

Precision meets Motion



EWS.millLine

**Winkelköpfe für die Komplettbearbeitung auf
Bearbeitungszentren**

**Angle heads for the complete machining on
machining centers**



Scan to get
more information
online

EWS
Tool Technologies

EWS.millLine

Das neue EWS.millLine Programm bringt die bewährte Technologie mit neuen Features auf die Bearbeitungszentren.

The new EWS.millLine program provides the trusted technology with new features for machining centres.





WINKELKÖPFE / ANGLE HEADS

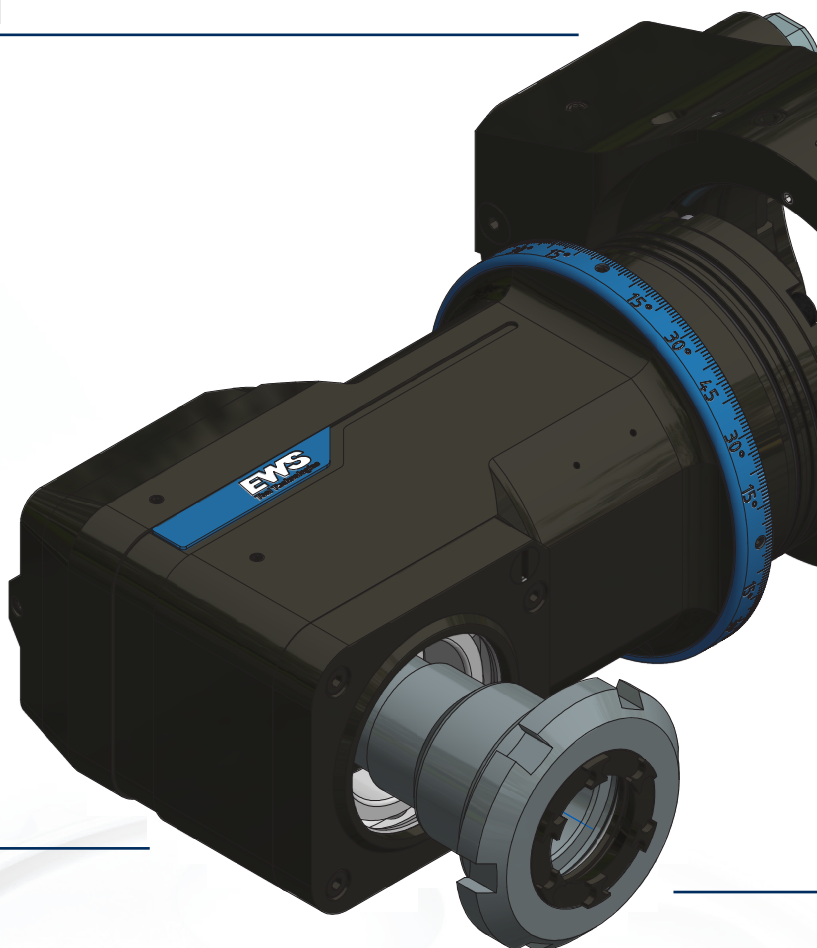
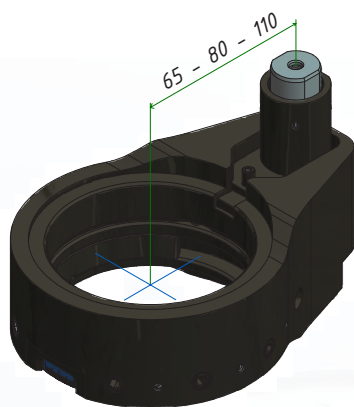
Vorteile

- die smarte Lösung eine fehlende Bearbeitungsachse zu kompensieren
- Bearbeitung schwerzugänglicher Werkstücke
- Innenbohrungsbearbeitung
- stufenlose Winkeleinstellung um die Horizontalachse, mit tangential wirkender Doppelkonus Klemmung $M_R > 250 \text{ Nm}$

Advantages

- The smart solution to compensate a missing machining axis
- Operation of hardly accessible workpieces
- Inner bore operation
- Fluent angular setting over the horizontal axis with tangential effecting bi-cone clamping $M_R > 250 \text{ Nm}$

TORQUE ARM

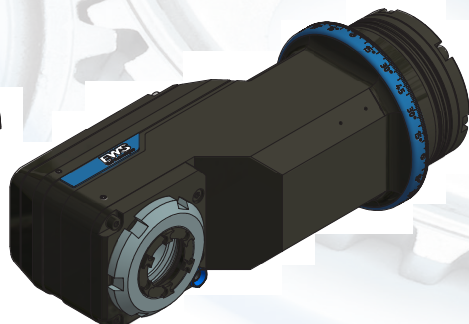


TYPE OF HEAD

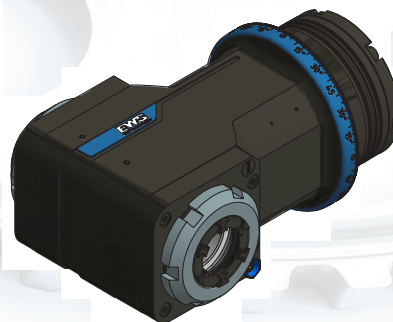
BASIC

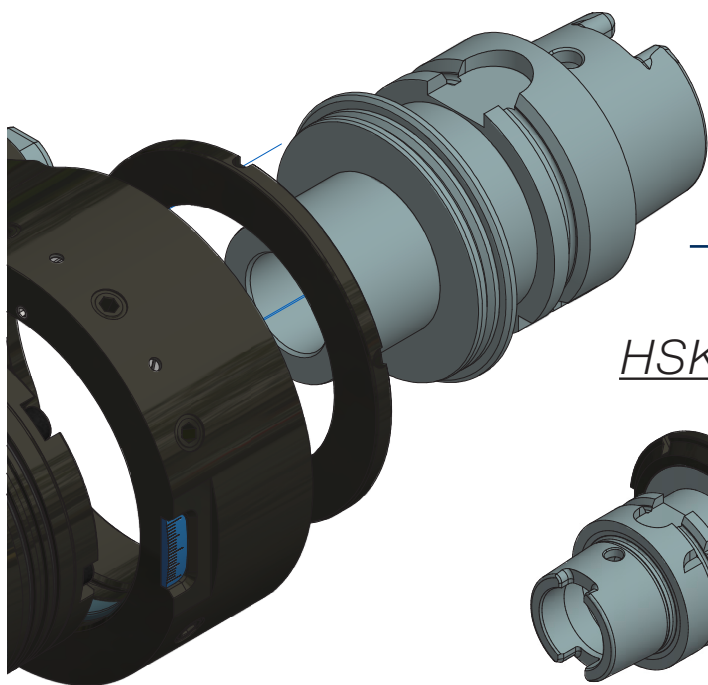


OFFSET



DUPLEX



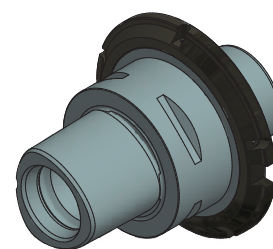
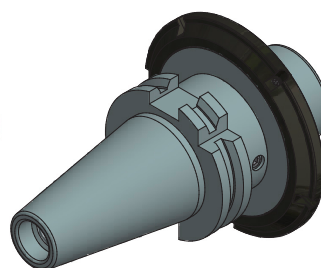
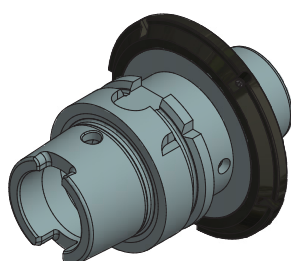


DRIVE SHAFT

HSK

SK-BT-CT

EWS.PSC

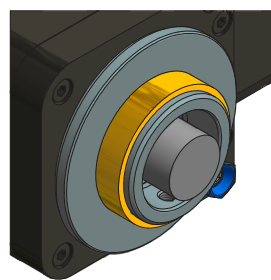
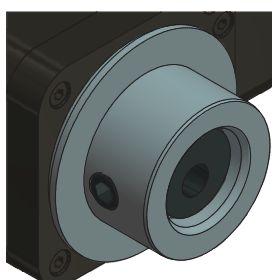
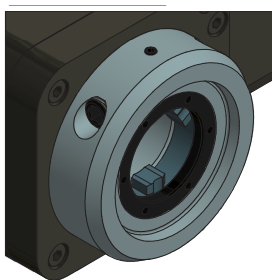


TOOL OUTPUT

VARIA VX

KM

HSK

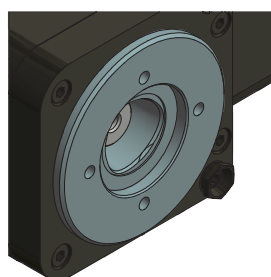
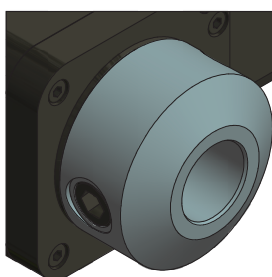
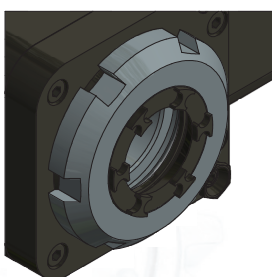


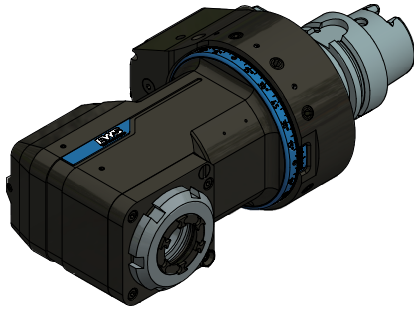
WELDON

ER-COLLET

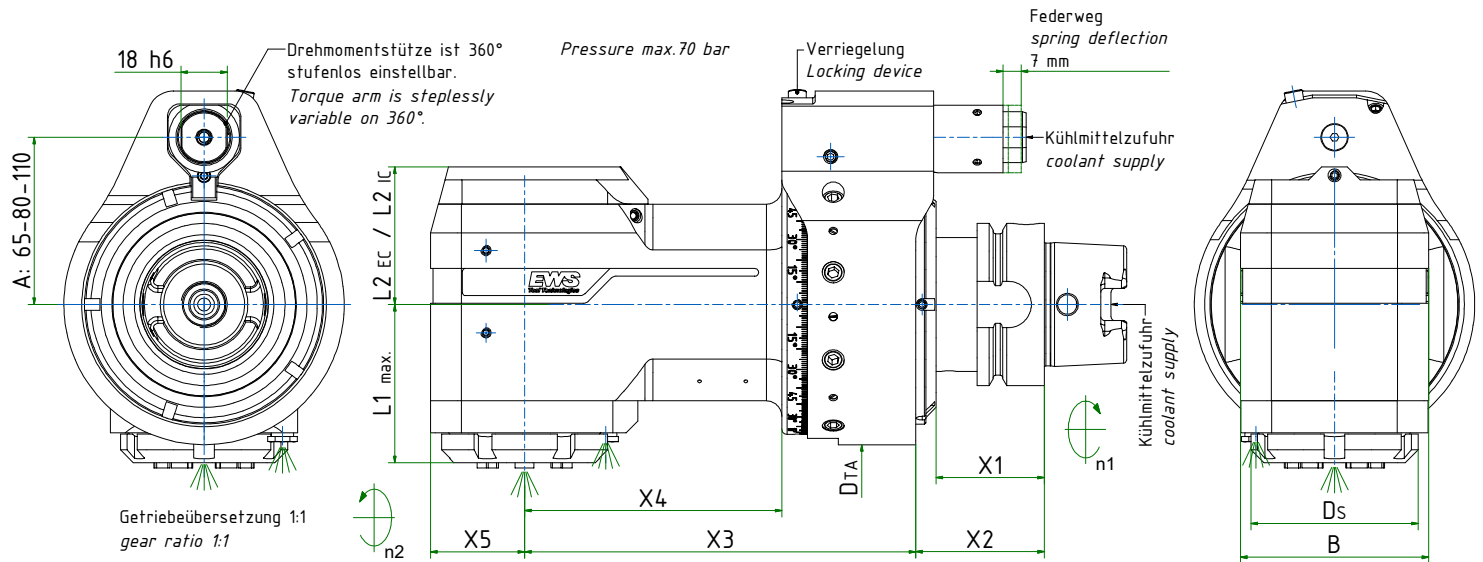
WHISTLE NOTCH

EWS.PSC

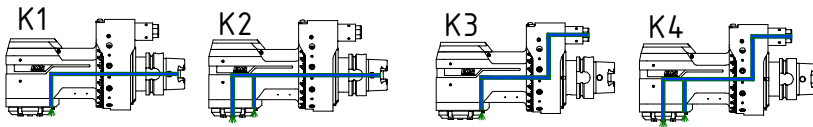




BASIC

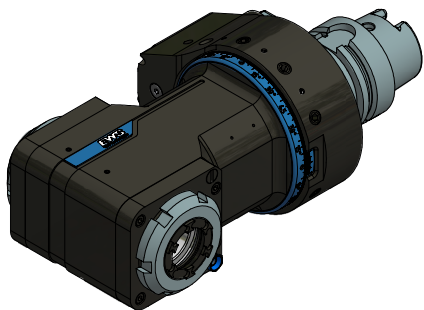


Coolant Type

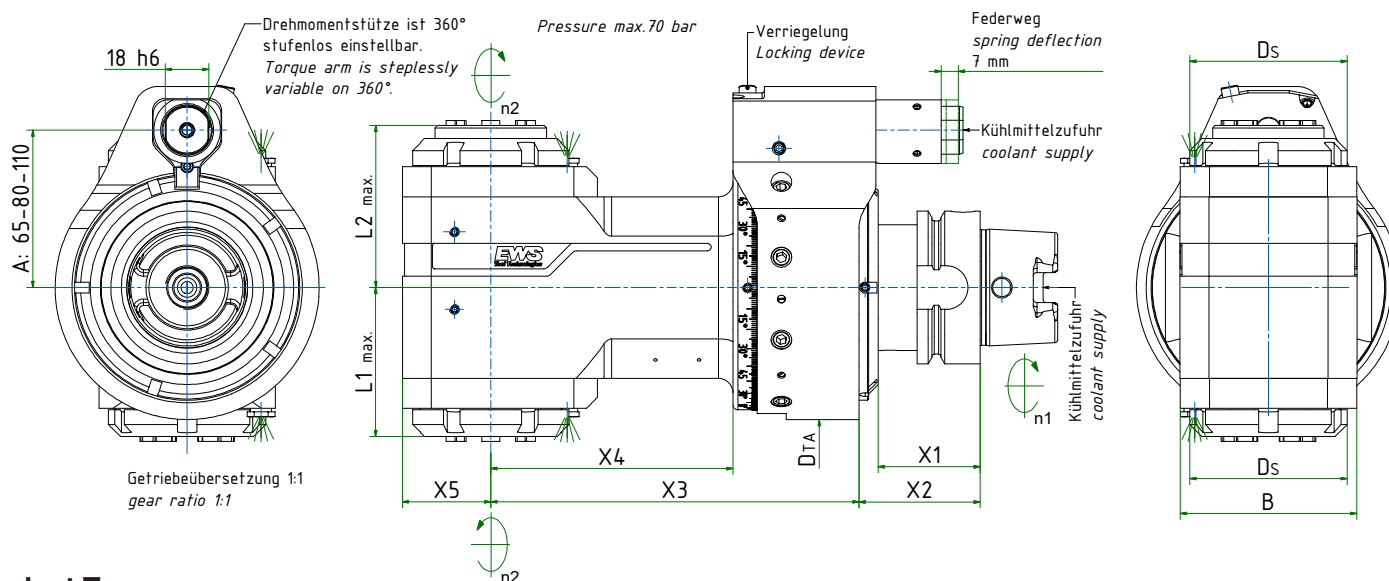


SHAFT	BT40	BT50	SK40	SK50	CAT 40	CAT 50	PSC 40	PSC 50	PSC 63	PSC 80	HSK40	HSK50	HSK63	HSK80	HSK100
X1	43	50	35	35	35	35	26	27	29	30	35	42	42	42	45
X2	51	58	43	43	43	43	34	35	37	38	43	50	50	50	53

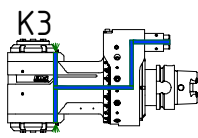
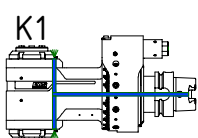
SIZE	STD COLLET	T (Nm)	RPM	LENGTH	X3	X4	X5	L1	B	DS Ø	L2 EC (with ext. coolant)	L2 IC (with int. coolant)	DTA Ø	COOLANT TYPE	WEIGHT (kg)
1	ER20	15	10000	SHORT	97	51,5	24,0	43,5	48	46	35,1	42,0	85	K3 K4	4,2
1	ER20	15	10000	STANDARD	147	101,5	24,0	43,5	48	46	35,1	42,0	85	K1 K2 K3 K4	4,7
1	ER20	15	10000	LONG	177	131,5	24,0	43,5	48	46	35,1	42,0	85	K1 K2 K3 K4	4,8
2	ER25	30	8000	SHORT	90	38,0	26,0	56,9	54	52	37,0	44,0	98	K3 K4	4,9
2	ER25	30	8000	SHORT	113	61,0	26,0	56,9	54	52	37,0	44,0	98	K1 K2 K3 K4	5,2
2	ER25	30	8000	STANDARD	137	85,0	26,0	56,9	54	52	37,0	44,0	98	K1 K2 K3 K4	5,7
2	ER25	30	8000	LONG	197	145,0	26,0	56,9	54	52	37,0	44,0	98	K1 K2 K3 K4	6,3
5	ER32	70	6000	SHORT	107	55,0	36,5	62,6	73	65	48,5	53,5	109	K3 K4	6,5
5	ER32	70	6000	STANDARD	152	100,0	36,5	62,6	73	65	48,5	53,5	109	K1 K2 K3 K4	9,5
5	ER32	70	6000	LONG	217	165,0	36,5	62,6	73	65	48,5	53,5	109	K1 K2 K3 K4	10,5



DUPLEX

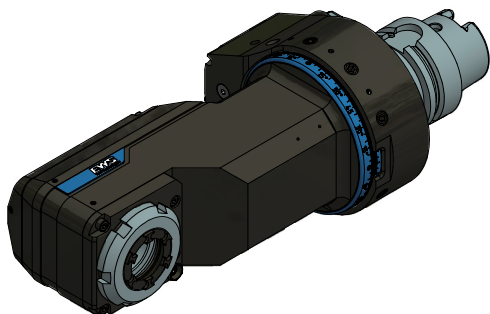


Coolant Type

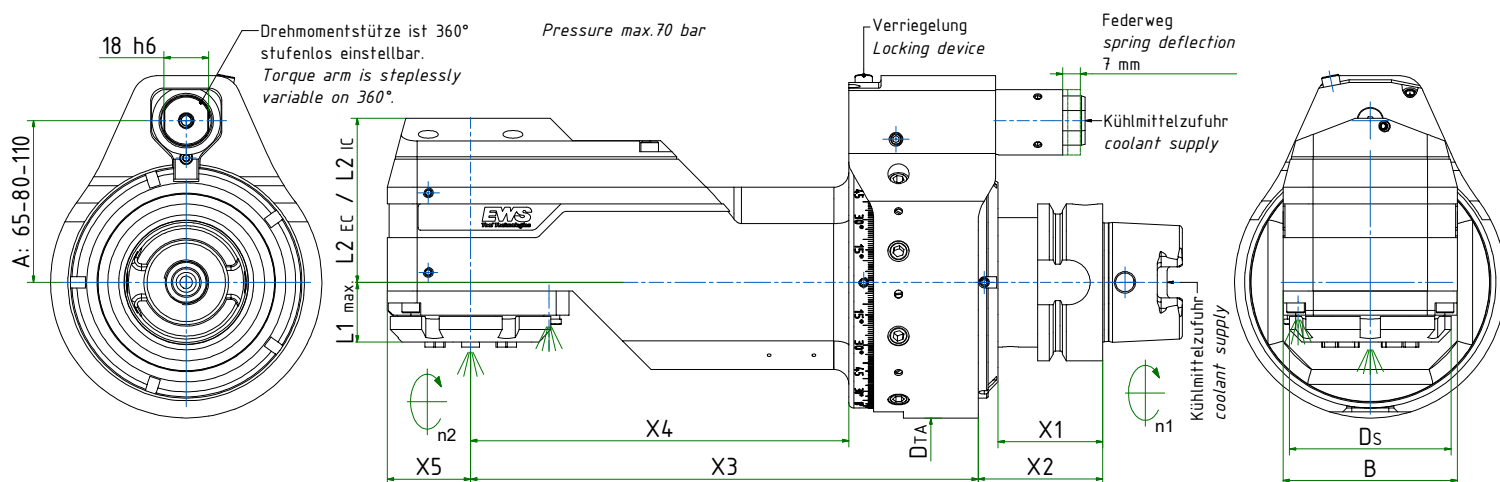


SHAFT	BT40	BT50	SK40	SK50	CAT 40	CAT 50	PSC 40	PSC 50	PSC 63	PSC 80	HSK40	HSK50	HSK63	HSK80	HSK100
X1	43	50	35	35	35	35	26	27	29	30	35	42	42	42	45
X2	51	58	43	43	43	43	34	35	37	38	43	50	50	50	53

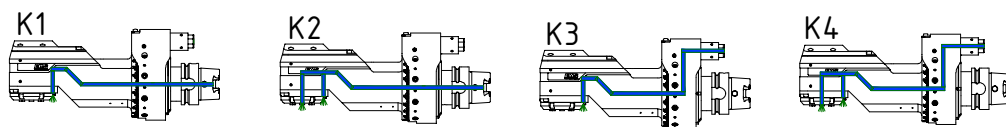
SIZE	STD COLLET	T (Nm)	RPM	LENGTH	X3	X4	X5	L1	L2	B	DS Ø	DTA Ø	COOLANT TYPE	WEIGHT (kg)
1	ER20	15	10000	SHORT	97	51,5	24,0	44,1	56,5	48	46	85	K3	4,4
1	ER20	15	10000	STANDARD	147	101,5	24,0	44,1	56,5	48	46	85	K1 K3	5,0
1	ER20	15	10000	LONG	177	131,5	24,0	44,1	56,5	48	46	85	K1 K3	5,3
2	ER25	30	8000	SHORT	90	38,0	26,0	56,9	61,9	54	52	98	K3	5,1
2	ER25	30	8000	STANDARD	137	85,0	26,0	56,9	61,9	54	52	98	K1 K3	5,8
2	ER25	30	8000	LONG	197	145,0	26,0	56,9	61,9	54	52	98	K1 K3	6,6
5	ER32	70	6000	SHORT	107	55,0	36,5	62,6	68,0	73	65	109	K3	6,6
5	ER32	70	6000	STANDARD	152	100,0	36,5	62,6	68,0	73	65	109	K1 K3	7,8
5	ER32	70	6000	LONG	217	165,0	36,5	62,6	68,0	73	65	109	K1 K3	9,2



OFFSET

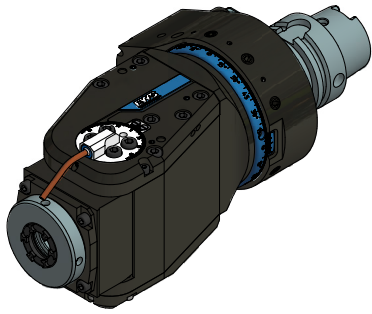


Coolant Type

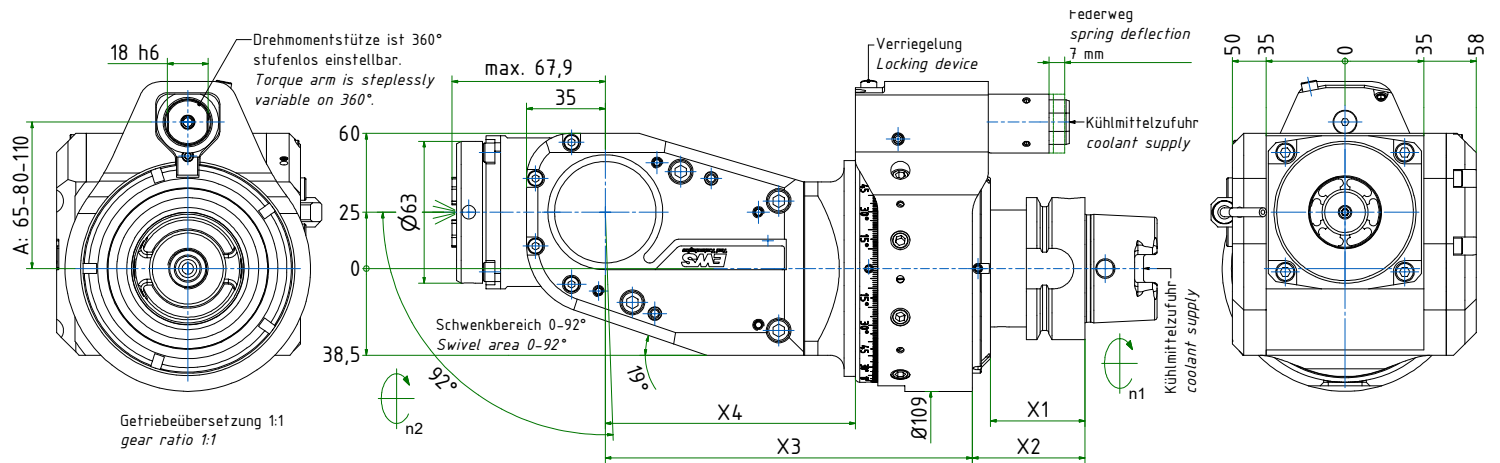


SHAFT	BT40	BT50	SK40	SK50	CAT 40	CAT 50	PSC 40	PSC 50	PSC 63	PSC 80	HSK40	HSK50	HSK63	HSK80	HSK100
X1	43	50	35	35	35	35	26	27	29	30	35	42	42	42	45
X2	51	58	43	43	43	43	34	35	37	38	43	50	50	50	53

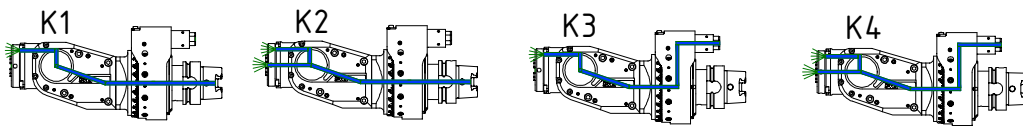
SIZE	STD COLLET	T (Nm)	RPM	i	LENGTH	X3	X4	X5	L1	B	DS Ø	L2 EC (with ext. coolant)	L2 IC (with int. coolant)	DTA Ø	COOLANT TYPE	WEIGHT (kg)
1	ER11	18/12	5300/8000	1:1,5	STANDARD	170,0	124,5	17,0	7,2	41	34	48,0	/	85	K1 K3	5,7
1	ER11	18/12	5300/8000	1:1,5	LONG	202,5	157,0	17,0	7,2	41	34	48,0	/	85	K1 K3	6,2
1	ER16	18/15	6700/8000	1:1,2	STANDARD	173,0	127,5	20,5	14,1	41	33	49,0	/	85	K1 K3	5,8
1	ER16	18/15	6700/8000	1:1,2	LONG	215,5	170,0	20,5	14,1	41	33	49,0	/	85	K1 K3	6,3
1	ER16	18/15	6700/8000	1:1,2	LONG	248	202,5	20,5	14,1	41	33	49,0	/	85	K1 K3	6,3
1	ER20	15	8000	1:1	STANDARD	175,0	129,5	23,0	17,5	46	38	50,0	/	85	K1 K3	6,2
1	ER20	15	8000	1:1	LONG	217,5	172,0	23,0	17,5	46	38	50,0	/	85	K1 K3	6,7
2	ER25	30	8000	1:1	SHORT	129,0	77,0	26,0	24,4	58	52	47,5	54,5	98	K3 K4	5,2
2	ER25	30	8000	1:1	SHORT	129,0	77,0	26,0	24,4	58	52	66,5	59,5	98	K1 K2	5,2
2	ER25	30	8000	1:1	STANDARD	176,0	124,0	26,0	24,4	58	52	47,5	54,5	98	K1 K2 K3 K4	5,7
2	ER25	30	8000	1:1	LONG	236,0	184,0	26,0	24,4	58	52	47,5	54,5	98	K1 K2 K3 K4	6,5
5	ER32	70	6000	1:1	SHORT	157,0	105,0	33,5	25,1	70	65	60,5	66,0	109	K1 K2 K3 K4	6,8
5	ER32	70	6000	1:1	STANDARD	204,0	152,0	33,5	25,1	70	65	60,5	66,0	109	K1 K2 K3 K4	8,0
5	ER32	70	6000	1:1	LONG	255,0	203,0	33,5	25,1	70	65	60,5	66,0	109	K1 K2 K3 K4	9,2



SWIVEL

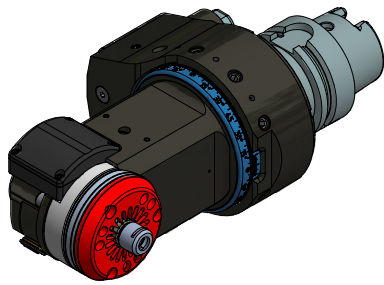


Coolant Type

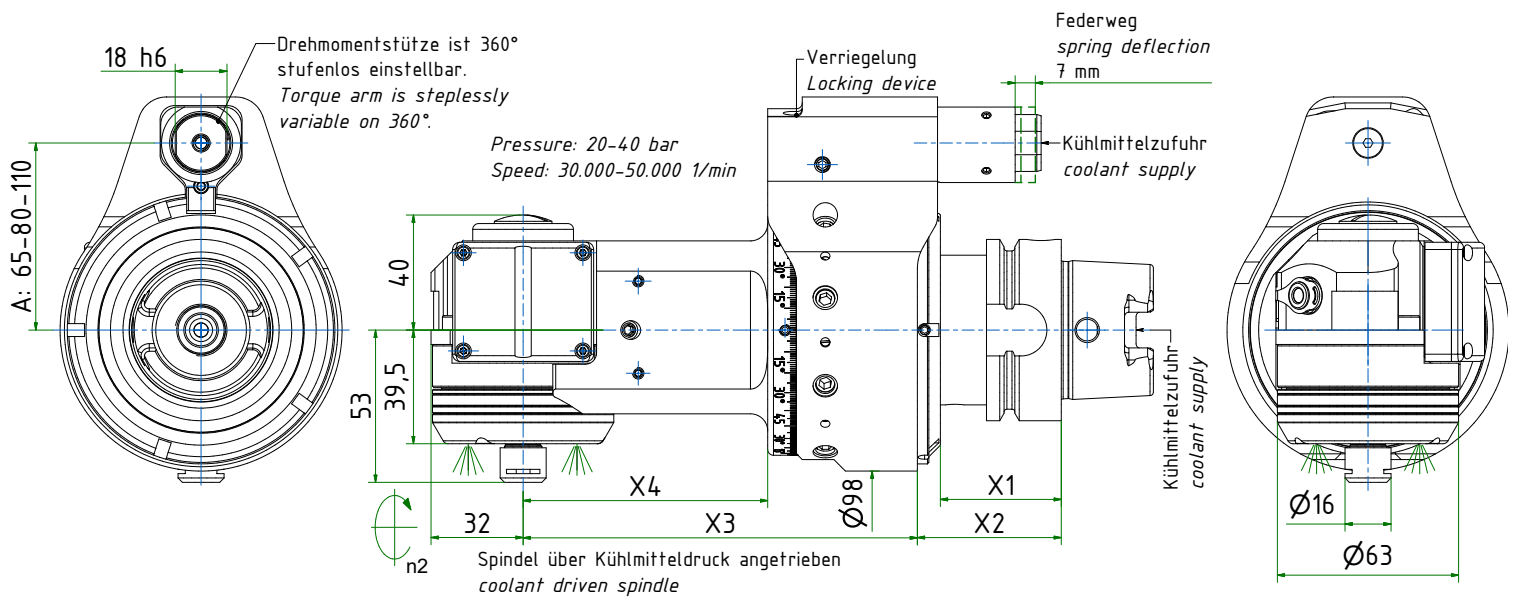


SHAFT	BT40	BT50	SK40	SK50	CAT 40	CAT 50	PSC 40	PSC 50	PSC 63	PSC 80	HSK40	HSK50	HSK63	HSK80	HSK100
X1	43	50	35	35	35	35	26	27	29	30	35	42	42	42	45
X2	51	58	43	43	43	43	34	35	37	38	43	50	50	50	53

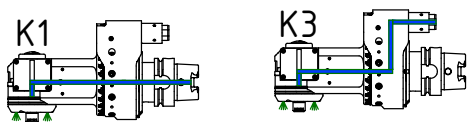
SIZE	STD COLLET	T (Nm)	RPM	LENGTH	X3	X4	COOLANT TYPE	WEIGHT (kg)
5	ER25	35	6000	STANDARD	163	111	K1 K2 K3 K4	10,3



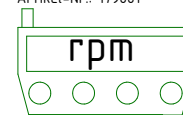
SPINJET



Coolant Type



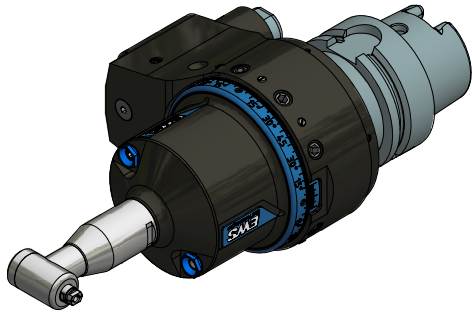
Drehzahlanzeige / rpm-display
EWS-Artikel: WS Display
Artikel-Nr.: 179661



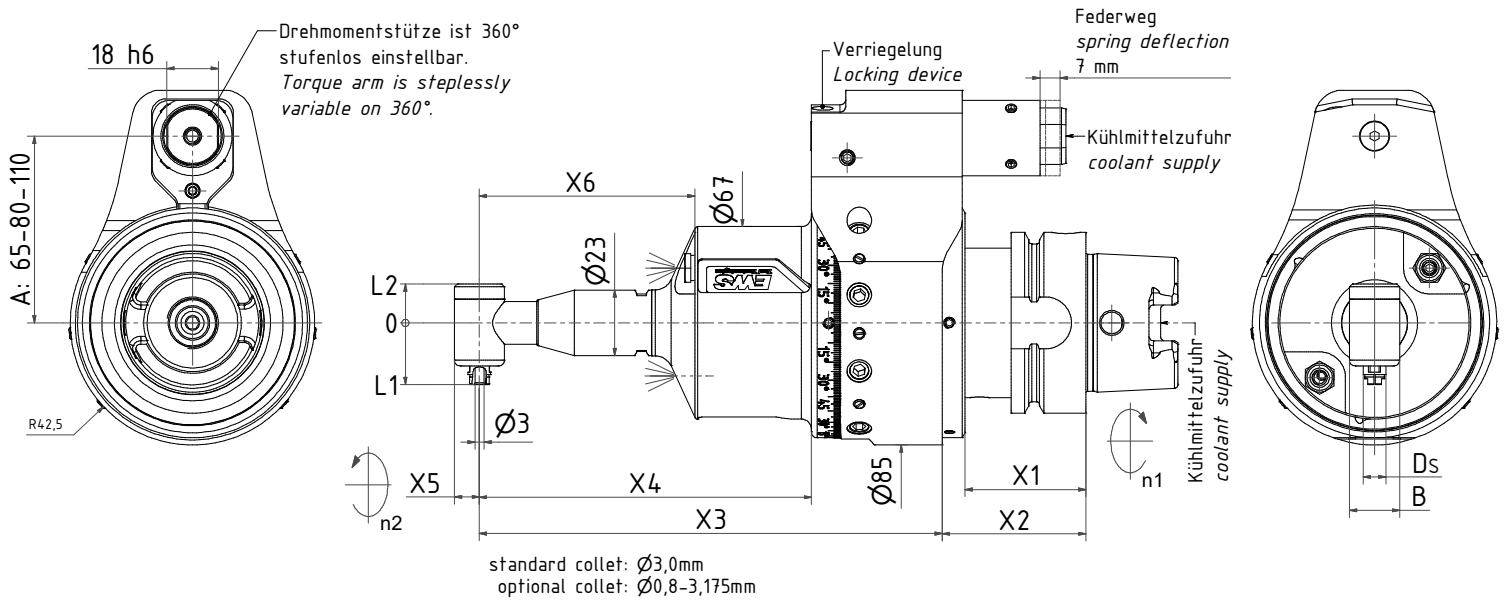
Muss separat bestellt werden!
Must be ordered separately!

SHAFT	BT40	BT50	SK40	SK50	CAT 40	CAT 50	PSC 40	PSC 50	PSC 63	PSC 80	HSK40	HSK50	HSK63	HSK80	HSK100
X1	43	50	35	35	35	35	26	27	29	30	35	42	42	42	45
X2	51	58	43	43	43	43	34	35	37	38	43	50	50	50	53

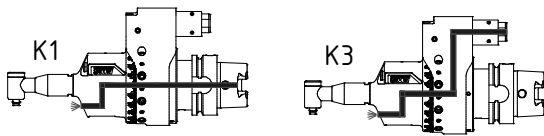
LENGTH	X3	X4	COOLANT TYPE	WEIGHT (kg)
SHORT	103	51	K1 K3	4,5
STANDARD	137	85	K1 K3	4,8
LONG	197	145	K1 K3	5,4



SPECIAL

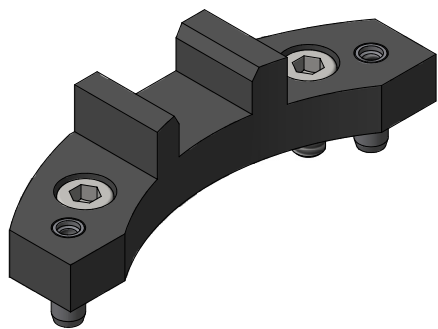


Coolant Type

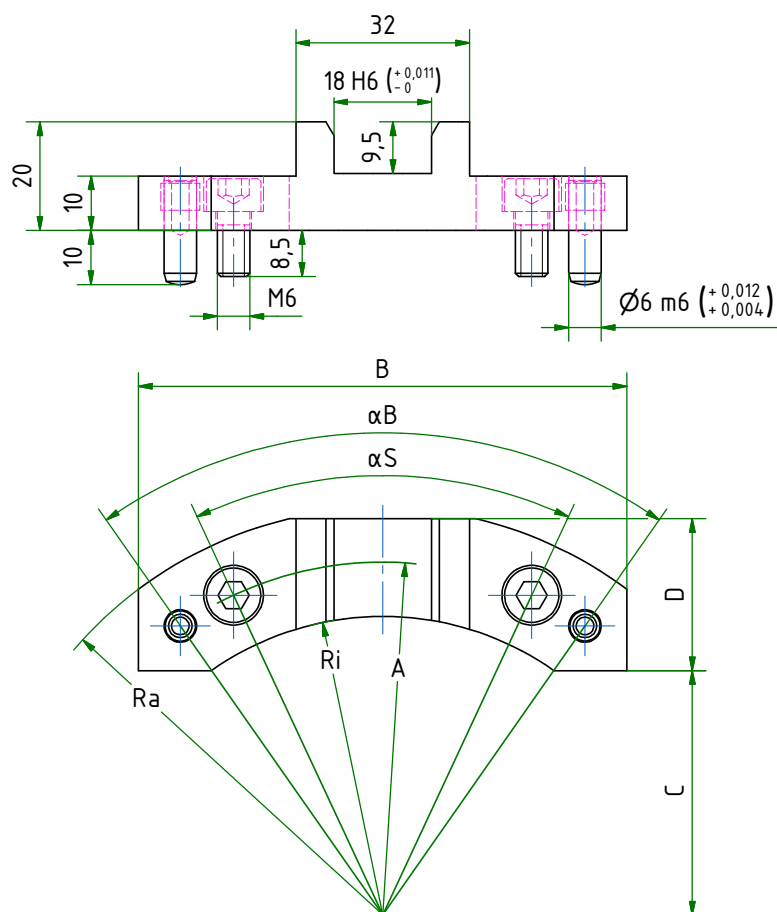


SHAFT	BT40	BT50	SK40	SK50	CAT 40	CAT 50	PSC 40	PSC 50	PSC 63	PSC 80	HSK40	HSK50	HSK63	HSK80	HSK100
X1	43	50	35	35	35	35	26	27	29	30	35	42	42	42	45
X2	51	58	43	43	43	43	34	35	37	38	43	50	50	50	53

SIZE	RPM	i	LENGTH	X3	X4	X5	X6	L1	L2	B	DS Ø	COOLANT TYPE	WEIGHT (kg)
R2	7650/5100	1,5:1	STANDARD	161	115,5	8,7	70	21,5	13,5	17,4	8	K1 K3	3,5
R1	7650/2870	2,67:1	STANDARD	171	125,5	11,4	80	28,2	20,1	22,8	9	K1 K3	3,6

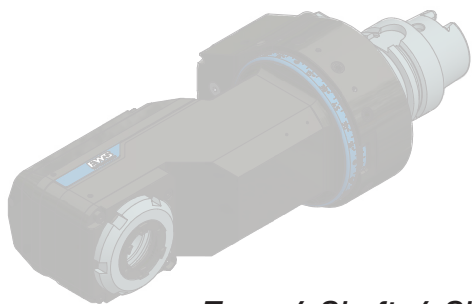


TORQUE SUPPORT



TYPES OF TORQUE SUPPORT

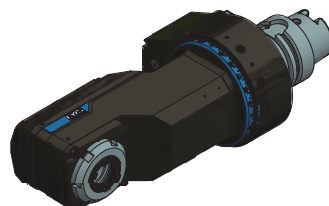
ARTICLE	A	B	C	D	Ra	Ri	αB	αS
SB-A065 55X75X20	65	90	45	28	R75	R55	70	50
SB-A80 70X90X20	80	110	54	34	R90	R70	70	50
SB-A110 100X120X20	110	130	87	31	R120	R100	60	40



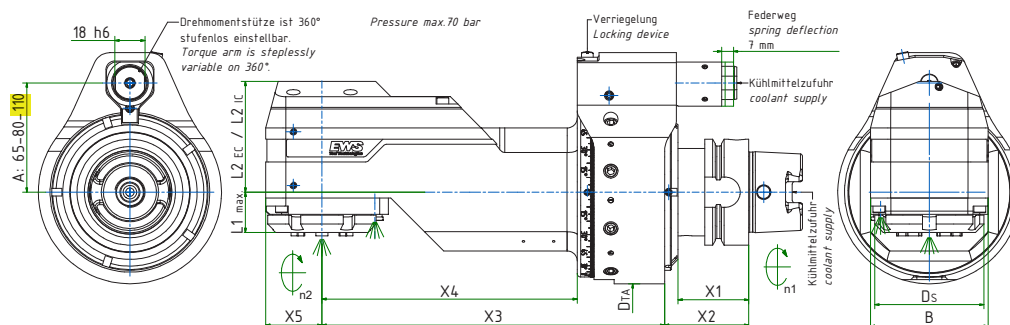
EXAMPLE

Choose:

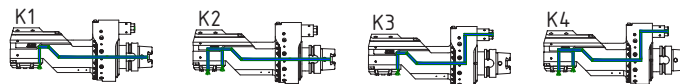
Type / Shaft / Size / Tool / Length / A = Distance to Torque Arm / Coolant Type



OFFSET



Coolant Type



SHAFT	BT40	BT50	SK40	SK50	CAT 40	CAT 50	PSC 40	PSC 50	PSC 63	PSC 80	HSK40	HSK50	HSK63	HSK80	HSK100
X1	43	50	35	35	35	35	26	27	29	30	35	42	42	42	45
X2	51	58	43	43	43	43	34	35	37	38	43	50	50	50	53

SIZE	STD COLLET	T (Nm)	RPM	i	LENGTH	X3	X4	X5	L1	B	DS Ø	L2 EC (with ext. coolant)	L2 IC (with int. coolant)	DTA Ø	COOLANT TYPE	WEIGHT (kg)
1	ER11	18/12	5300/8000	1:1,5	STANDARD	170,0	124,5	17,0	7,2	41	34	48,0	/	85	K1 K3	5,7
1	ER11	18/12	5300/8000	1:1,5	LONG	202,5	157,0	17,0	7,2	41	34	48,0	/	85	K1 K3	6,2
1	ER16	18/15	6700/8000	1:1,2	STANDARD	173,0	127,5	20,5	14,1	41	33	49,0	/	85	K1 K3	5,8
1	ER16	18/15	6700/8000	1:1,2	LONG	215,5	170,0	20,5	14,1	41	33	49,0	/	85	K1 K3	6,3
1	ER16	18/15	6700/8000	1:1,2	LONG	248	202,5	20,5	14,1	41	33	49,0	/	85	K1 K3	6,3
1	ER20	15	8000	1:1	STANDARD	175,0	129,5	23,0	17,5	46	38	50,0	/	85	K1 K3	6,2
1	ER20	15	8000	1:1	LONG	217,5	172,0	23,0	17,5	46	38	50,0	/	85	K1 K3	6,7
2	ER25	30	8000	1:1	SHORT	129,0	77,0	26,0	24,4	58	52	47,5	54,5	98	K3 K4	5,2
2	ER25	30	8000	1:1	SHORT	129,0	77,0	26,0	24,4	58	52	66,5	59,5	98	K1 K2	5,2
2	ER25	30	8000	1:1	STANDARD	176,0	124,0	26,0	24,4	58	52	47,5	54,5	98	K1 K2 K3 K4	5,7
2	ER25	30	8000	1:1	LONG	236,0	184,0	26,0	24,4	58	52	47,5	54,5	98	K1 K2 K3 K4	6,5
5	ER32	70	6000	1:1	SHORT	157,0	105,0	33,5	25,1	70	65	60,5	66,0	109	K1 K2 K3 K4	6,8
5	ER32	70	6000	1:1	STANDARD	204,0	152,0	33,5	25,1	70	65	60,5	66,0	109	K1 K2 K3 K4	8,0

	TYPE	SHAFT	SIZE	TOOL	LENGTH	A (SEE DRAWING)	COOLANT TYPE
Example	OFFSET	BT40	1	ER20	LONG	80	K3
1							
2							
3							

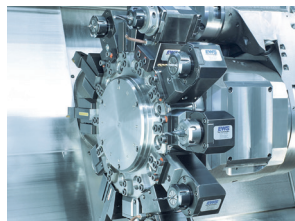
Precision meets Motion

Innovation

Die Genialität einer Erfindung liegt im Nutzen, nicht in der Komplexität ihrer Ausführung. Mit unseren Innovationen möchten wir daher die Basis für Ihren Markterfolg schaffen. Genial einfach.

Innovation

The genius of an invention lies in the benefits, not in the complexity of its embodiment. Therefore, our innovations aim at creating the basis for your success in the market. Ingeniously simple.



EWS
Tool Technologies

EWS Weigle GmbH & Co. KG
Maybachstraße 1 · D-73066 Uhingen
Telefon +49(0)7161-93040-100
Telefax +49(0)7161-93040-30
info@ews-tools.de · www.ews-tools.de







EWS Weigele GmbH & Co. KG

Maybachstraße 1 · D-73066 Uhingen
Telefon +49(0)7161-93040-100
Telefax +49(0)7161-93040-30
E-Mail info@ews-tools.de
www.ews-tools.de



EWS Korea Co. Ltd.

80-101, Golden root-ro,
Juchon-myeon, Gimhae-si,
Gyeongsangnam-do, Korea
Telefon +82 55-267-8085
Telefax +82 55-262-3118
E-Mail info@ewskorea.co.kr
www.ewskorea.co.kr



EWS Tutucu Sistemleri ve Taretleri Anonim Şirket

Aydınlı mah.Melodi No.2/19 Sk. Bilmo
San.Sit. 18-19
34956 Tuzla / İstanbul
Turkey
Telefon +90-216-593-22-44
E-Mail mehmet@ewstools.com
www.ews-tools.de



埃维斯刀座技术(太仓)

EWS Tool Holder Technologies (Taicang Co. Ltd)

Beijing East Road No. 88
215400 Taicang · Jiangsu
P. R. China
Telefon +86 512 3306 2600
Telefax +86 512 3306 2601
E-Mail sales.cnews-tools.de
www.ews-tools.cn



Command Tooling Systems

13931 Sunfish Lake Blvd NW
Ramsey · MN 55303 USA
Telefon +1-763-576-6910
Telefax +1-763-576-6911
E-Mail support@commandtool.com
www.commandtool.com