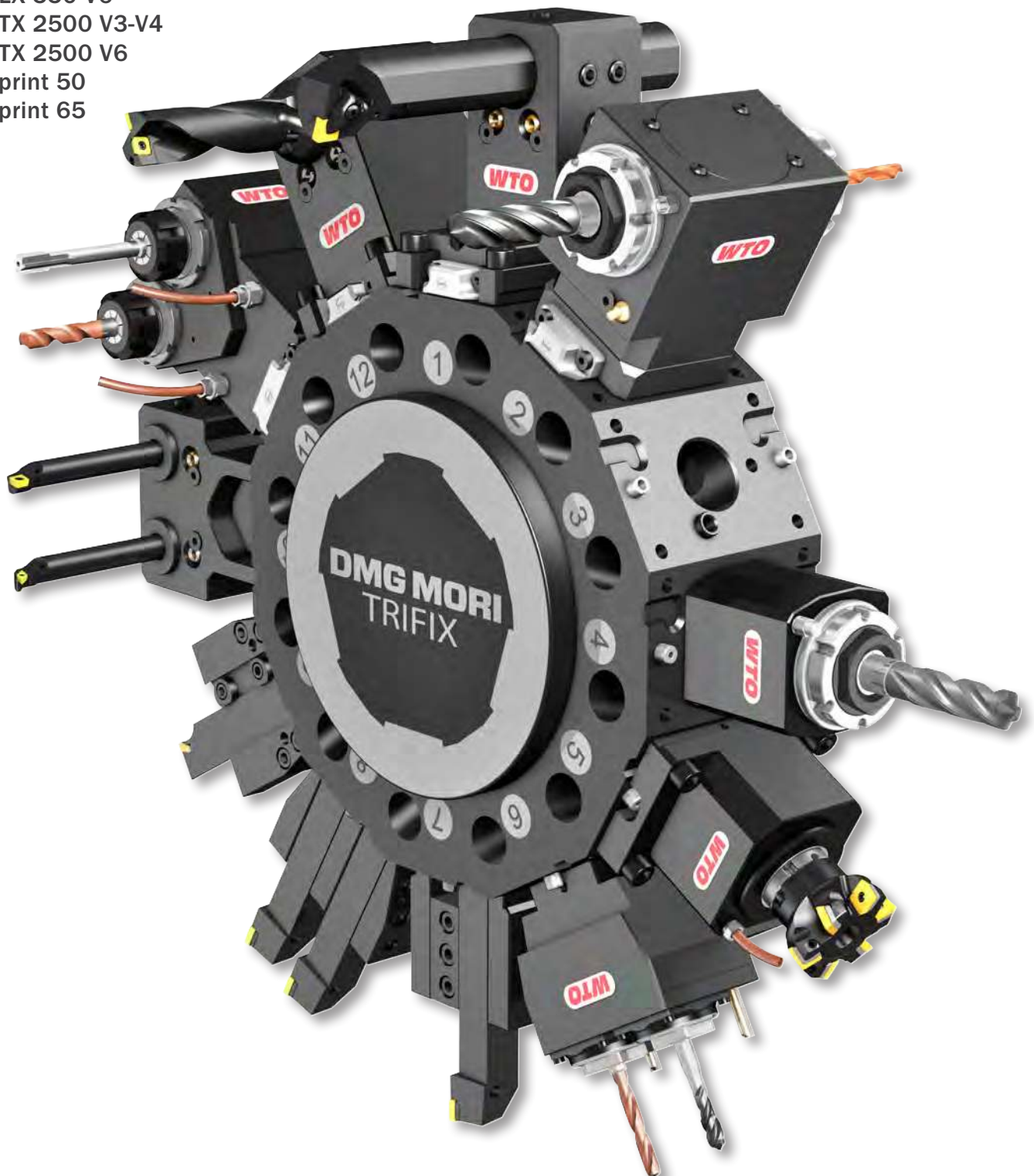


DMG MORI

WTO

Toolholder Program

CLX 350 V3-V4
CLX 350 V6
CLX 450/550 V3-V4
CLX 550 V6
CTX 2500 V3-V4
CTX 2500 V6
Sprint 50
Sprint 65



Trifix[®]

QuickFlex[®]

The new quick change system for
high performance and precision.

Minimal investment, maximal expandability.

Designed
for

Trifix[®]

CLX 350 V3-V4	Page	4 - 6
CLX 350 V6	Page	7 - 13
CLX 450/550 V3-V4	Page	14 - 16
CLX 550 V6	Page	17 - 24
CTX 2500 V3-V4	Page	25 - 27
CTX 2500 V6	Page	28 - 35
Sprint 50	Page	36 - 39
Sprint 65	Page	40 - 46
Reduction sleeves	Page	47 - 48
Collets	Page	49 - 51

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

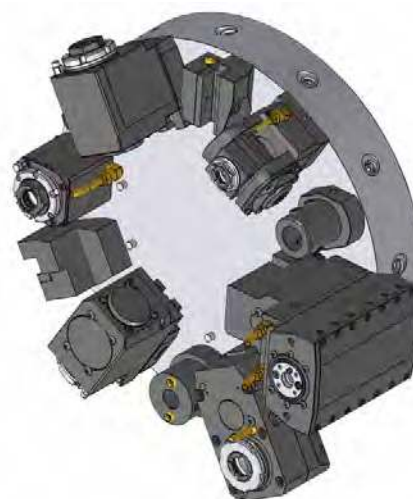
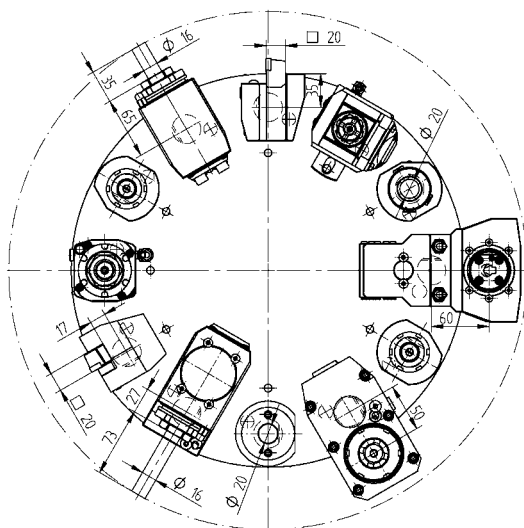
IC 30 bar = Internal and external coolant supply

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.



Static Toolholders - Standard Program



Radial square toolholder, right hand, short, Form B1

20 48-B1-30x20
20 48-B1-30x20x60



Radial square toolholder, right hand inverted, short, Form B3

20 48-B3-30x20



Radial square toolholder, right hand, long, Form B5

20 48-B5-30x20



Radial square toolholder, right hand inverted, long, Form B7

20 48-B7-30x20



Radial square toolholder, HP-IC - double VDI serration

20 48-105980R-HP IC 80 bar
20 48-105980L-HP IC 80 bar



Axial square toolholder, right hand, Form C1

20 48-C1-30x20
3/4" 48-C1-30x075



Axial square toolholder, right hand inverted, Form C3

20 48-C3-30x20
3/4" 48-C3-30x075



Cut-off holder, adjustable height, right hand

SH 26 48-AR-30x26



Cut-off holder, adjustable height, right hand inverted

SH 26 48-ARU-30x26

Static Toolholders - Standard Program



Cut-off holder, adjustable height, HP-IC

SH 26 48-102686R IC 80 bar
SH 26 48-102686L IC 80 bar
SH 32 48-102688R IC 80 bar
SH 32 48-102688L IC 80 bar



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

Ø 16 48-E1-30x16
Ø 20 48-E1-30x20
Ø 25 48-E1-30x25
Ø 32 48-E1-30x32



Boring bar holder, internal coolant supply, Form E2

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



ER collet chuck holder, internal coolant supply, Form E4

ER 25 48-E4-30x25
107525000

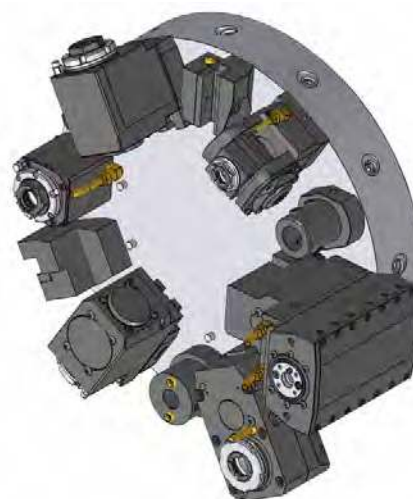
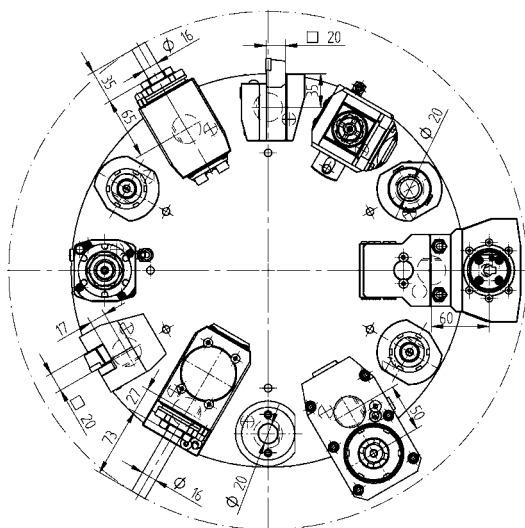
ER 32 48-E4-30x32
107532000

ER 40 48-E4-30x40
107540000



Plug, steel, Form Z2

Steel 48-Z2-30-S



Driven Toolholders - Enhanced Program

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

ER 25	410516136-30	2:1	EC
	00675000801		
ER 25	410516137-30	2:1	IC 80 bar
	00675000801		

**Right angle milling unit with combination mill arbor DIN 6358**

Ø 16	410616021-30	1:1	EC
	00675000854		
Ø 22	410622011-30	1:1	EC
	00675000160		

**Adjustable angle drill/milling unit**

ER 16	411010003-30	1:1	EC
	00675000902		
ER 16	411010004-30	1:1	IC 80 bar
	00675000902		
ER 11	411007016-30	1:2	EC
	00675000914		
ER 11	411007017-30	1:2	IC 80 bar
	00675000914		

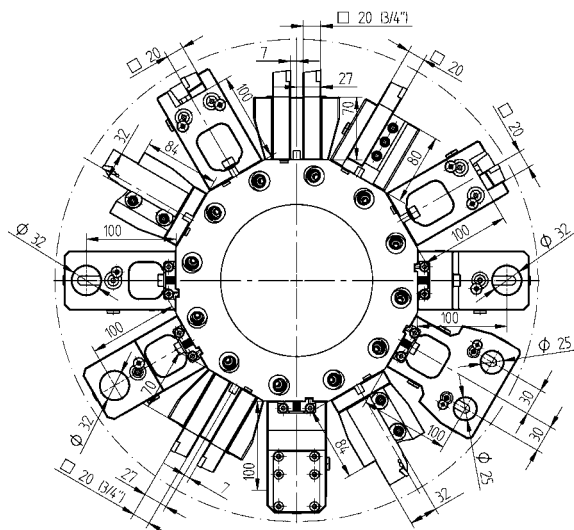
**Slitting saw unit**

Type 14-2	410900008-30	2.62:1	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"		

Driven Toolholders - Enhanced Program

**Broaching unit for ID and OD**

TN765050	414132000-30	1:1	EC
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Static Toolholders - Standard Program

**Axial square toolholder, right hand, Form C1**

20 48-C1-30x20
3/4" 48-C1-30x075

**Axial square toolholder, left hand, Form C2**

20 48-C2-30x20
3/4" 48-C2-30x075

**Axial square toolholder, right hand inverted, Form C3**

20 48-C3-30x20
3/4" 48-C3-30x075

**Axial square toolholder, left hand inverted, Form C4**

20 48-C4-30x20

**Universal square toolholder, Form D1**

20 48-D1-30x20

**Universal square toolholder, inverted, Form D2**

20 48-D2-30x20

**OD cutting holder, left**

20 48-71932
R4Z410W

**OD cutting holder, right**

20 48-72047
R4Z230W

**OD cutting holder, both sides**

20 48-71216
R6Z410W

Static Toolholders - Standard Program

**Face cutting holder**

20 48-105756

**Face cutting holder, Trifix®**

20 48-109793

**Combination toolholder, universal, LF=100**

Ø 32 48-71434
241132016 ER25
241132020 ER32

**Combination toolholder, universal, Trifix®, LF=100**

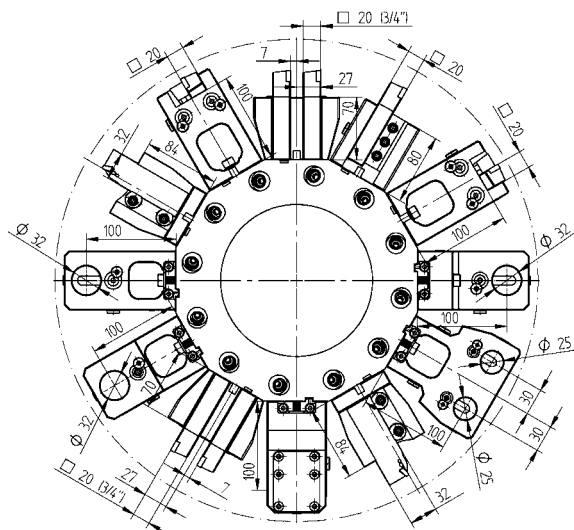
Ø 32 48-96995
241132016 ER25
241132020 ER32

**Combination toolholder, back set, left hand, LF=100**

Ø 32 48-71438
241132016 ER25
241132020 ER32

**Combination toolholder, back set, left hand, Trifix®, LF=100**

Ø 32 48-97531
241132016 ER25
241132020 ER32
Ø 1 1/4" 48-74548
48-97536



Static Toolholders - Standard Program

**Combination toolholder, back set, right hand, LF=100**

Ø 32 48-71436
 241132016 ER25
 241132020 ER32

Ø 1 1/4" 48-74544

**Combination toolholder, back set, right hand, Trifix®, LF=100**

Ø 32 48-97553
 241132016 ER25
 241132020 ER32

Ø 1 1/4" 48-97555

**Combination toolholder, both sides, LF=100**

Ø 32 48-88781

**Combination toolholder, both sides, Trifix®, LF=100**

Ø 32 48-97496

**Collet face drill holder, LF=100**

ER 32 48-82824 IC 80 bar
 107532000

**Collet face drill holder, Trifix®, LF=100**

ER 32 48-100198 IC 80 bar
 107532000

**Collet face drill holder, both sides, LF=100**

ER 32 48-82847 IC 80 bar
 107532000

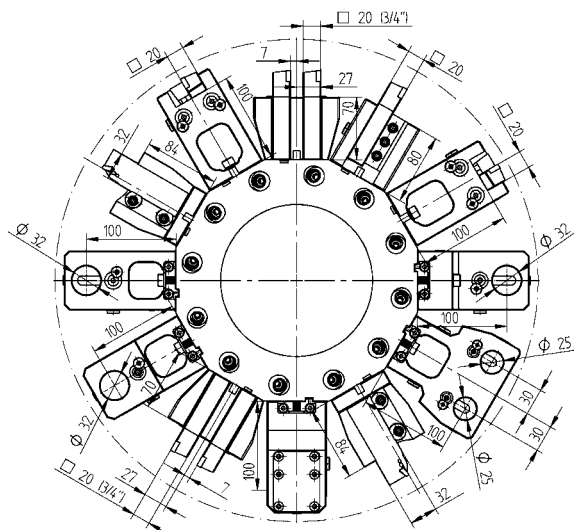
Static Toolholders - Standard Program

**Collet face drill holder, both sides, Trifix®, LF=100**

ER 32 48-100199 IC 80 bar
 107532000

**Plug, steel, Form Z2**

Steel 48-Z2-30-S



Static Toolholders - Enhanced Program



OD cutting holder, HP-IC - double VDI serration

20 48-105977-HP IC 80 bar



OD cutting holder, double, Y axis - double VDI serration

20 (3/4") 48-84593



OD cutting holder, both sides, double, Y axis

20 (3/4") 48-77395
442750W



OD cutting holder, both sides, HP-IC

20 48-71216-HP IC 80 bar



Cut-off holder, adjustable - double VDI serration

SH 26 48-98991
R4Z451W
SH 32 48-99017
R9Z450



Cut-off holder, adjustable, HP-IC - double VDI serration

SH 26 48-102630R IC 80 bar
SH 26 48-102630L IC 80 bar
SH 32 48-102632R IC 80 bar
SH 32 48-102632L IC 80 bar



Combination toolholder, universal, Trifix®, LF=100 - BMT

Ø 40 48-99669
241140020 ER32
241140026 ER40

Static Toolholders - Enhanced Program



Boring bar holder, with slot, LF=100

Ø 32 48-87088



Boring bar holder, with slot, Trifix®, LF=100

Ø 32 48-97588



Boring bar holder, with slot, Trifix®, LF=100 - BMT

Ø 40 48-96994



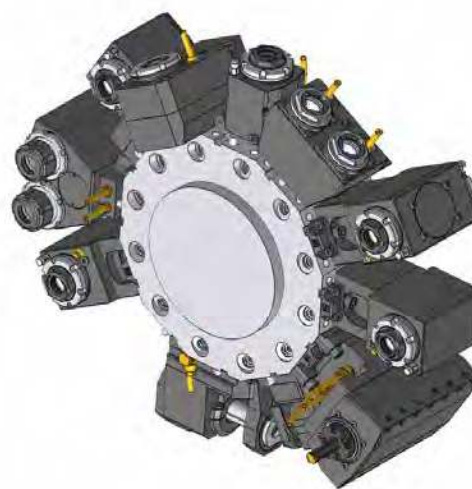
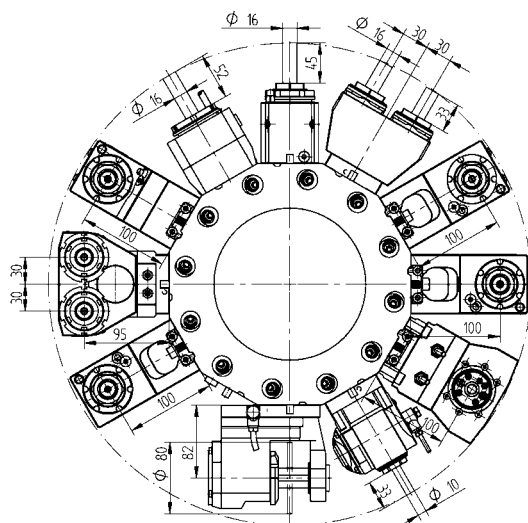
Combination toolholder, universal, double, Y axis, LF=100

Ø 25 48-79026
241125016 ER25



Combination toolholder, universal, double, Y axis, Trifix®, LF=100

Ø 25 48-99635
241125016 ER25



Driven Toolholders - QuickFlex®

**Straight drill/milling unit (6000 RPM)**

ER-25 QF 420125010-30L 1:1 EC
440441W
0067725010

ER-25 QF 420125019-30L 1:1 IC 80 bar
0067725010

**Straight drill/milling unit (12000 RPM)**

ER-25 QF 420125014-30L 1:1 EC
0067725010

ER-25 QF 420125015-30L 1:1 IC 80 bar
0067725010

**Right angle drill/milling unit, Trifix®, (6000 RPM)**

ER-25 QF 420525055-30L 1:1 EC
0067725010

ER-25 QF 420525056-30L 1:1 IC 80 bar
0067725010

**Right angle drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525057-30L 1:1 EC
0067725010

ER-25 QF 420525058-30L 1:1 IC 80 bar
0067725010

**Right angle drill/milling unit, Trifix®, (6000 RPM)**

ER-25 QF 420525055-30R 1:1 EC
0067725010

ER-25 QF 420525056-30R 1:1 IC 80 bar
0067725010

Driven Toolholders - QuickFlex®

**Right angle drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525057-30R 1:1 EC
0067725010

ER-25 QF 420525058-30R 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (6000 RPM)**

ER-25 QF 420525089-30L 1:1 EC
0067725010

ER-25 QF 420525090-30L 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525060-30L 1:1 EC
0067725010

ER-25 QF 420525061-30L 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (6000 RPM)**

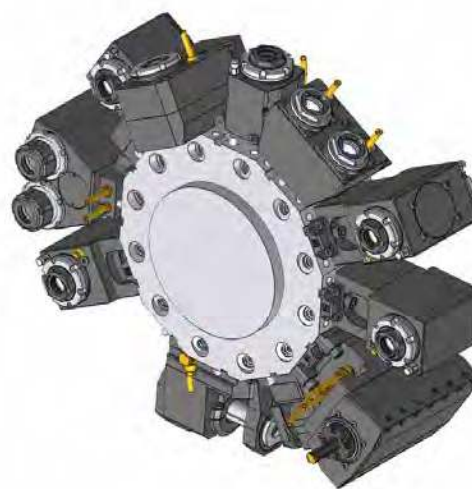
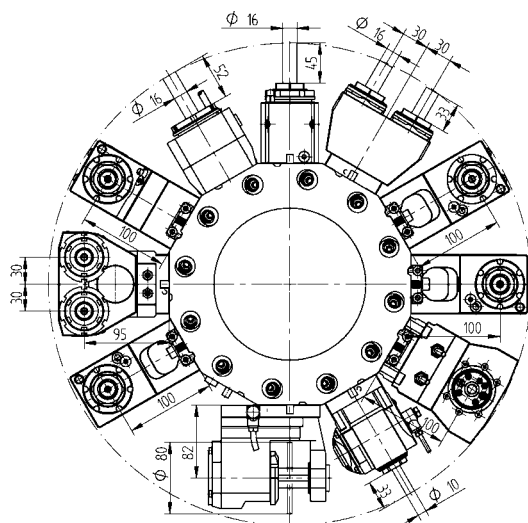
ER-25 QF 420525089-30R 1:1 EC
0067725010

ER-25 QF 420525090-30R 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525060-30R 1:1 EC
0067725010

ER-25 QF 420525061-30R 1:1 IC 80 bar
0067725010



Driven Toolholders - QuickFlex®



**Right angle drill/milling unit, both sides,
Trifix®, (6000 RPM)**

ER-25 QF 420525086-30 1:1 EC
0067725010



**Right angle drill/milling unit, both sides,
Trifix®, (12000 RPM)**

ER-25 QF 420525095-30 1:1 EC
0067725010

Driven Toolholders - Enhanced Program



Straight drill/milling unit - BMT

ER-32 QF 420132010-30 1:1 EC
0067732000

ER-32 QF 420132011-30 1:1 IC 80 bar
0067732000



Straight milling unit

Ø 16 410216014-30 1:1 EC
00675000854



Straight offset drill/milling unit

ER 25 410116058-30 1:1 EC
00675000801

ER 25 410116057-30 1:1 IC 80 bar
00675000801

ER 20 410113010-30 1:2 EC
00675000591

ER 20 410113009-30 1:2 IC 80 bar
00675000591

ER 25 410116059-30 2:1 EC
00675000801

ER 25 410116060-30 2:1 IC 80 bar
00675000801

ER 32 410120027-30 2:1 EC
00675000592

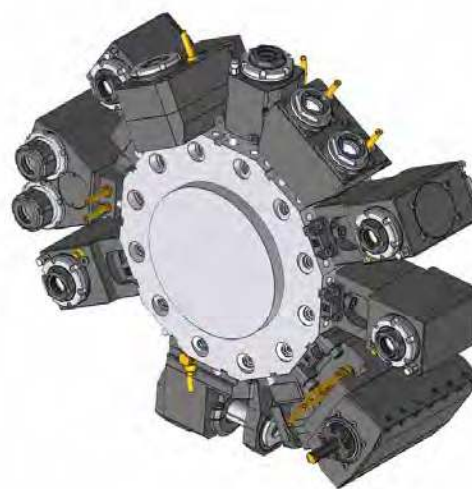
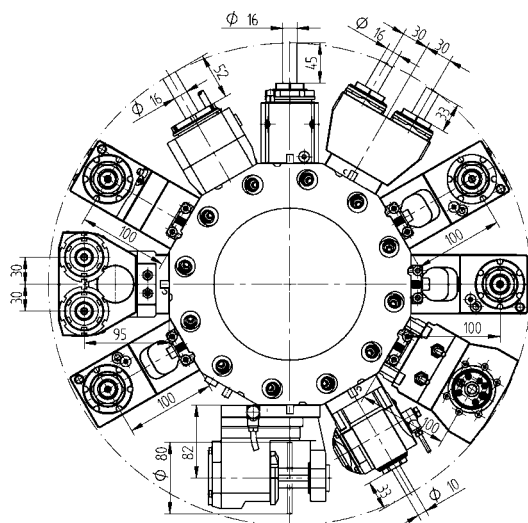
ER 32 410120032-30 2:1 IC 80 bar
00675000592



**Straight offset drill/milling unit - double VDI
serration**

ER 16 410410002-30 1:3 EC
00675000937

ER 16 410410001-30 1:3 IC 80 bar
00675000937



Driven Toolholders - Enhanced Program

**Right angle drill/milling unit**

ER-20 QF	420520013-30	1:2	EC
	0067720000		
ER-20 QF	420520014-30	1:2	IC 80 bar
	0067720000		
ER 16	410810012-30	1:3	EC
	00675000841		
ER 16	410810013-30	1:3	IC 80 bar
	00675000841		
ER-25 QF	420525096-30	2:1	EC
	0067725010		
ER-25 QF	420525097-30	2:1	IC 80 bar
	0067725010		

**Right angle drill/milling unit, Trifix®**

ER-20 QF	420520015-30L	1:2	EC
	0067720000		
ER-20 QF	420520016-30L	1:2	IC 80 bar
	0067720000		

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

ER 32	410520013-30	2:1	EC
	00675000592		
ER 32	410520014-30	2:1	IC 80 bar
	00675000592		

**Adjustable angle drill/milling unit**

ER 16	411010015-30	1:1	EC
	00675000902		
ER 16	411010016-30	1:1	IC 80 bar
	00675000902		
ER 11	411007018-30	1:2	EC
	00675000914		
ER 11	411007019-30	1:2	IC 80 bar
	00675000914		

Driven Toolholders - Enhanced Program

**Slitting saw unit**

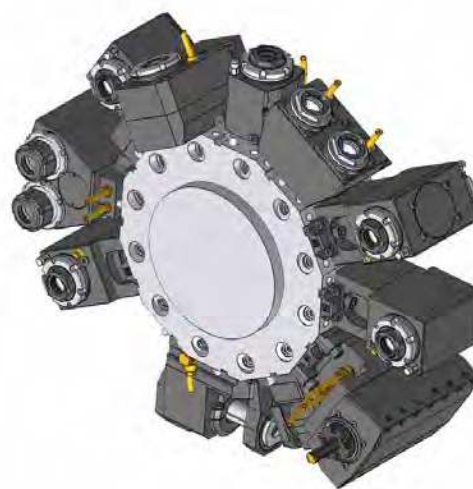
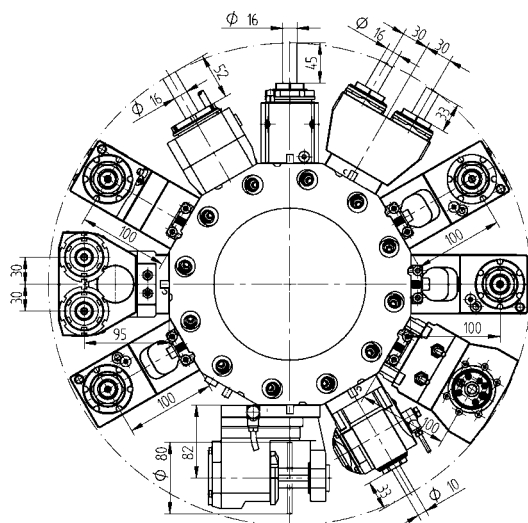
Type 14-2	410900015-30	2.62:1	EC
	00675000460		
	160016142 Ø 16		
	160022142 Ø 22		
	160027142 Ø 27		
	160015142 Ø 5/8"		
	160019142 Ø 3/4"		
	160023142 Ø 7/8"		
	160025142 Ø 1"		

**Gear hobbing unit, Trifix®**

Type 15-2	410900025-30	1:1	EC
	00675001015		
	160008152 Ø 8		
	160010152 Ø 10		
	160013152 Ø 13		
	160016152 Ø 16		
	160022152 Ø 22		
	160015152 Ø 5/8"		
	160019152 Ø 3/4"		
	96394		

**Drill/milling unit - double, Y axis**

ER 25	413002008-30	1:1.5	EC
	00675000930		
ER 25	413002009-30	1:1.5	IC 80 bar
	00675000930		



Driven Toolholders - Enhanced Program



2-spindle - Face drill/milling unit, Y axis

ER 25 413502000-30 1:1 EC
00675000915

ER 25 413502004-30 1:1 IC 80 bar
00675000915



2-spindle - Face drill/milling unit, both sides, Y axis

ER 25 413502009-30 1:1 EC
00675000915



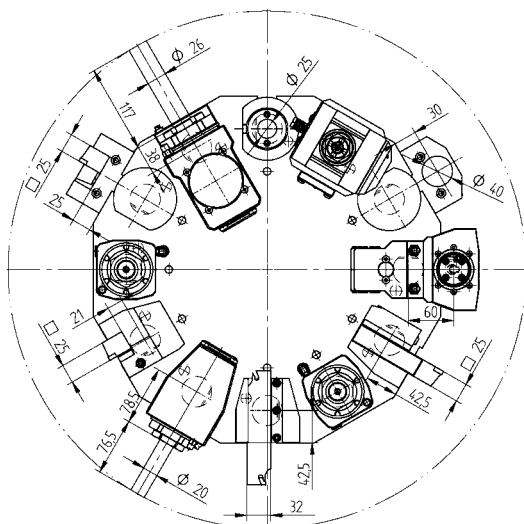
Broaching unit for ID and OD, Trifix® - BMT

TN765050 414532001-30L 1:1 EC



Broaching unit for ID and OD, Trifix® - BMT

TN765050 414532001-30R 1:1 EC



Static Toolholders - Standard Program

Static Toolholders - Standard Program

**Face cutting holder**

25 48-PU2-25-25

**Combination toolholder**

Ø 20	48-PU1-25-20	IC 80 bar
Ø 25	48-PU1-25-25	IC 80 bar
Ø 32	48-PU1-25-32	IC 80 bar
Ø 40	48-PU1-25-40	IC 80 bar
Ø 50	48-PU1-25-50	IC 80 bar

**VDI adapter, right**

VDI 40 48-99856

**Radial square toolholder, right hand, short, Form B1**

25 48-B1-40x25

**Radial square toolholder, right hand inverted, short, Form B3**

25 48-B3-40x25

**Radial square toolholder, right hand, long, Form B5**

25	48-B5-40x25
1"	48-B5-40x100

**Radial square toolholder, right hand inverted, long, Form B7**

25	48-B7-40x25
1"	48-B7-40x100

**Radial square toolholder, HP-IC - double VDI serration**

25	48-105989R-HP	IC 80 bar
	343-810100R71	
25	48-102790L-HP	IC 80 bar

**Axial square toolholder, right hand, Form C1**

25 48-C1-40x25

**Axial square toolholder, right hand inverted, Form C3**

25 48-C3-40x25

**Cut-off holder, adjustable height, right hand**

SH 26	48-AR-40x26
SH 32	48-AR-40x32

**Cut-off holder, adjustable height, right hand inverted**

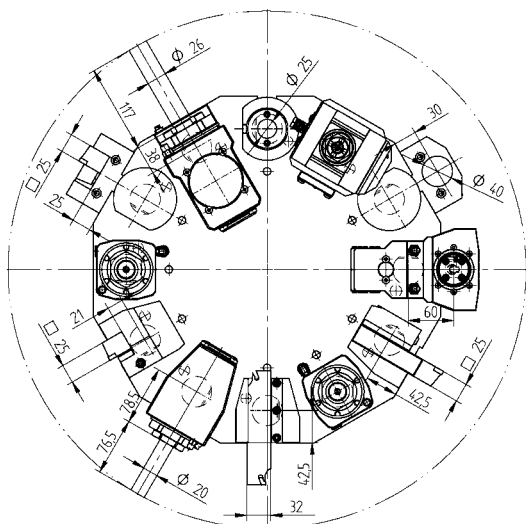
SH 26	48-ARU-40x26
SH 32	48-ARU-40x32

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

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

**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



Static Toolholders - Standard Program

**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
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Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-32 QF	420132077-40R	1:1	EC
	442145W, T32595		
	0067732000		

ER-32 QF	420132078-40R	1:1	IC 80 bar
	0067732000		

**Right angle drill/milling unit**

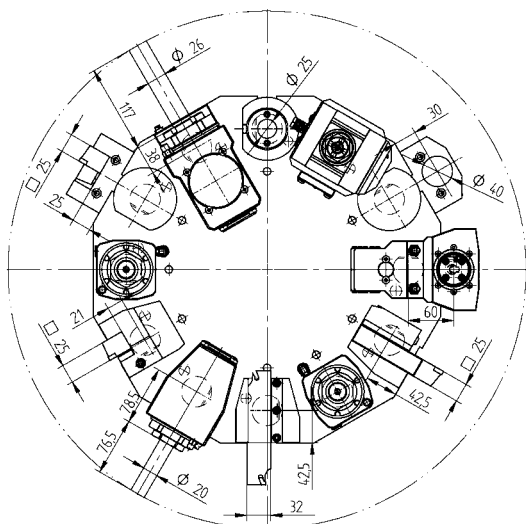
ER-32 QF	420532042-40R	1:1	EC
	442275W		
	0067732000		

ER-32 QF	420532043-40R	1:1	IC 80 bar
	0067732000		

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

ER-32 QF	420532037-40R	1:1	EC
	0067732000		

ER-32 QF	420532038-40R	1:1	IC 80 bar
	0067732000		



Driven Toolholders - Enhanced Program

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

Ø 22 410222023-40 1:1 EC
00675000479

**Straight offset drill/milling unit**

ER-32 QF 420132054-40R 1:1 EC
0067732000

ER-32 QF 420132055-40R 1:1 IC 80 bar
0067732000

ER-25 QF 420125024-40R 1:2 EC
0067725001

ER-25 QF 420125025-40R 1:2 IC 80 bar
0067725001

ER-32 QF 420132056-40R 2:1 EC
0067732000

ER-32 QF 420132057-40R 2:1 IC 80 bar
0067732000

**Straight offset drill/milling unit - double VDI serration**

ER 16 410410001-40 1:3 EC
00675000937

ER 16 410410002-40 1:3 IC 80 bar
00675000937

**Right angle drill/milling unit**

ER-25 QF 420525058-40 1:2 EC
0067725001

ER-25 QF 420525059-40 1:2 IC 80 bar
0067725001

Driven Toolholders - Enhanced Program

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

ER-40 QF 420540027-40R 2:1 EC
0067740000

ER-40 QF 420540028-40R 2:1 IC 80 bar
0067740000

**Adjustable angle drill/milling unit**

ER 20 411013019-40 1:1 EC
00675000928

ER 20 411013026-40 1:1 IC 80 bar
00675000928

ER 25 411016006-40 1:1 EC
00675000934

ER 25 411016024-40 1:1 IC 80 bar
00675000934

ER 16 411010012-40 1:2 EC
00675000936

ER 16 411010013-40 1:2 IC 80 bar
00675000936

**Offset slitting saw unit**

Type 14-2 411500009-40 2.73:1 EC
00675000460

160016142 Ø 16

160022142 Ø 22

160027142 Ø 27

160015142 Ø 5/8"

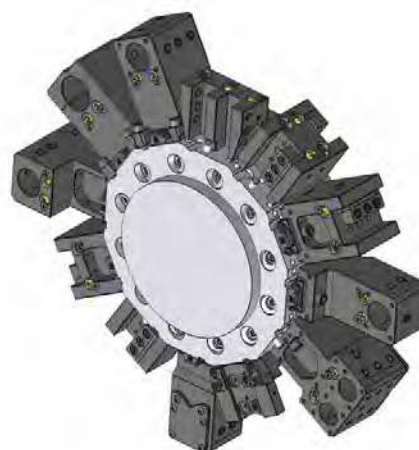
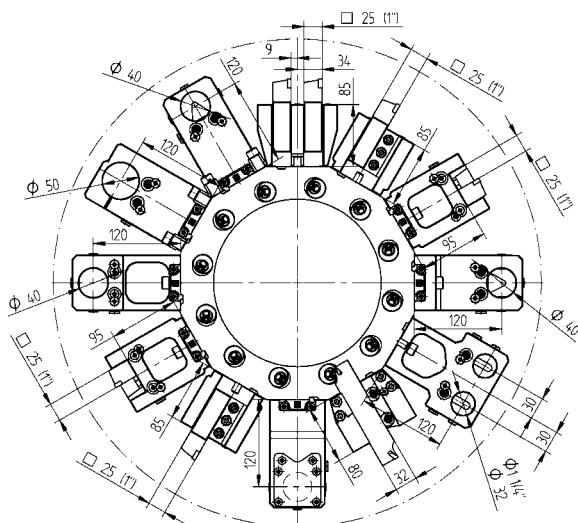
160019142 Ø 3/4"

160023142 Ø 7/8"

160025142 Ø 1"

**Broaching unit for ID and OD**

TN765050 414132002-40 1:1 EC



Static Toolholders - Standard Program



OD cutting holder - double VDI serration

25	48-85982
1"	48-86655



OD cutting holder, both sides

25 48-59098
442340



OD cutting holder, both sides, extended

1" 48-68306



Face cutting holder

25	48-87589
1"	48-87591




Face cutting holder, Trifix®

25	48-96528
1"	48-96974





Combination toolholder, universal, LF=120

Ø 40	48-64021
	 241140020 ER32
Ø 1 1/2"	48-64020




Combination toolholder, universal, Trifix®, LF=120

Ø 40 48-96530
T12138
 241140020 ER32
 241140026 ER40





**Combination toolholder, back set - double
VDI serration, LF=120**

Ø 40	48-110591
	 241140020 ER32
Ø 1 1/2"	48-78916





**Combination toolholder, back set, left hand,
Trifix®, LF=120**

Ø 40 48-97043
 241140020 ER32
 241140026 ER40



**Combination toolholder, back set, right hand,
Trifix®, LF=120**

Ø 40 48-97044
 241140020 ER32
 241140026 ER40



Combination toolholder, both sides, LF=120

Ø 40 48-97388



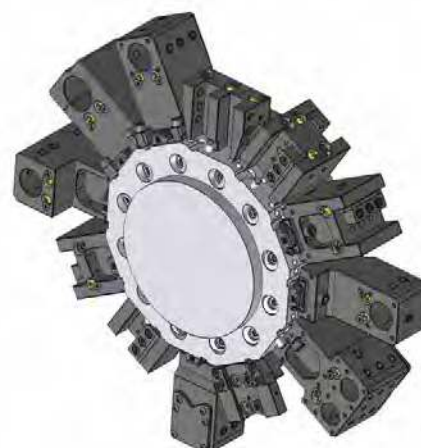
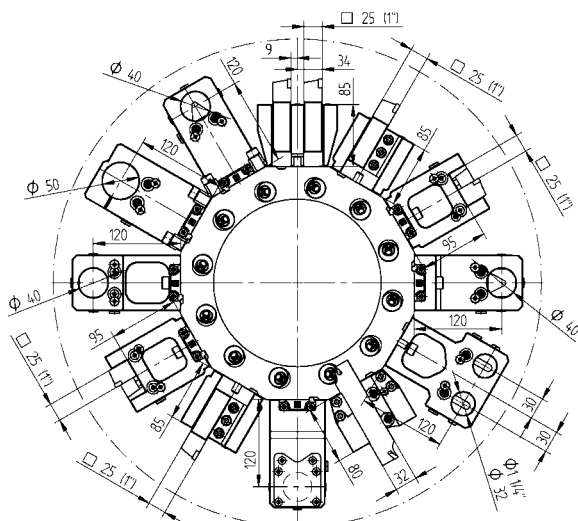
**Combination toolholder, both sides, Trifix®,
LF=120**

Ø 40 48-97036
T12139



Collet face drill holder, both sides, LF=120

ER 32	48-66629	IC 80 bar
	 107532000	
ER 40	48-97389	IC 80 bar
	 107540000	



Static Toolholders - Standard Program

**Collet face drill holder, both sides, Trifix®, LF=120****ER 32** 48-97051 IC 80 bar

107532000

ER 40 48-97052 IC 80 bar

107540000

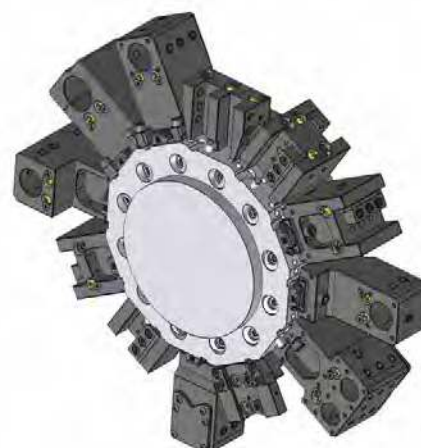
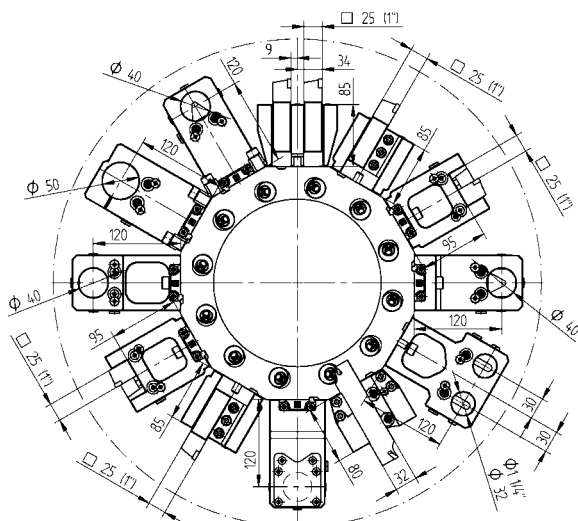
**Plug, steel, Form Z2****Steel** 48-Z2-40-S

Static Toolholders - Enhanced Program

**OD cutting holder, HP-IC - double VDI serration****25** 48-105986-HP IC 80 bar**1"** 48-110821-HP IC 80 bar**OD cutting holder, both sides, HP-IC****25** 48-59098-HP**1"** 48-110817-HP**OD cutting holder, double, Y axis - double VDI serration****25(1")** 48-86080**OD cutting holder, both sides, double, Y axis****25(1")** 48-89779**Cut-off holder, adjustable - double VDI serration****SH 32** 48-98963
R9Z455, T00460,
T00461**Cut-off holder, adjustable, HP-IC - double VDI serration****SH 32** 48-102643R IC 80 bar**SH 32** 48-102643L IC 80 bar**Cut-off holder, adjustable, long, HP-IC - double VDI serration****SH 32** 48-99091R IC 80 bar
343-810100R8**SH 32** 48-99091L IC 80 bar
343-810100L8**Combination toolholder, back set, left hand, Trifix®, LF=120 - BMT****Ø 40** 48-111059

241140020 ER32



241140026 ER40



Static Toolholders - Enhanced Program





**Combination toolholder, universal, Trifix®,
LF=120 - BMT**

Ø 40 48-97097
 241140020 ER32
 241140026 ER40



**Combination toolholder, back set, right hand,
Trifix®, LF=120 - BMT**

Ø 40 48-97164
 241140020 ER32
 241140026 ER40



**Combination toolholder, both sides, Trifix®,
LF=120 - BMT**

Ø 40 48-97105



Boring bar holder, with slot, Trifix®, LF=120

Ø 40 48-97244




**Boring bar holder, with slot, Trifix®, LF=120
- BMT**

Ø 50 48-97257





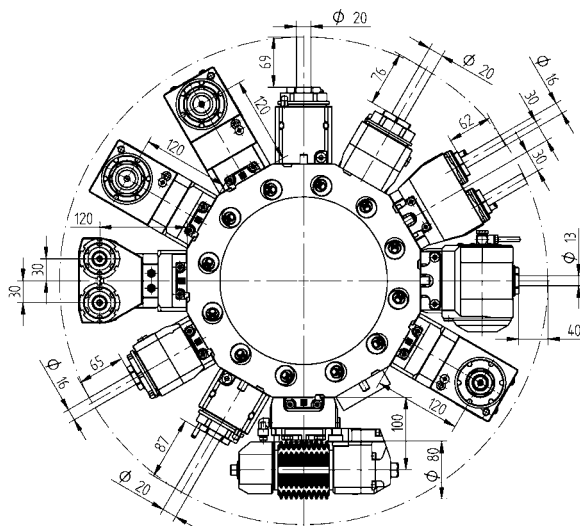
**Combination toolholder, universal, double,
Y axis, LF=120**

Ø 32 48-86296
 241132016 ER25
 241132020 ER32
 Ø 1 1/4" 48-86234



**Combination toolholder, universal, double,
Y axis, Trifix®, L=120**

Ø 32 48-96531
 241132016 ER25
 241132020 ER32



Driven Toolholders - QuickFlex®

**Straight drill/milling unit (6000 RPM)**

ER-32 QF 420132077-40L 1:1 EC
0067732000

ER-32 QF 420132078-40L 1:1 IC 80 bar
0067732000

**Straight drill/milling unit (10000 RPM)**

ER-32 QF 420132069-40L 1:1 EC
442141W
0067732000

ER-32 QF 420132070-40L 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, Trifix®, LF=120, (6000 RPM)**

ER-32 QF 420532018-40L 1:1 EC
T32591
0067732000

ER-32 QF 420532019-40L 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532026-40L 1:1 EC
T32593
0067732000

ER-32 QF 420532027-40L 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, Trifix®, LF=120, (6000 RPM)**

ER-32 QF 420532018-40R 1:1 EC
T32592
0067732000

ER-32 QF 420532019-40R 1:1 IC 80 bar
0067732000

Driven Toolholders - QuickFlex®

**Right angle drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532026-40R 1:1 EC
T32594
0067732000

ER-32 QF 420532027-40R 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (6000 RPM)**

ER-32 QF 420532034-40L 1:1 EC
0067732000

ER-32 QF 420532035-40L 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532064-40L 1:1 EC
0067732000

ER-32 QF 420532065-40L 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (6000 RPM)**

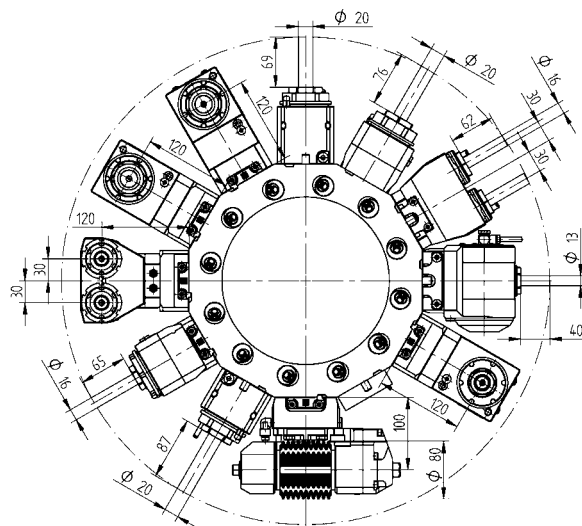
ER-32 QF 420532034-40R 1:1 EC
0067732000

ER-32 QF 420532035-40R 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532064-40R 1:1 EC
0067732000



ER-32 QF 420532065-40R 1:1 IC 80 bar
0067732000



Driven Toolholders - Enhanced Program







Straight offset drill/milling unit, Trifix®

ER-25 QF	420125039-40L  0067725001	1:2	EC
ER-25 QF	420125038-40L  0067725001	1:2	IC 80 bar



**Right angle drill/milling unit, Trifix®, LF=100
- BMT**

ER-32 QF	420532028-40L	1:1	EC
	 0067732000		
ER-32 QF	420532029-40L	1:1	IC 80 bar
	 0067732000		
ER-40 QF	420540010-40L	2:1	EC
	 0067740000		
ER-40 QF	420540011-40L	2:1	IC 80 bar
	 0067740000		



**Right angle drill/milling unit, Trifix®, LF=100
- BMT**

ER-32 QF	420532028-40R	1:1	EC
	 0067732000		
ER-32 QF	420532029-40R	1:1	IC 80 bar
	 0067732000		
ER-40 QF	420540010-40R	2:1	EC
	 0067740000		
ER-40 QF	420540011-40R	2:1	IC 80 bar
	 0067740000		

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, Trifix®, LF=120
- BMT**

ER-32 QF	420532030-40L 0067732000	1:1	EC
ER-32 QF	420532031-40L 0067732000	1:1	IC 80 bar
ER-40 QF	420540014-40L 0067740000	1:1	EC
ER-40 QF	420540015-40L 0067740000	1:1	IC 80 bar



**Right angle drill/milling unit, Trifix®, LF=120
- BMT**

ER-32 QF	420532030-40R 0067732000	1:1	EC
ER-32 QF	420532031-40R 0067732000	1:1	IC 80 bar
ER-40 QF	420540014-40R 0067740000	1:1	EC
ER-40 QF	420540015-40R 0067740000	1:1	IC 80 bar



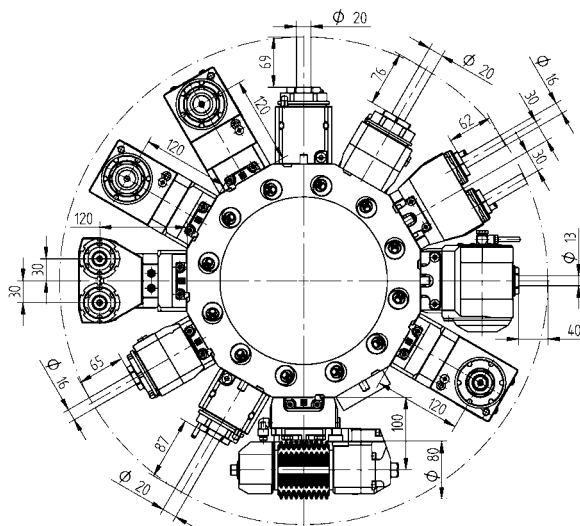
Right angle drill/milling unit, Trifix®, LF=120

ER-25 QF	420525019-40L 0067725000	1:2	EC
ER-25 QF	420525020-40L 0067725000	1:2	IC 80 bar



Right angle drill/milling unit, Trifix®, LF=120

ER-25 QF	420525019-40R 0067725000	1:2	EC
ER-25 QF	420525020-40R 0067725000	1:2	IC 80 bar



Driven Toolholders - Enhanced Program





**Right angle drill/milling unit, both sides,
Trifix®, LF=120 - BMT**

ER-40 QF 420540016-40 1:1 EC
0067740000





**Right angle milling unit with combination mill
arbor DIN 6358, double VDI serration, LF=100**

Ø 22	410622028-40	2:1	EC
	 00675000160		
Ø 27	410627015-40	2:1	EC
	 00675000211		





**Right angle milling unit with combination mill
arbor DIN 6358, Trifix®, LF=100 - BMT**

Ø 22	410622031-40L	2:1	EC
	 00675000160		
Ø 27	410627016-40L	2:1	EC
	 00675000211		







**Right angle milling unit with combination mill
arbor DIN 6358, Trifix®, LF=100 - BMT**

Ø 22	410622031-40R	2:1	EC
	 00675000160		
Ø 27	410627016-40R	2:1	EC
	 00675000211		



Adjustable angle drill/milling unit

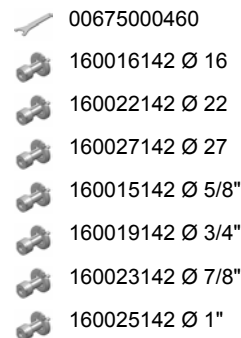
ER 20	411013018-40  00675000928	1:1	EC
ER 20	411013029-40  00675000928	1:1	IC 80 bar
ER 16	411010030-40  00675000936	1:2	EC
ER 16	411010031-40  00675000936	1:2	IC 80 bar

Driven Toolholders - Enhanced Program



Slitting saw unit

Type 14-2 410900013-40 2.62:1 EC
00675000460

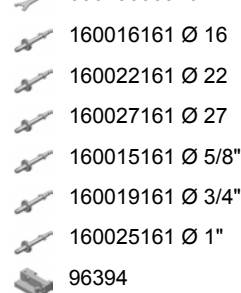


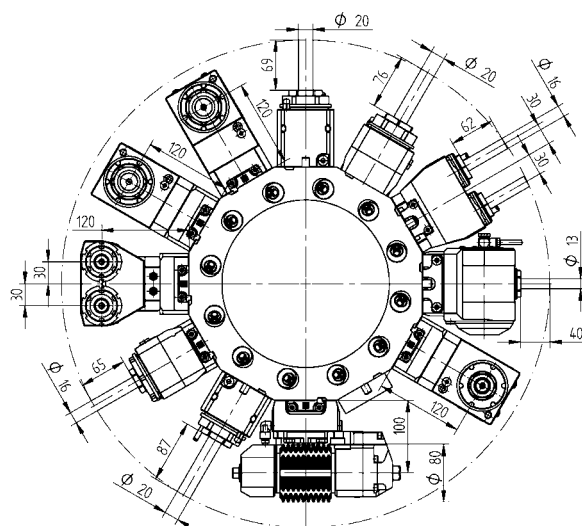
Gear hobbing unit, Trifix®

Type 16-1 411500041-40L 1:1 EC
00675000926



Type 16-1 411500037-40L 2:1 EC
00675000926





Driven Toolholders - Enhanced Program



Drill/milling unit - double, Y axis

ER 25 413002034-40 1:1.5 EC
00675000930

ER 25 413002035-40 1:1.5 IC 80 bar
00675000930



**2-spindle - Face drill/milling unit, Y axis,
LF=120, Trifix®**

ER 25 413502024-40L 1:1 EC
00675000915

ER 25 413502025-40L 1:1 IC 80 bar
00675000915



**2-spindle - Face drill/milling unit, Y axis,
LF=120, Trifix®**

ER 25 413502024-40R 1:1 EC
00675000915

ER 25 413502025-40R 1:1 IC 80 bar
00675000915



**2-spindle - Face drill/milling unit, both sides,
Y axis, LF=120, Trifix®**

ER 25 413502026-40 1:1 EC
00675000915



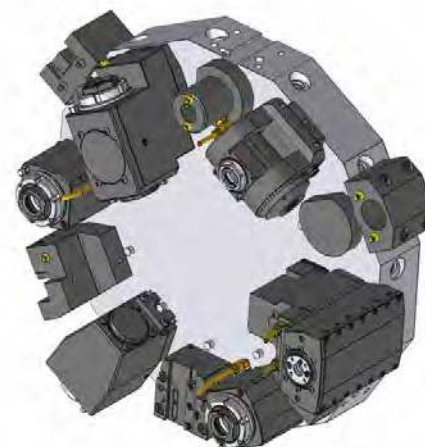
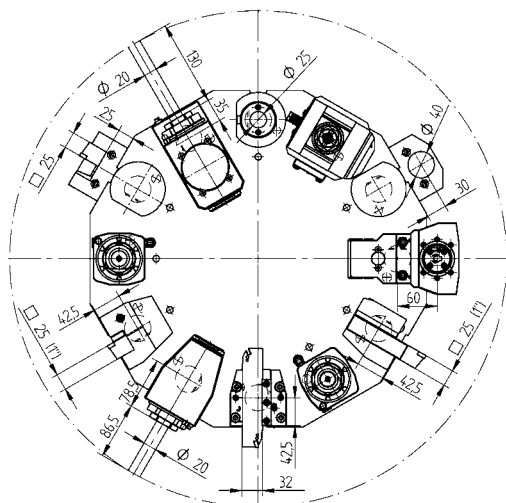
**Broaching unit for ID and OD, Trifix®, LF=100
- BMT**

TN765050 414532007-40L 1:1 EC



**Broaching unit for ID and OD, Trifix®, LF=100
- BMT**

TN765050 414532007-40R 1:1 EC



Static Toolholders - Standard Program



Face cutting holder
25 48-PU2-25-25



Combination toolholder
 Ø 20 48-PU1-25-20 IC 80 bar
 Ø 25 48-PU1-25-25 IC 80 bar
 Ø 32 48-PU1-25-32 IC 80 bar
 Ø 40 48-PU1-25-40 IC 80 bar
 Ø 50 48-PU1-25-50 IC 80 bar



VDI adapter, right
VDI 40 48-99856



Radial square toolholder, right hand, short, Form B1
25 48-B1-40x25



Radial square toolholder, right hand inverted, short, Form B3
25 48-B3-40x25



Radial square toolholder, right hand, long, Form B5
 25 48-B5-40x25
 1" 48-B5-40x100



Radial square toolholder, right hand inverted, long, Form B7
 25 48-B7-40x25
 1" 48-B7-40x100



Radial square toolholder, HP-IC - double VDI serration
 25 48-105989R-HP IC 80 bar
 343-810100R71
 25 48-102790L-HP IC 80 bar

Static Toolholders - Standard Program



Axial square toolholder, right hand, Form C1
25 48-C1-40x25



Axial square toolholder, right hand inverted, Form C3
25 48-C3-40x25



Cut-off holder, adjustable height, right hand
 SH 26 48-AR-40x26
 SH 32 48-AR-40x32



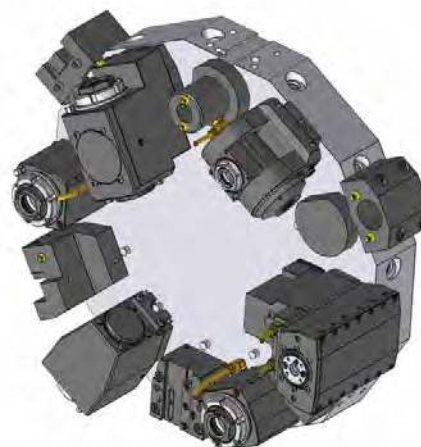
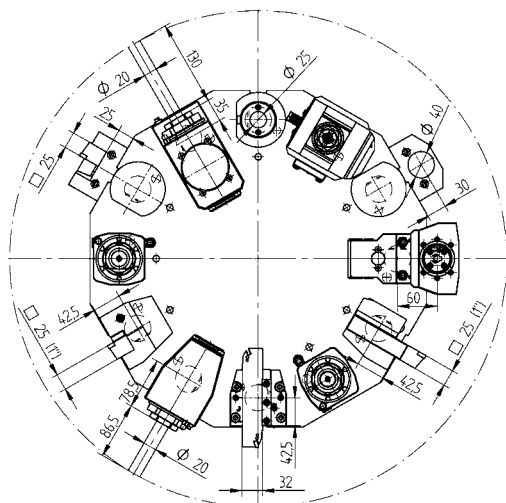
Cut-off holder, adjustable height, right hand inverted
 SH 26 48-ARU-40x26
 SH 32 48-ARU-40x32



Cut-off holder, adjustable height, HP-IC
 SH 32 48-102690R IC 80 bar
 SH 32 48-102690L IC 80 bar



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



Static Toolholders - Standard Program

**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
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Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-32 QF	420132077-40R	1:1	EC
	442145W, T32595		
	0067732000		

ER-32 QF	420132078-40R	1:1	IC 80 bar
	0067732000		

**Right angle drill/milling unit**

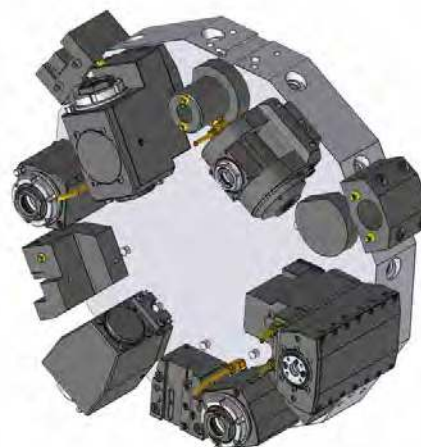
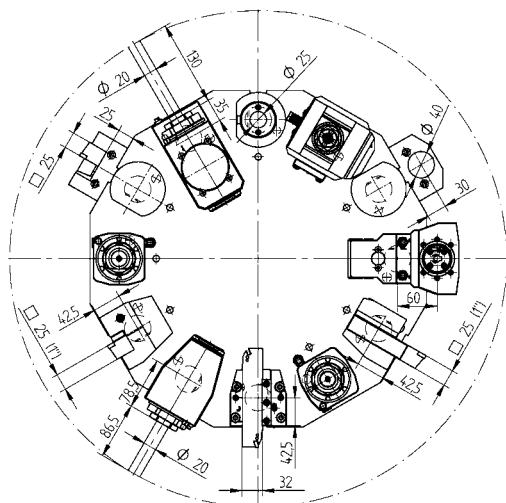
ER-32 QF	420532042-40R	1:1	EC
	442275W		
	0067732000		

ER-32 QF	420532043-40R	1:1	IC 80 bar
	0067732000		

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

ER-32 QF	420532037-40R	1:1	EC
	0067732000		

ER-32 QF	420532038-40R	1:1	IC 80 bar
	0067732000		



Driven Toolholders - Enhanced Program

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

Ø 22 410222023-40 1:1 EC
00675000479

**Straight offset drill/milling unit**

ER-32 QF 420132054-40R 1:1 EC
0067732000

ER-32 QF 420132055-40R 1:1 IC 80 bar
0067732000

ER-25 QF 420125024-40R 1:2 EC
0067725001

ER-25 QF 420125025-40R 1:2 IC 80 bar
0067725001

ER-32 QF 420132056-40R 2:1 EC
0067732000

ER-32 QF 420132057-40R 2:1 IC 80 bar
0067732000

**Straight offset drill/milling unit - double VDI serration**

ER 16 410410001-40 1:3 EC
00675000937

ER 16 410410002-40 1:3 IC 80 bar
00675000937

**Right angle drill/milling unit**

ER-25 QF 420525058-40 1:2 EC
0067725001

ER-25 QF 420525059-40 1:2 IC 80 bar
0067725001

Driven Toolholders - Enhanced Program

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

ER-40 QF 420540027-40R 2:1 EC
0067740000

ER-40 QF 420540028-40R 2:1 IC 80 bar
0067740000

**Adjustable angle drill/milling unit**

ER 20 411013019-40 1:1 EC
00675000928

ER 20 411013026-40 1:1 IC 80 bar
00675000928

ER 25 411016006-40 1:1 EC
00675000934

ER 25 411016024-40 1:1 IC 80 bar
00675000934

ER 16 411010012-40 1:2 EC
00675000936

ER 16 411010013-40 1:2 IC 80 bar
00675000936

**Offset slitting saw unit**

Type 14-2 411500009-40 2.73:1 EC
00675000460

160016142 Ø 16

160022142 Ø 22

160027142 Ø 27

160015142 Ø 5/8"

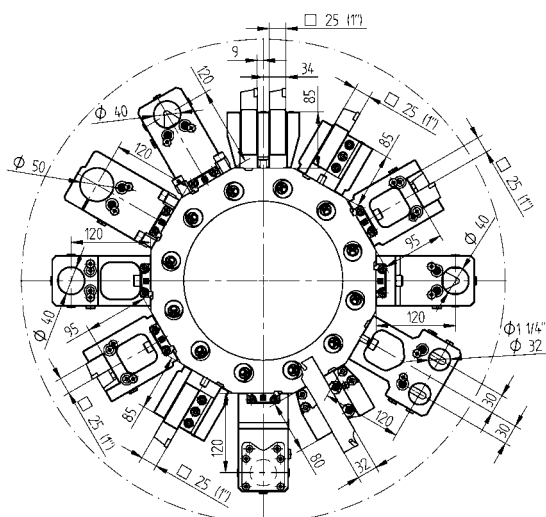
160019142 Ø 3/4"

160023142 Ø 7/8"

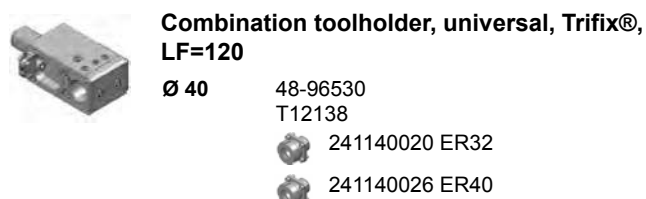
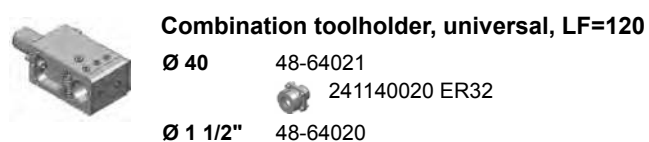
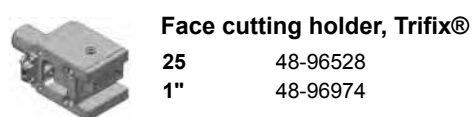
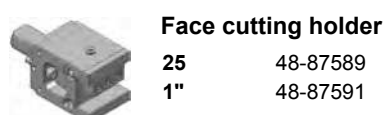
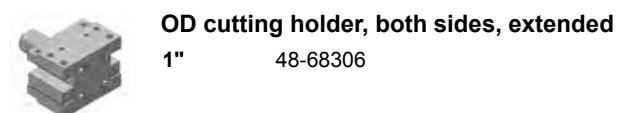
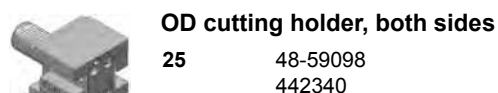
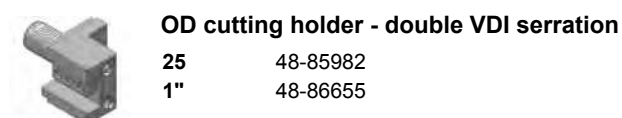
160025142 Ø 1"

**Broaching unit for ID and OD**

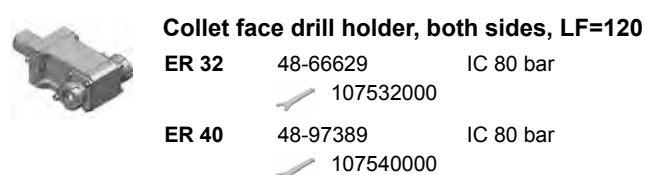
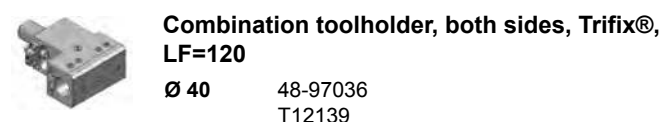
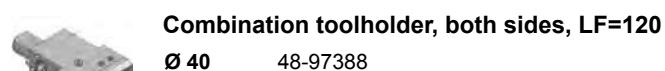
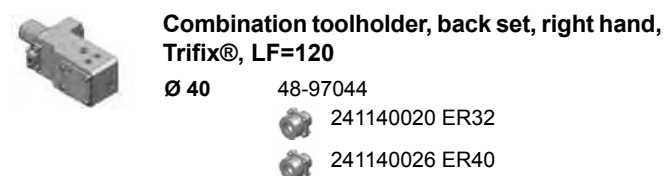
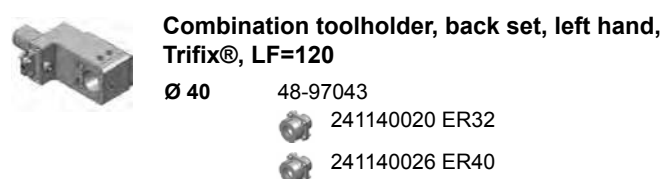
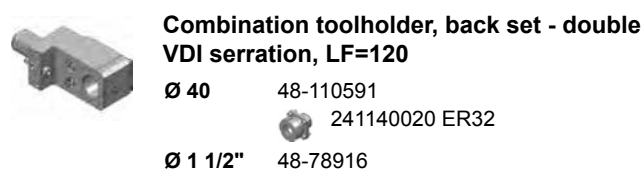
TN765050 414132002-40 1:1 EC

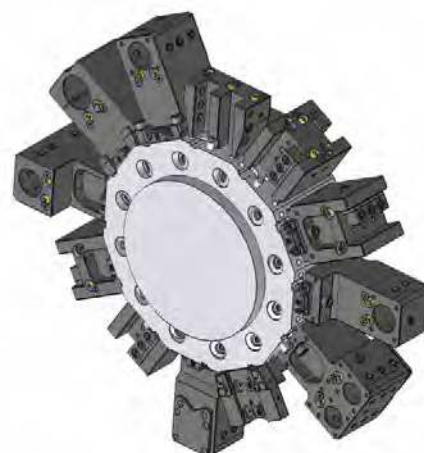
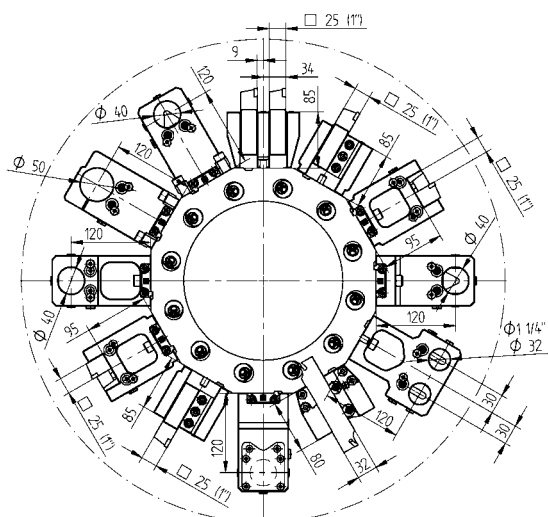


Static Toolholders - Standard Program



Static Toolholders - Standard Program





Static Toolholders - Standard Program



**Collet face drill holder, both sides, Trifix®,
LF=120**

ER 32 48-97051 IC 80 bar

107532000

ER 40 48-97052 IC 80 bar

107540000



Plug, steel, Form Z2

Steel 48-Z2-40-S

Static Toolholders - Enhanced Program



OD cutting holder, HP-IC - double VDI serration

25 48-105986-HP IC 80 bar

1" 48-110821-HP IC 80 bar



OD cutting holder, both sides, HP-IC

25 48-59098-HP

1" 48-110817-HP



**OD cutting holder, double, Y axis - double
VDI serration**

25(1") 48-86080



OD cutting holder, both sides, double, Y axis
25(1") 48-89779

25(1") 48-89779



Cut-off holder, adjustable - double VDI serration

SH 32 48-98963
R9Z455, T00460,
T00461



Cut-off holder, adjustable, HP-IC - double VDI serration

SH 32 48-102643R IC 80 bar

SH 32 48-102643L IC 80 bar



Cut-off holder, adjustable, long, HP-IC - double VDI serration


SH 32 48-99091R IC 80 bar
343-810100R8

SH 32 48-99091L IC 80 bar
343-810100L8

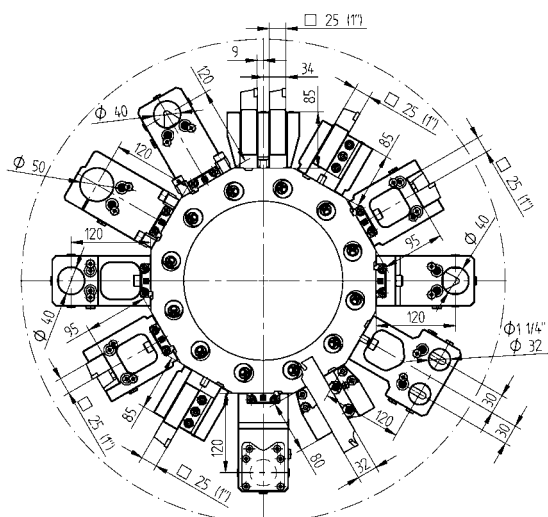


**Combination toolholder, back set, left hand,
Trifix®, LF=120 - BMT**

Ø 40 48-111059

 241140020 ER32

241140026 ER40



Static Toolholders - Enhanced Program



Combination toolholder, universal, Trifix®, LF=120 - BMT

Ø 40 48-97097
 241140020 ER32
 241140026 ER40



Combination toolholder, back set, right hand, Trifix®, LF=120 - BMT

Ø 40 48-97164
 241140020 ER32
 241140026 ER40



Combination toolholder, both sides, Trifix®, LF=120 - BMT

Ø 40 48-97105



Boring bar holder, with slot, Trifix®, LF=120

Ø 40 48-97244



Boring bar holder, with slot, Trifix®, LF=120 - BMT

Ø 50 48-97257



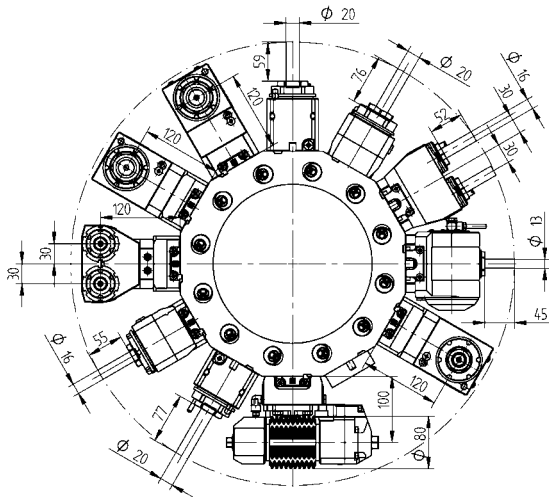
Combination toolholder, universal, double, Y axis, LF=120

Ø 32 48-86296
 241132016 ER25
 241132020 ER32
 Ø 1 1/4" 48-86234



Combination toolholder, universal, double, Y axis, Trifix®, L=120

Ø 32 48-96531
 241132016 ER25
 241132020 ER32



Driven Toolholders - QuickFlex®

**Straight drill/milling unit (6000 RPM)**

ER-32 QF 420132077-40L 1:1 EC
0067732000

ER-32 QF 420132078-40L 1:1 IC 80 bar
0067732000

**Straight drill/milling unit (10000 RPM)**

ER-32 QF 420132069-40L 1:1 EC
442141W
0067732000

ER-32 QF 420132070-40L 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, Trifix®, LF=120, (6000 RPM)**

ER-32 QF 420532018-40L 1:1 EC
T32591
0067732000

ER-32 QF 420532019-40L 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532026-40L 1:1 EC
T32593
0067732000

ER-32 QF 420532027-40L 1:1 IC 80 bar
0067732000

**Right angle drill/milling unit, Trifix®, LF=120, (6000 RPM)**

ER-32 QF 420532018-40R 1:1 EC
T32592
0067732000

ER-32 QF 420532019-40R 1:1 IC 80 bar
0067732000

Driven Toolholders - QuickFlex®

**Right angle drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532026-40R 1:1 EC
T32594
0067732000

ER-32 QF 420532027-40R 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (6000 RPM)**

ER-32 QF 420532034-40L 1:1 EC
0067732000

ER-32 QF 420532035-40L 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532064-40L 1:1 EC
0067732000

ER-32 QF 420532065-40L 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (6000 RPM)**

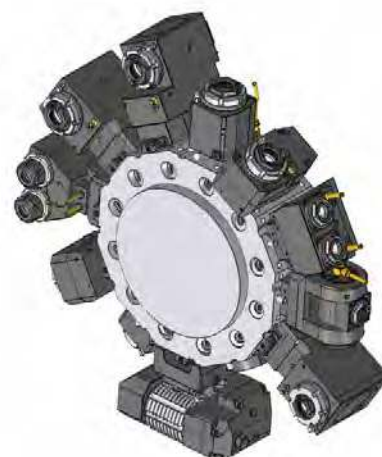
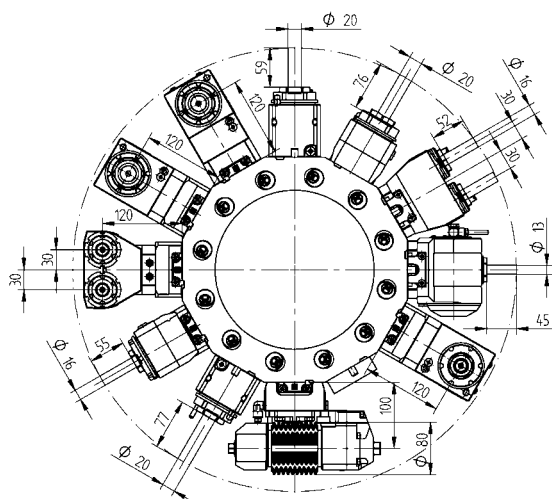
ER-32 QF 420532034-40R 1:1 EC
0067732000

ER-32 QF 420532035-40R 1:1 IC 80 bar
0067732000

**Right angle back set drill/milling unit, Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532064-40R 1:1 EC
0067732000

ER-32 QF 420532065-40R 1:1 IC 80 bar
0067732000



Driven Toolholders - QuickFlex®



**Right angle drill/milling unit, both sides,
Trifix®, LF=120, (6000 RPM)**

ER-32 QF 420532020-40 1:1 EC

T32597

0067732000



**Right angle drill/milling unit, both sides,
Trifix®, LF=120, (10000 RPM)**

ER-32 QF 420532127-40 1:1 EC

0067732000

Driven Toolholders - Enhanced Program



Straight drill/milling unit - BMT

ER-40 QF 420140010-40 1:1 EC

0067740000

ER-40 QF 420140011-40 1:1 IC 80 bar

0067740000



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

Ø 22 410222023-40 1:1 EC

00675000479



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

Ø 22 410222022-40 1:1 EC

00675000479

Ø 27 410227010-40 1:1 EC

00675000480



Straight offset drill/milling unit

ER-32 QF 420132054-40L 1:1 EC

0067732000

ER-32 QF 420132055-40L 1:1 IC 80 bar

0067732000

ER-25 QF 420125024-40L 1:2 EC

0067725001

ER-25 QF 420125025-40L 1:2 IC 80 bar

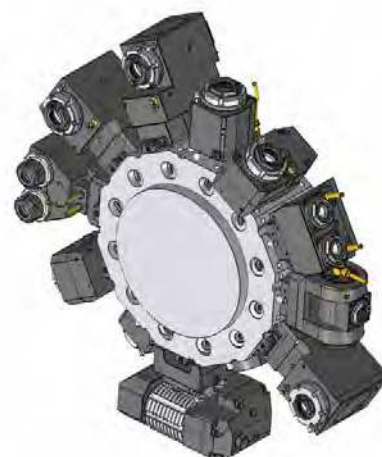
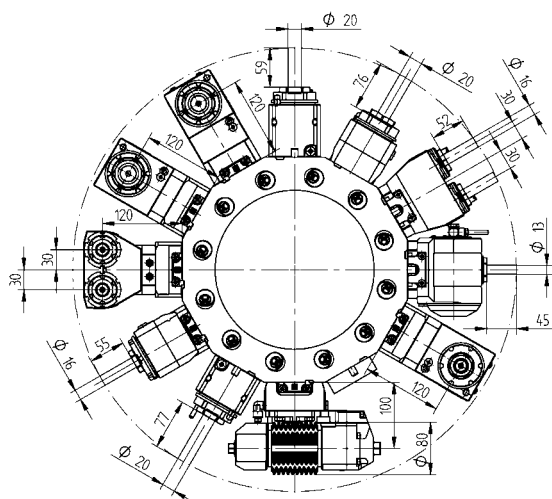
0067725001

ER-32 QF 420132056-40L 2:1 EC

0067732000

ER-32 QF 420132057-40L 2:1 IC 80 bar

0067732000



Driven Toolholders - Enhanced Program

**Straight offset drill/milling unit, Trifix®**

ER-25 QF	420125039-40L	1:2	EC
	0067725001		
ER-25 QF	420125038-40L	1:2	IC 80 bar
	0067725001		

**Right angle drill/milling unit, Trifix®, LF=100 - BMT**

ER-32 QF	420532028-40L	1:1	EC
	0067732000		
ER-32 QF	420532029-40L	1:1	IC 80 bar
	0067732000		
ER-40 QF	420540010-40L	2:1	EC
	0067740000		
ER-40 QF	420540011-40L	2:1	IC 80 bar
	0067740000		

**Right angle drill/milling unit, Trifix®, LF=100 - BMT**

ER-32 QF	420532028-40R	1:1	EC
	0067732000		
ER-32 QF	420532029-40R	1:1	IC 80 bar
	0067732000		
ER-40 QF	420540010-40R	2:1	EC
	0067740000		
ER-40 QF	420540011-40R	2:1	IC 80 bar
	0067740000		

Driven Toolholders - Enhanced Program

**Right angle drill/milling unit, Trifix®, LF=120 - BMT**

ER-32 QF	420532030-40L	1:1	EC
	0067732000		
ER-32 QF	420532031-40L	1:1	IC 80 bar
	0067732000		
ER-40 QF	420540014-40L	1:1	EC
	0067740000		
ER-40 QF	420540015-40L	1:1	IC 80 bar
	0067740000		

**Right angle drill/milling unit, Trifix®, LF=120 - BMT**

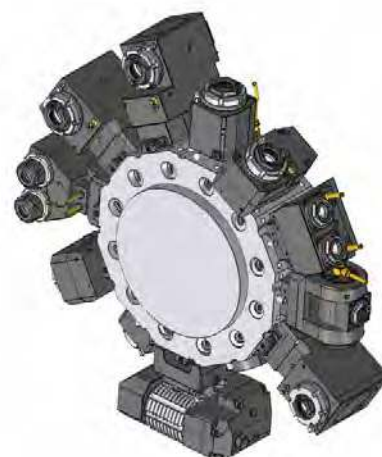
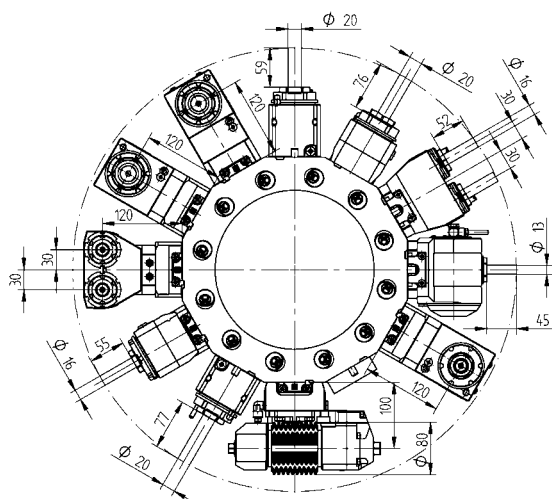
ER-32 QF	420532030-40R	1:1	EC
	0067732000		
ER-32 QF	420532031-40R	1:1	IC 80 bar
	0067732000		
ER-40 QF	420540014-40R	1:1	EC
	0067740000		
ER-40 QF	420540015-40R	1:1	IC 80 bar
	0067740000		

**Right angle drill/milling unit, Trifix®, LF=120**

ER-25 QF	420525019-40L	1:2	EC
	0067725000		
ER-25 QF	420525020-40L	1:2	IC 80 bar
	0067725000		

**Right angle drill/milling unit, Trifix®, LF=120**

ER-25 QF	420525019-40R	1:2	EC
	0067725000		
ER-25 QF	420525020-40R	1:2	IC 80 bar
	0067725000		



Driven Toolholders - Enhanced Program

**Right angle drill/milling unit, both sides, Trifix®, LF=120 - BMT**

ER-40 QF 420540016-40 1:1 EC
0067740000

**Right angle milling unit with combination mill arbor DIN 6358, double VDI serration, LF=100**

Ø 22 410622028-40 2:1 EC
00675000160
Ø 27 410627015-40 2:1 EC
00675000211

**Right angle milling unit with combination mill arbor DIN 6358, Trifix®, LF=100 - BMT**

Ø 22 410622031-40L 2:1 EC
00675000160
Ø 27 410627016-40L 2:1 EC
00675000211

**Right angle milling unit with combination mill arbor DIN 6358, Trifix®, LF=100 - BMT**

Ø 22 410622031-40R 2:1 EC
00675000160
Ø 27 410627016-40R 2:1 EC
00675000211

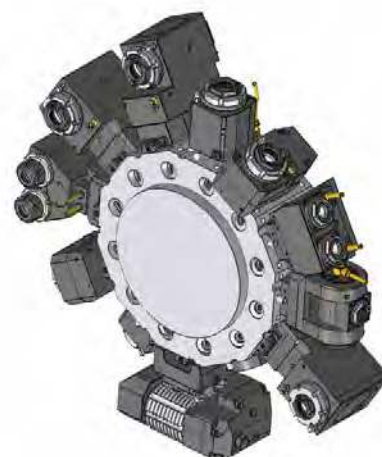
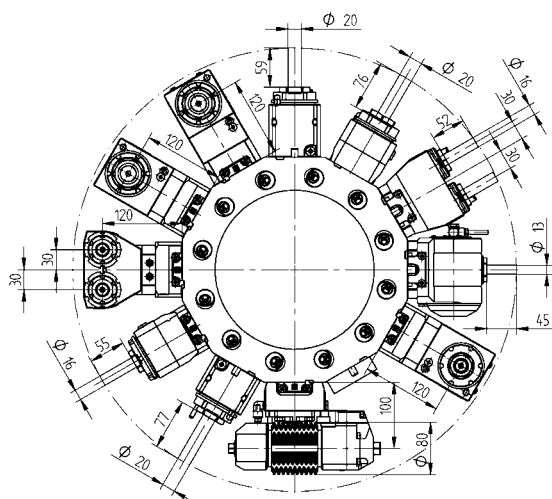
Driven Toolholders - Enhanced Program

**Adjustable angle drill/milling unit**

ER 20	411013019-40	1:1	EC
	00675000928		
ER 20	411013026-40	1:1	IC 80 bar
	00675000928		
ER 25	411016006-40	1:1	EC
	00675000934		
ER 25	411016024-40	1:1	IC 80 bar
	00675000934		
ER 16	411010012-40	1:2	EC
	00675000936		
ER 16	411010013-40	1:2	IC 80 bar
	00675000936		

**Slitting saw unit**

Type 14-2	410900013-40	2.62:1	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"		



Driven Toolholders - Enhanced Program

**Gear hobbing unit, Trifix®**

Type 16-1 411500041-40L 1:1 EC

00675000926

160016161 Ø 16

160022161 Ø 22

160027161 Ø 27

160015161 Ø 5/8"

160019161 Ø 3/4"

160025161 Ø 1"

96394

Type 16-1 411500037-40L 2:1 EC

00675000926

160016161 Ø 16

160022161 Ø 22

160027161 Ø 27

160015161 Ø 5/8"

160019161 Ø 3/4"

160025161 Ø 1"

96394

Drill/milling unit - double, Y axis

ER 25 413002034-40 1:1.5 EC

00675000930

ER 25 413002035-40 1:1.5 IC 80 bar

00675000930

2-spindle - Face drill/milling unit, Y axis, LF=120, Trifix®

ER 25 413502024-40L 1:1 EC

00675000915

ER 25 413502025-40L 1:1 IC 80 bar

00675000915

Driven Toolholders - Enhanced Program

**2-spindle - Face drill/milling unit, Y axis, LF=120, Trifix®**

ER 25 413502024-40R 1:1 EC

00675000915

ER 25 413502025-40R 1:1 IC 80 bar

00675000915

**2-spindle - Face drill/milling unit, both sides, Y axis, LF=120, Trifix®**

ER 25 413502026-40 1:1 EC

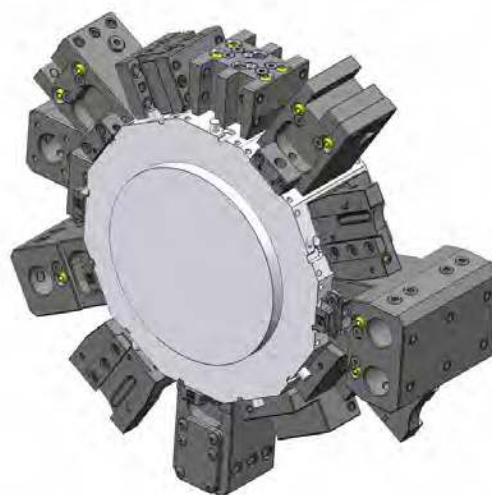
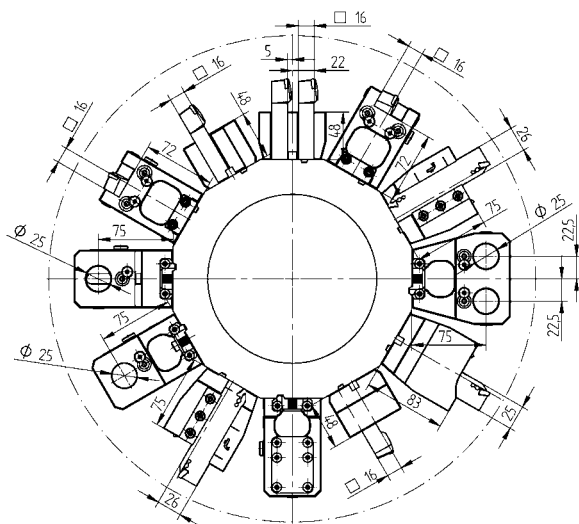
00675000915

**Broaching unit for ID and OD, Trifix®, LF=100 - BMT**

TN765050 414532007-40L 1:1 EC

**Broaching unit for ID and OD, Trifix®, LF=100 - BMT**

TN765050 414532007-40R 1:1 EC



Static Toolholders - Standard Program



16 48-C1-25x16



16 48-C2-25x16



16 48-C3-25x16



16 48-C4-25x16



16 48-88237
R2Z415W



16 48-71572
R2Z810W




20	48-111171-HP	IC 80 bar
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16 48-74693




Ø 25 48-74687
 241125016 ER25




Ø 25 48-98234
 241125016 ER25




Ø 25 48-74689
 241125016 ER25




Ø 25 48-98235
 241125016 ER25



Ø 25 48-74688
 241125016 ER25



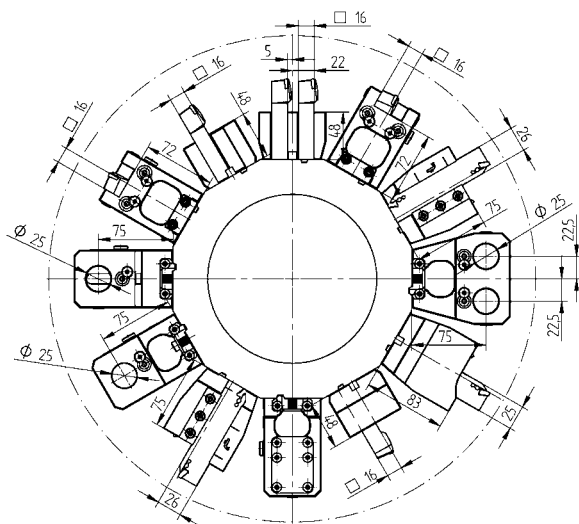
Ø 25 48-98236
 241125016 ER25



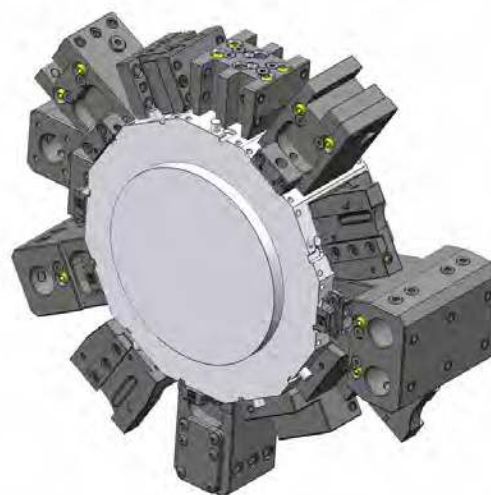
Ø 25 48-74690



Ø 25 48-98238

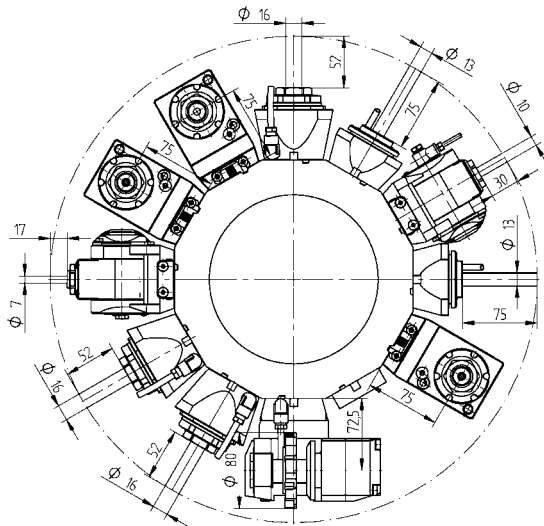


Static Toolholders - Standard Program

**Plug, steel, Form Z2****Steel** 48-Z2-25-S

Static Toolholders - Enhanced Program

**OD cutting holder, HP-IC - double VDI serration****20** 48-106423-HP IC 80 bar**OD cutting holder, both sides, double, Y axis****16(5/8")** 48-77394
442770W**Face cutting holder, HP-IC - double VDI serration****20** 48-107434-HP**Cut-off holder, adjustable - double VDI serration****SH 26** 48-98981
R2Z452W**Cut-off holder, adjustable, HP-IC - double VDI serration****SH 26** 48-102647R IC 80 bar
SH 26 48-102647L IC 80 bar**Combination toolholder, double, both sides****Ø 25** 48-109204 IC 80 bar



Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-25 QF 420125010-25 1:1 EC
R2Z471W

0067725010

ER-25 QF 420125011-25 1:1 IC 80 bar

0067725010

**Right angle drill/milling unit, Trifix®**

ER-25 QF 420525010-25L 1:1 EC

0067725010

ER-25 QF 420525011-25L 1:1 IC 80 bar

0067725010

**Right angle drill/milling unit, Trifix®**

ER-25 QF 420525010-25R 1:1 EC

0067725010

ER-25 QF 420525011-25R 1:1 IC 80 bar

0067725010

**Right angle back set drill/milling unit, Trifix®**

ER-25 QF 420525027-25L 1:1 EC

0067725010

ER-25 QF 420525028-25L 1:1 IC 80 bar

0067725010

**Right angle back set drill/milling unit, Trifix®**

ER-25 QF 420525027-25R 1:1 EC

0067725010

ER-25 QF 420525028-25R 1:1 IC 80 bar

0067725010

**Right angle drill/milling unit, both sides, Trifix®**

ER-25 QF 420525012-25 1:1 EC

0067725010

Driven Toolholders - Enhanced Program

**Straight drill/milling unit, short**

ER 20 410113004-25 1:1 EC
R2Z490

00675000700

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

Ø 16 410216003-25 1:1 EC

00675000854

**Straight offset drill/milling unit**

ER 25 410116017-25 1:1 EC

00675000801

ER 20 410113003-25 1:2 EC

00675000887

ER 16 410410000-25 1:3 EC

00675000636

ER 25 410116013-25 2:1 EC

00675000801

**Right angle drill/milling unit**

ER-20 QF 420520019-25 1:2 EC

0067720001

ER-20 QF 420520020-25 1:2 IC 80 bar

0067720001

ER 16 410810012-25 1:3 EC

00675000841

ER 16 410810013-25 1:3 IC 80 bar

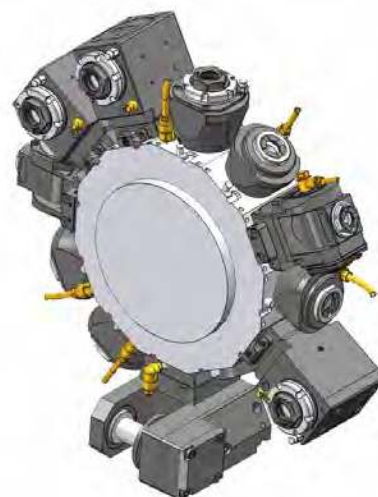
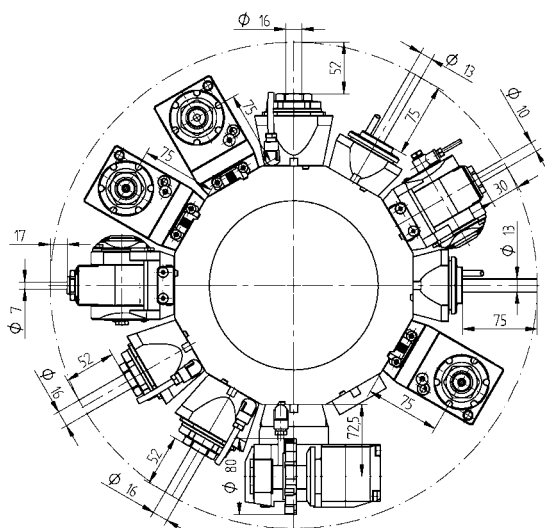
00675000841

ER-25 QF 420525032-25 2:1 EC

0067725010

ER-25 QF 420525033-25 2:1 IC 80 bar

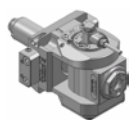
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Driven Toolholders - Enhanced Program

**Right angle milling unit with combination mill arbor DIN 6358**

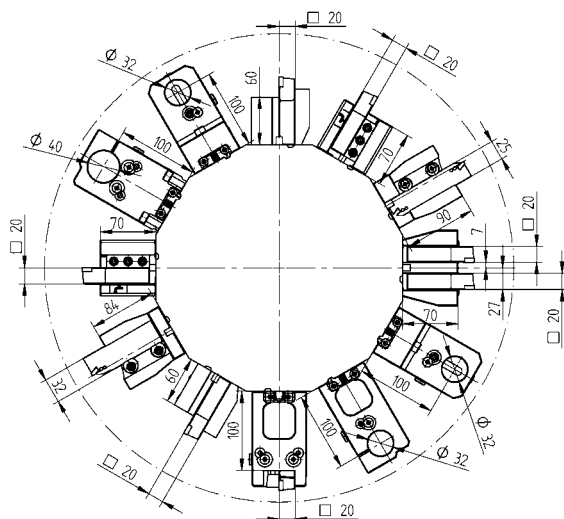
Ø 16	410616002-25	1:1	EC
	00675000854		
Ø 22	410622005-25	2:1	EC
	00675000483		
Ø 27	410627002-25	2:1	EC
	00675000245		

**Adjustable angle drill/milling unit**










ER 16	411010003-25	1:1	EC
	00675000902		
ER 16	411010010-25	1:1	IC 80 bar
	00675000902		
ER 11	411007006-25	1:2	EC
	00675000914		
ER 11	411007007-25	1:2	IC 80 bar
	00675000914		

**Offset slitting saw unit**






Type 14-2	411500002-25	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"		

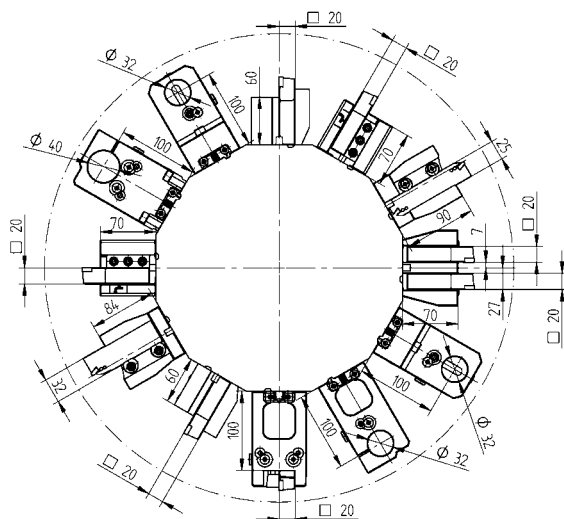


Static Toolholders - Standard Program

	Axial square toolholder, right hand, Form C1
20	48-C1-30x20
3/4"	48-C1-30x075
	Axial square toolholder, left hand, Form C2
20	48-C2-30x20
3/4"	48-C2-30x075
	Axial square toolholder, right hand inverted, Form C3
20	48-C3-30x20
3/4"	48-C3-30x075
	Axial square toolholder, left hand inverted, Form C4
20	48-C4-30x20
	Universal square toolholder, Form D1
20	48-D1-30x20
	Universal square toolholder, inverted, Form D2
20	48-D2-30x20
	OD cutting holder, left
20	48-71932 R4Z410W
	OD cutting holder, right
20	48-72047 R4Z230W
	OD cutting holder, both sides
20	48-71216 R6Z410W

Static Toolholders - Standard Program

	Face cutting holder
20	48-105756
	Face cutting holder, Trifix®
20	48-109793
	Combination toolholder, universal, LF=100
Ø 32	48-71434
	241132016 ER25
	241132020 ER32
	Combination toolholder, universal, Trifix®, LF=100
Ø 32	48-96995
	241132016 ER25
	241132020 ER32
	Combination toolholder, back set, left hand, LF=100
Ø 32	48-71438
	241132016 ER25
	241132020 ER32
Ø 1 1/4"	48-74548
	Combination toolholder, back set, left hand, Trifix®, LF=100
Ø 32	48-97531
	241132016 ER25
	241132020 ER32
Ø 1 1/4"	48-97536



Static Toolholders - Standard Program

**Combination toolholder, back set, right hand, LF=100**

Ø 32 48-71436
241132016 ER25
241132020 ER32

Ø 1 1/4" 48-74544

**Combination toolholder, back set, right hand, Trifix®, LF=100**

Ø 32 48-97553
241132016 ER25
241132020 ER32

Ø 1 1/4" 48-97555

**Collet face drill holder, LF=100**

ER 32 48-82824 IC 80 bar
107532000

**Collet face drill holder, Trifix®, LF=100**

ER 32 48-100198 IC 80 bar
107532000

**Collet face drill holder, both sides, LF=100**

ER 32 48-82847 IC 80 bar
107532000

**Collet face drill holder, both sides, Trifix®, LF=100**

ER 32 48-100199 IC 80 bar
107532000

**Plug, steel, Form Z2**

Steel 48-Z2-30-S

Static Toolholders - Enhanced Program

**OD cutting holder, HP-IC - double VDI serration**

20 48-105977-HP IC 80 bar

**OD cutting holder, double, Y axis - double VDI serration**

20 (3/4") 48-84593

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

20 (3/4") 48-77395
442750W

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

20 48-71216-HP IC 80 bar

**Cut-off holder, adjustable - double VDI serration**

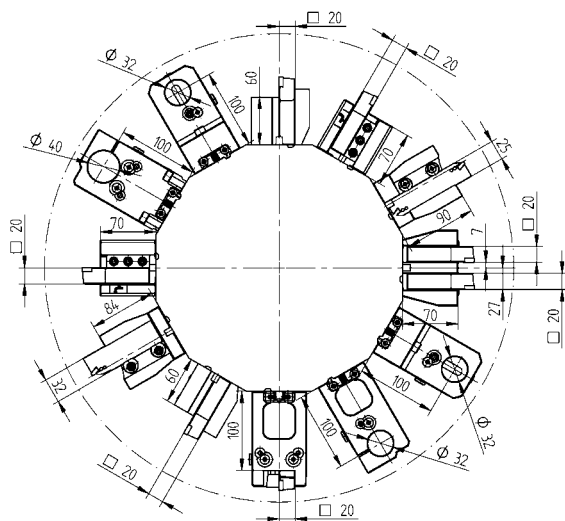
SH 26 48-98991
R4Z451W
SH 32 48-99017
R9Z450

**Cut-off holder, adjustable, HP-IC - double VDI serration**

SH 26 48-102630R IC 80 bar
SH 26 48-102630L IC 80 bar
SH 32 48-102632R IC 80 bar
SH 32 48-102632L IC 80 bar

**Combination toolholder, universal, Trifix®, LF=100 - BMT**

Ø 40 48-99669
241140020 ER32
241140026 ER40



Static Toolholders - Enhanced Program



Boring bar holder, with slot, LF=100

Ø 32 48-87088



Boring bar holder, with slot, Trifix®, LF=100

Ø 32 48-97588




**Boring bar holder, with slot, Trifix®, LF=100
- BMT**

Ø 40 48-96994



**Combination toolholder, universal, double,
Y axis, LF=100**

Ø 25 48-79026

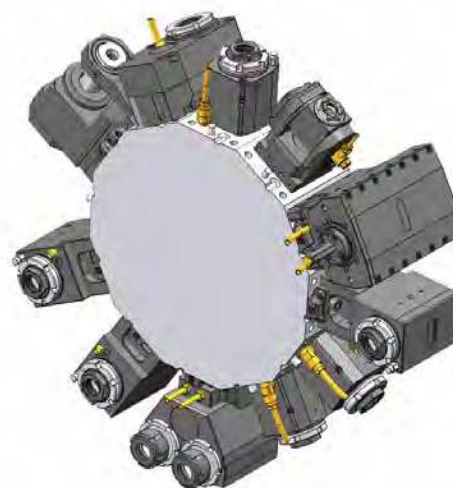
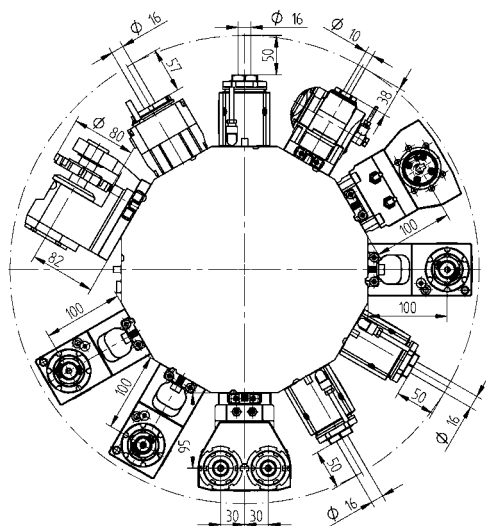
 241125016 ER25



**Combination toolholder, universal, double,
Y axis, Trifix®, LF=100**

Ø 25 48-99635

 241125016 ER25



Driven Toolholders - QuickFlex®

Driven Toolholders - QuickFlex®

**Straight drill/milling unit (6000 RPM)**

ER-25 QF 420125010-30L 1:1 EC
440441W
0067725010

ER-25 QF 420125019-30L 1:1 IC 80 bar
0067725010

**Straight drill/milling unit (12000 RPM)**

ER-25 QF 420125014-30L 1:1 EC
0067725010

ER-25 QF 420125015-30L 1:1 IC 80 bar
0067725010

**Right angle drill/milling unit, Trifix®, (6000 RPM)**

ER-25 QF 420525055-30L 1:1 EC
0067725010

ER-25 QF 420525056-30L 1:1 IC 80 bar
0067725010

**Right angle drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525057-30L 1:1 EC
0067725010

ER-25 QF 420525058-30L 1:1 IC 80 bar
0067725010

**Right angle drill/milling unit, Trifix®, (6000 RPM)**

ER-25 QF 420525055-30R 1:1 EC
0067725010

ER-25 QF 420525056-30R 1:1 IC 80 bar
0067725010

**Right angle drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525057-30R 1:1 EC
0067725010

ER-25 QF 420525058-30R 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (6000 RPM)**

ER-25 QF 420525089-30L 1:1 EC
0067725010

ER-25 QF 420525090-30L 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525060-30L 1:1 EC
0067725010

ER-25 QF 420525061-30L 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (6000 RPM)**

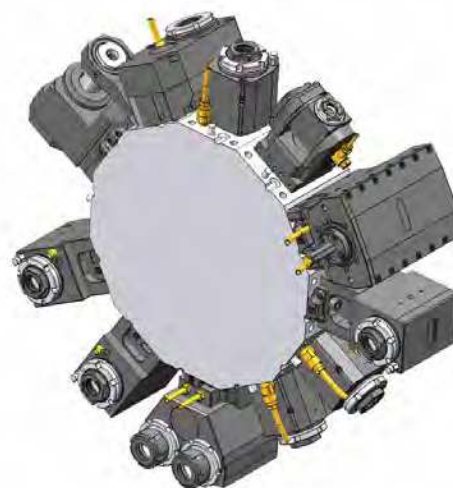
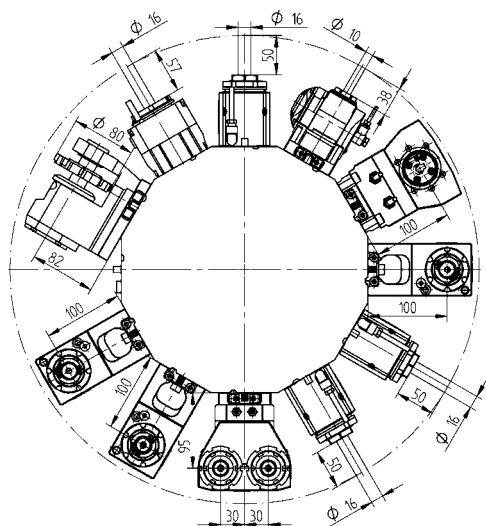
ER-25 QF 420525089-30R 1:1 EC
0067725010

ER-25 QF 420525090-30R 1:1 IC 80 bar
0067725010

**Right angle back set drill/milling unit, Trifix®, (12000 RPM)**

ER-25 QF 420525060-30R 1:1 EC
0067725010

ER-25 QF 420525061-30R 1:1 IC 80 bar
0067725010



Driven Toolholders - QuickFlex®



**Right angle drill/milling unit, both sides,
Trifix®, (6000 RPM)**

ER-25 QF 420525086-30 1:1 EC
0067725010



**Right angle drill/milling unit, both sides,
Trifix®, (12000 RPM)**

ER-25 QF 420525095-30 1:1 EC
0067725010

Driven Toolholders - Enhanced Program



Straight drill/milling unit - BMT

ER-32 QF 420132010-30 1:1 EC
0067732000

ER-32 QF 420132011-30 1:1 IC 80 bar
0067732000



Straight milling unit

Ø 16 410216014-30 1:1 EC
00675000854



Straight offset drill/milling unit

ER 25 410116058-30 1:1 EC
00675000801

ER 25 410116057-30 1:1 IC 80 bar
00675000801

ER 20 410113010-30 1:2 EC
00675000591

ER 20 410113009-30 1:2 IC 80 bar
00675000591

ER 25 410116059-30 2:1 EC
00675000801

ER 25 410116060-30 2:1 IC 80 bar
00675000801

ER 32 410120027-30 2:1 EC
00675000592

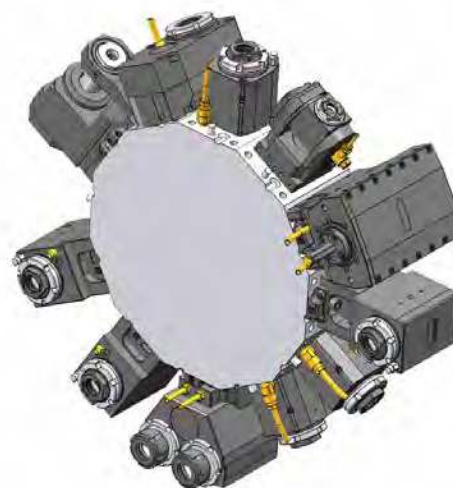
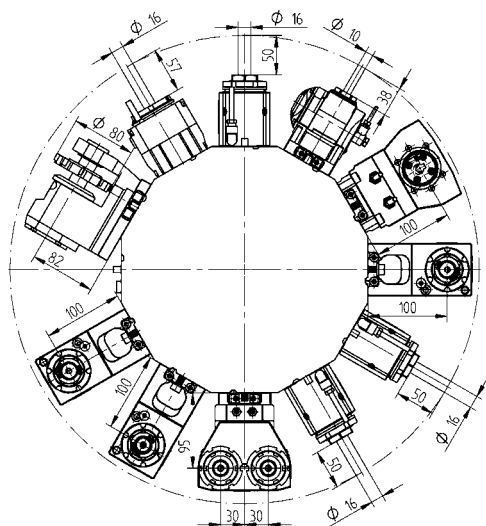
ER 32 410120032-30 2:1 IC 80 bar
00675000592



**Straight offset drill/milling unit - double VDI
serration**

ER 16 410410002-30 1:3 EC
00675000937

ER 16 410410001-30 1:3 IC 80 bar
00675000937



Driven Toolholders - Enhanced Program

**Right angle drill/milling unit**

ER-20 QF	420520013-30	1:2	EC
	0067720000		
ER-20 QF	420520014-30	1:2	IC 80 bar
	0067720000		
ER 16	410810012-30	1:3	EC
	00675000841		
ER 16	410810013-30	1:3	IC 80 bar
	00675000841		
ER-25 QF	420525096-30	2:1	EC
	0067725010		
ER-25 QF	420525097-30	2:1	IC 80 bar
	0067725010		

**Right angle drill/milling unit, Trifix®**

ER-20 QF	420520015-30L	1:2	EC
	0067720000		
ER-20 QF	420520016-30L	1:2	IC 80 bar
	0067720000		

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

ER 32	410520013-30	2:1	EC
	00675000592		
ER 32	410520014-30	2:1	IC 80 bar
	00675000592		

**Adjustable angle drill/milling unit**

ER 16	411010015-30	1:1	EC
	00675000902		
ER 16	411010016-30	1:1	IC 80 bar
	00675000902		
ER 11	411007018-30	1:2	EC
	00675000914		
ER 11	411007019-30	1:2	IC 80 bar
	00675000914		

Driven Toolholders - Enhanced Program

**Slitting saw unit**

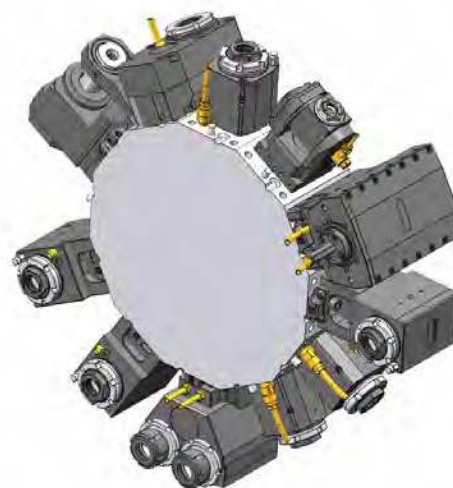
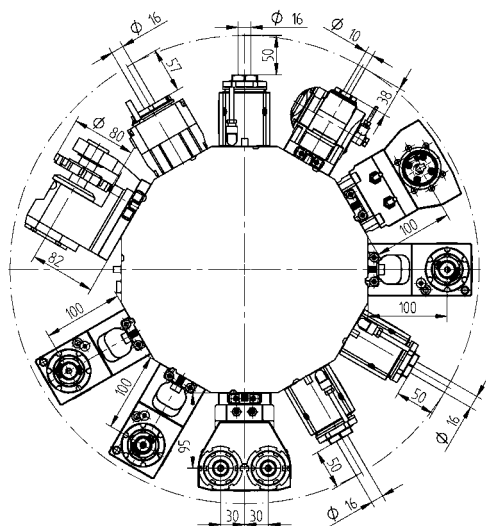
Type 14-2	410900015-30	2.62:1	EC
	00675000460		
	160016142 Ø 16		
	160022142 Ø 22		
	160027142 Ø 27		
	160015142 Ø 5/8"		
	160019142 Ø 3/4"		
	160023142 Ø 7/8"		
	160025142 Ø 1"		

**Gear hobbing unit, Trifix®**

Type 15-2	410900025-30	1:1	EC
	00675001015		
	160008152 Ø 8		
	160010152 Ø 10		
	160013152 Ø 13		
	160016152 Ø 16		
	160022152 Ø 22		
	160015152 Ø 5/8"		
	160019152 Ø 3/4"		
	96394		

**Drill/milling unit - double, Y axis**

ER 25	413002008-30	1:1.5	EC
	00675000930		
ER 25	413002009-30	1:1.5	IC 80 bar
	00675000930		



Driven Toolholders - Enhanced Program



2-spindle - Face drill/milling unit, Y axis

ER 25 413502000-30 1:1 EC
00675000915

ER 25 413502004-30 1:1 IC 80 bar
00675000915



2-spindle - Face drill/milling unit, both sides, Y axis

ER 25 413502009-30 1:1 EC
00675000915



Broaching unit for ID and OD, Trifix® - BMT

TN765050 414532001-30L 1:1 EC



Broaching unit for ID and OD, Trifix® - BMT

TN765050 414532001-30R 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 3/4"

2400075025	ø 1/4"
2400075032	ø 5/16"
2400075038	ø 3/8"
2400075050	ø 1/2"
2400075063	ø 5/8"

Standard reduction sleeves - cylindrical



Reduction sleeve Ø 1"

2400100025	ø 1/4"
2400100031	ø 5/16"
2400100038	ø 3/8"
2400100050	ø 1/2"
2400100063	ø 5/8"
2400100075	ø 3/4"



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"



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 - cylindrical, with slot



Reduction sleeve Ø 25

240125006	ø 6
240125008	ø 8
240125010	ø 10
240125012	ø 12
240125014	ø 14
240125015	ø 15
240125016	ø 16
240125020	ø 20



Reduction sleeve Ø 32

240132008	ø 8
240132010	ø 10
240132012	ø 12
240132015	ø 15
240132016	ø 16
240132020	ø 20
240132025	ø 25



Reduction sleeve Ø 40

240140010	ø 10
240140012	ø 12
240140015	ø 15
240140016	ø 16
240140020	ø 20
240140025	ø 25
240140032	ø 32

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

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



ER 50	mm	inch
190050000	ø 34-10	ø 1.339-0.394
190050060	ø 6-4	ø 0.236-0.157
190050080	ø 8-6	ø 0.315-0.236
190050100	ø 10-8	ø 0.394-0.315
190050120	ø 12-10	ø 0.472-0.394
190050140	ø 14-12	ø 0.551-0.472
190050160	ø 16-14	ø 0.630-0.551
190050180	ø 18-16	ø 0.709-0.630
190050200	ø 20-18	ø 0.787-0.709
190050220	ø 22-20	ø 0.866-0.787
190050240	ø 24-22	ø 0.945-0.866
190050260	ø 26-24	ø 1.024-0.945
190050280	ø 28-26	ø 1.102-1.024
190050300	ø 30-28	ø 1.181-1.102
190050320	ø 32-30	ø 1.260-1.181
190050340	ø 34-32	ø 1.339-1.260

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 20	mm	inch
191020000	ø 3-12	
191020030	ø 3	
191020040	ø 4	
191020050	ø 5	
191020060	ø 6	
191020070	ø 7	
191020080	ø 8	
191020090	ø 9	
191020100	ø 10	
191020110	ø 11	
191020120	ø 12	
191120001		ø 0.125-0.5
191120013-in		ø 0.125
191120019-in		ø 0.188
191120025-in		ø 0.25
191120031-in		ø 0.313
191120038-in		ø 0.375
191120044-in		ø 0.438
191120050-in		ø 0.5

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

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



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

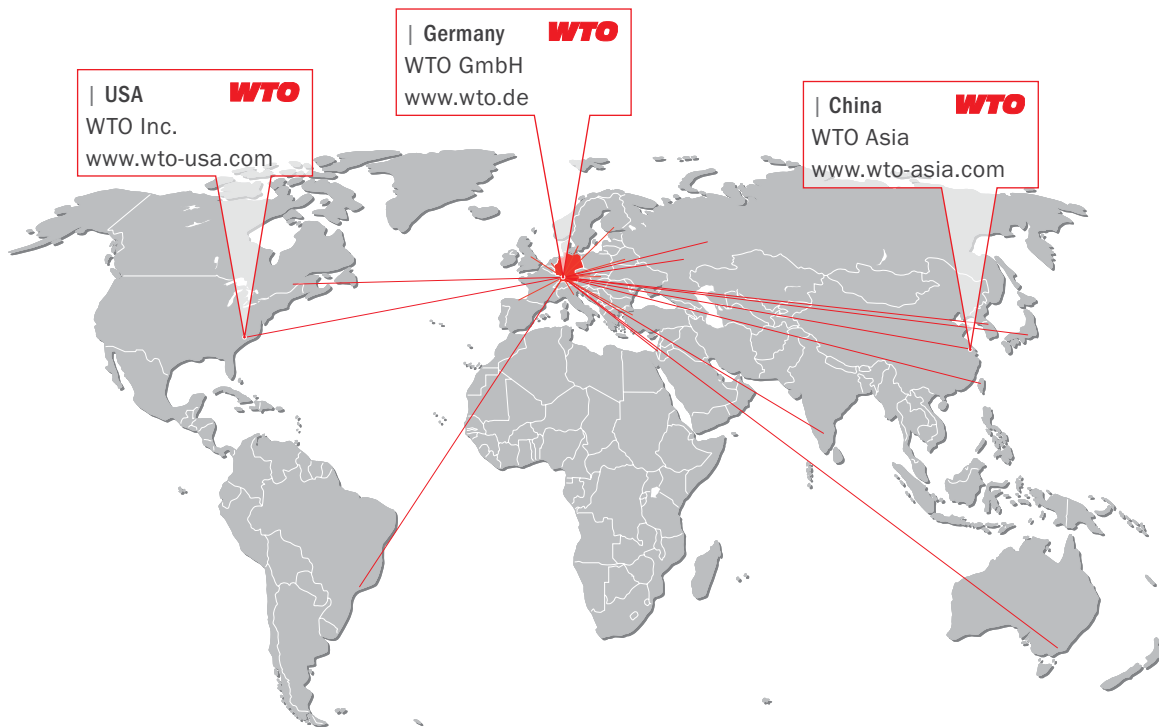


ER 40	mm	inch
191040060	ø 6	
191040080	ø 8	
191040100	ø 10	
191040120	ø 12	
191040140	ø 14	
191040160	ø 16	
191040180	ø 18	
191040200	ø 20	
191040220	ø 22	
191040250	ø 25	
191140025-in		ø 0.25
191140031-in		ø 0.313
191140038-in		ø 0.375
191140044-in		ø 0.438
191140050-in		ø 0.5
191140056-in		ø 0.563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



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

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