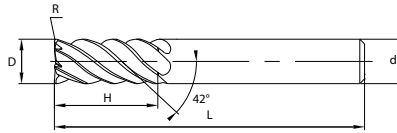
# A

## Fraise torique Usinage haute performance

### TM-5R



- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 42°



# B

Fraisage

Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-5R-D6.0R0.3		6	0.3	6	16	50	5	●
TM-5R-D6.0R0.5		6	0.5	6	16	50	5	●
TM-5R-D6.0R 0.75		6	0.75	6	16	50	5	○
TM-5R-D6.0R1.0		6	1.0	6	16	50	5	●
TM-5R-D8.0R0.3		8	0.3	8	20	60	5	●
TM-5R-D8.0R0.5		8	0.5	8	20	60	5	●
TM-5R-D8.0R0.75		8	0.75	8	20	60	5	○
TM-5R-D8.0R1.0		8	1.0	8	20	60	5	●
TM-5R-D10.0R0.5		10	0.5	10	25	75	5	●
TM-5R-D10.0R0.75		10	0.75	10	25	75	5	○
TM-5R-D10.0R1.0		10	1.0	10	25	75	5	●
TM-5R-D10.0R1.25		10	1.25	10	25	75	5	○
TM-5R-D10.0R1.5		10	1.5	10	25	75	5	●
TM-5R-D10.0R1.6		10	1.6	10	25	75	5	●
TM-5R-D10.0R2.0		10	2.0	10	25	75	5	●
TM-5R-D10.0R2.5		10	2.5	10	25	75	5	○
TM-5R-D10.0R3.0		10	3.0	10	25	75	5	●

● En stock ○ Sur demande

\* Avec arrosage interne

### Domaine d'utilisation

P	M	K	N	S	H
	✓			✓	

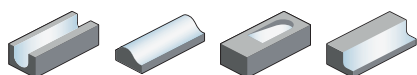
✓ Très approprié

✓ Approprié

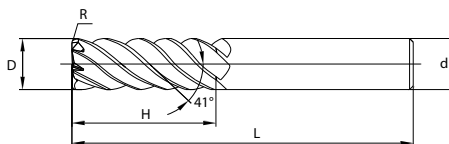
**Fraise torique**

**Usinage haute performance**

**TM-7R**



- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 41°



Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-7R-D12.0R0.5		12	0.5	12	30	75	7	●
TM-7R-D12.0R0.75		12	0.75	12	30	75	7	○
TM-7R-D12.0R1.0		12	1.0	12	30	75	7	●
TM-7R-D12.0R1.25		12	1.25	12	30	75	7	○
TM-7R-D12.0R1.5		12	1.5	12	30	75	7	●
TM-7R-D12.0R1.6		12	1.6	12	30	75	7	●
TM-7R-D12.0R2.0		12	2.0	12	30	75	7	●
TM-7R-D12.0R2.5		12	2.5	12	30	75	7	●
TM-7R-D12.0R3.0		12	3.0	12	30	75	7	●
TM-7R-D12.0R3.2		12	3.2	12	30	75	7	●
TM-7R-D12.0R4.0		12	4.0	12	30	75	7	●
TM-7R-D16.0R1.0		16	1.0	16	35	90	7	●
TM-7R-D16.0R1.25		16	1.25	16	35	90	7	○
TM-7R-D16.0R1.5		16	1.5	16	35	90	7	●
TM-7R-D16.0R1.6		16	1.6	16	35	90	7	●
TM-7R-D16.0R2.0		16	2.0	16	35	90	7	●
TM-7R-D16.0R2.5		16	2.5	16	35	90	7	●
TM-7R-D16.0R3.0		16	3.0	16	35	90	7	●
TM-7R-D16.0R3.2		16	3.2	16	35	90	7	●
TM-7R-D16.0R4.0		16	4.0	16	35	90	7	●
TM-7R-D16.0R5.0		16	5.0	16	35	90	7	●
TM-7R-D16.0R6.3		16	6.3	16	35	90	7	○
TM-7R-D20.0R1.0		20	1.0	20	45	100	7	●
TM-7R-D20.0R1.25		20	1.25	20	45	100	7	○
TM-7R-D20.0R1.5		20	1.5	20	45	100	7	●
TM-7R-D20.0R1.6		20	1.6	20	45	100	7	●
TM-7R-D20.0R2.0		20	2.0	20	45	100	7	●
TM-7R-D20.0R2.5		20	2.5	20	45	100	7	●
TM-7R-D20.0R3.0		20	3.0	20	45	100	7	●
TM-7R-D20.0R3.2		20	3.2	20	45	100	7	●
TM-7R-D20.0R4.0		20	4.0	20	45	100	7	●
TM-7R-D20.0R5.0		20	5.0	20	45	100	7	●
TM-7R-D20.0R6.3		20	6.3	20	45	100	7	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

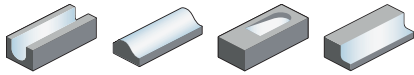
P	M	K	N	S	H
	✓			✓	

✓ Très approprié

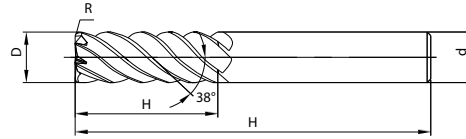
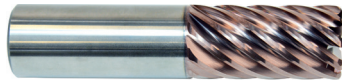
✓ Approprié

## Fraise torique Usinage haute performance

### TM-9R



- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 38°



Article	*	Dimensions [mm]					Dents	Nuance
		D	R	d (h6)	H	L		KMS405
TM-9R-D25.0R1.0		25	1.0	25	50	110	9	●
TM-9R-D25.0R1.25		25	1.25	25	50	110	9	○
TM-9R-D25.0R1.5		25	1.5	25	50	110	9	●
TM-9R-D25.0R1.6		25	1.6	25	50	110	9	●
TM-9R-D25.0R2.0		25	2.0	25	50	110	9	●
TM-9R-D25.0R2.5		25	2.5	25	50	110	9	○
TM-9R-D25.0R3.0		25	3.0	25	50	110	9	●
TM-9R-D25.0R3.2		25	3.2	25	50	110	9	●
TM-9R-D25.0R4.0		25	4.0	25	50	110	9	●
TM-9R-D25.0R5.0		25	5.0	25	50	110	9	●
TM-9R-D25.0R6.3		25	6.3	25	50	110	9	●

● En stock ○ Sur demande

\* Avec arrosage interne

### Domaine d'utilisation

P	M	K	N	S	H
	✓			✓	

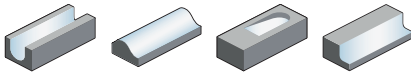
✓ Très approprié

✓ Approprié

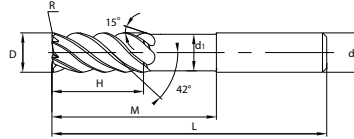
**Fraise torique**

**Usinage haute performance**

**TM-5RP**



- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 41°



Article	*	Dimensions [mm]							Dents	Nuance
		D	R	d (h6)	d <sub>1</sub>	H	M	L		KMS405
TM-5RP-D8.0R0.3		8	0.3	8	7.4	16	25	75	5	●
TM-5RP-D8.0R0.5		8	0.5	8	7.4	16	25	75	5	●
TM-5RP-D8.0R0.75		8	0.75	8	7.4	16	25	75	5	○
TM-5RP-D8.0R1.0		8	1.0	8	7.4	16	25	75	5	●
TM-5RP-D10.0R0.5		10	0.5	10	9.4	20	32	75	5	●
TM-5RP-D10.0R0.75		10	0.75	10	9.4	20	32	75	5	○
TM-5RP-D10.0R1.0		10	1.0	10	9.4	20	32	75	5	●
TM-5RP-D10.0R1.25		10	1.25	10	9.4	20	32	75	5	○
TM-5RP-D10.0R1.5		10	1.5	10	9.4	20	32	75	5	●
TM-5RP-D10.0R1.6		10	1.6	10	9.4	20	32	75	5	●
TM-5RP-D10.0R2.0		10	2.0	10	9.4	20	32	75	5	●
TM-5RP-D10.0R2.5		10	2.5	10	9.4	20	32	75	5	●
TM-5RP-D10.0R3.0		10	3.0	10	9.4	20	32	75	5	●

● En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

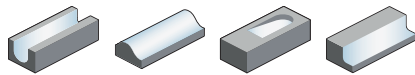
P	M	K	N	S	H
	✓			✓	

✓ Très approprié

✓ Approprié

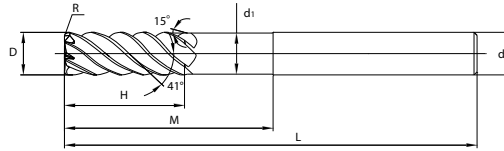
## Fraise torique

## Usinage haute performance



### TM-7RP

- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 42°



B

Fraisage

Article	*	Dimensions [mm]							Dents	Nuance
		D	R	d (h6)	d <sub>1</sub>	H	M	L		KMS405
TM-7RP-D12.0R0.5		12	0.5	12	11.4	24	40	90	7	●
TM-7RP-D12.0R0.75		12	0.75	12	11.4	24	40	90	7	○
TM-7RP-D12.0R1.0		12	1.0	12	11.4	24	40	90	7	●
TM-7RP-D12.0R1.25		12	1.25	12	11.4	24	40	90	7	○
TM-7RP-D12.0R1.5		12	1.5	12	11.4	24	40	90	7	●
TM-7RP-D12.0R1.6		12	1.6	12	11.4	24	40	90	7	●
TM-7RP-D12.0R2.0		12	2.0	12	11.4	24	40	90	7	●
TM-7RP-D12.0R2.5		12	2.5	12	11.4	24	40	90	7	●
TM-7RP-D12.0R3.0		12	3.0	12	11.4	24	40	90	7	●
TM-7RP-D12.0R3.2		12	3.2	12	11.4	24	40	90	7	●
TM-7RP-D12.0R4.0		12	4.0	12	11.4	24	40	90	7	●
TM-7RP-D16.0R1.0		16	1.0	16	15	32	50	100	7	●
TM-7RP-D16.0R1.25		16	1.25	16	15	32	50	100	7	○
TM-7RP-D16.0R1.5		16	1.5	16	15	32	50	100	7	●
TM-7RP-D16.0R1.6		16	1.6	16	15	32	50	100	7	●
TM-7RP-D16.0R2.0		16	2.0	16	15	32	50	100	7	●
TM-7RP-D16.0R2.5		16	2.5	16	15	32	50	100	7	●
TM-7RP-D16.0R3.0		16	3.0	16	15	32	50	100	7	●
TM-7RP-D16.0R3.2		16	3.2	16	15	32	50	100	7	●
TM-7RP-D16.0R4.0		16	4.0	16	15	32	50	100	7	●
TM-7RP-D16.0R5.0		16	5.0	16	15	32	50	100	7	●
TM-7RP-D16.0R6.3		16	6.3	16	15	32	50	100	7	○
TM-7RP-D20.0R1.0		20	1.0	20	19	35	60	110	7	●
TM-7RP-D20.0R1.25		20	1.25	20	19	35	60	110	7	○
TM-7RP-D20.0R1.5		20	1.5	20	19	35	60	110	7	●
TM-7RP-D20.0R1.6		20	1.6	20	19	35	60	110	7	●
TM-7RP-D20.0R2.0		20	2.0	20	19	35	60	110	7	●
TM-7RP-D20.0R2.5		20	2.5	20	19	35	60	110	7	●
TM-7RP-D20.0R3.0		20	3.0	20	19	35	60	110	7	●
TM-7RP-D20.0R3.2		20	3.2	20	19	35	60	110	7	●
TM-7RP-D20.0R4.0		20	4.0	20	19	35	60	110	7	●
TM-7RP-D20.0R5.0		20	5.0	20	19	35	60	110	7	●
TM-7RP-D20.0R6.3		20	6.3	20	19	35	60	110	7	●

● En stock ○ Sur demande

\* Avec arrosage interne

### Domaine d'utilisation

P	M	K	N	S	H
	✓			✓	

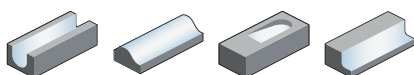
✓ Très approprié

✓ Approprié

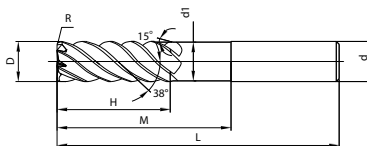
**Fraise torique**

**Usinage haute performance**

**TM-9RP**



- Attachement cylindrique, standard usine ZCC-CT
- Angle d'hélice 38°



Article	*	Dimensions [mm]							Dents	Nuance
		D	R	d (h6)	d <sub>1</sub>	H	M	L		KMS405
TM-9RP-D25.0R1.0		25	1.0	25	24	45	75	150	9	●
TM-9RP-D25.0R1.25		25	1.25	25	24	45	75	150	9	○
TM-9RP-D25.0R1.5		25	1.5	25	24	45	75	150	9	●
TM-9RP-D25.0R1.6		25	1.6	25	24	45	75	150	9	●
TM-9RP-D25.0R2.0		25	2.0	25	24	45	75	150	9	●
TM-9RP-D25.0R2.5		25	2.5	25	24	45	75	150	9	●
TM-9RP-D25.0R3.0		25	3.0	25	24	45	75	150	9	●
TM-9RP-D25.0R3.2		25	3.2	25	24	45	75	150	9	●
TM-9RP-D25.0R4.0		25	4.0	25	24	45	75	150	9	●
TM-9RP-D25.0R5.0		25	5.0	25	24	45	75	150	9	●
TM-9RP-D25.0R6.3		25	6.3	25	24	45	75	150	9	●

- En stock ○ Sur demande

\* Avec arrosage interne

**Domaine d'utilisation**

P	M	K	N	S	H
	✓			✓	

✓ Très approprié

✓ Approprié

