



04

FRESE TORICHE
CORNER RADIUS END MILLS
FRAISE TORIQUE
TORUSFRÄSER END MILL

FRESA Z2 TORICA - Serie Normale

EN Z2 CORNER RADIUS END MILL | Normal Series

FR Z2 FRAISE TORIQUE | Serie Normale

DE Z2 TORUSFRÄSER | Normale Serien

IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Normale



MAXIMIZER



SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)				
2 Taglienti (Z2)	Dc	d	R	Lc	L
MES-H2020S-r0,2	2	6	0,2	6	50
MES-H2020S-r0,5	2	6	0,5	6	50
MES-H2030S-r0,2	3	6	0,2	8	50
MES-H2030S-r0,5	3	6	0,5	8	50
MES-H2040S-r0,2	4	6	0,2	11	50
MES-H2040S-r0,5	4	6	0,5	11	50
MES-H2040S-r1,0	4	6	1	11	50
MES-H2050S-r0,2	5	6	0,2	12	50
MES-H2050S-r0,5	5	6	0,5	12	50
MES-H2050S-r1,0	5	6	1	12	50
MES-H2060S-r0,2	6	6	0,2	12	50
MES-H2060S-r0,5	6	6	0,5	13	50
MES-H2060S-r1,0	6	6	1	13	50
MES-H2060S-r1,5	6	6	1,5	13	50
MES-H2060S-r2,0	6	6	2	13	50
MES-H2080S-r0,2	8	8	0,2	15	60
MES-H2080S-r0,5	8	8	0,5	15	60
MES-H2080S-r1,0	8	8	1	15	60

SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)				
2 Taglienti (Z2)	Dc	d	R	Lc	L
MES-H2080S-r1,5	8	8	1,5	15	60
MES-H2080S-r2,0	8	8	2	15	60
MES-H2100S-r0,5	10	10	0,5	20	72
MES-H2100S-r1,0	10	10	1	20	72
MES-H2100S-r1,5	10	10	1,5	20	72
MES-H2100S-r2,0	10	10	2	20	72
MES-H2100S-r3,0	10	10	3	20	72
MES-H2120S-r0,5	12	12	0,5	24	75
MES-H2120S-r1,0	12	12	1	24	75
MES-H2120S-r1,5	12	12	1,5	24	75
MES-H2120S-r2,0	12	12	2	24	75
MES-H2120S-r3,0	12	12	3	24	75
MES-H2160S-r0,5	16	16	0,5	30	92
MES-H2160S-r1,0	16	16	1	30	92
MES-H2160S-r2,0	16	16	2	30	92
MES-H2160S-r3,0	16	16	3	30	92
MES-H2160S-r4,0	16	16	4	30	92

FRESA Z4 TORICA - Serie Normale

EN Z4 CORNER RADIUS END MIL | Normal Series

FR Z4 FRAISE TORIQUE | Serie Normale

DE Z4 TORUSFRÄSER | Normale Serien

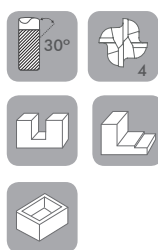
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Normale



MAXIMIZER



SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)				
4 Taglienti (Z4)	Dc	d	R	Lc	L
MES-H4020S-r0,2	2	6	0,2	6	50
MES-H4020S-r0,5	2	6	0,5	6	50
MES-H4030S-r0,2	3	6	0,2	8	50
MES-H4030S-r0,5	3	6	0,5	8	50
MES-H4040S-r0,2	4	6	0,2	11	50
MES-H4040S-r0,5	4	6	0,5	11	50
MES-H4040S-r1,0	4	6	1	11	50
MES-H4050S-r0,2	5	6	0,2	12	50
MES-H4050S-r0,5	5	6	0,5	12	50
MES-H4050S-r1,0	5	6	1	12	50
MES-H4060S-r0,2	6	6	0,2	12	50
MES-H4060S-r0,5	6	6	0,5	13	50
MES-H4060S-r1,0	6	6	1	13	50
MES-H4060S-r1,5	6	6	1,5	13	50
MES-H4060S-r2,0	6	6	2	13	50
MES-H4080S-r0,2	8	8	0,2	15	60
MES-H4080S-r0,5	8	8	0,5	15	60
MES-H4080S-r1,0	8	8	1	15	60
MES-H4080S-r1,5	8	8	1,5	15	60

SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)				
4 Taglienti (Z4)	Dc	d	R	Lc	L
MES-H4080S-r2,0	8	8	2	15	60
MES-H4100S-r0,5	10	10	0,5	20	72
MES-H4100S-r1,0	10	10	1	20	72
MES-H4100S-r1,5	10	10	1,5	20	72
MES-H4100S-r2,0	10	10	2	20	72
MES-H4100S-r3,0	10	10	3	20	72
MES-H4120S-r0,5	12	12	0,5	24	75
MES-H4120S-r1,0	12	12	1	24	75
MES-H4120S-r1,5	12	12	1,5	24	75
MES-H4120S-r2,0	12	12	2	24	75
MES-H4120S-r3,0	12	12	3	24	75
MES-H4160S-r0,5	16	16	0,5	30	92
MES-H4160S-r1,0	16	16	1	30	92
MES-H4160S-r2,0	16	16	2	30	92
MES-H4160S-r3,0	16	16	3	30	92
MES-H4160S-r4,0	16	16	4	30	92

FRESA Z2/Z4 TORICA - Serie Lunga - Tagliente Corto

EN Z2/Z4 CORNER RADIUS END MILL | Short Cutting - Long Series

FR Z2/Z4 FRAISE TORIQUE | Coupe Courte - Serie Longue

DE Z2/Z4 TORUSFRÄSER | Kurzes Schneiden - Lange Serien

IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

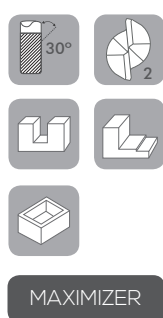
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FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

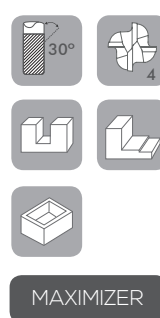
DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Lunga - Tagliente Corto

Z2



Z4



SERIE LUNGA - Long Series

TAGLIENTE CORTO - Short Cutting

Ref.	Dimensione - Dimension (mm)				
2 Taglienti (Z2)	Dc	d	R	Lc	L
MES-H2060X-r0,2	6	6	0,2	13	80
MES-H2060X-r0,5	6	6	0,5	13	80
MES-H2060X-r1,0	6	6	1	13	80
MES-H2060X-r1,5	6	6	1,5	13	80
MES-H2060X-r2,0	6	6	2	13	80
MES-H2080X-r0,5	8	8	0,5	19	90
MES-H2080X-r1,0	8	8	1	19	90
MES-H2080X-r1,5	8	8	1,5	19	90
MES-H2080X-r2,0	8	8	2	19	90
MES-H2100X-r0,5	10	10	0,5	22	100
MES-H2100X-r1,0	10	10	1	22	100
MES-H2100X-r1,5	10	10	1,5	22	100
MES-H2100X-r2,0	10	10	2	22	100
MES-H2100X-r3,0	10	10	3	22	100
MES-H2120X-r0,5	12	12	0,5	26	100
MES-H2120X-r1,0	12	12	1	26	100
MES-H2120X-r1,5	12	12	1,5	26	100
MES-H2120X-r2,0	12	12	2	26	100
MES-H2120X-r3,0	12	12	3	26	100

SERIE LUNGA - Long Series

TAGLIENTE CORTO - Short Cutting

Ref.	Dimensione - Dimension (mm)				
4 Taglienti (Z4)	Dc	d	R	Lc	L
MES-H4060X-r0,2	6	6	0,2	13	80
MES-H4060X-r0,5	6	6	0,5	13	80
MES-H4060X-r1,0	6	6	1	13	80
MES-H4060X-r1,5	6	6	1,5	13	80
MES-H4060X-r2,0	6	6	2	13	80
MES-H4080X-r0,5	8	8	0,5	19	90
MES-H4080X-r1,0	8	8	1	19	90
MES-H4080X-r1,5	8	8	1,5	19	90
MES-H4080X-r2,0	8	8	2	19	90
MES-H4100X-r0,5	10	10	0,5	22	100
MES-H4100X-r1,0	10	10	1	22	100
MES-H4100X-r1,5	10	10	1,5	22	100
MES-H4100X-r2,0	10	10	2	22	100
MES-H4100X-r3,0	10	10	3	22	100
MES-H4120X-r0,5	12	12	0,5	26	100
MES-H4120X-r1,0	12	12	1	26	100
MES-H4120X-r1,5	12	12	1,5	26	100
MES-H4120X-r2,0	12	12	2	26	100
MES-H4120X-r3,0	12	12	3	26	100

FRESA Z2 TORICA - Serie Lunga - Tagliente Lungo

EN Z2 CORNER RADIUS END MILL | Long Cutting - Long Series

FR Z2 FRAISE TORIQUE | Longue Coupe - Serie Longue

DE Z2 TORUSFRÄSER | Langer Schnitt - Lange Serien

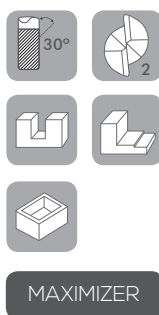
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Lunga - Tagliente Lungo Z2



SERIE LUNGA - Long Series TAGLIENTE LUNGO - Long Cutting

Ref.	Dimensione - Dimension (mm)				
2 Taglienti (Z2)	Dc	d	R	Lc	L
MES-H2020L-R0,2	2	6	0,2	10	80
MES-H2020L-R0,5	2	6	0,5	10	80
MES-H2030L-R0,2	3	6	0,2	15	80
MES-H2030L-R0,5	3	6	0,5	15	80
MES-H2040L-R0,2	4	6	0,2	20	80
MES-H2040L-R0,5	4	6	0,5	20	80
MES-H4040L-R1,0	4	6	1	20	80
MES-H2050L-R0,2	5	6	0,2	25	80
MES-H2050L-R0,5	5	6	0,5	25	80
MES-H2050L-R1,0	5	6	1	25	80
MES-H2060L-r0,2	6	6	0,2	25	80
MES-H2060L-r0,5	6	6	0,5	25	80
MES-H2060L-r1,0	6	6	1	25	80

SERIE LUNGA - Long Series TAGLIENTE LUNGO - Long Cutting

Ref.	Dimensione - Dimension (mm)				
2 Taglienti (Z2)	Dc	d	R	Lc	L
MES-H2060L-r2,0	6	6	2	25	80
MES-H2080L-r0,5	8	8	0,5	35	90
MES-H2080L-r1,0	8	8	1	35	90
MES-H2080L-r2,0	8	8	2	35	90
MES-H2100L-r0,5	10	10	0,5	45	100
MES-H2100L-r1,0	10	10	1	45	100
MES-H2100L-r2,0	10	10	2	45	100
MES-H2100L-r3,0	10	10	3	45	100
MES-H2120L-r0,5	12	12	0,5	50	100
MES-H2120L-r1,0	12	12	1	50	100
MES-H2120L-r2,0	12	12	2	50	100
MES-H2120L-r3,0	12	12	3	50	100

FRESA Z4 TORICA - Serie Lunga - Tagliente Lungo

EN Z4 CORNER RADIUS END MILL | Long Cutting - Long Series

FR Z4 FRAISE TORIQUE | Longue Coupe - Serie Longue

DE Z4 TORUSFRÄSER | Langer Schnitt - Lange Serien

IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Lunga - Tagliente Lungo

Z4



SERIE LUNGA - Long Series TAGLIENTE LUNGO - Long Cutting

Ref.	Dimensione - Dimension (mm)				
4 Taglienti (Z4)	Dc	d	R	Lc	L
MES-H4020L-R0,5	2	6	0,5	10	80
MES-H4020L-R0,2	2	6	0,2	10	80
MES-H4030L-R0,5	3	6	0,5	15	80
MES-H4040L-R0,2	4	6	0,2	20	80
MES-H4040L-R0,5	4	6	0,5	20	80
MES-H4040L-R1,0	4	6	1	20	80
MES-H4050L-R0,2	5	6	0,2	25	80
MES-H4050L-R0,5	5	6	0,5	25	80
MES-H4050L-R1,0	5	6	1	25	80
MES-H4060L-r0,2	6	6	0,2	25	80
MES-H4060L-r0,5	6	6	0,5	25	80
MES-H4060L-r1,0	6	6	1	25	80
MES-H4060L-r2,0	6	6	2	25	80
MES-H4080L-r0,5	8	8	0,5	35	90
MES-H4080L-r1,0	8	8	1	35	90
MES-H4080L-r2,0	8	8	2	35	90

SERIE LUNGA - Long Series TAGLIENTE LUNGO - Long Cutting

Ref.	Dimensione - Dimension (mm)				
4 Taglienti (Z4)	Dc	d	R	Lc	L
MES-H4100L-r0,5	10	10	0,5	45	100
MES-H4100L-r1,0	10	10	1	45	100
MES-H4100L-r2,0	10	10	2	45	100
MES-H4100L-r3,0	10	10	3	45	100
MES-H4120L-r0,5	12	12	0,5	50	100
MES-H4120L-r1,0	12	12	1	50	100
MES-H4120L-r2,0	12	12	2	50	100
MES-H4120L-r3,0	12	12	3	50	100

FRESA Z2/Z4 TORICA - Extra Lunga

EN Z2/Z4 CORNER RADIUS END MILL | Extra Long Series

FR Z2/Z4 FRAISE TORIQUE | Serie Extra Longue

DE Z2/Z4 TORUSFRÄSER | Extra Langer Serien

IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Extra Lunga

Z2

Z4



SERIE EXTRA LUNGA - Extra Long Series

Ref.	Dimensione - Dimension (mm)				
2 Taglienti (Z2)	Dc	d	R	Lc	L
MES-H2060XL-r0,5	6	6	0,5	13	150
MES-H2060XL-r1,0	6	6	1	13	150
MES-H2060XL-r1,5	6	6	1,5	13	150
MES-H2060XL-r2,0	6	6	2	13	150
MES-H2080XL-r0,5	8	8	0,5	19	150
MES-H2080XL-r1,0	8	8	1	19	150
MES-H2080XL-r1,5	8	8	1,5	19	150
MES-H2080XL-r2,0	8	8	2	19	150
MES-H2100XL-r0,5	10	10	0,5	22	150
MES-H2100XL-r1,0	10	10	1	22	150
MES-H2100XL-r2,0	10	10	2	22	150
MES-H2100XL-r3,0	10	10	3	22	150
MES-H2120XL-r0,5	12	12	0,5	26	150
MES-H2120XL-r1,0	12	12	1	26	150
MES-H2120XL-r2,0	12	12	2	26	150
MES-H2120XL-r3,0	12	12	3	26	150

SERIE EXTRA LUNGA - Extra Long Series

Ref.	Dimensione - Dimension (mm)				
4 Taglienti (Z4)	Dc	d	R	Lc	L
MES-H4060XL-r0,5	6	6	0,5	13	150
MES-H4060XL-r1,0	6	6	1	13	150
MES-H4060XL-r1,5	6	6	1,5	13	150
MES-H4060XL-r2,0	6	6	2	13	150
MES-H4080XL-r0,5	8	8	0,5	19	150
MES-H4080XL-r1,0	8	8	1	19	150
MES-H4080XL-r1,5	8	8	1,5	19	150
MES-H4080XL-r2,0	8	8	2	19	150
MES-H4100XL-r0,5	10	10	0,5	22	150
MES-H4100XL-r1,0	10	10	1	22	150
MES-H4100XL-r2,0	10	10	2	22	150
MES-H4100XL-r3,0	10	10	3	22	150
MES-H4120XL-r0,5	12	12	0,5	26	150
MES-H4120XL-r1,0	12	12	1	26	150
MES-H4120XL-r2,0	12	12	2	26	150
MES-H4120XL-r3,0	12	12	3	26	150

FRESA Z2 TORICA - Scarico Ribassato - Codolo Ø6

EN Z2 CORNER RADIUS END MILL | SHANK D6 | Reduced Neck

FR Z2 FRAISE TORIQUE | Col réduit

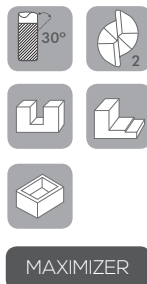
DE Z2 TORUSFRÄSER | Reduzierter Hals

IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

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DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.



SCARICO RIBASSATO - Reduced Neck

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	U	L
MES-H2010X-r0,1-U5	1	6	0,1	1,5	5	57
MES-H2010X-r0,1-U12	1	6	0,1	1,5	12	65
MES-H2010X-r0,1-U20	1	6	0,1	1,5	20	65
MES-H2010X-r0,25-U5	1	6	0,25	1,5	5	57
MES-H2010X-r0,25-U12	1	6	0,25	1,5	12	65
MES-H2010X-r0,25-U20	1	6	0,25	1,5	20	65
MES-H2015X-r0,1-U5	1,5	6	0,1	2	5	57
MES-H2015X-r0,1-U12	1,5	6	0,1	2	12	65
MES-H2015X-r0,1-U20	1,5	6	0,1	2	20	65
MES-H2015X-r0,1-U25	1,5	6	0,1	2	25	65
MES-H2015X-r0,3-U5	1,5	6	0,3	2	5	57
MES-H2015X-r0,3-U12	1,5	6	0,3	2	12	65
MES-H2015X-r0,3-U20	1,5	6	0,3	2	20	65
MES-H2015X-r0,3-U25	1,5	6	0,3	2	25	65
MES-H2020X-r0,2-U10	2	6	0,2	3	10	80
MES-H2020X-r0,2-U15	2	6	0,2	3	15	80
MES-H2020X-r0,2-U20	2	6	0,2	3	20	80
MES-H2020X-r0,2-U25	2	6	0,2	3	25	80
MES-H2020X-r0,2-U30	2	6	0,2	3	30	80
MES-H2020X-r0,2-U40	2	6	0,2	3	40	80
MES-H2020X-r0,5-U10	2	6	0,5	3	10	80
MES-H2020X-r0,5-U15	2	6	0,5	3	15	80
MES-H2020X-r0,5-U20	2	6	0,5	3	20	80
MES-H2020X-r0,5-U25	2	6	0,5	3	25	80
MES-H2020X-r0,5-U30	2	6	0,5	3	30	80
MES-H2020X-r0,5-U40	2	6	0,5	3	40	80
MES-H2030X-r0,2-U15	3	6	0,2	5	15	80

SCARICO RIBASSATO - Reduced Neck

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	U	L
MES-H2030X-r0,2-U20	3	6	0,2	5	20	80
MES-H2030X-r0,2-U25	3	6	0,2	5	25	80
MES-H2030X-r0,2-U30	3	6	0,2	5	30	80
MES-H2030X-r0,2-U40	3	6	0,2	5	40	80
MES-H2030X-r0,5-U15	3	6	0,5	5	15	80
MES-H2030X-r0,5-U20	3	6	0,5	5	20	80
MES-H2030X-r0,5-U25	3	6	0,5	5	25	80
MES-H2030X-r0,5-U30	3	6	0,5	5	30	80
MES-H2030X-r0,5-U40	3	6	0,5	5	40	80
MES-H2040X-r0,2-U20	4	6	0,2	6	20	80
MES-H2040X-r0,2-U30	4	6	0,2	6	30	80
MES-H2040X-r0,2-U40	4	6	0,2	6	40	80
MES-H2040X-r0,5-U20	4	6	0,5	6	20	80
MES-H2040X-r0,5-U30	4	6	0,5	6	30	80
MES-H2040X-r0,5-U40	4	6	0,5	6	40	80
MES-H2040X-r1,0-U20	4	6	1	6	20	80
MES-H2040X-r1,0-U30	4	6	1	6	30	80
MES-H2040X-r1,0-U40	4	6	1	6	40	80
MES-H2050X-r0,2-U25	5	6	0,2	7	25	80
MES-H2050X-r0,2-U30	5	6	0,2	7	30	80
MES-H2050X-r0,2-U40	5	6	0,2	7	40	80
MES-H2050X-r0,5-U25	5	6	0,5	7	25	80
MES-H2050X-r0,5-U30	5	6	0,5	7	30	80
MES-H2050X-r0,5-U40	5	6	0,5	7	40	80
MES-H2050X-r1,0-U25	5	6	1	7	25	80
MES-H2050X-r1,0-U30	5	6	1	7	30	80
MES-H2050X-r1,0-U40	5	6	1	7	40	80

FRESA Z4 TORICA - Scarico Ribassato - Codolo Ø6

EN Z4 CORNER RADIUS END MILL | SHANK D6 | Reduced Neck

FR Z4 FRAISE TORIQUE | Col réduit

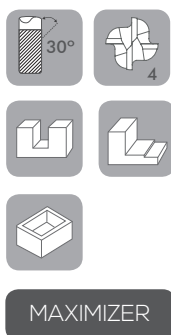
DE Z4 TORUSFRÄSER | Reduzierter Hals

IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.



SCARICO RIBASSATO - Reduced Neck

Ref.	Dimensione - Dimension (mm)					
4 Taglienti (Z4)	Dc	d	R	Lc	U	L
MES-H4020X-0,2-U10	2	6	0,2	3	10	80
MES-H4020X-0,2-U15	2	6	0,2	3	15	80
MES-H4020X-0,2-U20	2	6	0,2	3	20	80
MES-H4020X-0,2-U25	2	6	0,2	3	25	80
MES-H4020X-0,2-U30	2	6	0,2	3	30	80
MES-H4020X-0,2-U40	2	6	0,2	3	40	80
MES-H4020X-0,5-U10	2	6	0,5	3	10	80
MES-H4020X-0,5-U15	2	6	0,5	3	15	80
MES-H4020X-0,5-U20	2	6	0,5	3	20	80
MES-H4020X-0,5-U25	2	6	0,5	3	25	80
MES-H4020X-0,5-U30	2	6	0,5	3	30	80
MES-H4020X-0,5-U40	2	6	0,5	3	40	80
MES-H4030X-0,2-U15	3	6	0,2	5	15	80
MES-H4030X-0,2-U20	3	6	0,2	5	20	80
MES-H4030X-0,2-U25	3	6	0,2	5	25	80
MES-H4030X-0,2-U30	3	6	0,2	5	30	80
MES-H4030X-0,2-U40	3	6	0,2	5	40	80
MES-H4030X-0,5-U15	3	6	0,5	5	15	80
MES-H4030X-0,5-U20	3	6	0,5	5	20	80
MES-H4030X-0,5-U25	3	6	0,5	5	25	80

SCARICO RIBASSATO - Reduced Neck

Ref.	Dimensione - Dimension (mm)					
4 Taglienti (Z4)	Dc	d	R	Lc	U	L
MES-H4030X-0,5-U30	3	6	0,5	5	30	80
MES-H4030X-0,5-U40	3	6	0,5	5	40	80
MES-H4040X-0,2-U20	4	6	0,2	6	20	80
MES-H4040X-0,2-U30	4	6	0,2	6	30	80
MES-H4040X-0,2-U40	4	6	0,2	6	40	80
MES-H4040X-0,5-U20	4	6	0,5	6	20	80
MES-H4040X-0,5-U30	4	6	0,5	6	30	80
MES-H4040X-0,5-U40	4	6	0,5	6	40	80
MES-H4040X-1,0-U20	4	6	1	6	20	80
MES-H4040X-1,0-U30	4	6	1	6	30	80
MES-H4040X-1,0-U40	4	6	1	6	40	80
MES-H4050X-0,2-U25	5	6	0,2	7	25	80
MES-H4050X-0,2-U30	5	6	0,2	7	30	80
MES-H4050X-0,2-U40	5	6	0,2	7	40	80
MES-H4050X-0,5-U25	5	6	0,5	7	25	80
MES-H4050X-0,5-U30	5	6	0,5	7	30	80
MES-H4050X-0,5-U40	5	6	0,5	7	40	80
MES-H4050X-1,0-U25	5	6	1	7	25	80
MES-H4050X-r1,0-U30	5	6	1	7	30	80
MES-H4050X-r1,0-U40	5	6	1	7	40	80

FRESA Z2 TORICA - Serie Lunga

EN Z2 CORNER RADIUS END MILL | Long Series

FR Z2 FRAISE TORIQUE | Serie Longue

DE Z2 TORUSFRÄSE | Lange Serien

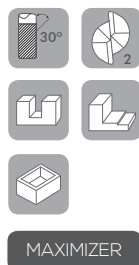
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Lunga



SERIE LUNGA - Long Series

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	U	L
MES-H2060X-0,2-U20	6	6	0,2	7	20	80
MES-H2060X-0,2-U30	6	6	0,2	7	30	80
MES-H2060X-0,2-U45	6	6	0,2	7	45	80
MES-H2060X-0,5-U20	6	6	0,5	7	20	80
MES-H2060X-0,5-U30	6	6	0,5	7	30	80
MES-H2060X-0,5-U45	6	6	0,5	7	45	80
MES-H2060X-1,0-U20	6	6	1	7	20	80
MES-H2060X-1,0-U30	6	6	1	7	30	80
MES-H2060X-1,0-U45	6	6	1	7	45	80
MES-H2060X-1,5-U20	6	6	1,5	7	20	80
MES-H2060X-1,5-U30	6	6	1,5	7	30	80
MES-H2060X-1,5-U45	6	6	1,5	7	45	80
MES-H2060X-2,0-U20	6	6	2	7	20	80
MES-H2060X-2,0-U30	6	6	2	7	30	80
MES-H2060X-2,0-U45	6	6	2	7	45	80
MES-H2080X-0,5-U25	8	8	0,5	9	25	90
MES-H2080X-0,5-U40	8	8	0,5	9	40	90
MES-H2080X-0,5-U55	8	8	0,5	9	55	90
MES-H2080X-1,0-U25	8	8	1	9	25	90
MES-H2080X-1,0-U40	8	8	1	9	40	90
MES-H2080X-1,0-U55	8	8	1	9	55	90
MES-H2080X-1,5-U25	8	8	1,5	9	25	90
MES-H2080X-1,5-U40	8	8	1,5	9	40	90
MES-H2080X-1,5-U55	8	8	1,5	9	55	90
MES-H2080X-2,0-U25	8	8	2	9	25	90
MES-H2080X-2,0-U40	8	8	2	9	40	90
MES-H2080X-2,0-U55	8	8	2	9	55	90
MES-H2100X-0,5-U30	10	10	0,5	11	30	100

SERIE LUNGA - Long Series

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	U	L
MES-H2100X-0,5-U45	10	10	0,5	11	45	100
MES-H2100X-0,5-U60	10	10	0,5	11	60	100
MES-H2100X-1,0-U30	10	10	1	11	30	100
MES-H2100X-1,0-U45	10	10	1	11	45	100
MES-H2100X-1,0-U60	10	10	1	11	60	100
MES-H2100X-2,0-U30	10	10	2	11	30	100
MES-H2100X-2,0-U45	10	10	2	11	45	100
MES-H2100X-2,0-U60	10	10	2	11	60	100
MES-H2100X-3,0-U30	10	10	3	11	30	100
MES-H2100X-3,0-U45	10	10	3	11	45	100
MES-H2100X-3,0-U60	10	10	3	11	60	100
MES-H2120X-0,5-U30	12	12	0,5	13	30	100
MES-H2120X-0,5-U45	12	12	0,5	13	45	100
MES-H2120X-0,5-U60	12	12	0,5	13	60	100
MES-H2120X-1,0-U30	12	12	1	13	30	100
MES-H2120X-1,0-U45	12	12	1	13	45	100
MES-H2120X-1,0-U60	12	12	1	13	60	100
MES-H2120X-2,0-U30	12	12	2	13	30	100
MES-H2120X-2,0-U45	12	12	2	13	45	100
MES-H2120X-2,0-U60	12	12	2	13	60	100
MES-H2120X-3,0-U30	12	12	3	13	30	100
MES-H2120X-3,0-U45	12	12	3	13	45	100
MES-H2120X-3,0-U60	12	12	3	13	60	100
MES-H2160X-0,5-U75	16	16	0,5	20	75	150
MES-H2160X-1,0-U75	16	16	1	20	75	150
MES-H2160X-2,0-U75	16	16	2	20	75	150
MES-H2160X-3,0-U75	16	16	2	20	75	150
MES-H2160X-4,0-U75	16	16	4	20	75	150

FRESA Z4 TORICA - Serie Lunga

EN Z4 CORNER RADIUS END MILL | Long Series

FR Z4 FRAISE TORIQUE | Serie Longue

DE Z4 TORUSFRÄSER | Lange Serien

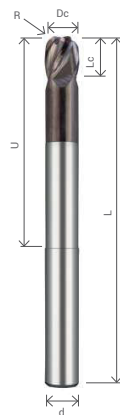
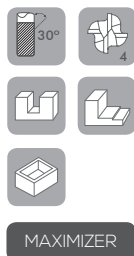
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Lunga



SERIE LUNGA - Long Series

Ref.	Dimensione - Dimension (mm)					
4 Taglienti (Z4)	Dc	d	R	Lc	U	L
MES-H4060X-r0,2-U20	6	6	0,2	7	20	80
MES-H4060X-r0,2-U30	6	6	0,2	7	30	80
MES-H4060X-r0,2-U45	6	6	0,2	7	45	80
MES-H4060X-r0,5-U20	6	6	0,5	7	20	80
MES-H4060X-r0,5-U30	6	6	0,5	7	30	80
MES-H4060X-r0,5-U45	6	6	0,5	7	45	80
MES-H4060X-r1,0-U20	6	6	1	7	20	80
MES-H4060X-r1,0-U30	6	6	1	7	30	80
MES-H4060X-r1,0-U45	6	6	1	7	45	80
MES-H4060X-r1,5-U20	6	6	1,5	7	20	80
MES-H4060X-r1,5-U30	6	6	1,5	7	30	80
MES-H4060X-r1,5-U45	6	6	1,5	7	45	80
MES-H4060X-r2,0-U20	6	6	2	7	20	80
MES-H4060X-r2,0-U30	6	6	2	7	30	80
MES-H4060X-r2,0-U45	6	6	2	7	45	80
MES-H4080X-r0,5-U25	8	8	0,5	9	25	90
MES-H4080X-r0,5-U40	8	8	0,5	9	40	90
MES-H4080X-r0,5-U55	8	8	0,5	9	55	90
MES-H4080X-r1,0-U25	8	8	1	9	25	90
MES-H4080X-r1,0-U40	8	8	1	9	40	90
MES-H4080X-r1,0-U55	8	8	1	9	55	90
MES-H4080X-r1,5-U25	8	8	1,5	9	25	90
MES-H4080X-r1,5-U40	8	8	1,5	9	40	90
MES-H4080X-r1,5-U55	8	8	1,5	9	55	90
MES-H4080X-r2,0-U25	8	8	2	9	25	90
MES-H4080X-r2,0-U40	8	8	2	9	40	90
MES-H4080X-r2,0-U55	8	8	2	9	55	90
MES-H4100X-r0,5-U30	10	10	0,5	11	30	100

SERIE LUNGA - Long Series

Ref.	Dimensione - Dimension (mm)					
4 Taglienti (Z4)	Dc	d	R	Lc	U	L
MES-H4100X-r0,5-U45	10	10	0,5	11	45	100
MES-H4100X-r0,5-U60	10	10	0,5	11	60	100
MES-H4100X-r1,0-U30	10	10	1	11	30	100
MES-H4100X-r1,0-U45	10	10	1	11	45	100
MES-H4100X-r1,0-U60	10	10	1	11	60	100
MES-H4100X-r2,0-U30	10	10	2	11	30	100
MES-H4100X-r2,0-U45	10	10	2	11	45	100
MES-H4100X-r2,0-U60	10	10	2	11	60	100
MES-H4100X-r3,0-U30	10	10	3	11	30	100
MES-H4100X-r3,0-U45	10	10	3	11	45	100
MES-H4100X-r3,0-U60	10	10	3	11	60	100
MES-H4120X-r0,5-U30	12	12	0,5	13	30	100
MES-H4120X-r0,5-U45	12	12	0,5	13	45	100
MES-H4120X-r0,5-U60	12	12	0,5	13	60	100
MES-H4120X-r1,0-U30	12	12	1	13	30	100
MES-H4120X-r1,0-U45	12	12	1	13	45	100
MES-H4120X-r1,0-U60	12	12	1	13	60	100
MES-H4120X-r2,0-U30	12	12	2	13	30	100
MES-H4120X-r2,0-U45	12	12	2	13	45	100
MES-H4120X-r2,0-U60	12	12	2	13	60	100
MES-H4120X-r3,0-U30	12	12	3	13	30	100
MES-H4120X-r3,0-U45	12	12	3	13	45	100
MES-H4120X-r3,0-U60	12	12	3	13	60	100
MES-H4160X-r0,5-U75	16	16	0,5	20	75	150
MES-H4160X-r1,0-U75	16	16	1	20	75	150
MES-H4160X-r2,0-U75	16	16	2	20	75	150
MES-H4160X-r3,0-U75	16	16	2	20	75	150
MES-H4160X-r4,0-U75	16	16	4	20	75	150

FRESA Z4 TORICA - Serie Normale

EN Z4 CORNER RADIUS END MILL | Normal Series

FR Z4 FRAISE TORIQUE | Serie Normale

DE Z4 TORUSFRÄSER | Normale Serien

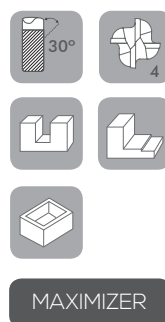
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Normale



SERIE NORMALE - Normal Series

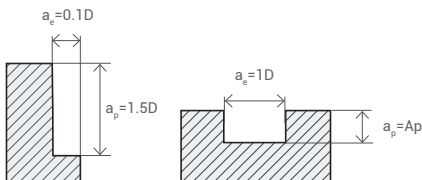
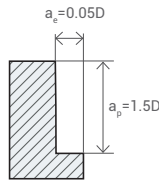
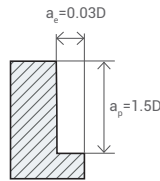
Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	U	L
MES-H4020S-0,2-U21	2	6	0,2	3	21	57
MES-H4020S-0,5-U21	2	6	0,5	3	21	57
MES-H4030S-0,2-U21	3	6	0,2	5	21	57
MES-H4030S-0,5-U21	3	6	0,5	5	21	57
MES-H4040S-0,5-U21	4	6	0,5	6	21	57
MES-H4040S-1,0-U21	4	6	1	6	21	57
MES-H4050S-0,5-U21	5	6	0,5	7	21	57
MES-H4050S-1,0-U21	5	6	1	7	21	57
MES-H4060S-0,5-U21	6	6	0,5	7	21	57
MES-H4060S-1,0-U21	6	6	1	7	21	57
MES-H4060S-1,5-U21	6	6	1,5	7	21	57
MES-H4060S-2,0-U21	6	6	2	7	21	57
MES-H4080S-0,5-U27	8	8	0,5	9	27	63
MES-H4080S-1,0-U27	8	8	1	9	27	63
MES-H4080S-1,5-U27	8	8	1,5	9	27	63
MES-H4080S-2,0-U27	8	8	2	9	27	63
MES-H4100S-0,5-U32	10	10	0,5	11	32	72

SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	U	L
MES-H4100S-1,0-U32	10	10	1	11	32	72
MES-H4100S-1,5-U32	10	10	1,5	11	32	72
MES-H4100S-2,0-U32	10	10	2	11	32	72
MES-H4120S-0,5-U38	12	12	0,5	13	38	83
MES-H4120S-1,0-U38	12	12	1	13	38	83
MES-H4120S-1,5-U38	12	12	1,5	13	38	83
MES-H4120S-2,0-U38	12	12	2	13	38	83
MES-H4120S-3,0-U38	12	12	3	13	38	83
MES-H4160S-0,5-U44	16	16	0,5	17	44	92
MES-H4160S-1,0-U44	16	16	1	17	44	92
MES-H4160S-2,0-U44	16	16	2	17	44	92
MES-H4160S-3,0-U44	16	16	3	17	44	92
MES-H4160S-4,0-U44	16	16	4	17	44	92

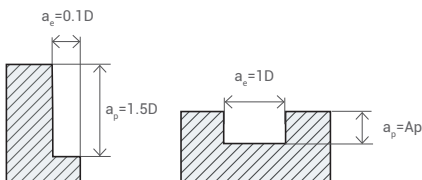
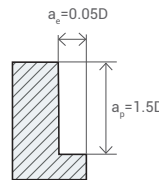
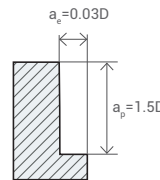
MES-H-R Z2

Frese toriche

Materiale pezzo Workpiece material	Ghisa, Acciaio al carbonio, Acciaio legato -30 HRC Cast iron, Carbon steel, Alloy steel -30 HRC		Acciaio inossidabile Stainless steel		Acciaio pretemprato, Acciaio temprato -40HRC Pre-hardened steel, Quenched and tempered steel -40HRC		Acciaio pretemprato, Acciaio temprato -50HRC Pre-hardened steel, Quenched and tempered steel -50HRC		Acciaio temprato 56-62HRC Hardened steel 56-62HRC	
Diametro Ø (mm) Diameter Ø (mm)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)
1	20000	240	20000	75	20000	195	20000	145	20000	95
1.5	17000	300	15500	90	17000	260	16000	180	15500	110
2	15000	385	11150	100	15000	335	13000	215	11140	130
3	14000	655	7500	145	10600	505	8500	395	7430	245
4	10800	675	5500	155	8000	515	6500	405	5570	245
5	8200	695	4500	155	6400	540	5000	425	4460	260
6	7000	720	3700	170	5300	555	4200	435	3710	260
8	5200	720	2800	170	4000	555	3200	440	2785	275
10	4200	695	2200	170	3200	535	2500	420	2230	255
12	3500	695	1850	170	2650	535	2100	420	1855	255
Massima profondità di taglio Max. Cutting depth										

MES H-R Z4

Frese toriche

Materiale pezzo Workpiece material	Ghisa, Acciaio al carbonio, Acciaio legato -30 HRC Cast iron, Carbon steel, Alloy steel -30 HRC		Acciaio inossidabile Stainless steel		Acciaio pretemprato, Acciaio temprato -40HRC Pre-hardened steel, Quenched and tempered steel -40HRC		Acciaio pretemprato, Acciaio temprato -50HRC Pre-hardened steel, Quenched and tempered steel -50HRC		Acciaio temprato 56-62HRC Hardened steel 56-62HRC	
Diametro Ø (mm) Diameter Ø (mm)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)
2	15000	950	9500	175	15000	720	13000	550	9500	400
3	14000	985	7500	175	10600	755	8500	590	7430	435
4	10800	1010	5500	175	8000	770	6500	600	5570	445
5	8200	1055	4500	175	6400	805	5000	640	4460	470
6	7000	1080	3700	195	5300	830	4200	650	3710	470
8	5200	1070	2800	195	4000	815	3200	660	2785	485
10	4200	1055	2200	195	3200	805	2500	625	2230	450
12	3500	1055	1850	195	2650	805	2100	625	1855	450
Massima profondità di taglio Max. Cutting depth										

FRESA Z2 TORICA CONICA 1° - Serie Normale

EN Z2 CORNER RADIUS END MILL | 1° TAPER - Normal Series

FR Z2 FRAISE TORIQUE | 1° - Serie Normale

DE Z2 TORUSFRÄSER | 1° - Normale Serien

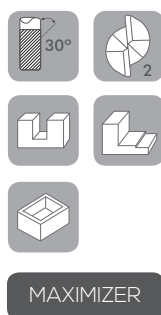
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Normale - 1°



SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	C	L
MEC-H2015XL-r0,3-C43x1°	1,5	6	0,3	2	43	109
MEC-H2015XL-r0,3-C53x1°	1,5	6	0,3	2	53	109
MEC-H2015XL-r0,3-C63x1°	1,5	6	0,3	2	63	109
MEC-H2020XL-r0,5-C43x1°	2	6	0,5	3	43	109
MEC-H2020XL-r0,5-C53x1°	2	6	0,5	3	53	109
MEC-H2020XL-r0,5-C63x1°	2	6	0,5	3	63	109
MEC-H2030XL-r0,5-C44x1°	3	6	0,5	5	44	109
MEC-H2030XL-r0,5-C55x1°	3	6	0,5	5	55	109
MEC-H2030XL-r0,5-C65x1°	3	6	0,5	5	65	109
MEC-H2040XL-r0,5-C45x1°	4	6	0,5	6	45	109
MEC-H2040XL-r0,5-C55x1°	4	6	0,5	6	55	109
MEC-H2040XL-r0,5-C65x1°	4	6	0,5	6	65	109
MEC-H2040XL-r1,0-C45x1°	4	6	1	6	45	109
MEC-H2040XL-r1,0-C55x1°	4	6	1	6	55	109
MEC-H2040XL-r1,0-C65x1°	4	6	1	6	65	109
MEC-H2050XL-r0,5-C45x1°	5	8	0,5	7	45	109
MEC-H2050XL-r0,5-C55x1°	5	8	0,5	7	55	109
MEC-H2050XL-r0,5-C70x1°	5	8	0,5	7	70	109
MEC-H2050XL-r1,0-C45x1°	5	8	1	7	45	109
MEC-H2050XL-r1,0-C55x1°	5	8	1	7	55	109
MEC-H2050XL-r1,0-C70x1°	5	8	1	7	70	109

SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	C	L
MEC-H2060XL-r0,5-C48x1°	6	8	0,5	9	48	109
MEC-H2060XL-r0,5-C55x1°	6	8	0,5	9	55	109
MEC-H2060XL-r0,5-C70x1°	6	8	0,5	9	70	109
MEC-H2060XL-r1,0-C48x1°	6	8	1	9	48	109
MEC-H2060XL-r1,0-C55x1°	6	8	1	9	55	109
MEC-H2060XL-r1,0-C70x1°	6	8	1	9	70	109
MEC-H2060XL-r1,5-C48x1°	6	8	1,5	9	48	109
MEC-H2060XL-r1,5-C55x1°	6	8	1,5	9	55	109
MEC-H2060XL-r1,5-C70x1°	6	8	1,5	9	70	109
MEC-H2080XL-r0,5-C48x1°	8	10	0,5	10	48	109
MEC-H2080XL-r0,5-C55x1°	8	10	0,5	10	55	109
MEC-H2080XL-r0,5-C70x1°	8	10	0,5	10	70	109
MEC-H2080XL-r1,0-C48x1°	8	10	1	10	48	109
MEC-H2080XL-r1,0-C55x1°	8	10	1	10	55	109
MEC-H2080XL-r1,0-C70x1°	8	10	1	10	70	109
MEC-H2080XL-r1,5-C48x1°	8	10	1,5	10	48	109
MEC-H2080XL-r1,5-C55x1°	8	10	1,5	10	55	109
MEC-H2080XL-r1,5-C70x1°	8	10	1,5	10	70	109
MEC-H2080XL-r2,0-C48x1°	8	10	2	10	48	109
H-CEM4080XL-r2,0-C55x1°	8	10	2	10	55	109
H-CEM4080XL-r2,0-C70x1°	8	10	2	10	70	109

FRESA Z2 TORICA CONICA 1,5° - Serie Normale

EN Z2 CORNER RADIUS END MILL | 1,5° TAPER - Normal Series

FR Z2 FRAISE TORIQUE | 1,5° - Serie Normale

DE Z2 TORUSFRÄSER | 1,5° - Normale Serien

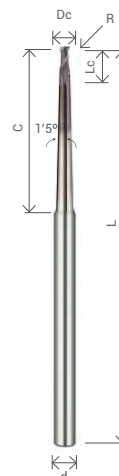
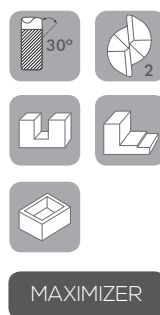
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

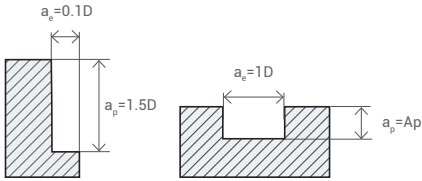
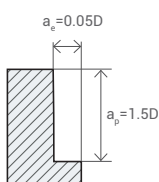
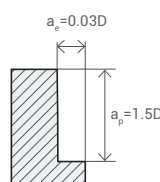
Serie Normale 1,5°



SERIE NORMALE Z2 - Normal Series Z2

Ref.	Dimensione - Dimension (mm)					
2 Taglienti (Z2)	Dc	d	R	Lc	C	L
MEC-H2015XL-r0,3-C43x1,5°	1,5	6	0,3	2	43	109
MEC-H2015XL-r0,3-C53x1,5°	1,5	6	0,3	2	53	109
MEC-H2015XL-r0,3-C63x1,5°	1,5	6	0,3	2	63	109
MEC-H2020XL-r0,5-C43x1,5°	2	6	0,5	3	43	109
MEC-H2020XL-r0,5-C53x1,5°	2	6	0,5	3	53	109
MEC-H2020XL-r0,5-C63x1,5°	2	6	0,5	3	63	109
MEC-H2030XL-r0,5-C44x1,5°	3	6	0,5	5	44	109
MEC-H2030XL-r0,5-C55x1,5°	3	6	0,5	5	55	109
MEC-H2030XL-r0,5-C65x1,5°	3	6	0,5	5	65	109
MEC-H2040XL-r0,5-C45x1,5°	4	6	0,5	6	45	109
MEC-H2040XL-r1,0-C45x1,5°	4	6	1	6	45	109
MEC-H2050XL-r0,5-C45x1,5°	5	8	0,5	7	45	109
MEC-H2050XL-r0,5-C55x1,5°	5	8	0,5	7	55	109
MEC-H2050XL-r1,0-C45x1,5°	5	8	1	7	45	109
MEC-H2050XL-r1,0-C55x1,5°	5	8	1	7	55	109
MEC-H2060XL-r0,5-C48x1,5°	6	8	0,5	9	48	109
MEC-H2060XL-r1,0-C48x1,5°	6	8	1	9	48	109
MEC-H2060XL-r1,5-C48x1,5°	6	8	1,5	9	48	109
MEC-H2080XL-r0,5-C48x1,5°	8	10	0,5	10	48	109
MEC-H2080XL-r1,0-C48x1,5°	8	10	1	10	48	109
MEC-H2080XL-r1,5-C48x1,5°	8	10	1,5	10	48	109
MEC-H2080XL-r2,0-C48x1,5°	8	10	2	10	48	109

MEC-H Z2

Materiale pezzo Workpiece material	Ghisa, Acciaio al carbonio, Acciaio legato -30 HRC Cast iron, Carbon steel, Alloy steel -30 HRC		Acciaio inossidabile Stainless steel		Acciaio pretemprato, Acciaio temprato -40HRC Pre-hardened steel, Quenched and tempered steel -40HRC		Acciaio pretemprato, Acciaio temprato -50HRC Pre-hardened steel, Quenched and tempered steel -50HRC		Acciaio temprato 56-62HRC Hardened steel 56-62HRC	
Diametro Ø (mm) Diameter Ø (mm)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)
2	15000	385	11500	100	15000	335	13000	215	11140	130
3	14000	655	7500	145	10600	505	8500	395	7430	245
4	10800	675	5500	155	8000	515	6500	405	5570	245
5	8200	695	4500	155	6400	540	5000	425	4460	260
6	7000	720	3700	170	5300	555	4200	435	3710	260
8	5200	720	2800	170	4000	555	3200	440	2785	275
Massima profondità di taglio Max. Cutting depth										

FRESA Z4 TORICA CONICA 1° - Serie Normale

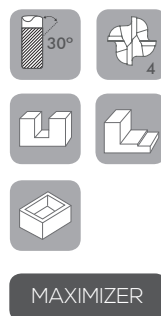
EN Z4 CORNER RADIUS END MILL | 1° TAPER - Normal Series

FR Z4 FRAISE TORIQUE | 1° - Serie Normale

DE Z4 TORUSFRÄSER | 1° - Normale Serien

- IT** Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.
- EN** Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.
- FR** Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.
- DE** Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Normale 1°



SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)					
4 Taglienti (Z4)	Dc	d	R	Lc	C	L
MEC-H4020XL-r0,5-C43x1°	2	6	0,5	3	43	109
MEC-H4020XL-r0,5-C53x1°	2	6	0,5	3	53	109
MEC-H4020XL-r0,5-C63x1°	2	6	0,5	3	63	109
MEC-H4030XL-r0,5-C44x1°	3	6	0,5	5	44	109
MEC-H4030XL-r0,5-C55x1°	3	6	0,5	5	55	109
MEC-H4030XL-r0,5-C65x1°	3	6	0,5	5	65	109
MEC-H4040XL-r0,5-C45x1°	4	6	0,5	6	45	109
MEC-H4040XL-r0,5-C55x1°	4	6	0,5	6	55	109
MEC-H4040XL-r0,5-C65x1°	4	6	0,5	6	65	109
MEC-H4040XL-r1,0-C45x1°	4	6	1	6	45	109
MEC-H4040XL-r1,0-C55x1°	4	6	1	6	55	109
MEC-H4040XL-r1,0-C65x1°	4	6	1	6	65	109
MEC-H4050XL-r0,5-C45x1°	5	8	0,5	7	45	109
MEC-H4050XL-r0,5-C55x1°	5	8	0,5	7	55	109
MEC-H4050XL-r0,5-C70x1°	5	8	0,5	7	70	109
MEC-H4050XL-r1,0-C45x1°	5	8	1	7	45	109
MEC-H4050XL-r1,0-C55x1°	5	8	1	7	55	109
MEC-H4050XL-r1,0-C70x1°	5	8	1	7	70	109
MEC-H4060XL-r0,5-C48x1°	6	8	0,5	9	48	109
MEC-H4060XL-r0,5-C55x1°	6	8	0,5	9	55	109
MEC-H4060XL-r0,5-C70x1°	6	8	0,5	9	70	109
MEC-H4060XL-r1,0-C48x1°	6	8	1	9	48	109

SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)					
4 Taglienti (Z4)	Dc	d	R	Lc	C	L
MEC-H4060XL-r1,0-C55x1°	6	8	1	9	55	109
MEC-H4060XL-r1,0-C70x1°	6	8	1	9	70	109
MEC-H4060XL-r1,5-C48x1°	6	8	1,5	9	48	109
MEC-H4060XL-r1,5-C55x1°	6	8	1,5	9	55	109
MEC-H4060XL-r1,5-C70x1°	6	8	1,5	9	70	109
MEC-H4080XL-r0,5-C48x1°	8	10	0,5	10	48	109
MEC-H4080XL-r0,5-C55x1°	8	10	0,5	10	55	109
MEC-H4080XL-r0,5-C70x1°	8	10	0,5	10	70	109
MEC-H4080XL-r1,0-C48x1°	8	10	1	10	48	109
MEC-H4080XL-r1,0-C55x1°	8	10	1	10	55	109
MEC-H4080XL-r1,0-C70x1°	8	10	1	10	70	109
MEC-H4080XL-r1,5-C48x1°	8	10	1,5	10	48	109
MEC-H4080XL-r1,5-C55x1°	8	10	1,5	10	55	109
MEC-H4080XL-r1,5-C70x1°	8	10	1,5	10	70	109
MEC-H4080XL-r2,0-C48x1°	8	10	2	10	48	109
MEC-H4080XL-r2,0-C55x1°	8	10	2	10	55	109
MEC-H4080XL-r2,0-C70x1°	8	10	2	10	70	109

FRESA Z4 TORICA CONICA 1,5° - Serie Normale

EN Z4 CORNER RADIUS END MILL | 1,5° TAPER - Normal Series

FR Z4 FRAISE TORIQUE | 1,5° - Serie Normale

DE Z4 TORUSFRÄSER | 1,5° - Normale Serien

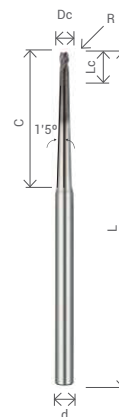
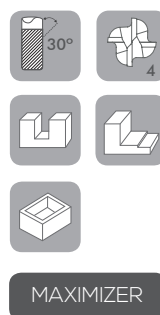
IT Acciaio, acciaio inossidabile, ghisa, rame, titanio e acciai temprati fino a 35-45 HRC.

EN Steel, stainless steel, cast iron, copper, titanium and hardened steels up to 35-45 HRC.

FR Acier, acier inoxydable, fonte grise, cuivre, titane et acier jusqu'à 35-45 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter stahl 35-45 HRC.

Serie Normale 1,5°



SERIE NORMALE - Normal Series

Ref.	Dimensione - Dimension (mm)					
4 Taglienti (Z4)	Dc	d	R	Lc	C	L
MEC-H4020XL-r0,5-C43x1,5°	2	6	0,5	3	43	109
MEC-H4020XL-r0,5-C53x1,5°	2	6	0,5	3	53	109
MEC-H4020XL-r0,5-C63x1,5°	2	6	0,5	3	63	109
MEC-H4030XL-r0,5-C44x1,5°	3	6	0,5	5	44	109
MEC-H4030XL-r0,5-C55x1,5°	3	6	0,5	5	55	109
MEC-H4030XL-r0,5-C65x1,5°	3	6	0,5	5	65	109
MEC-H4040XL-r0,5-C45x1,5°	4	6	0,5	6	45	109
MEC-H4040XL-r1,0-C45x1,5°	4	6	1	6	45	109
MEC-H4050XL-r0,5-C45x1,5°	5	8	0,5	7	45	109
MEC-H4050XL-r0,5-C55x1,5°	5	8	0,5	7	55	109
MEC-H4050XL-r1,0-C45x1,5°	5	8	1	7	45	109
MEC-H4050XL-r1,0-C55x1,5°	5	8	1	7	55	109
MEC-H4060XL-r0,5-C48x1,5°	6	8	0,5	9	48	109
MEC-H4060XL-r1,0-C48x1,5°	6	8	1	9	48	109
MEC-H4060XL-r1,5-C48x1,5°	6	8	1,5	9	48	109
MEC-H4080XL-r0,5-C48x1,5°	8	10	0,5	10	48	109
MEC-H4080XL-r1,0-C48x1,5°	8	10	1	10	48	109
MEC-H4080XL-r1,5-C48x1,5°	8	10	1,5	10	48	109
MEC-H4080XL-r2,0-C48x1,5°	8	10	2	10	48	109

MEC-H Z4

Materiale pezzo Workpiece material	Ghisa, Acciaio al carbonio, Acciaio legato -30 HRC Cast iron, Carbon steel, Alloy steel -30 HRC		Acciaio inossidabile Stainless steel		Acciaio pretemprato, Acciaio temprato -40HRC Pre-hardened steel, Quenched and tempered steel -40HRC		Acciaio pretemprato, Acciaio temprato -50HRC Pre-hardened steel, Quenched and tempered steel -50HRC		Acciaio temprato 56-62HRC Hardened steel 56-62HRC	
Diametro Ø (mm) Diameter Ø (mm)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)	Rotante (minimo -1) Rotating (minimum -1)	Avanzamento (mm/minuto) Feed (mm/minute)
2	15000	950	9500	175	15000	720	13000	550	9500	400
3	14000	985	7500	175	10600	755	8500	590	7430	435
4	10800	1010	5500	175	8000	770	6500	600	5570	445
5	8200	1055	4500	175	6400	805	5000	640	4460	470
6	7000	1080	3700	195	5300	830	4200	650	3710	470
8	5200	1070	2800	195	4000	815	3200	660	2785	485
Massima profondità di taglio Max. Cutting depth	