

SMEC

WTO

Toolholder Program

PL 20-80
PL 1600-2500
PL 250V/VM
SL 1500-5500
SLV 500-1000



QuickFlex®

The new quick change system for high performance and precision.

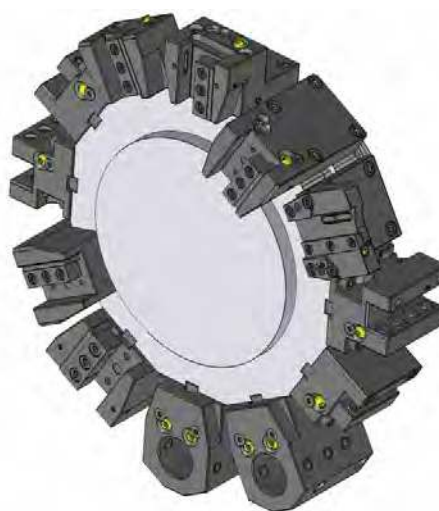
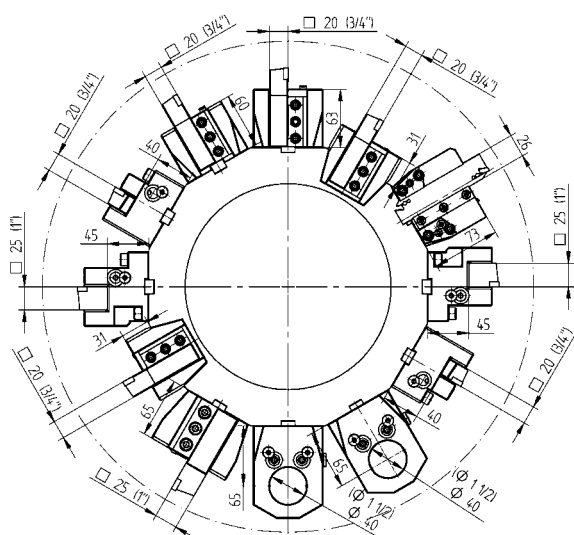
Minimal investment, maximal expandability.



Designed
for
BMT Turrets

PL 1600M	Page	4 - 6
SL 1500, 2000M/Y/SY	Page	7 - 9
SL 2500, 3000M/Y/SY, PL 2000, 2500Y/SY	Page	10 - 12
SL 3500M/Y, PL 20-35M, 2000-2500MS	Page	13 - 16
SL 4500, 5500M, SL 4500LY, PL 45M/LY	Page	17 - 18
PL 60-80M	Page	19 - 20
PL 250V/VM	Page	21 - 23
SLV 500M	Page	24 - 26
SLV 800M, PL 800VM	Page	27 - 28
SLV 1000M	Page	29 - 30
Reduction sleeves	Page	31 - 32
Collets	Page	33 - 35

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

**OD cutting holder**

20	48-95083
3/4"	48-95084

**OD cutting holder, HP-IC**

20	48-100605-HP	IC 80 bar
25	48-104395-HP	IC 80 bar
3/4"	48-108926-HP	IC 80 bar
1"	48-104396-HP	IC 80 bar

**OD cutting holder, short**

20	48-108330
3/4"	48-108997

**Face cutting holder**

20	48-109148
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**Face cutting holder**

3/4"	48-95338
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**Face cutting holder, HP-IC**

20	48-109148-HP	IC 80 bar
25	48-104397-HP	IC 80 bar
3/4"	48-109149-HP	IC 80 bar
1"	48-104398-HP	IC 80 bar

**Combination toolholder, LF=65**

Ø 40	48-95090	IC 80 bar
Ø 1 1/2"	48-95327	IC 80 bar

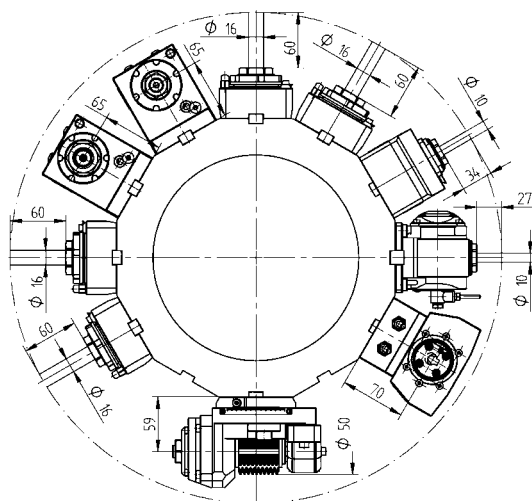
Static Toolholders - Enhanced Program

**Cut-off holder, adjustable**

SH 26	48-94968
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**Cut-off holder, adjustable, HP-IC**

SH 26	48-102252R	IC 80 bar
SH 26	48-102252L	IC 80 bar



Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-25 QF	420125015-45	1:1	EC
	0067725000		
ER-25 QF	420125016-45	1:1	IC 80 bar
	0067725000		

**Right angle drill/milling unit**

ER-25 QF	420525015-45	1:1	EC
	0067725000		
ER-25 QF	420525016-45	1:1	IC 80 bar
	0067725000		

Driven Toolholders - Enhanced Program

**Straight offset drill/milling unit**

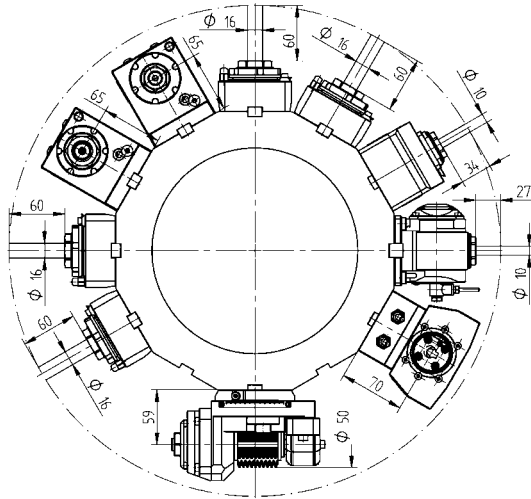
ER 16	410410008-45	1:3	EC
	00675000937		
ER 16	410410002-45	1:3	IC 80 bar
	00675000937		

**Right angle drill/milling unit**

ER-20 QF	420520018-45	1:2	EC
	0067720001		
ER-20 QF	420520019-45	1:2	IC 80 bar
	0067720001		
ER-20 QF	420820010-45	1:3	EC
	0067720001		
ER-20 QF	420820011-45	1:3	IC 80 bar
	0067720001		
ER-25 QF	420525020-45	2:1	EC
	0067725000		
ER-25 QF	420525021-45	2:1	IC 80 bar
	0067725000		

**Adjustable angle drill/milling unit**

ER 16	411010002-45	1:1	EC
	00675000902		
ER 16	411010003-45	1:1	IC 80 bar
	00675000902		












Driven Toolholders - Enhanced Program



Gear hobbing unit

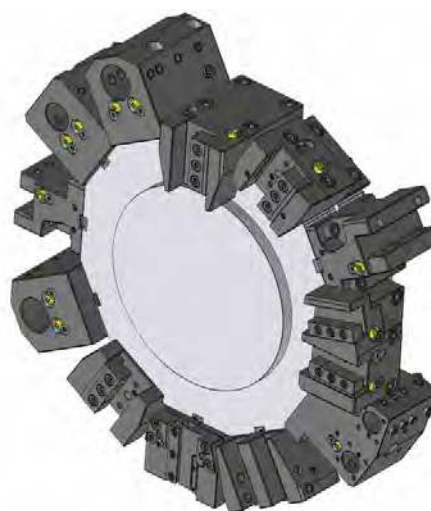
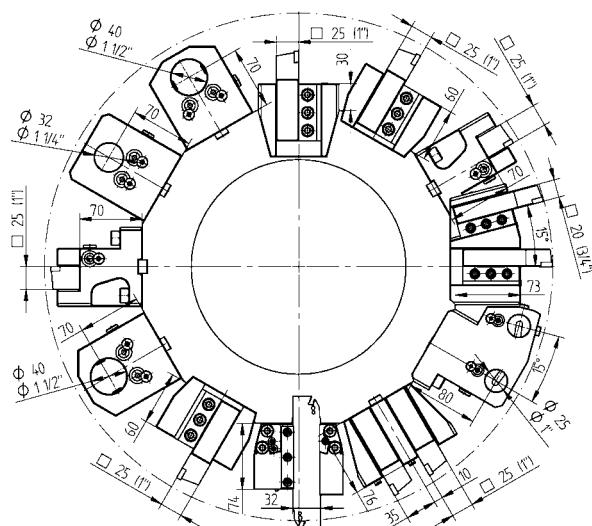
Type 15-2 410900001-45 1:1 EC

-  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



Broaching unit for ID and OD

TN765050 414532000-45 1:1 EC



Static Toolholders - Enhanced Program



25	48-87097
1"	48-87098



25	48-87097-HP	IC 80 bar
1"	48-87098-HP	IC 80 bar



25	48-108331
1"	48-108885



25	48-87099
1"	48-87100



25	48-87099-HP	IC 80 bar
1"	48-87100-HP	IC 80 bar



25	48-87101
1"	48-87102



25	48-87101-HP	IC 80 bar
1"	48-87102-HP	IC 80 bar



Ø 32	48-106897	IC 80 bar
Ø 40	48-87103	IC 80 bar
Ø 1 1/4"	48-106872	IC 80 bar
Ø 1 1/2"	48-87104	IC 80 bar



20	48-108747
3/4"	48-110460



20	48-111193
3/4"	48-111194



25(1") 48-87140



25(1") 48-87141



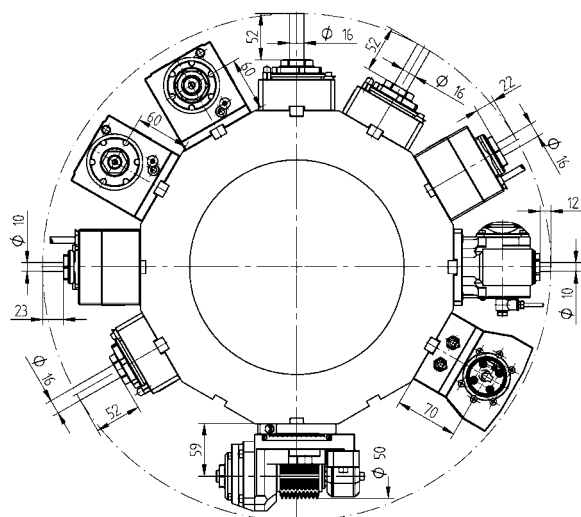
SH 32 48-103287



SH 32	48-110160R	IC 80 bar
SH 32	48-110160L	IC 80 bar



Ø 25	48-108748	IC 80 bar
Ø 1"	48-110461	IC 80 bar



Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-25 QF 420125015-55 1:1 EC
0067725000

ER-25 QF 420125016-55 1:1 IC 80 bar
0067725000

**Right angle drill/milling unit, LF=60**

ER-25 QF 420525021-55 1:1 EC
0067725000

ER-25 QF 420525022-55 1:1 IC 80 bar
0067725000

**Right angle drill/milling unit, both sides, LF=60**

ER-25 QF 420525023-55 1:1 EC
0067725000

Driven Toolholders - Enhanced Program

**Straight drill/milling unit**

ER 32 410120010-55 1:1 EC
0067725000

ER 32 410120011-55 1:1 IC 80 bar
0067725000

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

Ø 22 410222004-55 1:1 EC
00675000483

Ø 3/4" 410219002-55 1:1 EC
00675000483

**Straight offset drill/milling unit**

ER 25 410116029-55 1:1 EC
00675000932

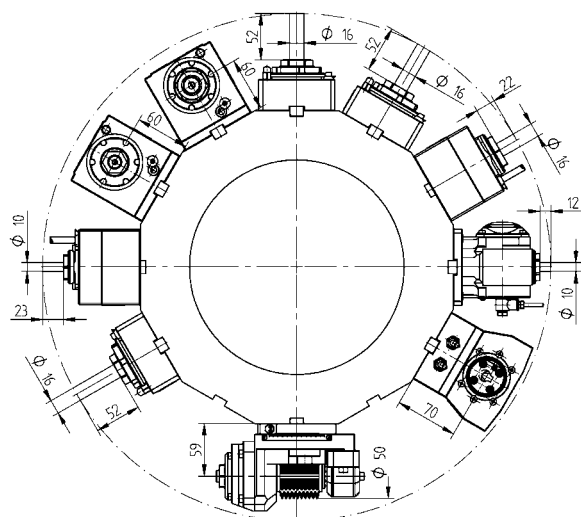
ER 25 410116030-55 1:1 IC 80 bar
00675000932

ER 20 410113009-55 1:2 EC
00675000939

ER 20 410113010-55 1:2 IC 80 bar
00675000939

ER 16 410410004-55 1:3 EC
00675000937

ER 16 410410005-55 1:3 IC 80 bar
00675000937



Driven Toolholders - Enhanced Program

**Right angle drill/milling unit, LF=60**

ER-20 QF	420520016-55	1:2	EC
	0067720001		
ER-20 QF	420520017-55	1:2	IC 80 bar
	0067720001		
ER-20 QF	420820010-55	1:3	EC
	0067720001		
ER-20 QF	420820011-55	1:3	IC 80 bar
	0067720001		
ER-25 QF	420525034-55	2:1	EC
	0067725000		
ER-25 QF	420525035-55	2:1	IC 80 bar
	0067725000		

**Right angle milling unit with combination mill arbor DIN 6358, LF=60**

Ø 22	410622012-55	1:1	EC
	00675000483		
Ø 3/4"	410619007-55	1:1	EC
	00675000483		

**Adjustable angle drill/milling unit**

ER 16	411010005-55	1:1	EC
	00675000902		
ER 16	411010006-55	1:1	IC 80 bar
	00675000902		
ER 11	411007007-55	1:2	EC
	00675000914		
ER 11	411007008-55	1:2	IC 80 bar
	00675000914		

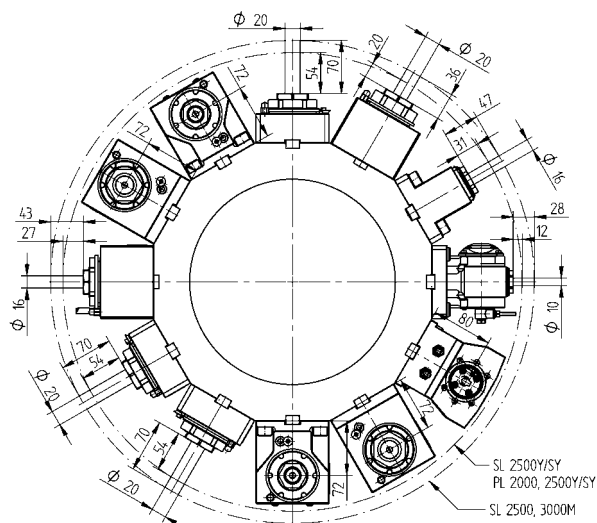
Driven Toolholders - Enhanced Program

**Gear hobbing unit**

Type 15-2	410900002-55	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		

**Broaching unit for ID and OD**

TN765050	414532001-55	1:1	EC
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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

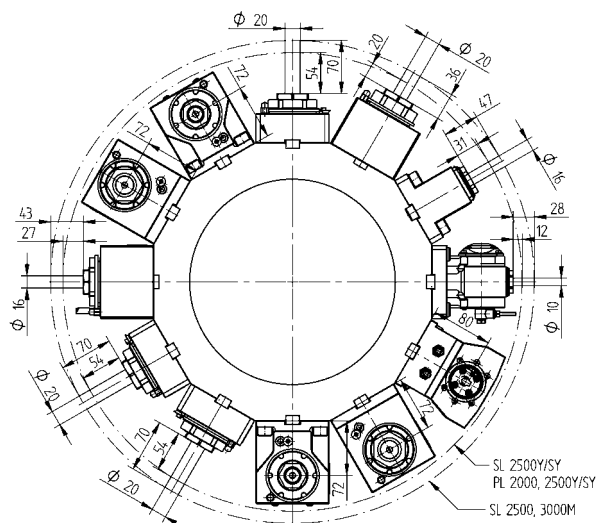
ER-25 QF 420125010-65 1:2 EC
0067725001

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**

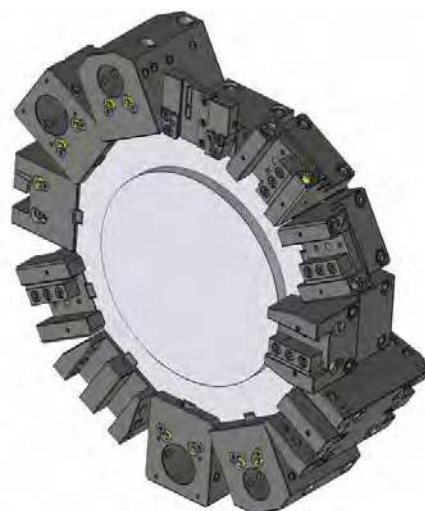
ER 16	411010002-65	1:1	EC
	00675000902		
ER 16	411010003-65	1:1	IC 80 bar
	00675000902		
ER 11	411007002-65	1:2	EC
	00675000914		
ER 11	411007003-65	1:2	IC 80 bar
	00675000914		

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

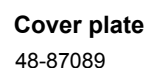
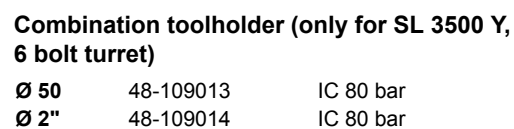
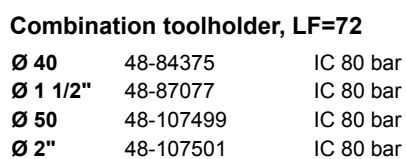
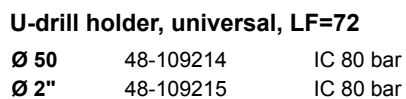
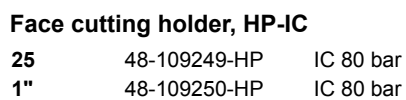
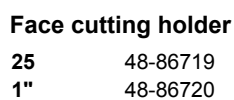
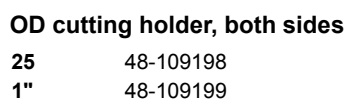
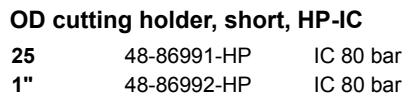
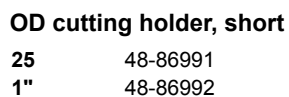
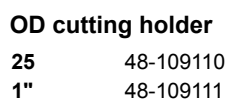
ER 25	413002001-65	1:1	EC
	00675000907		

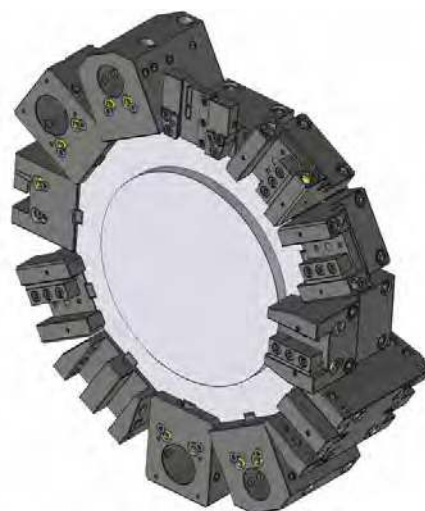
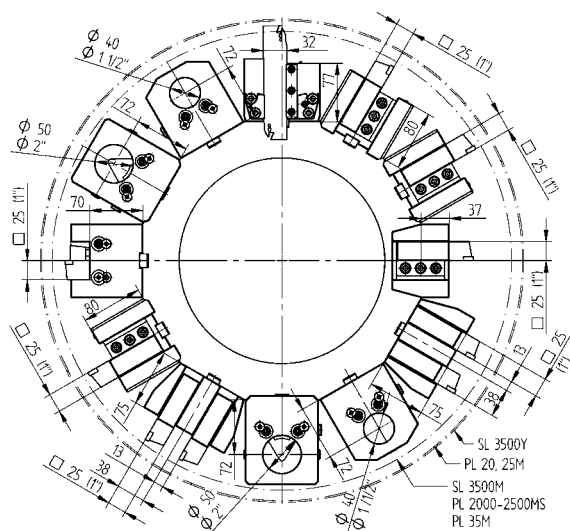
**Broaching unit for ID and OD**

TN765050	414532001-65	1:1	EC
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Static Toolholders - Standard Program





Static Toolholders - Enhanced Program

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

25(1") 48-86103

**Cut-off holder, adjustable**

SH 32 48-99060

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

SH 32 48-102256R IC 80 bar

SH 32 48-102256L IC 80 bar

**Combination toolholder, back set**

Ø 40 48-102037 IC 80 bar

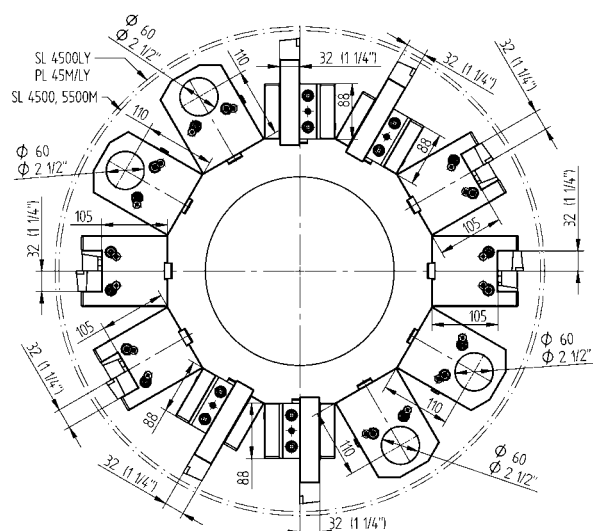
241140020 ER32

241140026 ER40



Driven Toolholders - Enhanced Program





Static Toolholders - Standard Program

**OD cutting holder, long**

32 48-96334
1 1/4" 48-96335

**Face cutting holder, long**

32 48-96338
1 1/4" 48-96339

**Combination toolholder, LF=110**

Ø 60 48-96777 IC 80 bar
Ø 2 1/2" 48-96778 IC 80 bar

Static Toolholders - Enhanced Program

**OD cutting holder, for long workpieces**

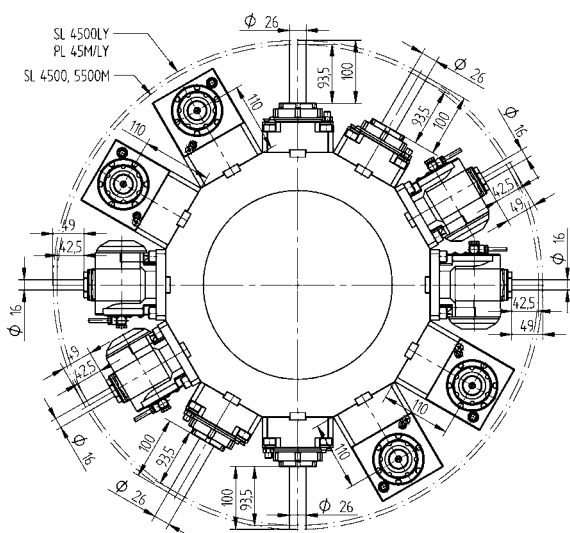
32 48-109821

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

25(1") 48-112317

**VDI adapter, right, LF=110**

VDI 50 48-112600



Driven Toolholders - QuickFlex®

**OD drill/milling unit**

ER-40 QF	420140015-75	1:1	EC
	0067740000		
ER-40 QF	420140016-75	1:1	IC 80 bar
	0067740000		

**Face drill/milling unit, LF=110**

ER-40 QF	420540019-75	1:1	EC
	0067740000		
ER-40 QF	420540020-75	1:1	IC 80 bar
	0067740000		

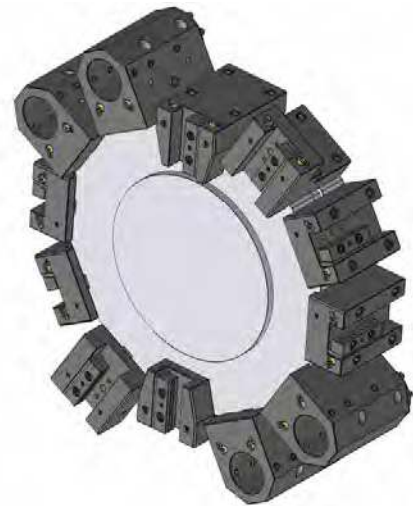
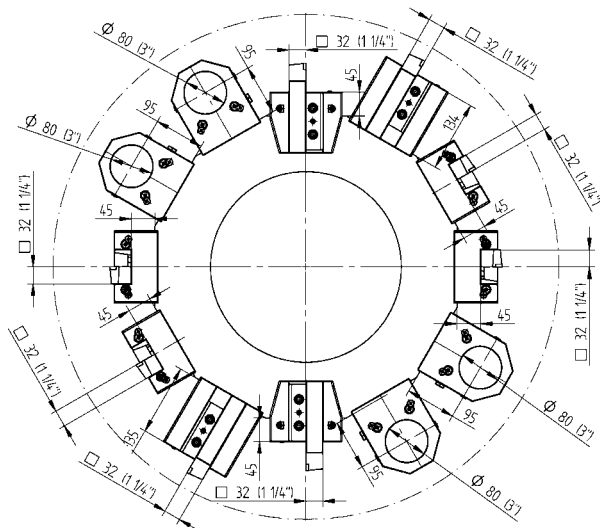
Driven Toolholders - Enhanced Program

**Face drill/milling unit, LF=110**

ER-32 QF	420532012-75	1:2	EC
	0067732001		
ER-32 QF	420532013-75	1:2	IC 80 bar
	0067732001		
ER-40 QF	420540025-75	2:1	EC
	0067740000		
ER-40 QF	420540026-75	2:1	IC 80 bar
	0067740000		

**Adjustable angle drill/milling unit**

ER 25	411016000-75	1:1	EC
	00675000934		
ER 25	411016001-75	1:1	IC 80 bar
	00675000934		
ER 16	411010002-75	1:2	EC
	00675000936		
ER 16	411010003-75	1:2	IC 80 bar
	00675000936		



Static Toolholders - Standard Program



OD cutting holder

32	48-108332
1 1/4"	48-108903



OD cutting holder, short

32	48-95726
1 1/4"	48-95728



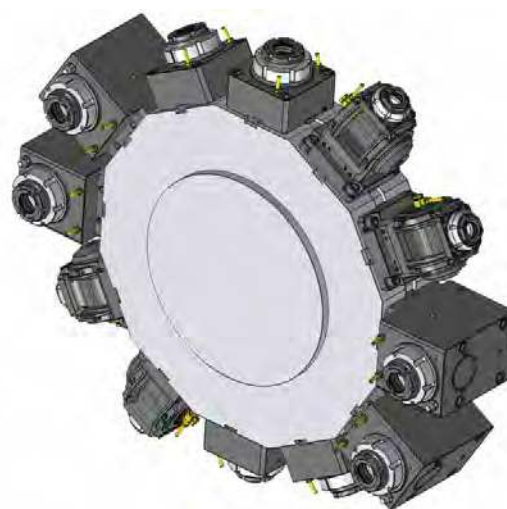
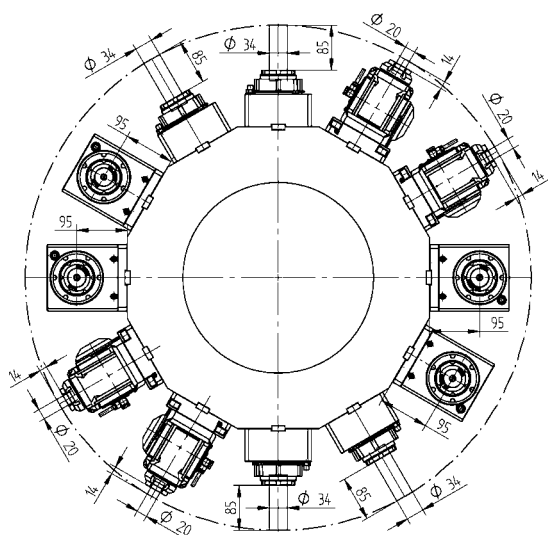
Face cutting holder

32	48-95730
1 1/4"	48-95731



Combination toolholder

Ø 80	48-95732	IC 80 bar
Ø 3"	48-95733	



Driven Toolholders - QuickFlex®

**OD drill/milling unit**

ER-50 QF	420150015-85	1:1	EC
	0067750000		
ER-50 QF	420150016-85	1:1	IC 80 bar
	0067750000		

**Face drill/milling unit for ER collets, LF=95**

ER-50 QF	420550021-85	1:1	EC
	0067750000		
ER-50 QF	420550022-85	1:1	IC 80 bar
	0067750000		

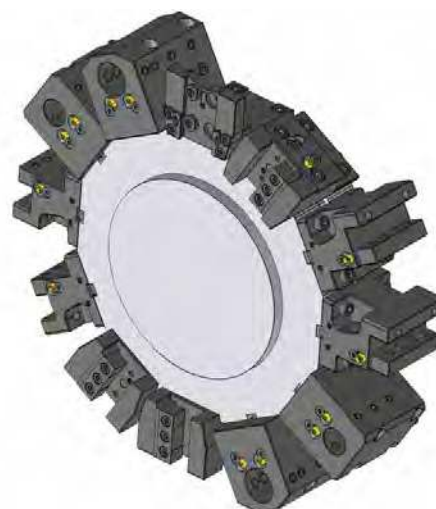
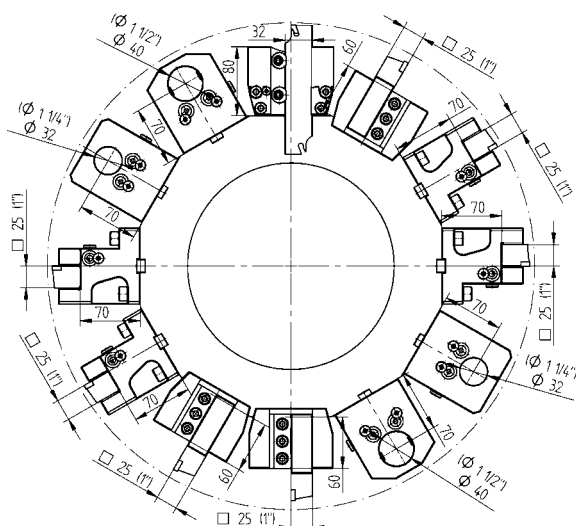
Driven Toolholders - Enhanced Program

**Adjustable angle drill/milling unit**

ER-32 QF	421032010-85	1:1	EC
	00675000976		
ER-32 QF	421032011-85	1:1	IC 80 bar
	00675000976		

**Gear hobbing unit**

Type C5-1	410900000-85	2:1	EC
	00675001008		
	160022C51 Ø 22		
	160027C51 Ø 27		
	160032C51 Ø 32		
	160019C51 Ø 3/4"		
	160025C51 Ø 1"		
	160031C51 Ø 1 1/4"		



Static Toolholders - Standard Program

**OD cutting holder**

25	48-87097
1"	48-87098

**OD cutting holder, HP-IC**

25	48-87097-HP	IC 80 bar
1"	48-87098-HP	IC 80 bar

**Face cutting holder**

25	48-87101
1"	48-87102

**Face cutting holder, HP-IC**

25	48-87101-HP	IC 80 bar
1"	48-87102-HP	IC 80 bar

**Combination toolholder, LF=70**

$\phi 32$	48-106897	IC 80 bar
$\phi 40$	48-87103	IC 80 bar
$\phi 1 1/4"$	48-106872	IC 80 bar
$\phi 1 1/2"$	48-87104	IC 80 bar

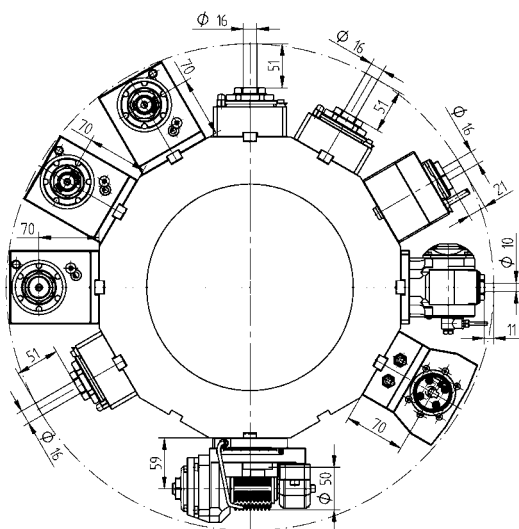
Static Toolholders - Enhanced Program

**Cut-off holder, adjustable**

SH 32	48-103287
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**Cut-off holder, adjustable, HP-IC**

SH 32	48-110160R	IC 80 bar
SH 32	48-110160L	IC 80 bar



Driven Toolholders - QuickFlex®

**Straight drill/milling unit**

ER-25 QF	420125015-55	1:1	EC
	0067725000		
ER-25 QF	420125016-55	1:1	IC 80 bar
	0067725000		

**Right angle drill/milling unit, LF=70**

ER-25 QF	420525015-55	1:1	EC
	0067725000		
ER-25 QF	420525016-55	1:1	IC 80 bar
	0067725000		

Driven Toolholders - Enhanced Program

**Straight drill/milling unit**

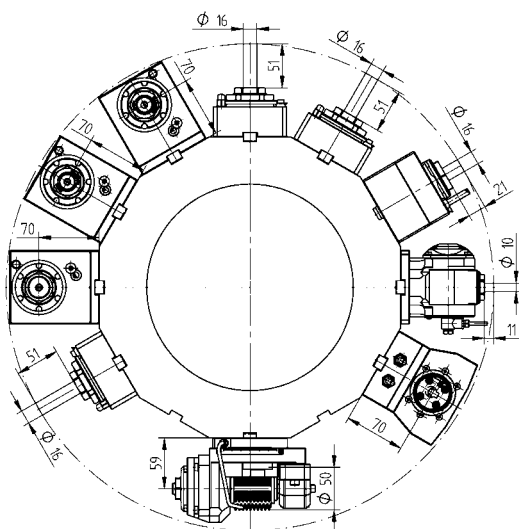
ER 32	410120010-55	1:1	EC
	0067725000		
ER 32	410120011-55	1:1	IC 80 bar
	0067725000		

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

Ø 22	410222004-55	1:1	EC
	00675000483		
Ø 3/4"	410219002-55	1:1	EC
	00675000483		

**Straight offset drill/milling unit**

ER 25	410116029-55	1:1	EC
	00675000932		
ER 25	410116030-55	1:1	IC 80 bar
	00675000932		
ER 20	410113009-55	1:2	EC
	00675000939		
ER 20	410113010-55	1:2	IC 80 bar
	00675000939		
ER 16	410410004-55	1:3	EC
	00675000937		
ER 16	410410005-55	1:3	IC 80 bar
	00675000937		



Driven Toolholders - Enhanced Program

**Right angle drill/milling unit, LF=70**

ER 32	410520033-55	1:1	EC
	0067725000		
ER 32	410520034-55	1:1	IC 80 bar
	0067725000		
ER-20 QF	420520012-55	1:2	EC
	0067720001		
ER-20 QF	420520013-55	1:2	IC 80 bar
	0067720001		
ER 16	410810016-55	1:3	EC
	00675000841		
ER 16	410810017-55	1:3	IC 80 bar
	00675000841		
ER-25 QF	420525030-55	2:1	EC
	0067725000		
ER-25 QF	420525031-55	2:1	IC 80 bar
	0067725000		

**Right angle milling unit with combination mill arbor DIN 6358, LF=70**

Ø 22	410622010-55	1:1	EC
	00675000483		
Ø 3/4"	410619005-55	1:1	EC
	00675000483		

**Adjustable angle drill/milling unit**

ER 16	411010005-55	1:1	EC
	00675000902		
ER 16	411010006-55	1:1	IC 80 bar
	00675000902		
ER 11	411007007-55	1:2	EC
	00675000914		
ER 11	411007008-55	1:2	IC 80 bar
	00675000914		

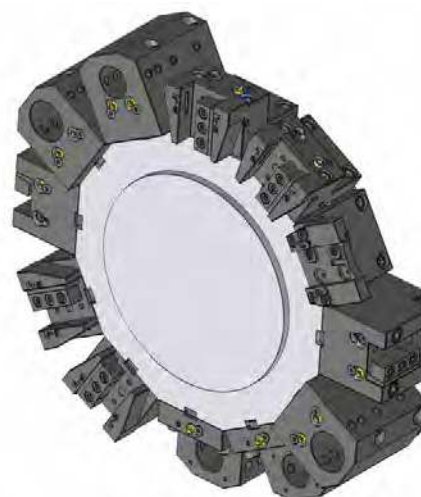
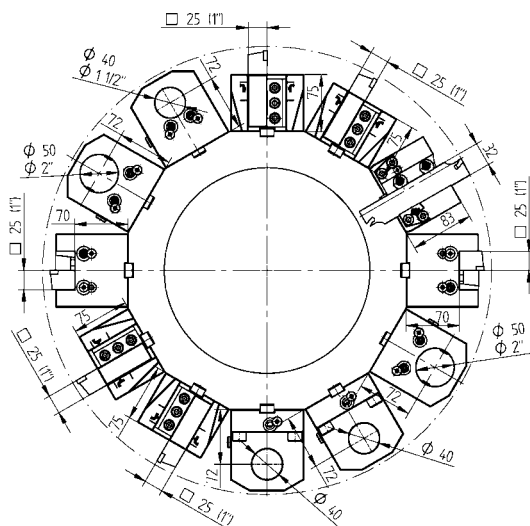
Driven Toolholders - Enhanced Program

**Gear hobbing unit**

Type 15-2	410900002-55	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		

**Broaching unit for ID and OD**

TN765050	414532001-55	1:1	EC
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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

**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

**Cover plate**

48-87089

Static Toolholders - Enhanced Program

**Cut-off holder, adjustable**

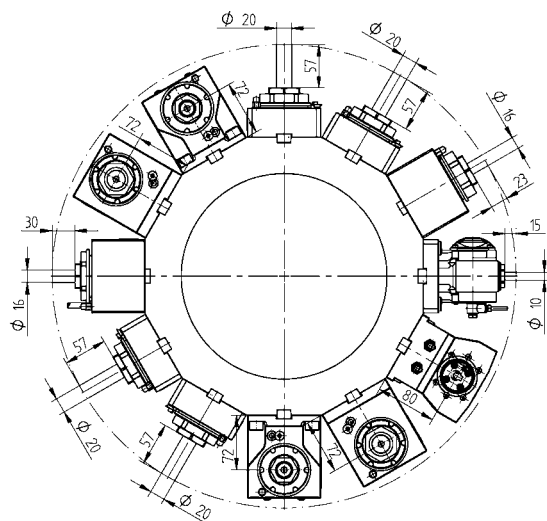
SH 32	48-99060
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**Cut-off holder, adjustable, HP-IC**

SH 32	48-102256R	IC 80 bar
SH 32	48-102256L	IC 80 bar

**Combination toolholder, back set**

Ø 40	48-102037	IC 80 bar
	241140020 ER32	
	241140026 ER40	



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

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

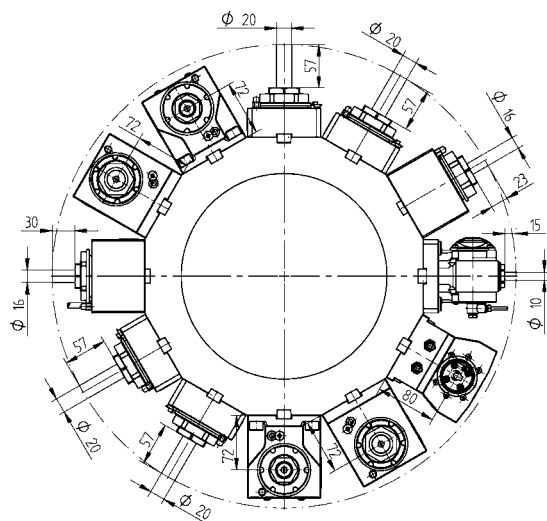
ER-25 QF 420125010-65 1:2 EC
0067725001

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**

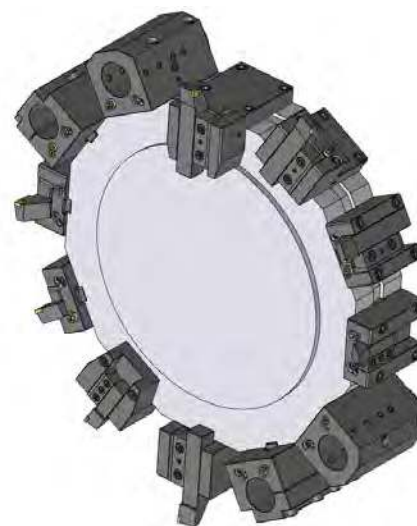
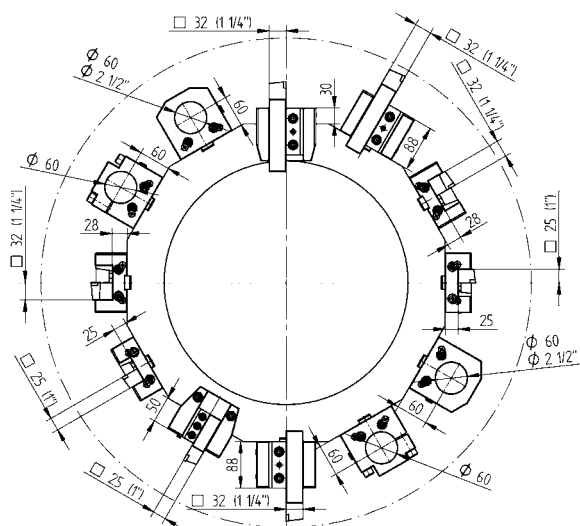
Ø 22	410622001-65	1:1	EC
	00675000483		
1"	410625001-65	1:1	EC
	00675000483		

**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		

**Broaching unit for ID and OD**

TN765050	414532001-65	1:1	EC
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Static Toolholders - Standard Program

**OD cutting holder**

25	48-96421
1"	48-96422

**OD cutting holder**

32	48-112326R
32	48-112326L
1 1/4"	48-112327R
1 1/4"	48-112327L

**OD cutting holder, long**

32	48-96334
1 1/4"	48-96335

**Face cutting holder**

25	48-96355
1"	48-96357

**Face cutting holder**

32	48-112328R
32	48-112328L
1 1/4"	48-112329R
1 1/4"	48-112329L

**Combination toolholder, LF=60**

Ø 60	48-96759	IC 80 bar
Ø 2 1/2"	48-96760	IC 80 bar

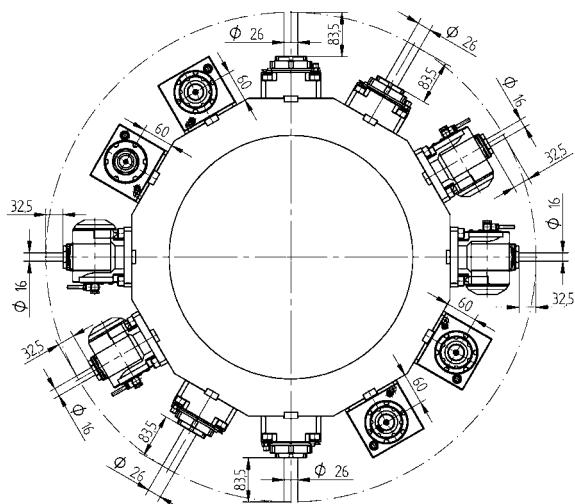
**Boring bar holder, with slot**

Ø 60	48-97849
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Static Toolholders - Enhanced Program

**VDI adapter, right, LF=60**

VDI 50	48-97345
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Driven Toolholders - QuickFlex®

**OD drill/milling unit**

ER-40 QF 420140015-75 1:1 EC
0067740000

ER-40 QF 420140016-75 1:1 IC 80 bar
0067740000

**Face drill/milling unit, LF=60**

ER-40 QF 420540015-75 1:1 EC
0067740000

ER-40 QF 420540016-75 1:1 IC 80 bar
0067740000

Driven Toolholders - Enhanced Program

**Face drill/milling unit, LF=60**

ER-32 QF 420532010-75 1:2 EC
0067732001

ER-32 QF 420532011-75 1:2 IC 80 bar
0067732001

ER-40 QF 420540021-75 2:1 EC
0067740000

ER-40 QF 420540022-75 2:1 IC 80 bar
0067740000

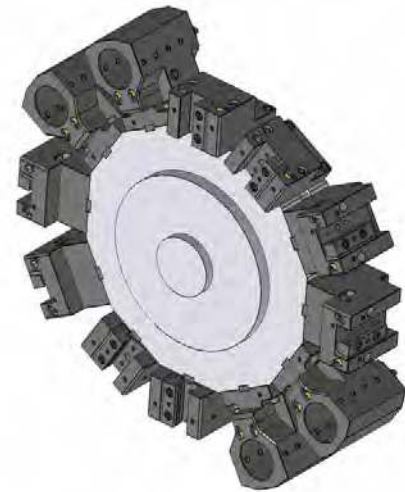
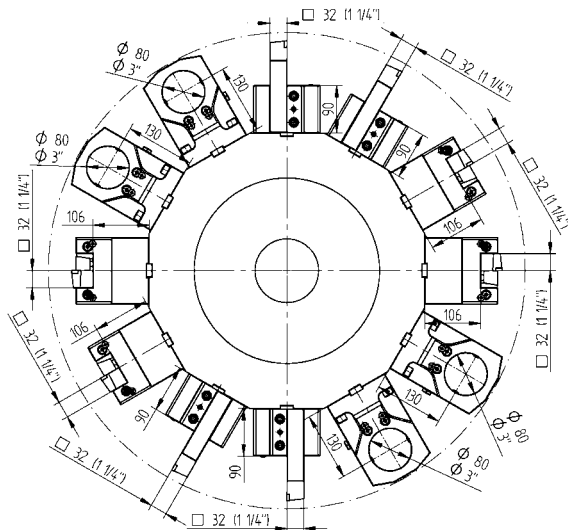
**Adjustable angle drill/milling unit**

ER 25 411016000-75 1:1 EC
00675000934

ER 25 411016001-75 1:1 IC 80 bar
00675000934

ER 16 411010002-75 1:2 EC
00675000936

ER 16 411010003-75 1:2 IC 80 bar
00675000936



Static Toolholders - Standard Program



OD cutting holder

32	48-108935
1 1/4"	48-108936



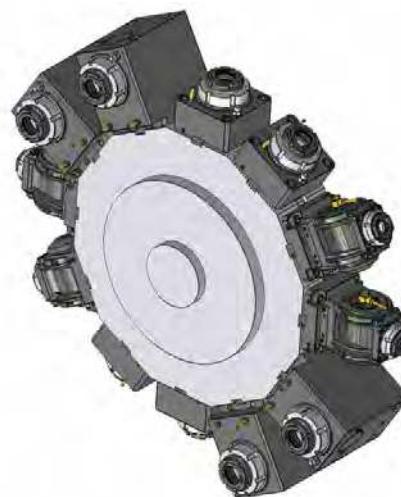
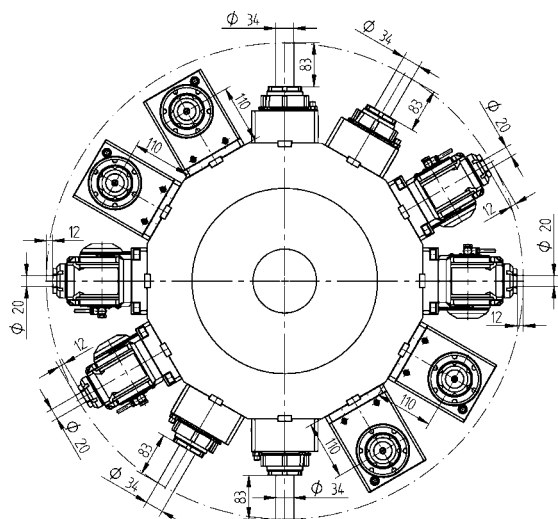
Face cutting holder

32	48-108937
1 1/4"	48-108938



Combination toolholder

Ø 80	48-108939	IC 80 bar
Ø 3"	48-108940	IC 80 bar



Driven Toolholders - QuickFlex®

**OD drill/milling unit**

ER-50 QF	420150015-85	1:1	EC
	0067750000		
ER-50 QF	420150016-85	1:1	IC 80 bar
	0067750000		

**Face drill/milling unit, LF=110**

ER-50 QF	420550017-85	1:1	EC
	0067750000		
ER-50 QF	420550018-85	1:1	IC 80 bar
	0067750000		

Driven Toolholders - Enhanced Program

**Adjustable angle drill/milling unit**

ER-32 QF	421032010-85	1:1	EC
	00675000976		
ER-32 QF	421032011-85	1:1	IC 80 bar
	00675000976		

Standard reduction sleeves - cylindrical



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 60

240060012	ø 12
240060016	ø 16
240060020	ø 20
240060025	ø 25
240060032	ø 32
240060040	ø 40
240060050	ø 50



Reduction sleeve Ø 80

240080020	ø 20
240080025	ø 25
240080032	ø 32
240080040	ø 40
240080050	ø 50
240080060	ø 60

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"



Reduction sleeve Ø 3"

2400300075	ø 3/4"
2400300100	ø 1"
2400300125	ø 1 1/4"
2400300150	ø 1 1/2"
2400300200	ø 2"
2400300250	ø 2 1/2"

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



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

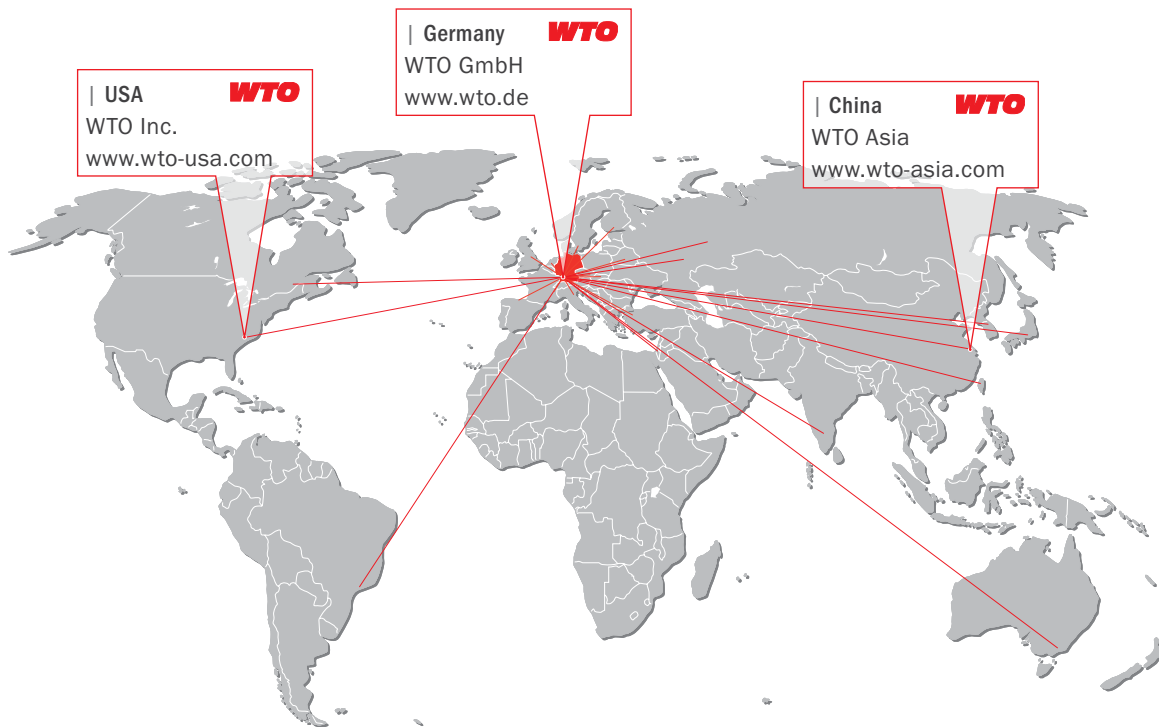


ER 40	mm	inch
191040060	ø 6	
191040080	ø 8	
191040100	ø 10	
191040120	ø 12	
191040140	ø 14	
191040160	ø 16	
191040180	ø 18	
191040200	ø 20	
191040220	ø 22	
191040250	ø 25	
191140025-in		ø 0.25
191140031-in		ø 0.313
191140038-in		ø 0.375
191140044-in		ø 0.438
191140050-in		ø 0.5
191140056-in		ø 0.563
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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