



DELEVEL
CARBIDE CUTTING TOOLS

DELEVELTOOL.COM

Cutting Tools Catalog

EDITION
2026



DRILLS

Solid carbide, coolant, deep-hole, micro and replaceable-head drills

BORING

Small-diameter boring, grooving and threading tools

MILLING

Anti-vibration, multi-flute and ball nose end mills

THREADS & MODULAR

Thread mills and modular tool systems

Small-diameter Boring Tools

Solid carbide micro boring tools for small bores: boring, grooving, threading, chamfering and profiling, on 3–10 mm shanks.



BORING

MTR, MXR, MUR and indexable bars

GROOVING

MGR, MFR, MKR, MZR, MVR, MDR

THREADS • PROFILES

MIR / MIL, ACME, TR; MCR, MPR, MQR, MZVB

Micro Boring Tools

Solid carbide, external or through-coolant



17 series

Boring, grooving, face grooving, threading, chamfering and profiling.

Small bores

Minimum bores from Ø2.1 mm; shanks 3–10 mm, reach L1 10–55 mm.

Coolant

External or through-coolant.

Ø2.1

smallest bore, mm

3–10

shank D, mm

10–55

reach L1, mm

P M K N

workpiece groups

Series overview

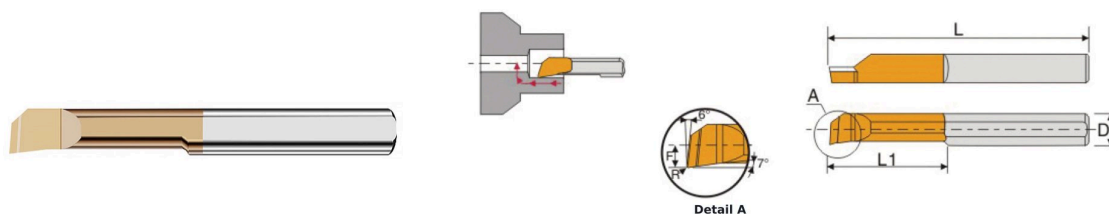
Pick the series by operation, then the size by shank D, reach L1 and minimum bore.

SERIES	OPERATION	RANGE
MTR	Boring	Boring with corner radius R0.15–0.2, minimum bore Ø2.1 mm.
C04X · C06X	Indexable boring bars	Small boring bars with CC.. inserts, minimum bore Ø5.1 mm. Max. overhang about 5xD. Inserts sold separately.
MGR	Internal grooving	Square grooves, width B 1.0–2.0 mm.
MFR	Face grooving	Face grooves, width B 1.0–2.0 mm.
MKR	Radius grooving and profiling	Full-radius grooves, R0.5–1.0 mm.
MZR	Face radius grooving and profiling	Full-radius face grooves, R0.5–1.0 mm.
MCR	Chamfering and boring	Internal and external chamfers with boring.
MIR · MIL	Threading	Internal threading, 55° and 60° profiles.
MIR · ACME	29° ACME threading	Internal ACME threads 1/4-16 to 3/8-12.
MIR · TR	30° trapezoidal threading	Internal TR threads, pitch 2–5 mm.
MXR	Back boring	Back boring and back chamfering.
MUR	Profile turning	Internal profiling, R0.05–0.15 mm.
MVR	Deep face grooving	Deep face grooves, width B 2.0–4.0 mm.
MDR	Chamfering and grooving	Groove with 45° chamfer in one tool.
MPR	Profile cutting	Profiling with R0.2 mm corner, reach to 50 mm.
MZVB	Profiling, 52°	Narrow 52° profile, minimum bore Ø3.5 mm.
MQR	Profile cutting	Profiling, R0.05–0.2 mm, minimum bore Ø2.1 mm.

MTR

Boring

Boring with corner radius R0.15–0.2, minimum bore Ø2.1 mm.

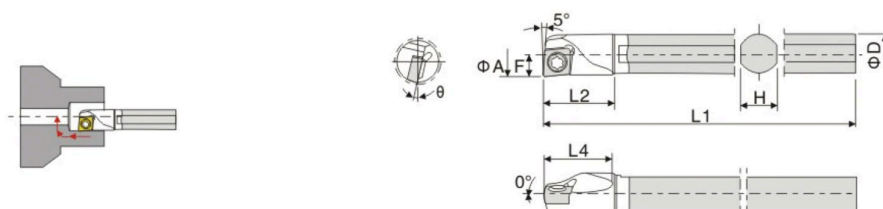


ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	F	MIN. BORE Ø
MTR 2R0.15L10	3.0	39	10	0.15	0.8	2.1
MTR 2R0.15L20	3.0	39	20	0.15	0.8	2.1
MTR 3R0.2L10	3.0	39	10	0.2	1.3	3.1
MTR 3R0.2L15	3.0	39	15	0.2	1.3	3.1
MTR 4R0.2L15	4.0	51	15	0.2	1.7	4.1
MTR 4R0.2L22	4.0	51	22	0.2	1.7	4.1
MTR 5R0.2L22	5.0	51	22	0.2	2.1	5.1
MTR 6R0.2L22	6.0	51	22	0.2	2.8	6.1
MTR 7R0.2L30	7.0	62	30	0.2	3.3	7.1
MTR 8R0.2L40	8.0	76	40	0.2	3.8	8.1

C04X · C06X

Indexable boring bars

Small boring bars with CC.. inserts, minimum bore Ø5.1 mm. Max. overhang about 5xD. Inserts sold separately.

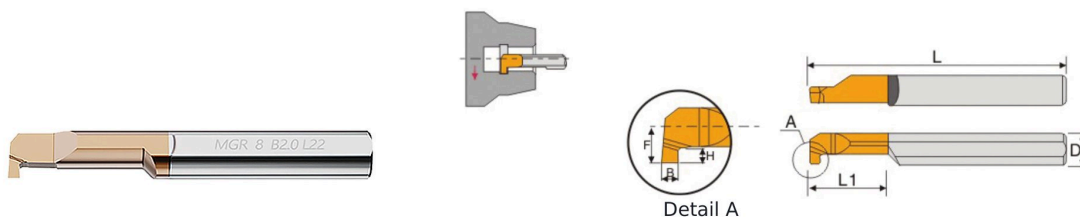


ORDER CODE	SHANK D	OAL L	F	MIN. BORE Ø	INSERT
C04X-SCLCR03-05-MINI	5.0	62	2.5	5.1	CC=T0301*
C06X-SCLCR04-07-MINI	7.0	62	3.5	7.1	CC=T0401*

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MGR Internal grooving

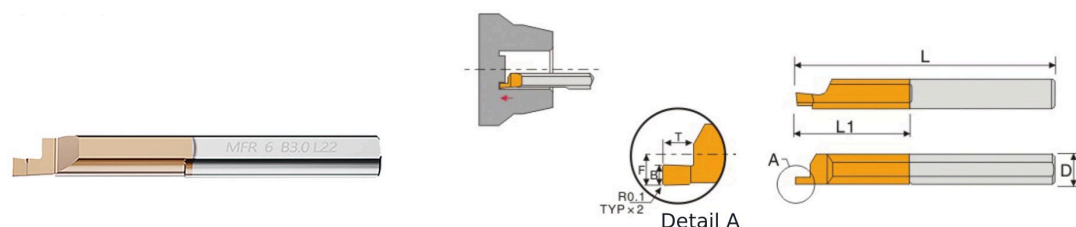
Square grooves, width B 1.0–2.0 mm.



ORDER CODE	SHANK D	OAL L	REACH L1	WIDTH B	H/T	F	MIN. BORE Ø
MGR 4B1.0L10	4.0	51	10	1.0	1.0	1.7	4.1
MGR 4B1.5L10	4.0	51	10	1.5	1.0	1.7	4.1
MGR 5B1.0L15	5.0	51	15	1.0	1.2	2.3	5.1
MGR 5B1.5L15	5.0	51	15	1.5	1.2	2.3	5.1
MGR 5B2.0L15	5.0	51	15	2.0	1.2	2.3	5.1
MGR 6B1.0L15	6.0	51	15	1.0	1.4	2.8	6.1
MGR 6B1.5L15	6.0	51	15	1.5	1.4	2.8	6.1
MGR 6B2.0L15	6.0	51	15	2.0	1.4	2.8	6.1
MGR 8B1.0L22	8.0	64	22	1.0	2.6	3.8	8.1
MGR 8B1.5L22	8.0	64	22	1.5	2.6	3.8	8.1
MGR 8B2.0L22	8.0	64	22	2.0	2.6	3.8	8.1

MFR Face grooving

Face grooves, width B 1.0–2.0 mm.

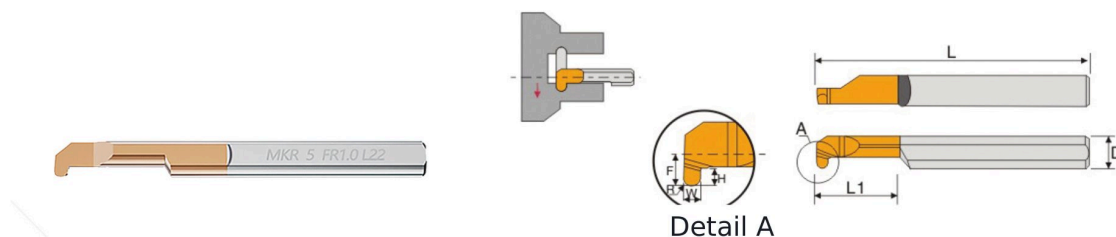


ORDER CODE	SHANK D	OAL L	REACH L1	WIDTH B	H/T	F	MIN. BORE Ø
MFR 4B1.0L15	4.0	51	15	1.0	1.5	1.75	5.0
MFR 5B1.0L22	5.0	51	22	1.0	1.5	2.25	6.0
MFR 5B1.5L22	5.0	51	22	1.5	2.5	2.25	6.0
MFR 6B1.0L22	6.0	51	22	1.0	1.5	2.75	8.0
MFR 6B1.5L22	6.0	51	22	1.5	2.5	2.75	8.0
MFR 6B2.0L22	6.0	51	22	2.0	3.0	2.75	8.0

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MKR Radius grooving and profiling

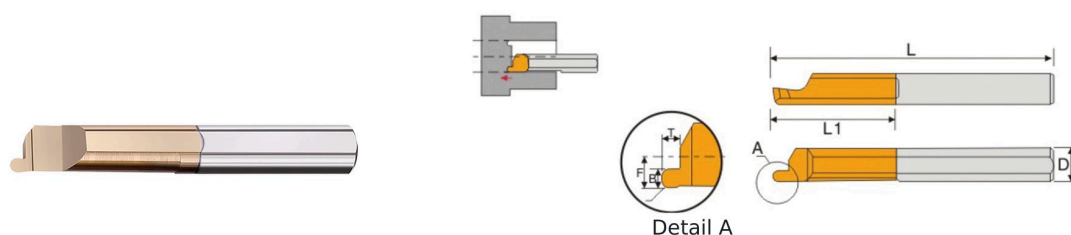
Full-radius grooves, R0.5–1.0 mm.



ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	WIDTH W	H/T	F	MIN. BORE Ø
MKR 4R0.5L10	4.0	51	10	0.50	1.0	1.0	1.7	4.1
MKR 4R0.75L10	4.0	51	10	0.75	1.5	1.0	1.7	4.1
MKR 5R0.5L15	5.0	51	15	0.50	1.0	1.2	2.3	5.1
MKR 5R0.75L15	5.0	51	15	0.75	1.5	1.2	2.3	5.1
MKR 5R1.0L15	5.0	51	15	1.0	2.0	1.2	2.3	5.1
MKR 6R0.5L15	6.0	51	15	0.50	1.0	1.6	2.8	6.1
MKR 6R0.75L15	6.0	51	15	0.75	1.5	1.6	2.8	6.1
MKR 6R1.0L15	6.0	51	15	1.0	2.0	1.6	2.8	6.1

MZR Face radius grooving and profiling

Full-radius face grooves, R0.5–1.0 mm.

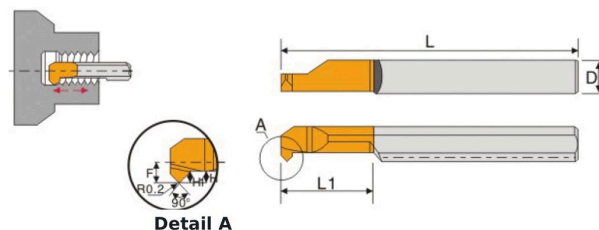


ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	WIDTH W	H/T	F	MIN. BORE Ø
MZR 4R0.5L15	4.0	51	15	0.50	1.0	1.2	1.95	5.0
MZR 4R0.75L15	4.0	51	15	0.75	1.5	1.5	1.95	5.0
MZR 5R0.5L22	5.0	51	22	0.5	1.0	1.2	2.45	6.0
MZR 5R0.75L22	5.0	51	22	0.75	1.5	1.5	2.45	6.0
MZR 5R1.0L22	5.0	51	22	1.0	2.0	2.5	2.45	6.0
MZR 6R0.5L22	6.0	51	22	0.5	1.0	1.2	2.95	8.0
MZR 6R0.75L22	6.0	51	22	0.75	1.5	1.5	2.95	8.0
MZR 6R1.0L22	6.0	51	22	1.0	2.0	2.5	2.95	8.0

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MCR Chamfering and boring

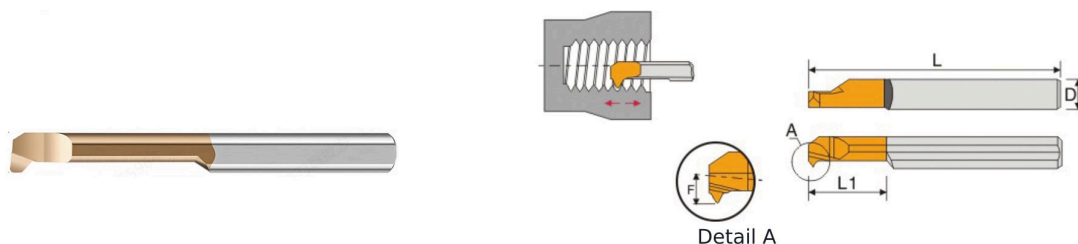
Internal and external chamfers with boring.



ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	H/T	H1	F	MIN. BORE Ø
MCR 3R0.2L10	3.0	39	10	0.2	0.7	0.3	1.3	3.1
MCR 4R0.2L15	4.0	50	15	0.2	0.8	0.4	1.7	4.1
MCR 5R0.2L15	5.0	50	15	0.2	1.2	0.7	2.1	5.1
MCR 6R0.2L15	6.0	50	15	0.2	1.4	0.7	2.8	6.1

MIR · MIL Threading

Internal threading, 55° and 60° profiles.



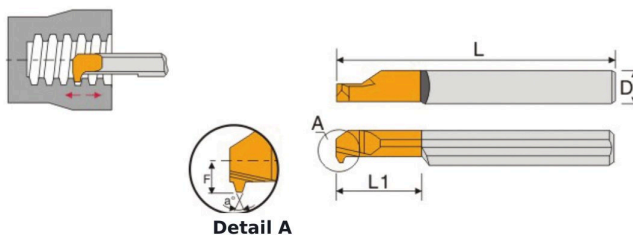
ORDER CODE	SHANK D	OAL L	REACH L1	ANGLE °	PITCH mm	TPI	F	MIN. BORE Ø
MIR 3L15A55	3.0	39	15	55	0.5-1.0	48-24	1.4	3.2
MIR 3L15A60	3.0	39	15	60	0.7-1.0	32-24	1.4	3.2
MIR 4L15A55	4.0	51	15	55	0.5-1.0	48-24	1.8	4.1
MIR 4L15A60	4.0	51	15	60	0.8-1.0	32-24	1.8	4.1
MIR 5L15A55	5.0	51	15	55	0.5-1.25	48-20	2.3	5.1
MIR 5L15A60	5.0	51	15	60	1.0-1.25	24-20	2.3	5.1
MIR 6L15A55	6.0	51	15	55	0.5-1.5	48-16	2.6	6.0
MIR 6L15A60	6.0	51	15	60	1.0-1.5	24-16	2.6	6.0
MIL 4L15A60	4.0	51	15	60	0.8-1.0	32-24	1.8	4.1
MIL 5L15A60	5.0	51	15	60	1.0-1.25	24-20	2.3	5.1
MIL 6L15A60	6.0	51	15	60	1.0-1.5	24-16	2.6	6.0

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MIR · ACME

29° ACME threading

Internal ACME threads 1/4-16 to 3/8-12.

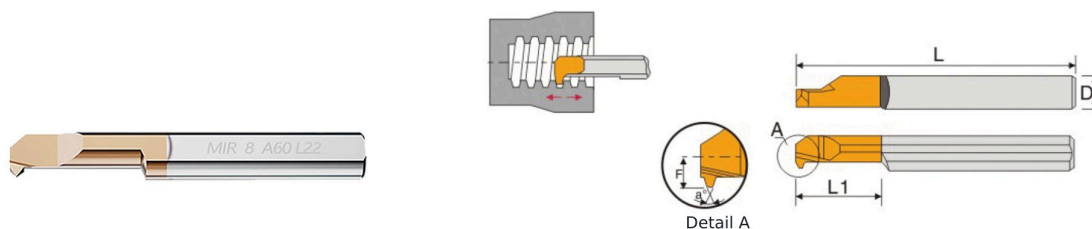


ORDER CODE	SHANK D	OAL L	REACH L1	ANGLE °	TPI	F	MIN. BORE Ø	THREAD
MIR 4L1516ACME	4.0	51	15	29	16	1.8	4.6	1/4-16
MIR 6L2014ACME	6.0	51	20	29	14	2.8	6.0	5/16-14
MIR 7L2212ACME	7.0	62	22	29	12	3.3	7.2	3/8-12

MIR · TR

30° trapezoidal threading

Internal TR threads, pitch 2–5 mm.

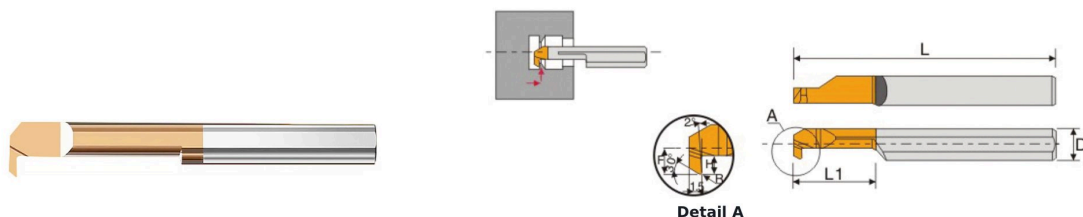


ORDER CODE	SHANK D	OAL L	REACH L1	ANGLE °	PITCH mm	F	MIN. BORE Ø	THREAD
MIR 7L25 2TR	7.0	62	25	30	2	3.2	6.9	TR9–12 ×2
MIR 10L35 2TR	10.0	73	35	30	2	4.8	11.0	TR14–20 ×2
MIR 7L35 3TR	7.0	62	35	30	3	3.3	7.5	TR11, TR12 ×3
MIR 10L35 3TR	10.0	73	35	30	3	4.8	10.5	TR14, TR22–28 ×3
MIR 10L45 4TR	10.0	105	45	30	4	4.8	11.5	TR16–20 ×4
MIR 10L55 5TR	10.0	105	55	30	5	4.8	11.0	TR22, TR24, TR28 ×5

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MXR Back boring

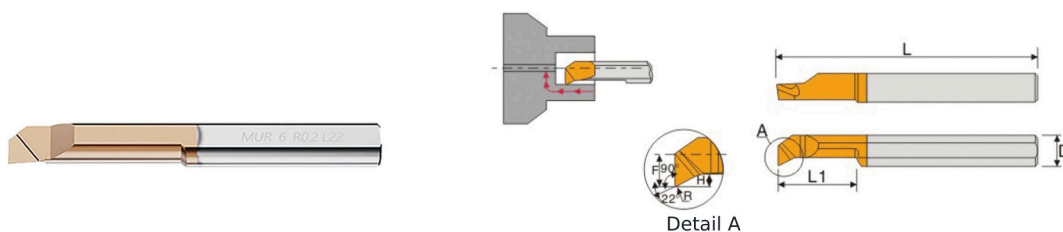
Back boring and back chamfering.



ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	H/T	F	MIN. BORE Ø
MXR 4R0.1L10	4.0	50	10	0.1	0.5	1.3	3.1
MXR 4R0.15L15	4.0	50	15	0.15	0.8	1.6	4.1
MXR 5R0.2L22	5.0	50	22	0.2	1.0	2.2	5.1
MXR 6R0.2L22	6.0	50	22	0.2	1.8	2.8	6.1

MUR Profile turning

Internal profiling, R0.05–0.15 mm.

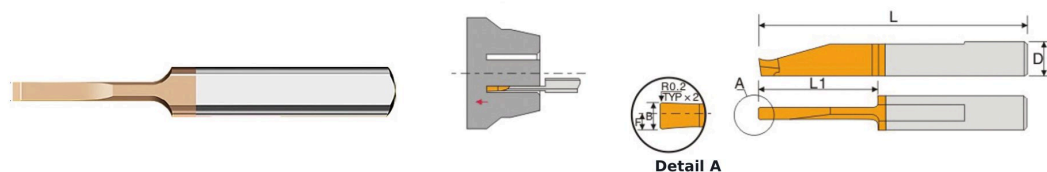


ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	H/T	F	MIN. BORE Ø
MUR 3R0.05L15	3.0	39	15	0.05	0.4	1.3	3.1
MUR 4R0.1L15	4.0	51	15	0.1	0.5	1.7	4.1
MUR 5R0.15L22	5.0	51	22	0.15	0.7	2.1	5.1
MUR 6R0.15L22	6.0	51	22	0.15	0.9	2.8	6.1

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MVR Deep face grooving

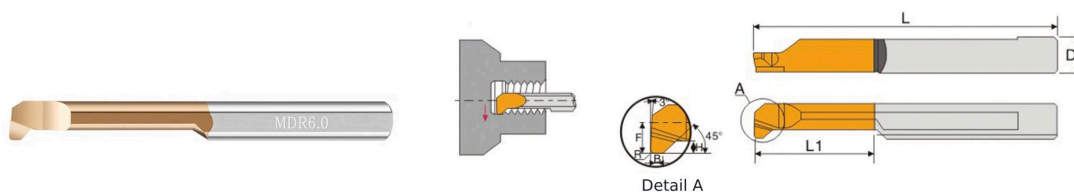
Deep face grooves, width B 2.0–4.0 mm.



ORDER CODE	SHANK D	OAL L	REACH L1	WIDTH B	F	MIN. BORE Ø
MVR 6B2.0L15	6.0	64	15	2.0	1.1	12
MVR 6B2.0L22	6.0	64	22	2.0	1.1	12
MVR 6B2.5L22	6.0	64	22	2.5	1.4	12
MVR 8B3.0L27	8.0	64	27	3.0	1.6	15
MVR 8B3.0L43	8.0	80	43	3.0	1.6	15
MVR 8B4.0L43	8.0	80	43	4.0	2.1	20

MDR Chamfering and grooving

Groove with 45° chamfer in one tool.

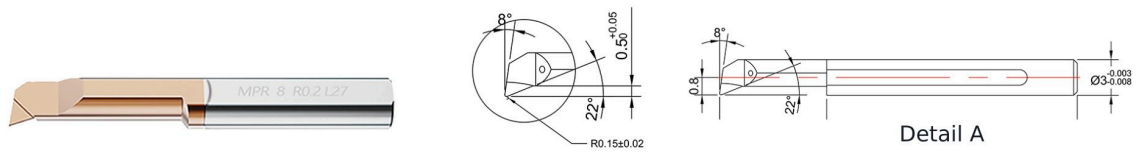


ORDER CODE	SHANK D	OAL L	REACH L1	WIDTH B	RADIUS R	H/T	F	MIN. BORE Ø
MDR 4R0.5L18	4.0	51	18	1.5	0.5	0.8	1.8	4.1
MDR 5R0.5L24	5.0	51	24	1.5	0.5	1.2	2.3	5.1
MDR 6R0.5L27	6.0	58	27	1.5	0.5	1.4	2.8	6.1

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MPR Profile cutting

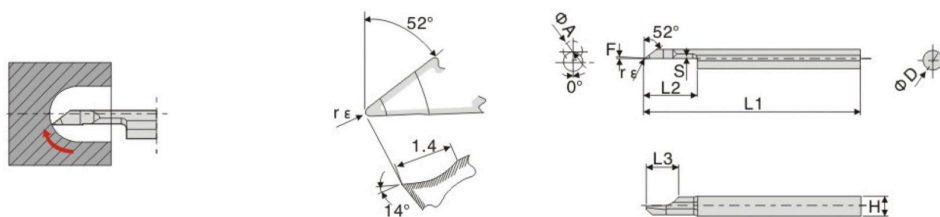
Profiling with R0.2 mm corner, reach to 50 mm.



ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	H/T	F	MIN. BORE Ø
MPR 5R0.2L22	5.0	50	22	0.2	1.2	2.4	5.1
MPR 5R0.2L30	5.0	65	30	0.2	1.2	2.4	5.1
MPR 6R0.2L15	6.0	50	15	0.2	1.4	2.9	6.1
MPR 6R0.2L22	6.0	50	22	0.2	1.4	2.9	6.1
MPR 6R0.2L30	6.0	65	30	0.2	1.4	2.9	6.1
MPR 6R0.2L35	6.0	65	35	0.2	1.4	2.9	6.1
MPR 6R0.2L40	6.0	65	40	0.2	1.4	2.9	6.1
MPR 7R0.2L22	7.0	50	22	0.2	1.6	3.4	7.1
MPR 7R0.2L30	7.0	65	30	0.2	1.6	3.4	7.1
MPR 7R0.2L35	7.0	65	35	0.2	1.6	3.4	7.1
MPR 7R0.2L42	7.0	80	42	0.2	1.6	3.4	7.1
MPR 7R0.2L50	7.0	80	50	0.2	1.6	3.4	7.1
MPR 8R0.2L22	8.0	50	22	0.2	1.6	3.9	8.1
MPR 8R0.2L35	8.0	65	35	0.2	1.6	3.9	8.1
MPR 10R0.2L35	10.0	65	35	0.2	2.0	4.9	10.1
MPR 10R0.2L50	10.0	80	50	0.2	2.0	4.9	10.1

MZVB Profiling, 52°

Narrow 52° profile, minimum bore Ø3.5 mm.



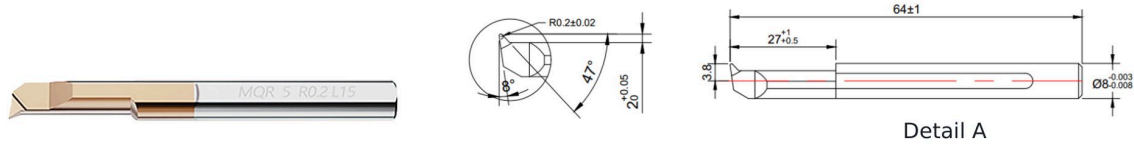
ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	S	F	MIN. BORE Ø
MZVB 35R0.1L10	3.0	39	10	0.1	0.22	0.17	3.5
MZVB 45R0.1L12	4.0	50	12	0.1	0.26	0.17	4.5
MZVB 55R0.1L15	5.0	50	15	0.1	0.29	0.17	5.5
MZVB 65R0.1L20	6.0	50	20	0.1	0.32	0.17	6.5

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.

MQR

Profile cutting

Profiling, R0.05–0.2 mm, minimum bore Ø2.1 mm.



ORDER CODE	SHANK D	OAL L	REACH L1	RADIUS R	H/T	F	MIN. BORE Ø
MQR 2R0.05L10	3.0	40	10	0.05	0.5	0.9	2.1
MQR 3R0.1L10	3.0	40	10	0.10	0.7	1.4	3.1
MQR 3R0.1L15	3.0	40	15	0.10	0.7	1.4	3.1
MQR 3R0.2L10	3.0	40	10	0.20	0.7	1.4	3.1
MQR 3R0.2L15	3.0	40	15	0.20	0.7	1.4	3.1
MQR 4R0.2L10	4.0	50	10	0.20	0.8	1.9	4.1
MQR 4R0.2L15	4.0	50	15	0.20	0.8	1.9	4.1
MQR 4R0.2L22	4.0	50	22	0.20	0.8	1.9	4.1
MQR 5R0.2L15	5.0	50	15	0.20	1.0	2.4	5.1
MQR 5R0.2L22	5.0	50	22	0.20	1.0	2.4	5.1
MQR 6R0.2L15	6.0	50	15	0.20	1.4	2.9	6.1
MQR 6R0.2L22	6.0	50	22	0.20	1.4	2.9	6.1
MQR 6R0.2L30	6.0	65	30	0.20	1.4	2.9	6.1
MQR 7R0.2L30	7.0	65	30	0.20	2.0	3.4	7.1
MQR 8R0.2L22	8.0	50	22	0.20	2.0	3.9	8.1
MQR 8R0.2L27	8.0	65	27	0.20	2.0	3.9	8.1
MQR 8R0.2L30X	8.0	65	30	0.20	3.0	3.9	8.1

ORDERING

Quote series + code, e.g. MQR 3R0.2L15. Holders (sleeves) for 3–10 mm shanks, coatings and special profiles on request: send the bore diameter, depth and profile drawing.

Dimensions in mm. Order code = series + code, e.g. MTR 2R0.15L10. Other diameters, reaches, radii and profiles are made to order from 5 pieces, 15–30 working days. Stock varies by code; please confirm on inquiry.



DELEVEL

Standard tools from catalog codes. Special tools ground to your drawing.

HOW TO ORDER

Send the order code, or the hole size, depth and workpiece material. For specials, send a drawing; we confirm it with you before production.

MADE TO ORDER

From 5 pieces per size. Lead time 15–30 working days depending on the tool. We reply within one working day.



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