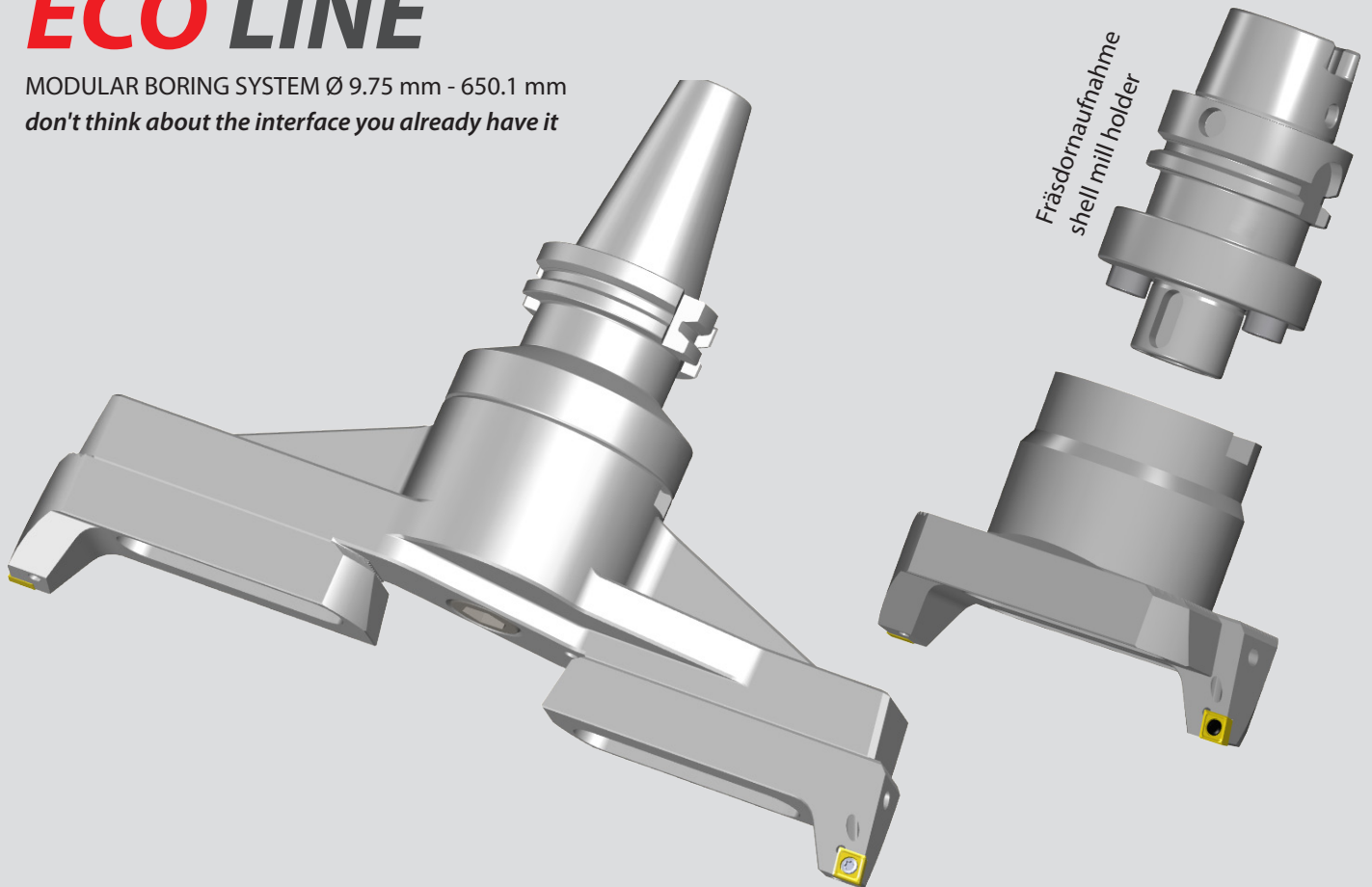


ECO LINE

MODULAR BORING SYSTEM Ø 9.75 mm - 650.1 mm
don't think about the interface you already have it



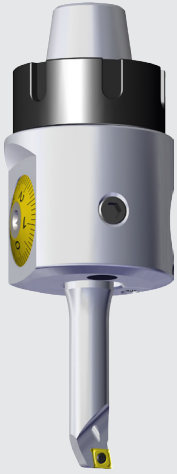
Axx

Ausdrehset Ø9.75-30.1

Fine boring set Ø9.75-30.1

- erweiterbar von Ø3 bis Ø88.1
- Schnittstelle ER32 DIN6499

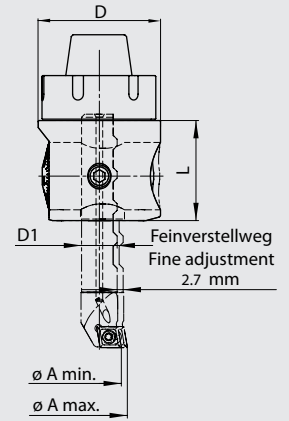
- can be upgraded from Ø3 up to Ø88.1
- connection ER32 DIN 6499



Bestell-Nr. / Order number	Ø D/ System	Ø A min.	Ø A max.	L	Ausdrehkopf / Fine boring head
SMART ER32					
SE1-E32.A55.001	55 / ER32	9.75	30.1	60	E32-A55.K01.060

- Werkzeug in einem Spannzangenfutter spannen.

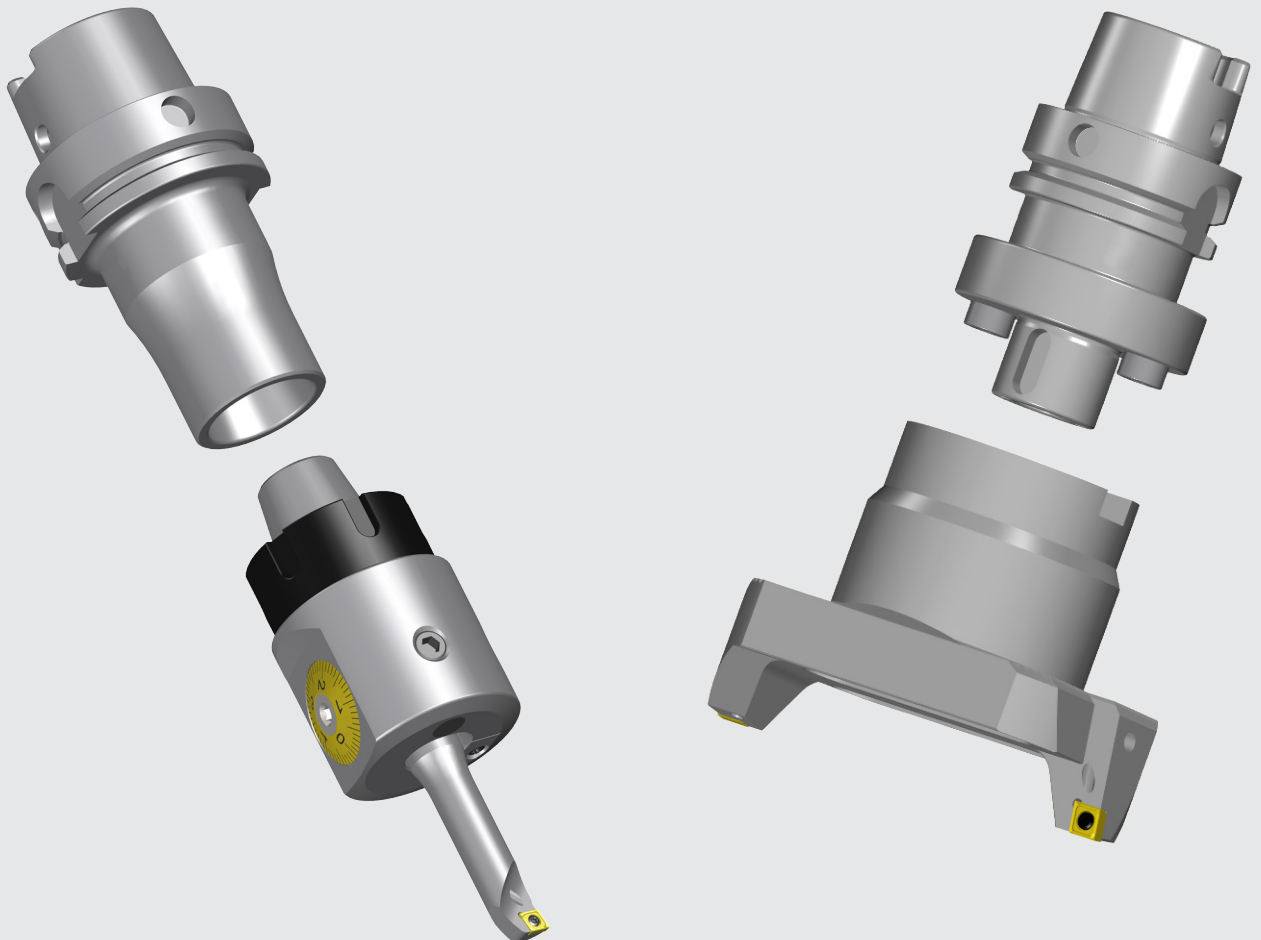
- Clamp tool in a collet chuck.



Inhalt

Content

1 Koffer / Case					
1 Ausdrehkopf / Fine boring head					E32-A55.K01.060
1 Ausdrehstahl / Boring bar			Ø9.75-15.1		B10-WCA.K11.075
1 Ausdrehstahl / Boring bar			Ø14.75-20.1		B15-WCA.K11.090
1 Ausdrehstahl / Boring bar			Ø19.75-25.1		B20-WCA.K11.105
1 Ausdrehstahl / Boring bar			Ø24.75-30.1		B25-WCA.K11.115
1 Inbusschlüssel / Allen wrench			SW5		
1 Torx-Schlüssel / Torx driver			T7		



Fxx

Feinbohrköpfe Ø23.9-87.1

Fine boring heads Ø23.9-87.1



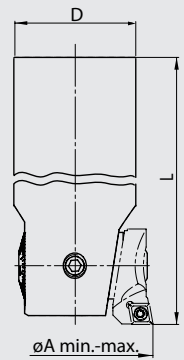
- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung

- diameter setting with minimal reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply

Bestell-Nr. / Order number	Ø D/ System	Ø A min.	Ø A max.	L	Wendeplattenhalter / Insert holder
U20-F20.K21.150	20 / ER32	23.9	31.1	150	F20-WCA.001.005
U25-F25.K21.170	25 / ER40	30.9	40.1	170	F25-WCA.001.006

- Werkzeug in einem Spannzangen- oder Hydrodehnfutter spannen.

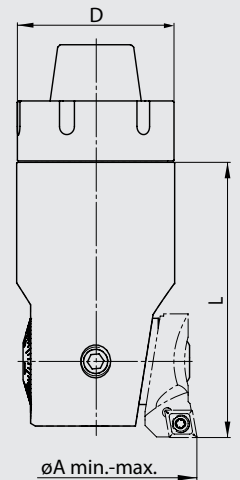
- Clamp tool in a collet or hydraulic chuck.



Bestell-Nr. / Order number	Ø D/ System	Ø A min.	Ø A max.	L	Wendeplattenhalter / Insert holder
E25-F32.K21.065	32 / ER25	39.9	51.1	65	F32-WCA.001.007
E32-F42.K21.075	42 / ER32	50.9	67.1	75	F42-WCA.001.009
E40-F55.K21.085	55 / ER40	66.9	87.1	85	F55-WCA.001.013

- Werkzeug in einem Spannzangenfutter spannen.

- Clamp tool in a collet chuck.



Zxx

Zweischneiderköpfe Ø23.5-87.1

Twin cutter boring heads Ø23.5-87.1



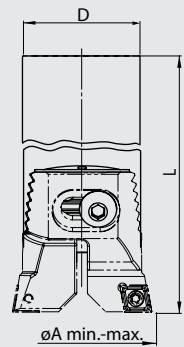
- mit Innenkühlung

- with inner coolant supply

Bestell-Nr. / Order number	Ø D/ System	Ø A min.	Ø A max.	L	Wendeplattenhalter / Insert holder
U20-Z20.K23.150	20 / ER32	23.5	31.1	150	Z20-WCA.B11.015
U25-Z25.K23.170	25 / ER40	29.5	40.1	170	Z25-WCA.B11.016

- Werkzeug in einem Spannzangen- oder Hydrodehnfutter spannen.

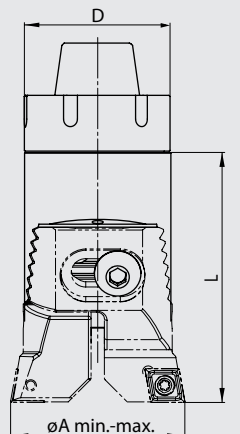
- Clamp tool in a collet or hydraulic chuck.



Bestell-Nr. / Order number	Ø D/ System	Ø A min.	Ø A max.	L	Wendeplattenhalter / Insert holder
E25-Z32.K23.065	32 / ER25	39.5	51.1	65	Z32-WCB.B11.021
E32-Z42.K23.075	42 / ER32	49.5	67.1	75	Z42-WCB.B11.028
E40-Z55.K23.085	55 / ER40	65.5	87.1	85	Z55-WCC.B11.037

- Werkzeug in einem Spannzangenfutter spannen.

- Clamp tool in a collet chuck.



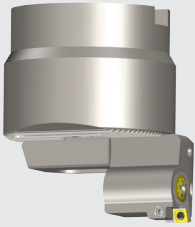
Fxx

**Feinbohrbrückenwerkzeuge
Ø85.5-650.1**

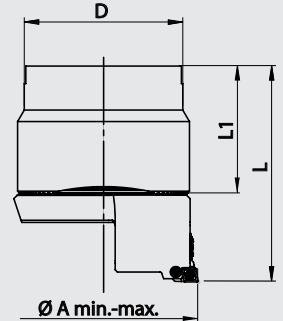
**Fine boring bridges tools
Ø85.5-650.1**

- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm im Durchmesser
- mit Innenkühlung

- diameter setting with minimal reversal backlash
- 0.01mm diametrical adjustment
- with inner coolant supply

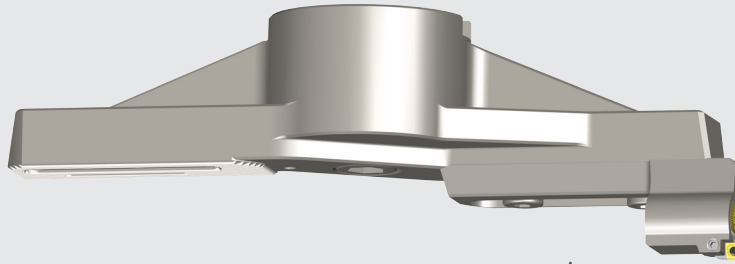


Bestell-Nr. / Order number	Ø D/ System	Ø A min.	Ø A max.	L	Feinbohraufsatz / Fine bore adapter
D32-F01.085.098	78 / D32	85.5	140.1	98	F01-WCA.B11.050
D32-F02.139.098	78 / D32	139.5	220.1	98	F02-WCA.B11.050
D32-F02.219.098	78 / D32	219.5	310.1	98	F02-WCA.B11.050
D40-F02.309.108	88 / D40	309.5	395.1	108	F02-WCA.B11.050
D40-F02.394.108	88 / D40	394.5	480.1	108	F02-WCA.B11.050
D60-F02.479.118	128 / D60	479.5	565.1	118	F02-WCA.B11.050
D60-F02.564.118	128 / D60	564.5	650.1	118	F02-WCA.B11.050



- Werkzeug in einer Fräsdorn- oder Messerkopfaufnahme spannen.

- Clamp tool in a shell mill holder.



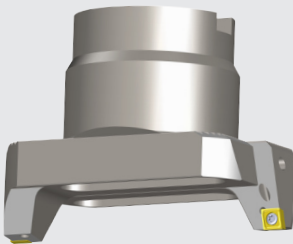
Zxx

**Zwischneiderbrückenwerkzeuge
Ø85.5-650.1**

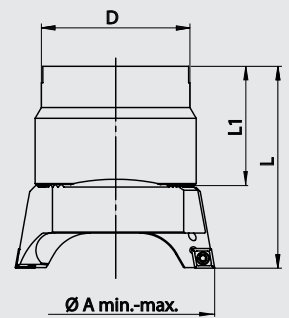
**Twin cutter bridge tools
Ø85.5-650.1**

- mit Innenkühlung

- with inner coolant supply



Bestell-Nr. / Order number	Ø D/ System	Ø A min.	Ø A max.	L	Wendeplattenhalter / Insert holder
D32-Z01.085.098	78 / D32	85.5	140.1	98	Z01-WCC.B11.050
D32-Z02.139.098	78 / D32	139.5	220.1	98	Z02-WCC.B11.050
D32-Z02.219.098	78 / D32	219.5	310.1	98	Z02-WCC.B11.050
D40-Z02.309.108	88 / D40	309.5	395.1	108	Z02-WCC.B11.050
D40-Z02.394.108	88 / D40	394.5	480.1	108	Z02-WCC.B11.050
D60-Z02.479.118	128 / D60	479.5	565.1	118	Z02-WCC.B11.050
D60-Z02.564.118	128 / D60	564.5	650.1	118	Z02-WCC.B11.050



- Werkzeug in einer Fräsdorn- oder Messerkopfaufnahme spannen.

- Clamp tool in a shell mill holder.

