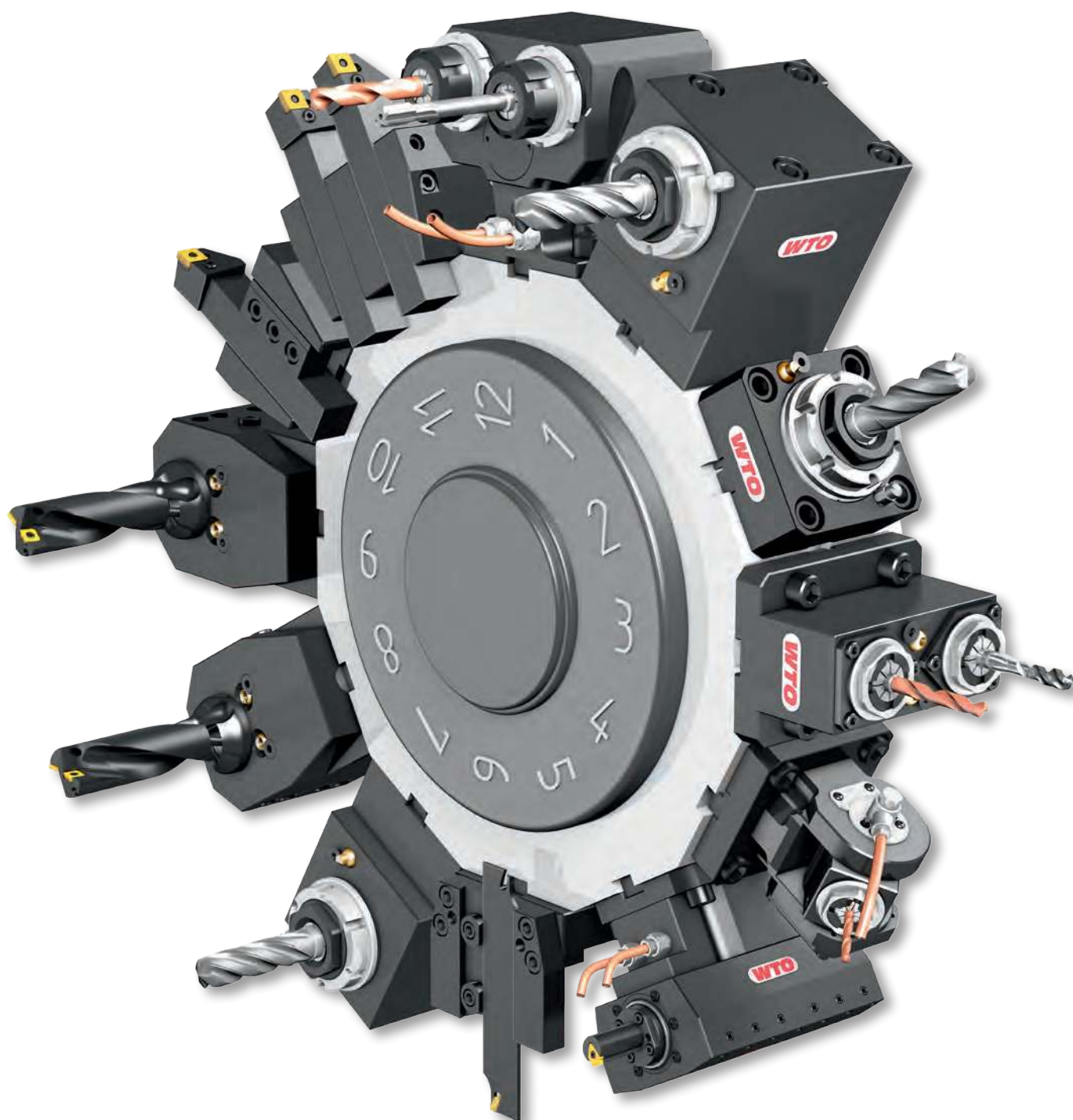




Toolholder Program

ST-10/15/20/25/30/35, DS-30 (VDI40)

ST-20/25/30/35, DS-30 (BMT65)



QuickFlex®

The new quick change system for high performance and precision.

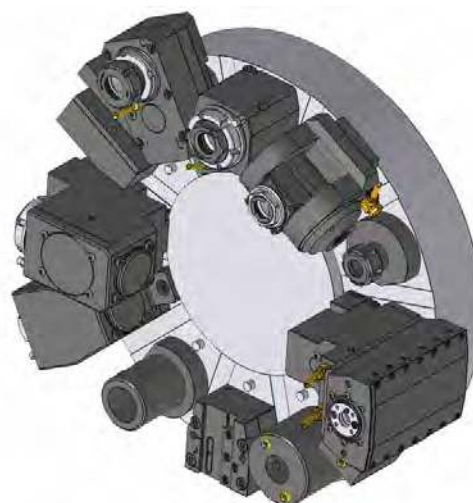
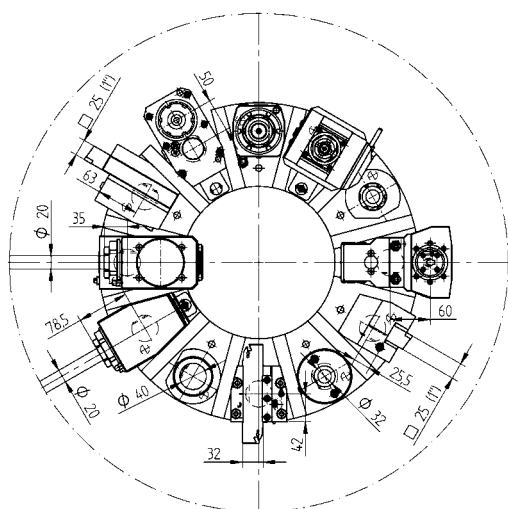
Minimal investment, maximal expandability.



Designed
for
BMT Turrets

ST-10/15/20/25/30/35, DS-30 (VDI40)	Page	4 - 6
ST-20/25/30/35, DS-30 (BMT65)	Page	7 - 10
Reduction sleeves	Page	11 - 12
Collets	Page	13 - 15

EC = External coolant supply
HP-IC = High pressure internal coolant supply through cutting tool
IC 80 bar = Internal and external coolant supply
Max. coolant pressure = 80 bar
IC 30 bar = Internal and external coolant supply
Max. coolant pressure = 30 bar
Only use filtered coolant fluid (max. particle size = 50 µm)
Do not run without coolant
Do not use for machining abrasive materials such as cast iron, etc.



Toolholder



Radial square toolholder, left hand, short, Form B2

25 48-B2-40x25



Radial square toolholder, left hand inverted, short, Form B4

25 48-B4-40x25
1" 48-B4-40x100



Radial square toolholder, left hand, long, Form B6

25 48-B6-40x25



Radial square toolholder, left hand inverted, long, Form B8

25 48-B8-40x25
1" 48-B8-40x100



Axial square toolholder, left hand, Form C2

25 48-C2-40x25



Axial square toolholder, left hand inverted, Form C4

25 48-C4-40x25
1" 48-C4-40x100



Cut-off holder, adjustable height, left hand SH 32

48-AL-40x32



Cut-off holder, adjustable height, left hand inverted SH 32

48-ALU-40x32



Cut-off holder, adjustable height, HP-IC

SH 32 48-102690R IC 80 bar
SH 32 48-102690L IC 80 bar

Toolholder



Holder for indexable insert drills, internal coolant supply, Form E1

Ø 16 48-E1-40x16
Ø 20 48-E1-40x20
Ø 25 48-E1-40x25
Ø 32 48-E1-40x32
Ø 40 48-E1-40x40
Ø 1" 48-E1-40x100



Boring bar holder, internal coolant supply, Form E2

Ø 8 48-E2-40x8
Ø 10 48-E2-40x10
Ø 12 48-E2-40x12
Ø 16 48-E2-40x16
Ø 20 48-E2-40x20
Ø 25 48-E2-40x25
Ø 30 48-E2-40x30
Ø 32 48-E2-40x32
Ø 40 48-E2-40x40



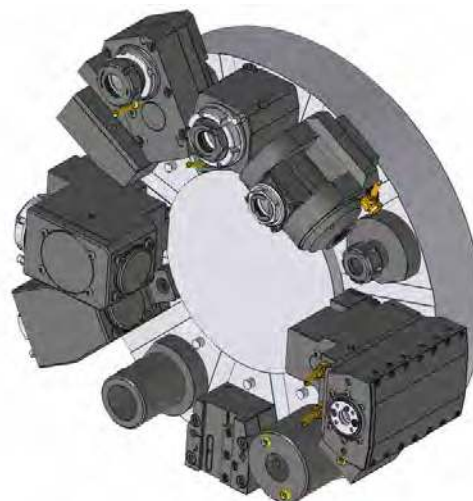
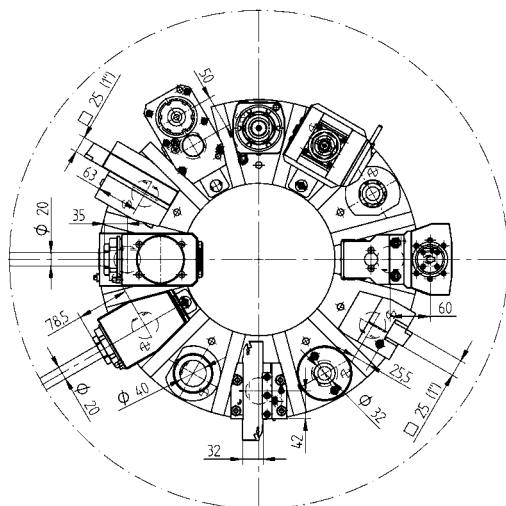
ER collet chuck holder, internal coolant supply, Form E4

ER 25 48-E4-40x25
107525000
ER 32 48-E4-40x32
107532000
ER 40 48-E4-40x40
107540000



Plug, steel, Form Z2

Steel 48-Z2-40-S



Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-32 QF	420132079-40	1:1	EC
	0067732000		
ER-32 QF	420132080-40	1:1	IC 80 bar
	0067732000		

**Right angle drill/milling unit**

ER-32 QF	420532128-40	1:1	EC
	0067732000		
ER-32 QF	420532129-40	1:1	IC 80 bar
	0067732000		

Driven Toolholders - Enhanced Program

**Straight offset drill/milling unit**

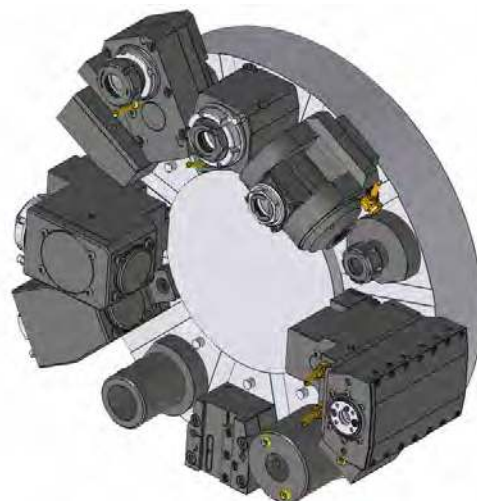
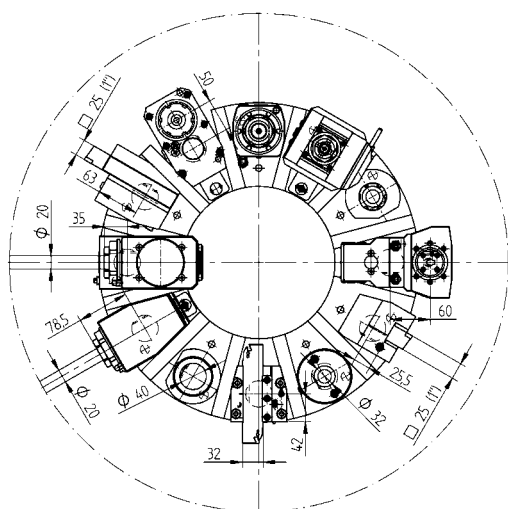
ER 32	410120237-40	1:1	EC
	00675000592		
ER 32	410120266-40	1:1	IC 80 bar
	00675000592		
ER 20	410113056-40	1:2	EC
	00675000591		
ER 20	410113057-40	1:2	IC 80 bar
	00675000591		
ER 32	410120239-40	2:1	EC
	00675000592		
ER 32	410120240-40	2:1	IC 80 bar
	00675000592		

**Right angle drill/milling unit**

ER 25	410516098-40	1:2	EC
	00675000801		
ER 25	410516099-40	1:2	IC 80 bar
	00675000801		
ER 32	410520291-40	2:1	EC
	00675000490		
ER 32	410520292-40	2:1	IC 80 bar
	00675000490		

**Right angle back set drill/milling unit**

ER-32 QF	420532106-40	1:1	EC
	0067732000		
ER-32 QF	420532107-40	1:1	IC 80 bar
	0067732000		
ER-40 QF	420540029-40	2:1	EC
	0067740000		
ER-40 QF	420540030-40	2:1	IC 80 bar
	0067540000		



Driven Toolholders - Enhanced Program

**Adjustable angle drill/milling unit**

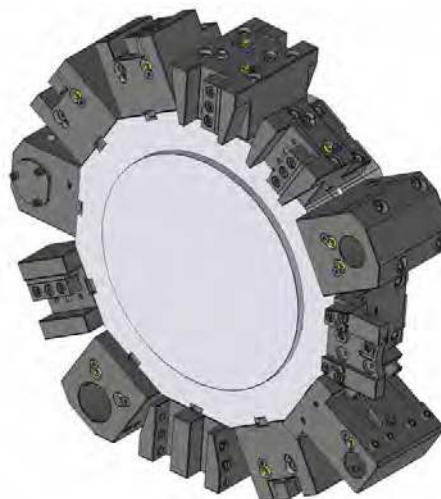
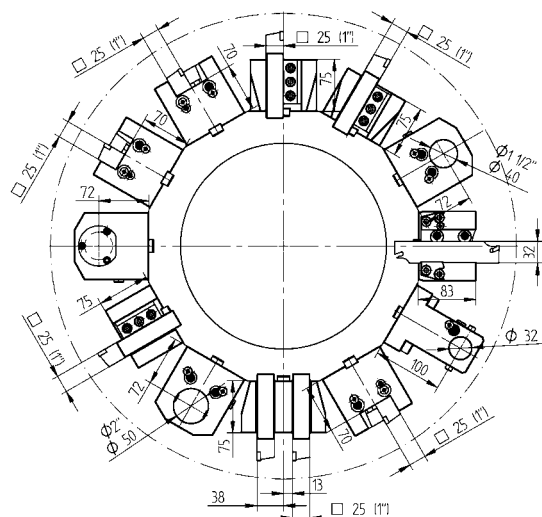
ER 25	411016017-40	1:1	EC
	00675000934		
ER 25	411016033-40	1:1	IC 80 bar
	00675000934		
ER 16	411010044-40	1:2	EC
	00675000936		
ER 16	411010045-40	1:2	IC 80 bar
	00675000936		

**Offset slitting saw unit**

Type 14-2	411500022-40	2.73:1	EC
	00675000460		
	160016142 Ø 16		
	160022142 Ø 22		
	160027142 Ø 27		
	160015142 Ø 5/8"		
	160019142 Ø 3/4"		
	160023142 Ø 7/8"		
	160025142 Ø 1"		

**Broaching unit for ID and OD**

TN765050	414132001-40	1:1	EC
-----------------	--------------	-----	----



Static Toolholders - Standard Program

**OD cutting holder**

25	48-92428
1"	48-92466

**OD cutting holder, HP-IC**

25	48-92428-HP	IC 80 bar
1"	48-92466-HP	IC 80 bar

**OD cutting holder, both sides**

25	48-92438
1"	48-92472

**OD cutting holder, both sides, HP-IC**

25	48-92438-HP	IC 80 bar
1"	48-92472-HP	IC 80 bar

**Face cutting holder**

25	48-86719
1"	48-86720

**Face cutting holder, HP-IC**

25	48-109249-HP	IC 80 bar
1"	48-109250-HP	IC 80 bar

**Combination toolholder, LF=72**

Ø 40	48-84375	IC 80 bar
Ø 1 1/2"	48-87077	IC 80 bar
Ø 50	48-107499	IC 80 bar
Ø 2"	48-107501	IC 80 bar

**Boring bar holder, both sides**

Ø 32	48-101033
-------------	-----------

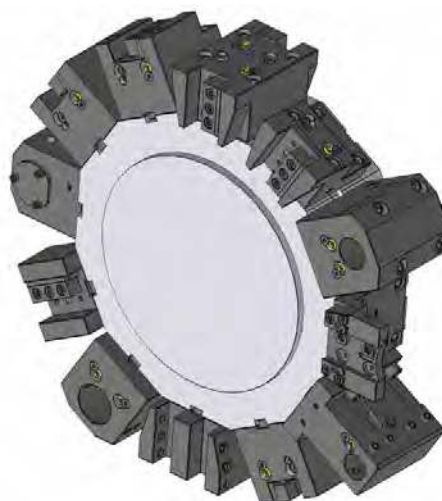
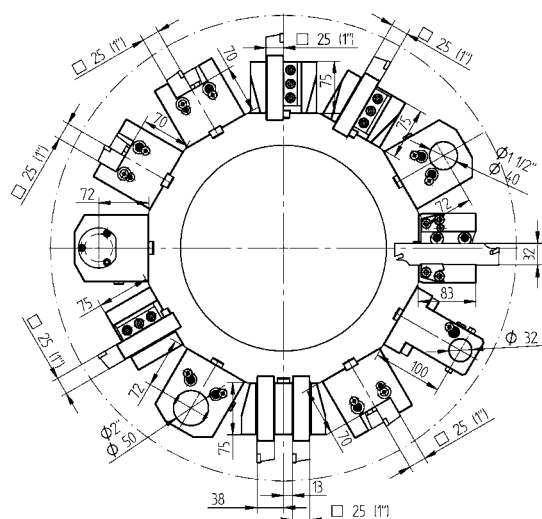
Static Toolholders - Standard Program

**Boring bar holder, double**

Ø 32	48-84524
Ø 1 1/4"	48-86905

**Cover plate**

48-87089



Static Toolholders - Enhanced Program

**OD cutting holder, double, Y axis**

25(1") 48-86103

**OD cutting holder, both sides, double, Y axis**

25(1") 48-86150

**Cut-off holder, adjustable**

SH 32 48-99060

**Cut-off holder, adjustable, long**

SH 32 48-100084

**Cut-off holder, adjustable, HP-IC**

SH 32 48-102256R IC 80 bar

SH 32 48-102256L IC 80 bar

**Cut-off holder, adjustable, long, HP-IC**

SH 32 48-100082R IC 80 bar

SH 32 48-100082L IC 80 bar

**Combination toolholder, back set**

Ø 40 48-102037 IC 80 bar

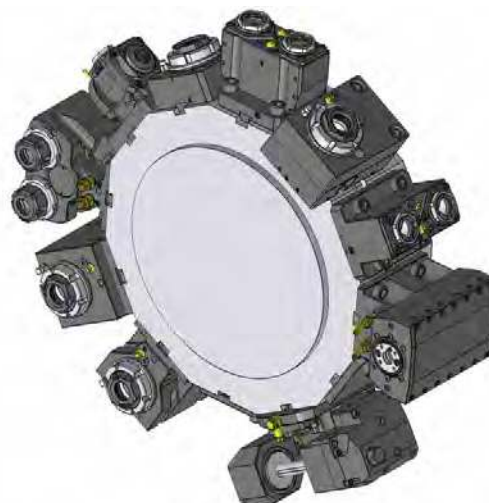
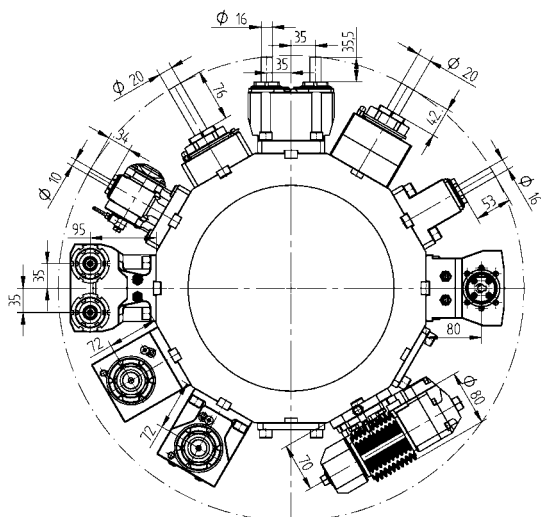
241140020 ER32

241140026 ER40

**Boring bar holder, double, both sides**

Ø 32 48-86160

Ø 1 1/4" 48-86274



Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-32 QF 420132015-65 1:1 EC
0067732000

ER-32 QF 420132016-65 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, LF=72**

ER-32 QF 420532015-65 1:1 EC
0067732000

ER-32 QF 420532016-65 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, both sides, LF=72**

ER-32 QF 420532017-65 1:1 EC
0067732000

Driven Toolholders - Enhanced Program

**Straight drill/milling unit**

ER 40 410126001-65 1:1 EC
00675000079

**Straight milling unit with combination mill arbor DIN 6358**

Ø 22 410222002-65 1:1 EC
00675000483

Ø 1" 410225002-65 1:1 EC
00675000483

**Straight offset drill/milling unit**

ER-32 QF 420132037-65 1:1 EC
0067732000

ER-32 QF 420132038-65 1:1 IC 80 bar
0067732000

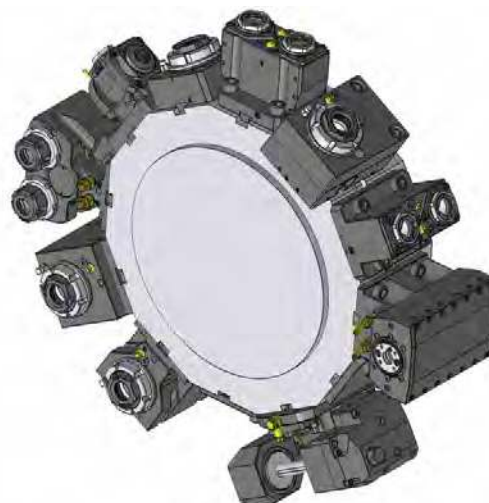
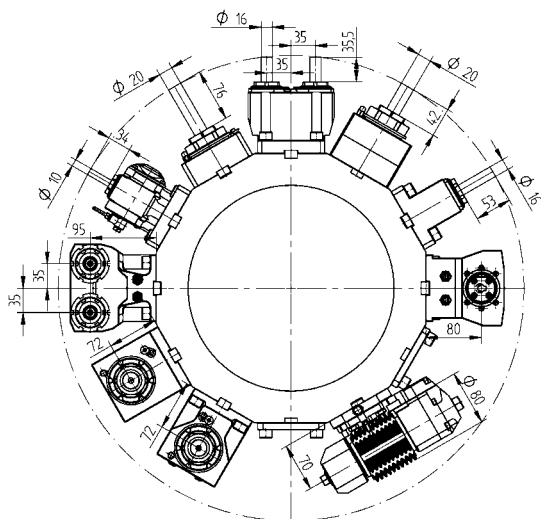
ER-25 QF 420125010-65 1:2 EC
0067725001

ER-25 QF 420125011-65 1:2 IC 80 bar
0067725001

**Face drill/milling unit for ER collets, LF=72**

ER 40 410526005-65 1:1 EC
00675000781

ER 40 410526006-65 1:1 IC 80 bar
00675000781



Driven Toolholders - Enhanced Program

**Right angle drill/milling unit, LF=72**

ER-25 QF	420525010-65	1:2	EC
	0067725001		
ER-25 QF	420525011-65	1:2	IC 80 bar
	0067725001		
ER-32 QF	420532027-65	2:1	EC
	0067732000		
ER-32 QF	420532028-65	2:1	IC 80 bar
	0067732000		

**Right angle milling unit with combination mill arbor DIN 6358, LF=72**

Ø 22	410622001-65	1:1	EC
	00675000483		
1"	410625001-65	1:1	EC
	00675000483		

**Adjustable angle drill/milling unit**

ER 16	411010002-65	1:1	EC
	00675000902		
ER 16	411010003-65	1:1	IC 80 bar
	00675000902		
ER 11	411007002-65	1:2	EC
	00675000914		
ER 11	411007003-65	1:2	IC 80 bar
	00675000914		

Driven Toolholders - Enhanced Program

**Gear hobbing unit**

Type 16-1	411500003-65	1:1	EC
Type 16-1	411500002-65	2:1	EC
	00675000927		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		
	96394		

**Straight drill/milling unit, both sides**

ER 25	413002001-65	1:1	EC
	00675000907		

**Straight drill/milling unit, double, Y axis**

ER 25	413002004-65	1:1	EC
	00675000907		

**2-spindle - Right angle drill/milling unit, Y axis**

ER 25	413502006-65	1:1	EC
	00675000915		
ER 25	413502007-65	1:1	IC 80 bar
	00675000915		

**2-spindle - Right angle drill/milling unit, both sides, Y axis**

ER 25	413502008-65	1:1	EC
	00675000915		

**Broaching unit for ID and OD**

TN765050	414532001-65	1:1	EC
-----------------	--------------	-----	----

Standard reduction sleeves - cylindrical



Reduction sleeve Ø 20

240020006	ø 6
240020008	ø 8
240020010	ø 10
240020012	ø 12
240020014	ø 14
240020016	ø 16



Reduction sleeve Ø 25

240025006	ø 6
240025008	ø 8
240025010	ø 10
240025012	ø 12
240025016	ø 16
240025020	ø 20



Reduction sleeve Ø 32

240032006	ø 6
240032008	ø 8
240032010	ø 10
240032012	ø 12
240032016	ø 16
240032020	ø 20
240032025	ø 25



Reduction sleeve Ø 40

240040006	ø 6
240040008	ø 8
240040010	ø 10
240040012	ø 12
240040014	ø 14
240040016	ø 16
240040020	ø 20
240040025	ø 25
240040032	ø 32



Reduction sleeve Ø 50

240050010	ø 10
240050012	ø 12
240050016	ø 16
240050020	ø 20
240050025	ø 25
240050032	ø 32
240050040	ø 40



Reduction sleeve Ø 1 1/4"

2400125038	ø 3/8"
2400125050	ø 1/2"
2400125063	ø 5/8"
2400125075	ø 3/4"
2400125088	ø 7/8"
2400125100	ø 1"

Standard reduction sleeves - cylindrical



Reduction sleeve Ø 1 1/2"

2400150038	ø 3/8"
2400150050	ø 1/2"
2400150063	ø 5/8"
2400150075	ø 3/4"
2400150088	ø 7/8"
2400150100	ø 1"
2400150125	ø 1 1/4"



Reduction sleeve Ø 2"

2400200050	ø 1/2"
2400200063	ø 5/8"
2400200088	ø 7/8"
2400200100	ø 1"
2400200125	ø 1 1/4"
2400200150	ø 1 1/2"
2400200175	ø 1 3/4"

Standard reduction sleeves - morse taper



Reduction sleeve Ø 32

240532001	MT 1
240532002	MT 2
240532003	MT 3



Reduction sleeve Ø 40

240540001	MT 1
240540002	MT 2
240540003	MT 3
240540004	MT 4



Reduction sleeve Ø 50

240550002	MT 2
240550003	MT 3
240550004	MT 4

Collets DIN 6499B (ER/ESX)



ER 11	mm	inch
190011000	ø 7-0.5	ø 0.276-0.020
190011010	ø 1-0.5	ø 0.039-0.020
190011015	ø 1.5-1	ø 0.059-0.039
190011020	ø 2-1.5	ø 0.079-0.059
190011025	ø 2.5-2	ø 0.098-0.079
190011030	ø 3-2.5	ø 0.118-0.098
190011035	ø 3.5-3	ø 0.138-0.118
190011040	ø 4-3.5	ø 0.158-0.138
190011045	ø 4.5-4	ø 0.177-0.158
190011050	ø 5-4.5	ø 0.197-0.177
190011055	ø 5.5-5	ø 0.217-0.197
190011060	ø 6-5.5	ø 0.236-0.217
190011065	ø 6.5-6	ø 0.256-0.236
190011070	ø 7-6.5	ø 0.276-0.256



ER 16	mm	inch
190016000	ø 10-0.5	ø 0.394-0.020
190016010	ø 1-0.5	ø 0.039-0.020
190016020	ø 2-1	ø 0.079-0.039
190016030	ø 3-2	ø 0.118-0.079
190016040	ø 4-3	ø 0.158-0.118
190016050	ø 5-4	ø 0.197-0.158
190016060	ø 6-5	ø 0.236-0.197
190016070	ø 7-6	ø 0.276-0.236
190016080	ø 8-7	ø 0.315-0.276
190016090	ø 9-8	ø 0.354-0.315
190016100	ø 10-9	ø 0.394-0.354



ER 20	mm	inch
190020000	ø 13-1	ø 0.512-0.039
190020010	ø 1-0.5	ø 0.039-0.020
190020020	ø 2-1	ø 0.079-0.039
190020030	ø 3-2	ø 0.118-0.079
190020040	ø 4-3	ø 0.157-0.118
190020050	ø 5-4	ø 0.197-0.157
190020060	ø 6-5	ø 0.236-0.197
190020070	ø 7-6	ø 0.276-0.236
190020080	ø 8-7	ø 0.315-0.276
190020090	ø 9-8	ø 0.354-0.315
190020100	ø 10-9	ø 0.394-0.354
190020110	ø 11-10	ø 0.433-0.394
190020120	ø 12-11	ø 0.472-0.433
190020130	ø 13-12	ø 0.512-0.472

Collets DIN 6499B (ER/ESX)



ER 25	mm	inch
190025000	ø 16-1	ø 0.630-0.039
190025020	ø 2-1	ø 0.079-0.039
190025030	ø 3-2	ø 0.118-0.079
190025040	ø 4-3	ø 0.157-0.118
190025050	ø 5-4	ø 0.197-0.157
190025060	ø 6-5	ø 0.236-0.197
190025070	ø 7-6	ø 0.276-0.236
190025080	ø 8-7	ø 0.315-0.276
190025090	ø 9-8	ø 0.354-0.315
190025100	ø 10-9	ø 0.394-0.354
190025110	ø 11-10	ø 0.433-0.394
190025120	ø 12-11	ø 0.472-0.433
190025130	ø 13-12	ø 0.512-0.472
190025140	ø 14-13	ø 0.551-0.512
190025150	ø 15-14	ø 0.591-0.551
190025160	ø 16-15	ø 0.630-0.591



ER 32	mm	inch
190032000	ø 20-2	ø 0.787-0.079
190032030	ø 3-2	ø 0.118-0.079
190032040	ø 4-3	ø 0.157-0.118
190032050	ø 5-4	ø 0.197-0.157
190032060	ø 6-5	ø 0.236-0.197
190032070	ø 7-6	ø 0.276-0.236
190032080	ø 8-7	ø 0.315-0.276
190032090	ø 9-8	ø 0.354-0.315
190032100	ø 10-9	ø 0.394-0.354
190032110	ø 11-10	ø 0.433-0.394
190032120	ø 12-11	ø 0.472-0.433
190032130	ø 13-12	ø 0.512-0.472
190032140	ø 14-13	ø 0.551-0.512
190032150	ø 15-14	ø 0.591-0.551
190032160	ø 16-15	ø 0.630-0.591
190032170	ø 17-16	ø 0.669-0.630
190032180	ø 18-17	ø 0.709-0.669
190032190	ø 19-18	ø 0.748-0.709
190032200	ø 20-19	ø 0.787-0.748

Collets DIN 6499B (ER/ESX)



ER 40	mm	inch
190040000	ø 26-3	ø 1.024-0.118
190040040	ø 4-3	ø 0.157-0.118
190040050	ø 5-4	ø 0.197-0.157
190040060	ø 6-5	ø 0.236-0.197
190040070	ø 7-6	ø 0.276-0.236
190040080	ø 8-7	ø 0.315-0.276
190040090	ø 9-8	ø 0.354-0.315
190040100	ø 10-9	ø 0.394-0.354
190040110	ø 11-10	ø 0.433-0.394
190040120	ø 12-11	ø 0.472-0.433
190040130	ø 13-12	ø 0.512-0.472
190040140	ø 14-13	ø 0.551-0.512
190040150	ø 15-14	ø 0.591-0.551
190040160	ø 16-15	ø 0.630-0.591
190040170	ø 17-16	ø 0.669-0.630
190040180	ø 18-17	ø 0.709-0.669
190040190	ø 19-18	ø 0.748-0.709
190040200	ø 20-19	ø 0.787-0.748
190040210	ø 21-20	ø 0.827-0.787
190040220	ø 22-21	ø 0.866-0.827
190040230	ø 23-22	ø 0.906-0.866
190040240	ø 24-23	ø 0.945-0.906
190040250	ø 25-24	ø 0.984-0.945
190040260	ø 26-25	ø 1.024-0.984

Collets DIN 6499D (ER/ESX) - sealed, for IC



ER 11	mm	inch
191011030	ø 3	
191011040	ø 4	
191011050	ø 5	
191011060	ø 6	
191111013-in		ø 0.125
191111019-in		ø 0.188
191111025-in		ø 0.25



ER 16	mm	inch
191016000	ø 3-10	
191016030	ø 3	
191016040	ø 4	
191016050	ø 5	
191016060	ø 6	
191016070	ø 7	
191016080	ø 8	
191016090	ø 9	
191016100	ø 10	
191116001		ø 0.125-0.375
191116013-in		ø 0.125
191116019-in		ø 0.188
191116025-in		ø 0.25
191116031-in		ø 0.313
191116038-in		ø 0.375



ER 25	mm	inch
191025000	ø 4-16	
191025030	ø 3	
191025040	ø 4	
191025050	ø 5	
191025060	ø 6	
191025070	ø 7	
191025080	ø 8	
191025090	ø 9	
191025100	ø 10	
191025110	ø 11	
191025120	ø 12	
191025130	ø 13	
191025140	ø 14	
191025150	ø 15	
191025160	ø 16	
191125001		ø 0.25-0.625
191125025-in		ø 0.25
191125031-in		ø 0.313
191125038-in		ø 0.375
191125044-in		ø 0.438
191125050-in		ø 0.5
191125056-in		ø 0.563
191125063-in		ø 0.625

Collets DIN 6499D (ER/ESX) - sealed, for IC

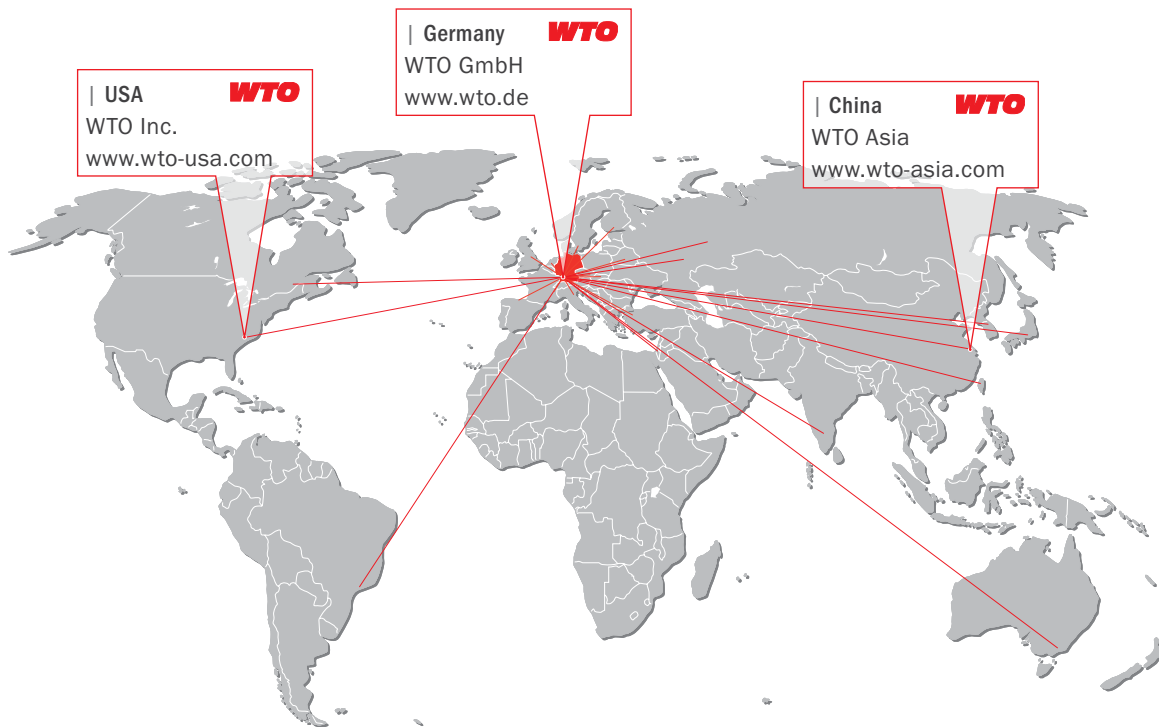


ER 32	mm	inch
191032000	ø 4-20	
191032030	ø 3	
191032040	ø 4	
191032050	ø 5	
191032060	ø 6	
191032070	ø 7	
191032080	ø 8	
191032090	ø 9	
191032100	ø 10	
191032110	ø 11	
191032120	ø 12	
191032130	ø 13	
191032140	ø 14	
191032150	ø 15	
191032160	ø 16	
191032170	ø 17	
191032180	ø 18	
191032190	ø 19	
191032200	ø 20	
191132001		ø 0.25-0.75
191132025-in		ø 0.25
191132031-in		ø 0.313
191132038-in		ø 0.375
191132044-in		ø 0.438
191132050-in		ø 0.5
191132056-in		ø 0.563
191132063-in		ø 0.625
191132069-in		ø 0.688
191132075-in		ø 0.75



ER 40	mm	inch
191040060	ø 6	
191040080	ø 8	
191040100	ø 10	
191040120	ø 12	
191040140	ø 14	
191040160	ø 16	
191040180	ø 18	
191040200	ø 20	
191040220	ø 22	
191040250	ø 25	
191140025-in		ø 0.25
191140031-in		ø 0.313
191140038-in		ø 0.375
191140044-in		ø 0.438
191140050-in		ø 0.5
191140056-in		ø 0.563
191140063-in		ø 0.625
191140069-in		ø 0.688
191140075-in		ø 0.75
191140088-in		ø 0.875
191140100-in		ø 1

WTO worldwide



| USA
WTO Inc.
www.wto-usa.com

| Germany
WTO GmbH
www.wto.de

| China
WTO Asia
www.wto-asia.com

WTO GmbH
Auf der oberen Au 45
77797 Ohlsbach
Germany

WTO USA
13900-F
South Lakes Drive
Charlotte, NC 28273
USA

WTO Asia
Room 109-110, Building 2
No. 228 Banting Road
Jiuting Town,
Songjiang District
201615 Shanghai
China

Our distribution partners. Competence right there.

| Australia
Dimac Tooling Ltd.
sales@dimac.com.au

| Finland
Suomen Terästuonti Oy
myynti@stt.as

| Korea
WTO Office Korea
is.chon@wto-korea.com

| Slovakia
ALBA precision s.r.o.
albaprecision@albaprecision.sk

| Belarus
LLC "PMI Engineering"
tool@pmi.by

| France
Philippe Tagliafero
pta@wto.de

| Mexico
Workholding Engineering De México
info@wem.com.mx

| Spain
ITALMATIC, S.A.
italmatic@italmatic.es

| Brazil
TF2
tfdois@tfdois.com.br

| Great Britain
Cutwel Ltd.
sales@cutwel.net

| Netherlands
Toologic BeNeLux B.V.
info@toologic-benelux.nl

| Sweden
Komet Scandinavia AB
scandinavia@kometgroup.com

| Canada
Mittmann Industrial Inc.
info@mittmann.com

| India
Ulhas Patil
u.patil@wto-asia.com

| Norway
Helge Karlsen Verktøy og Maskin AS
hkvm@hkvm.no

| Switzerland
Utilis AG
info@utilis.com

| China
Shanghai Gangde
wtoando@yahoo.com

| Israel
E.Y.A.R. Ltd.
boris@eyar.co.il

| Poland
ARCO Andrzej Rudenko
info@arcotools.pl

| Taiwan
Kaiko Co., Ltd.
info@kaiko.com.tw

| Czech Republic
ALBA precision, spol. s.r.o.
info@albaprecision.cz

| Italy
Prymark srl
commerciale@prymark.it

| Romania
SC Elif Trading SRL
bulent.ozkan@eliftrading.com

| Turkey
MYK CNC MAKINA SAN. VE
huseyin.tatlidil@mykcnc.com.tr

| Denmark
Tool-part
cj@tool-part.dk

| Japan
NK Works Co. Ltd.
k_samba@nk-works.co.jp

| Russia
WTO Office Russia
office@wto-russia.com

| Ukraine
„LLC“ SPA Stankopromimport
info@phoenix-ua.com