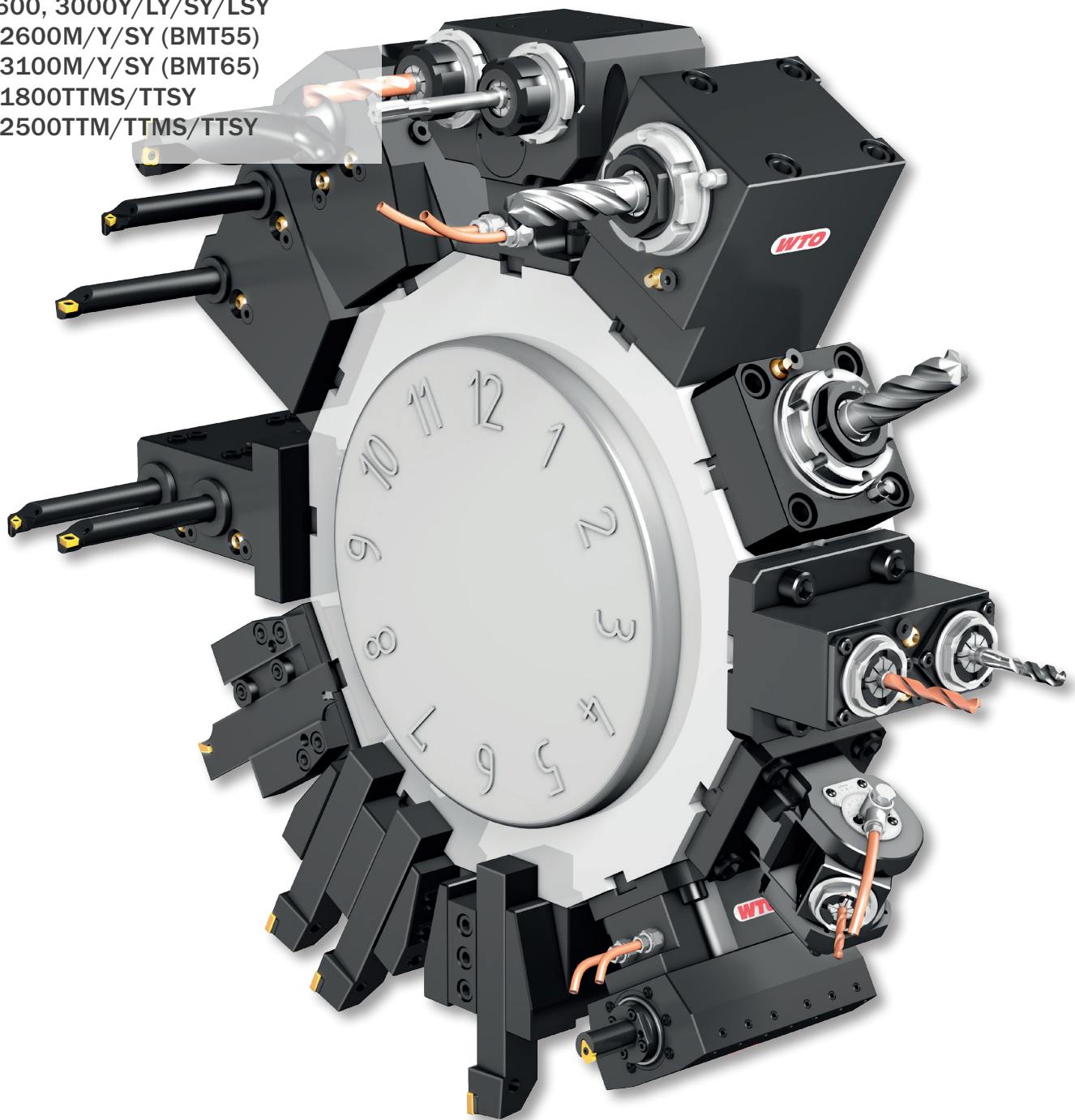


Tool Holder Program

L160, 230MA/LMA/LMSA
L300MA/MC/LMA/LMC/MSA/MSL/LMSA
L400MA/MC/LMC, L500LMA
L600, 700, 800MA/LMA
L2000, 2600, 3000Y/LY/SY/LSY
HD2200, 2600M/Y/SY (BMT55)
HD2600, 3100M/Y/SY (BMT65)
LM1600, 1800TMS/TTSY
LM2000, 2500TTM/TTMS/TTSY



QuickFlex®

The new quick change system for high performance and precision.

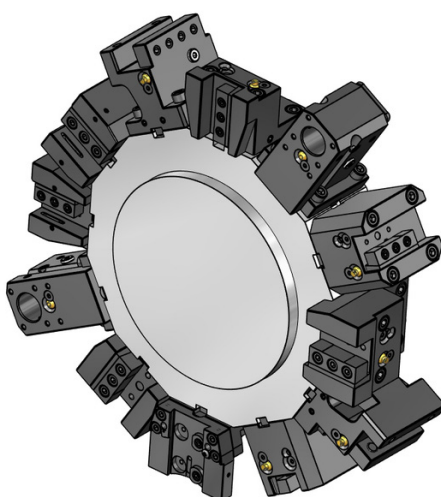
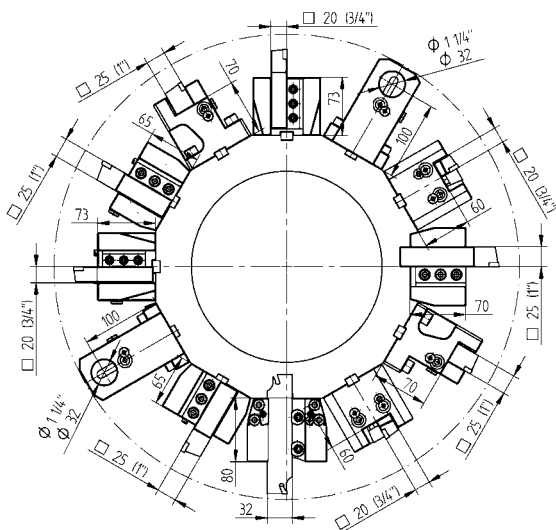
Minimal investment, maximal expandability.



Designed
for
BMT Turrets

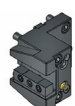
L160, 230MA/LMA/LMSA	Page	4 - 7
L300MA/MC/LMA/LMC/MSA/MSA/MSA/MSA	Page	8 - 10
L400MA/MC/LMC, L500LMA	Page	11 - 12
L600, 700, 800MA/LMA	Page	13 - 14
L2000, 2600, 3000Y/LY/SY/LSY	Page	15 - 18
HD2200, 2600M/Y/SY (BMT55)	Page	19 - 22
HD2600, 3100M/Y/SY (BMT65)	Page	23 - 26
LM1600, 1800TTMS/TTSY	Page	27 - 29
LM2000, 2500TTM/TTMS/TTSY	Page	30 - 32
Reduction sleeves	Page	33 - 34
Collets	Page	35 - 37

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

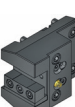
Static Toolholders - Standard Program



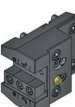
OD cutting holder
 20 48-92036
 3/4" 48-92037



OD cutting holder, HP-IC
 20 48-92036-HP IC 80 bar
 3/4" 48-92037-HP IC 80 bar



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



OD cutting holder, both sides
 20 48-92038
 3/4" 48-92039



OD cutting holder, both sides, HP-IC
 20 48-92038-HP IC 80 bar
 3/4" 48-92039-HP IC 80 bar



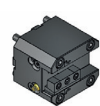
OD cutting holder, both sides
 25 48-87099
 1" 48-87100



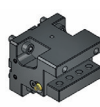
OD cutting holder, both sides, HP-IC
 25 48-87099-HP IC 80 bar
 1" 48-87100-HP IC 80 bar



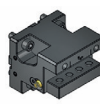
Face cutting holder
 20 48-92045
 3/4" 48-92046



Face cutting holder, HP-IC
 20 48-92045-HP IC 80 bar
 3/4" 48-92046-HP IC 80 bar



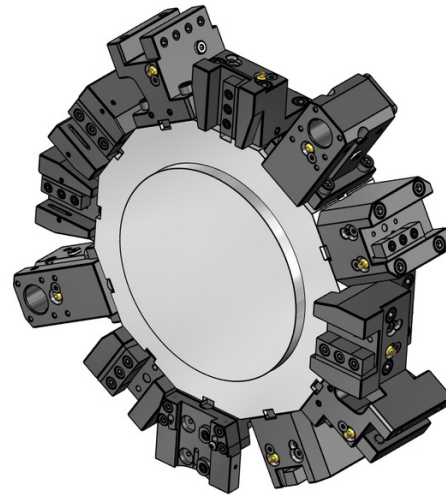
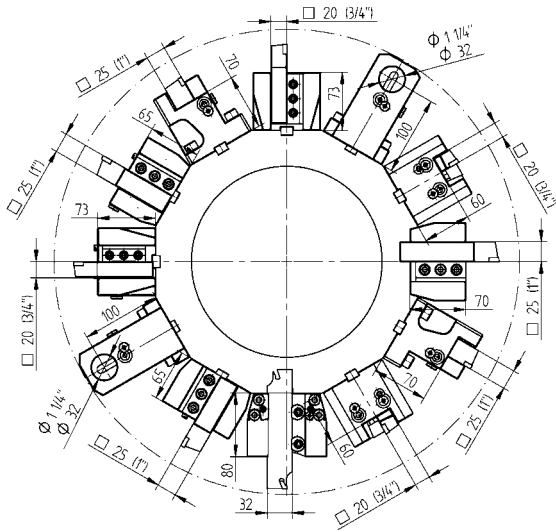
Face cutting holder
 25 48-87101
 1" 48-87102



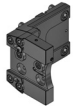
Face cutting holder, HP-IC
 25 48-87101-HP IC 80 bar
 1" 48-87102-HP IC 80 bar



Combination toolholder, universal, LF=100
 Ø 32 48-92043 IC 80 bar
 241132016 ER25
 241132020 ER32
 Ø 1 1/4" 48-92044 IC 80 bar
 2411125020 ER32



Static Toolholders - Enhanced Program



Cut-off holder, adjustable

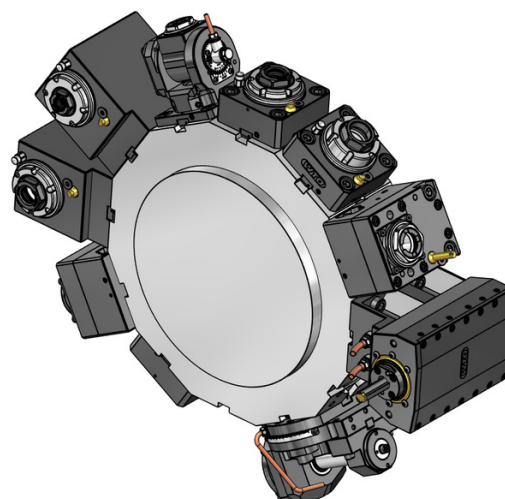
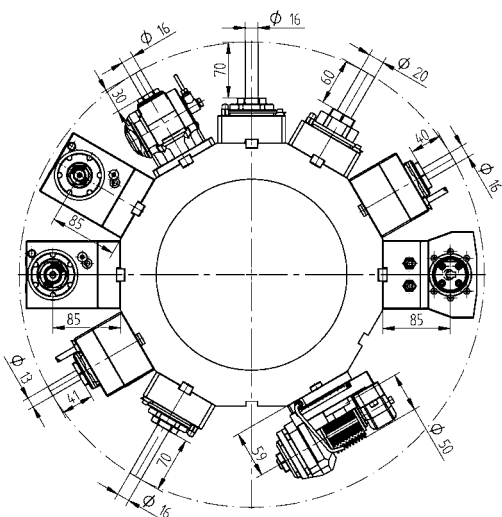
SH 32 48-103287




Cut-off holder, adjustable, HP-IC




SH 32 48-110160R IC 80 bar




SH 32 48-110160L IC 80 bar




Driven Toolholders - QuickFlex®


- 



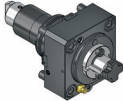
Straight drill/milling unit
ER-25 QF 420125015-55 1:1 EC
 0067725000
ER-25 QF 420125016-55 1:1 IC 80 bar
 0067725000
- 



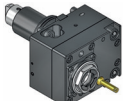
Right angle drill/milling unit, LF=85
ER-25 QF 420525018-55 1:1 EC
 0067725000
ER-25 QF 420525019-55 1:1 IC 80 bar
 0067725000
- 







Right angle drill/milling unit, both sides, LF=85
ER-25 QF 420525020-55 1:1 EC
 0067725000

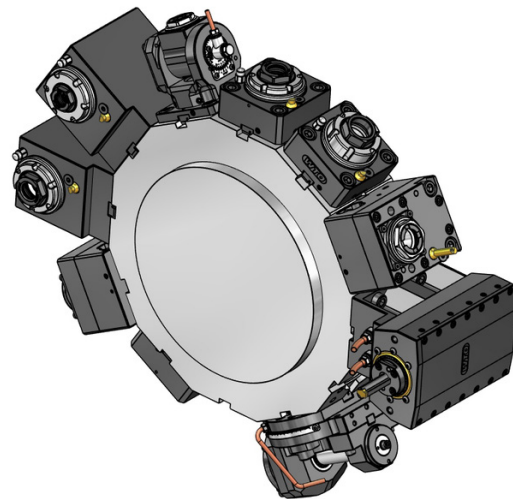
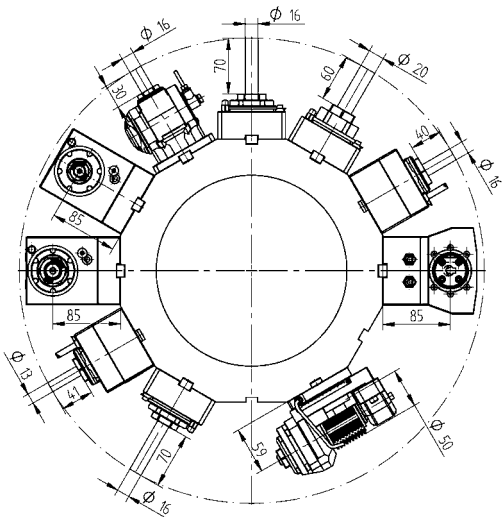
Driven Toolholders - Enhanced Program

- 

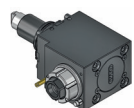
Straight drill/milling unit
ER 32 410120010-55 1:1 EC
 0067725000
ER 32 410120011-55 1:1 IC 80 bar
 0067725000
- 

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



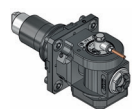
Right angle drill/milling unit, LF=85

ER 32	410520030-55	1:1	EC
	0067725000		
ER 32	410520031-55	1:1	IC 80 bar
	0067725000		
ER-20 QF	420520014-55	1:2	EC
	0067720001		
ER-20 QF	420520015-55	1:2	IC 80 bar
	0067720001		
ER 16	410810020-55	1:3	EC
	00675000841		
ER 16	410810021-55	1:3	IC 80 bar
	00675000841		
ER-25 QF	420525032-55	2:1	EC
	0067725000		
ER-25 QF	420525033-55	2:1	IC 80 bar
	0067725000		



Right angle milling unit with combination mill arbor DIN 6358, LF=85

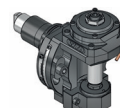
Ø 22	410622011-55	1:1	EC
	00675000483		
Ø 3/4"	410619006-55	1:1	EC
	00675000483		



Adjustable angle drill/milling unit

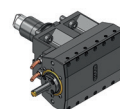
ER 16	411010005-55	1:1	EC
	00675000902		
ER 16	411010006-55	1:1	IC 80 bar
	00675000902		
ER 11	411007007-55	1:2	EC
	00675000914		
ER 11	411007008-55	1:2	IC 80 bar
	00675000914		

Driven Toolholders - Enhanced Program



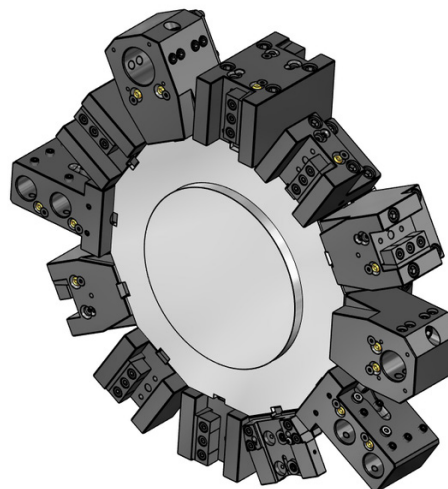
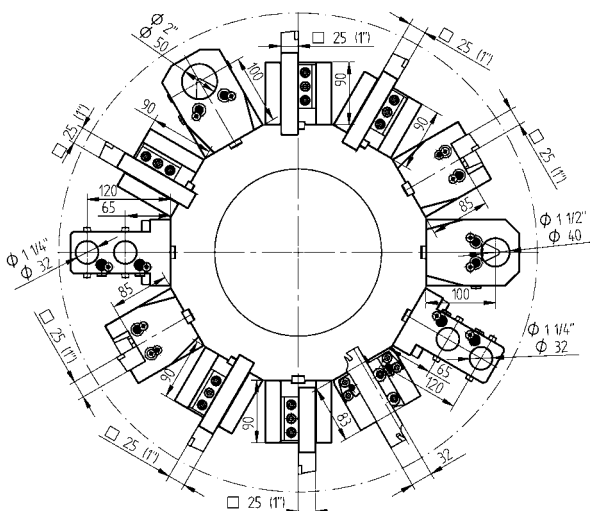
Gear hobbing unit

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"		
	110587		



Broaching unit for ID and OD

TN765050	414532000-55	1:1	EC
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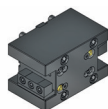
Static Toolholders - Standard Program

Static Toolholders - Enhanced Program



OD cutting holder, long

- 25** 48-86711
- 1"** 48-86712



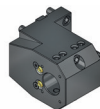
OD cutting holder, both sides, long

- 25** 48-84523
- 1"** 48-86718





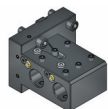
Face cutting holder, long

- 25** 48-92958
- 1"** 48-92959



Combination toolholder, LF=100

- Ø 40** 48-92397 IC 80 bar
-  241140020 ER32
-  241140026 ER40
- Ø 50** 48-92467 IC 80 bar
- Ø 1 1/2"** 48-92468 IC 80 bar
-  2411150020 ER32
- Ø 2"** 48-92469 IC 80 bar



Boring bar holder, double

- Ø 32** 48-84524
- Ø 1 1/4"** 48-86905



Cover plate

- 48-87089



Cut-off holder, adjustable

- SH 32** 48-99060



Cut-off holder, adjustable, long

- SH 32** 48-100084



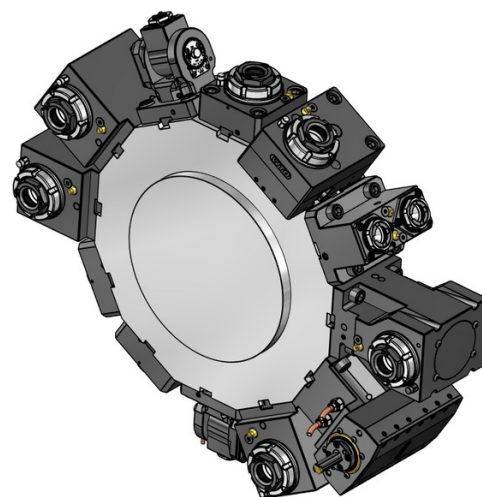
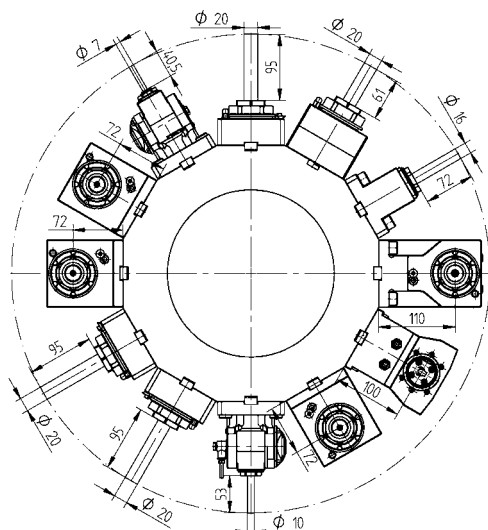
Cut-off holder, adjustable, HP-IC

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




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


- SH 32** 48-100082R IC 80 bar
- SH 32** 48-100082L IC 80 bar



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=110
ER-32 QF 420532087-65 1:1 EC
 0067732000

Driven Toolholders - Enhanced Program

- 

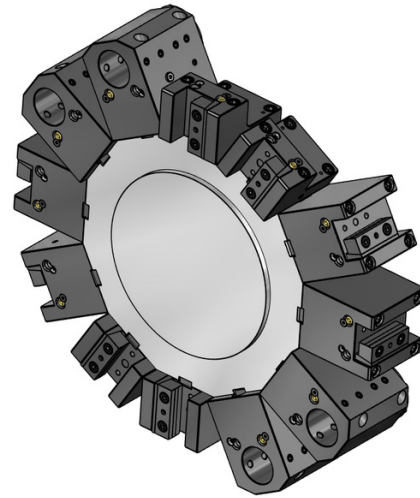
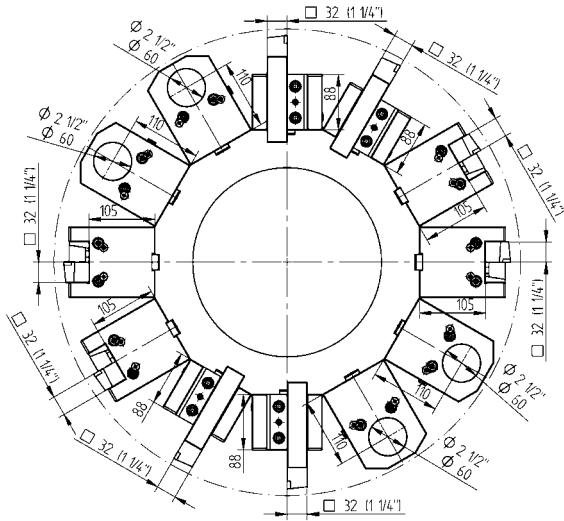
Straight drill/milling unit
ER 40 410126001-65 1:1 EC
 00675000079
- 

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
- 

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



Static Toolholders - Standard Program



OD cutting holder, long

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



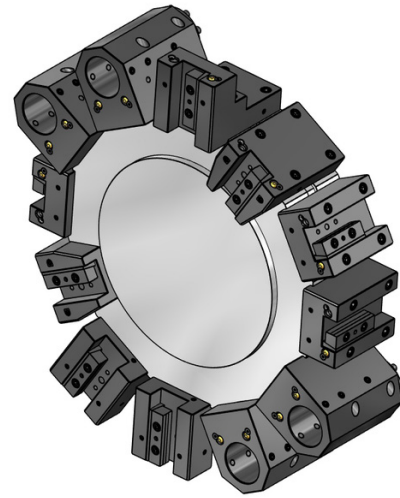
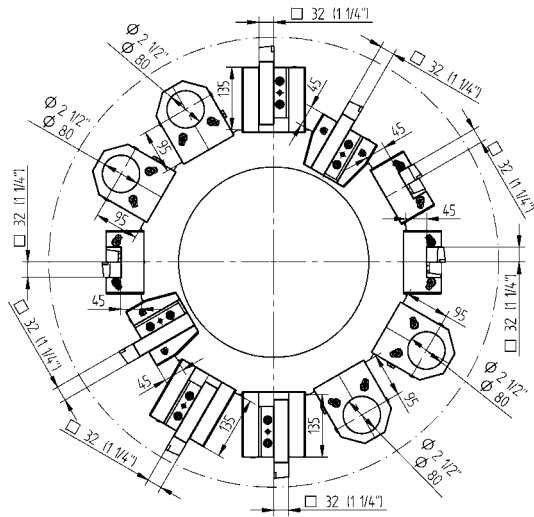
Face cutting holder, long

- 32** 48-113419
- 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 - 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



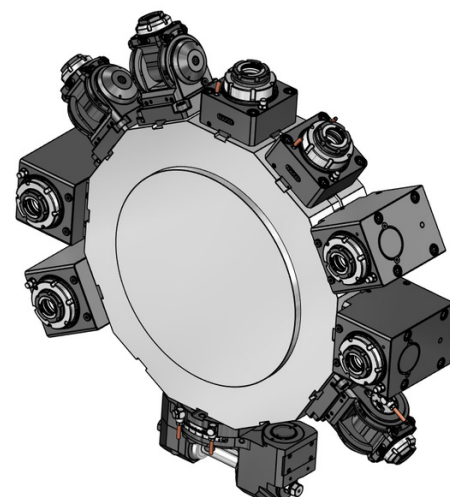
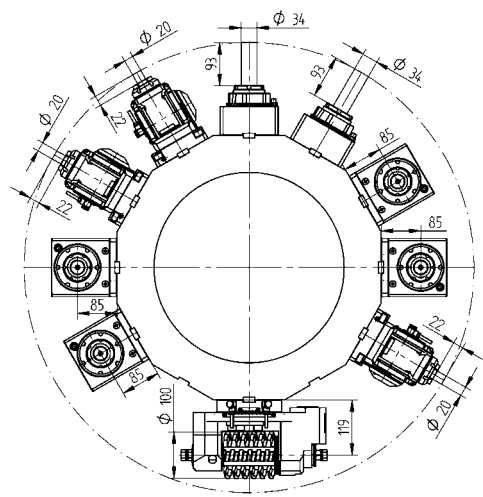
Face cutting holder

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



Combination toolholder

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



Driven Toolholders - QuickFlex®

Driven Toolholders - Enhanced Program



- 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=85**
- ER-40 QF** 420540015-85 1:2 EC
0067740001
 - ER-40 QF** 420540016-85 1:2 IC 80 bar
0067740001



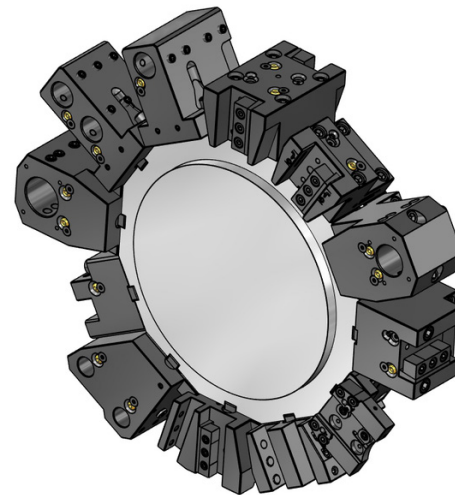
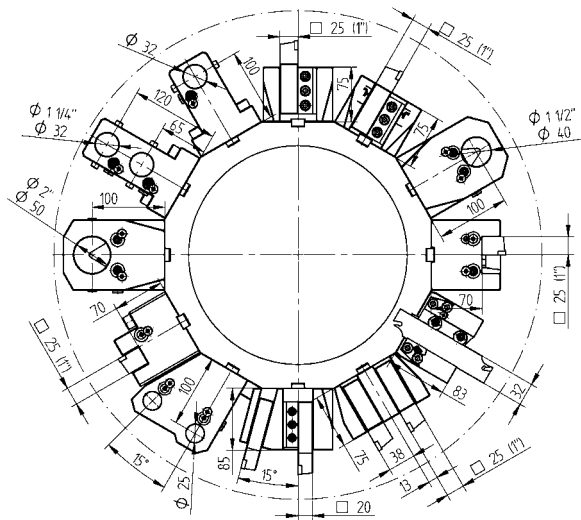
- Face drill/milling unit, LF=85**
- ER-50 QF** 420550015-85 1:1 EC
0067750000
 - ER-50 QF** 420550016-85 1:1 IC 80 bar
0067750000



- 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

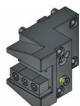


- Gear hobbing unit**
- Type C5-1** 410900000-85 2:1 EC
00675001008
 - 160022C51 Ø 22
 - 160027C51 Ø 27
 - 160032C51 Ø 32
 - 160019C51 Ø 3/4"
 - 160025C51 Ø 1"
 - 160031C51 Ø 1 1/4"



Static Toolholders - Standard Program

Static Toolholders - Standard Program



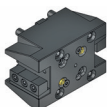
OD cutting holder

25 48-92428
1" 48-92466



OD cutting holder, HP-IC

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



OD cutting holder, both sides

25 48-92438
1" 48-92472



OD cutting holder, both sides, HP-IC

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



Face cutting holder

25 48-86719
1" 48-86720



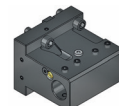
Face cutting holder, HP-IC

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



Combination toolholder, LF=100

Ø 40 48-92397 IC 80 bar
241140020 ER32
241140026 ER40
Ø 50 48-92467 IC 80 bar
Ø 1 1/2" 48-92468 IC 80 bar
2411150020 ER32
Ø 2" 48-92469 IC 80 bar



Boring bar holder, both sides

Ø 32 48-101033
Ø 1 1/4" 48-113514



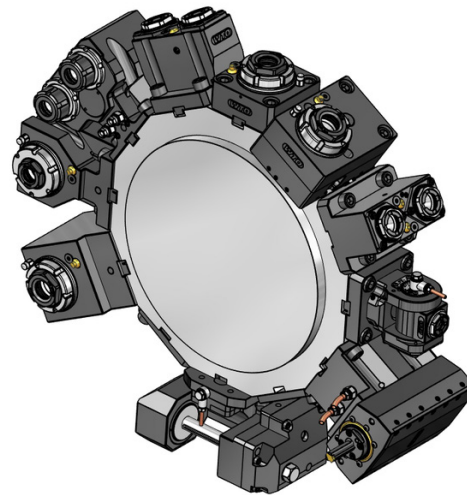
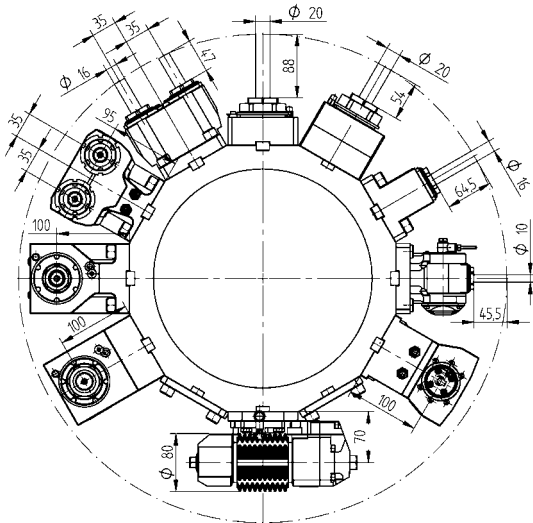
Boring bar holder, double

Ø 32 48-84524
Ø 1 1/4" 48-86905



Cover plate

48-87089



Driven Toolholders - Enhanced Program

Right angle milling unit with combination mill arbor DIN 6358, LF=100

	Ø 22	410622002-65	1:1	EC
		00675000483		
	Ø 1"	410625002-65	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		

Gear hobbing unit

	Type 16-1	411500003-65	1:1	EC
	Type 16-1	411500002-65	2:1	EC
		00675000927		
		160016161 Ø 16		
		160022161 Ø 22		
		160027161 Ø 27		
		160015161 Ø 5/8"		
		160019161 Ø 3/4"		
		160025161 Ø 1"		
		160031161 Ø 1 1/4"		
		110587		

Straight drill/milling unit, both sides

	ER 25	413002001-65	1:1	EC
		00675000907		

Driven Toolholders - Enhanced Program

Straight drill/milling unit, double, Y axis

	ER 25	413002004-65	1:1	EC
		00675000907		

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

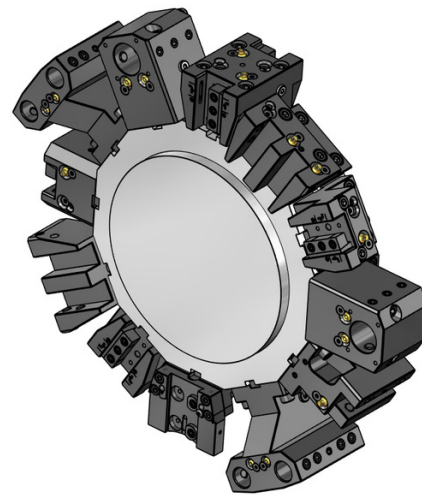
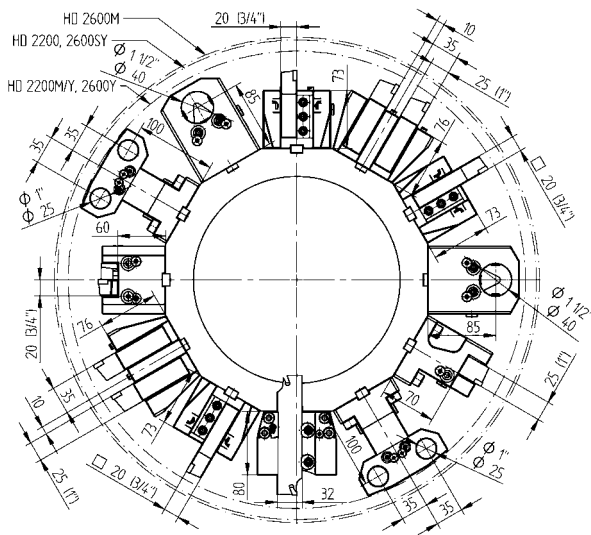
	ER 25	413502006-65	1:1	EC
		00675000915		
	ER 25	413502007-65	1:1	IC 80 bar
		00675000915		

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

	ER 25	413502008-65	1:1	EC
		00675000915		

Broaching unit for ID and OD

	TN765050	414532000-65	1:1	EC



Static Toolholders - Standard Program

Static Toolholders - Standard Program



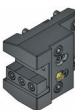
OD cutting holder

20 48-92036
3/4" 48-92037



OD cutting holder, HP-IC

20 48-92036-HP IC 80 bar
3/4" 48-92037-HP IC 80 bar



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



OD cutting holder, both sides

20 48-92038
3/4" 48-92039



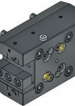
OD cutting holder, both sides, HP-IC

20 48-92038-HP IC 80 bar
3/4" 48-92039-HP IC 80 bar



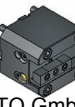
OD cutting holder, both sides

25 48-87099
1" 48-87100



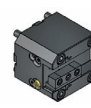
OD cutting holder, both sides, HP-IC

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



Face cutting holder

20 48-92045
3/4" 48-92046



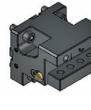
Face cutting holder, HP-IC

20 48-92045-HP IC 80 bar
3/4" 48-92046-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



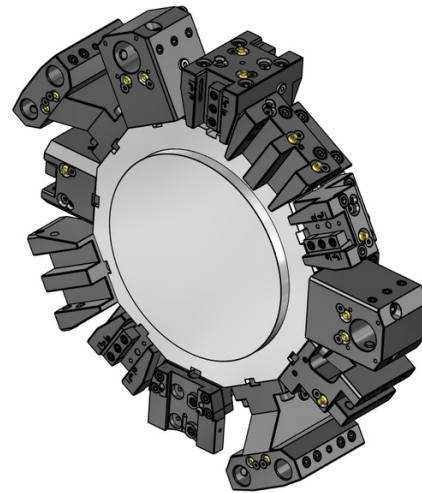
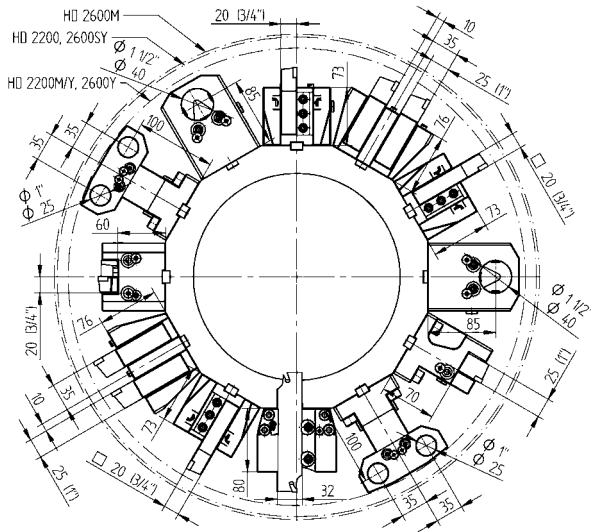
Combination toolholder, universal, LF=85

$\phi 40$ 48-96790 IC 80 bar
241140020 ER32
 $\phi 1 1/2"$ 48-96791 IC 80 bar



Cover plate

48-87111

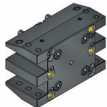


Static Toolholders - Enhanced Program



OD cutting holder, double, Y axis

25(1") 48-87140



OD cutting holder, both sides, double, Y axis

25(1") 48-87141



Cut-off holder, adjustable

SH 32 48-103287



Cut-off holder, adjustable, HP-IC

SH 32 48-110160R IC 80 bar

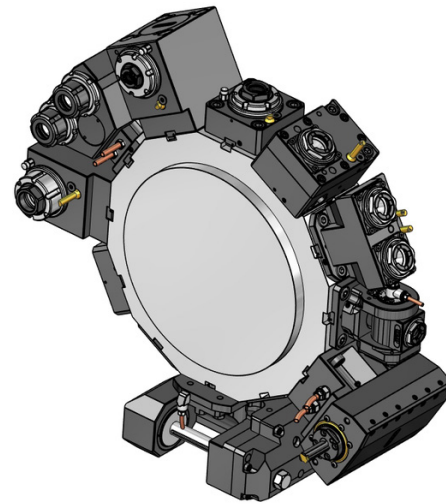
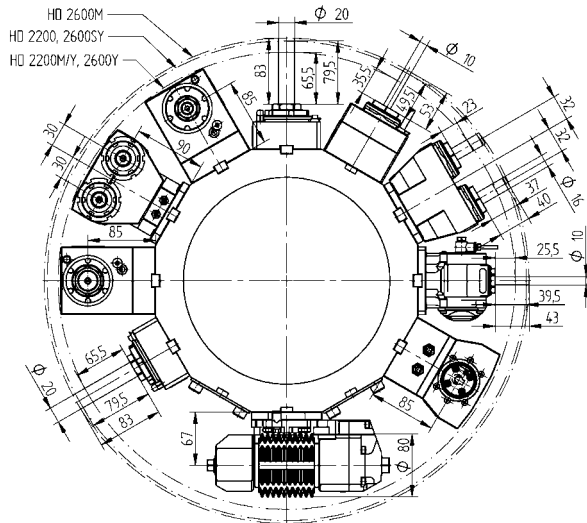
SH 32 48-110160L IC 80 bar



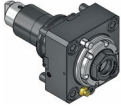
Boring bar holder, both sides, double, Y axis



$\phi 25$ 48-87147




$\phi 1$ " 48-87148



Driven Toolholders - QuickFlex®


- 



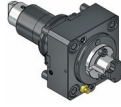
Straight drill/milling unit
ER-25 QF 420125015-55 1:1 EC
 0067725000
ER-25 QF 420125016-55 1:1 IC 80 bar
 0067725000
- 



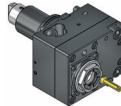
Right angle drill/milling unit, LF=85
ER-25 QF 420525018-55 1:1 EC
 0067725000
ER-25 QF 420525019-55 1:1 IC 80 bar
 0067725000
- 







Right angle drill/milling unit, both sides, LF=85
ER-25 QF 420525020-55 1:1 EC
 0067725000

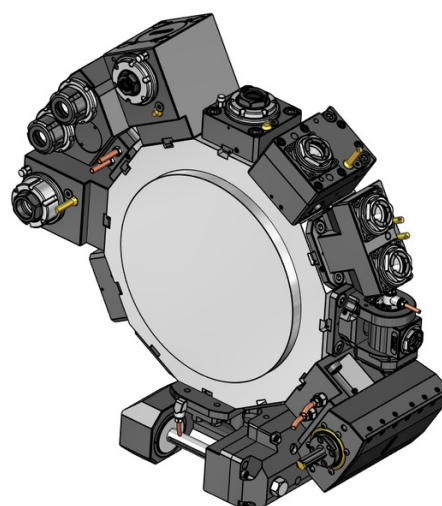
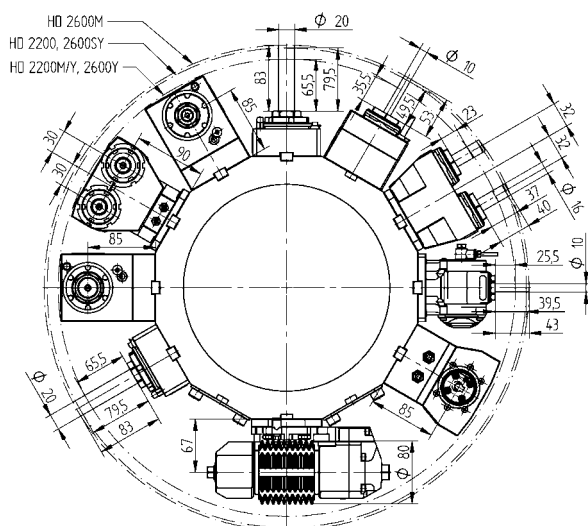
Driven Toolholders - Enhanced Program

- 

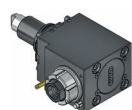
Straight drill/milling unit
ER 32 410120010-55 1:1 EC
 0067725000
ER 32 410120011-55 1:1 IC 80 bar
 0067725000
- 

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



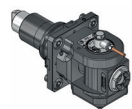
Driven Toolholders - Enhanced Program



Right angle drill/milling unit, LF=85				
ER 32	410520030-55	1:1	EC	
	0067725000			
ER 32	410520031-55	1:1	IC 80 bar	
	0067725000			
ER-20 QF	420520014-55	1:2	EC	
	0067720001			
ER-20 QF	420520015-55	1:2	IC 80 bar	
	0067720001			
ER 16	410810020-55	1:3	EC	
	00675000841			
ER 16	410810021-55	1:3	IC 80 bar	
	00675000841			
ER-25 QF	420525032-55	2:1	EC	
	0067725000			
ER-25 QF	420525033-55	2:1	IC 80 bar	
	0067725000			

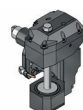


Right angle milling unit with combination mill arbor DIN 6358, LF=85				
Ø 22	410622011-55	1:1	EC	
	00675000483			
Ø 3/4"	410619006-55	1:1	EC	
	00675000483			



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



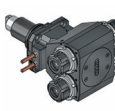
Gear hobbing unit				
Type 16-1	411500002-55	1:1	EC	
Type 16-1	411500001-55	2:1	EC	
	00675000927			
	160016161 Ø 16			
	160022161 Ø 22			
	160027161 Ø 27			
	160015161 Ø 5/8"			
	160019161 Ø 3/4"			
	160025161 Ø 1"			
	110587			



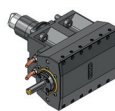
Straight drill/milling unit, double, Y axis				
ER 25	413002004-55	1:1	EC	
	00675000970			
ER 25	413002003-55	1:1	IC 80 bar	
	00675000970			



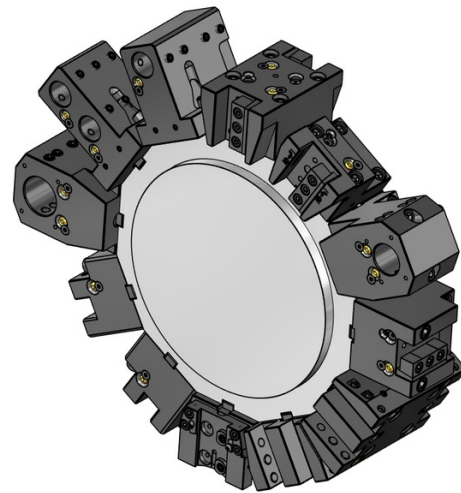
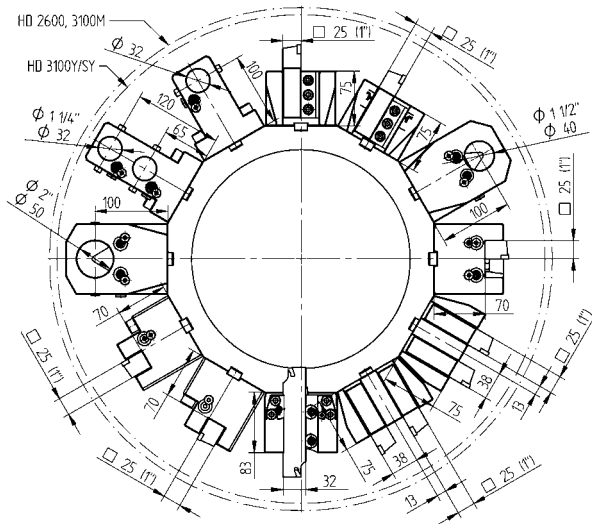
2-spindle - Right angle drill/milling unit, Y axis				
ER 25	413502007-55	1:1	EC	
	00675000915			
ER 25	413502008-55	1:1	IC 80 bar	
	00675000915			



2-spindle - Right angle drill/milling unit, both sides, Y axis				
ER 25	413502006-55	1:1	EC	
	00675000915			

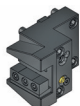


Broaching unit for ID and OD				
TN765050	414532000-55	1:1	EC	



Static Toolholders - Standard Program

Static Toolholders - Standard Program



OD cutting holder

25 48-92428
1" 48-92466



OD cutting holder, HP-IC

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



OD cutting holder, both sides

25 48-92438
1" 48-92472



OD cutting holder, both sides, HP-IC

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



Face cutting holder

25 48-86719
1" 48-86720



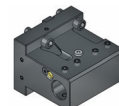
Face cutting holder, HP-IC

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



Combination toolholder, LF=100

Ø 40 48-92397 IC 80 bar
241140020 ER32
241140026 ER40
Ø 50 48-92467 IC 80 bar
Ø 1 1/2" 48-92468 IC 80 bar
2411150020 ER32
Ø 2" 48-92469 IC 80 bar



Boring bar holder, both sides

Ø 32 48-101033
Ø 1 1/4" 48-113514



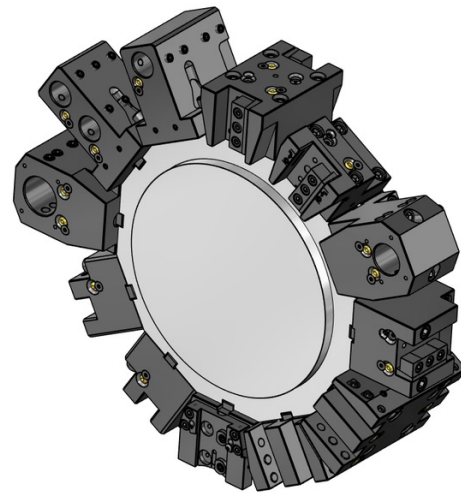
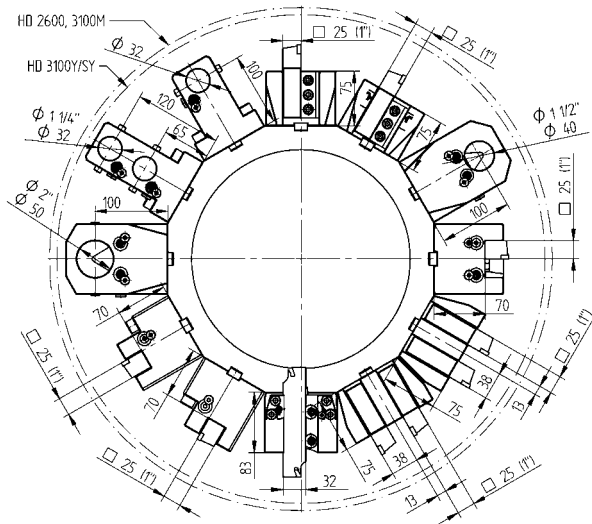
Boring bar holder, double

Ø 32 48-84524
Ø 1 1/4" 48-86905



Cover plate

48-87089



Static Toolholders - Enhanced Program



OD cutting holder, double, Y axis
25(1") 48-86103



OD cutting holder, both sides, double, Y axis
25(1") 48-86150



Cut-off holder, adjustable
SH 32 48-99060



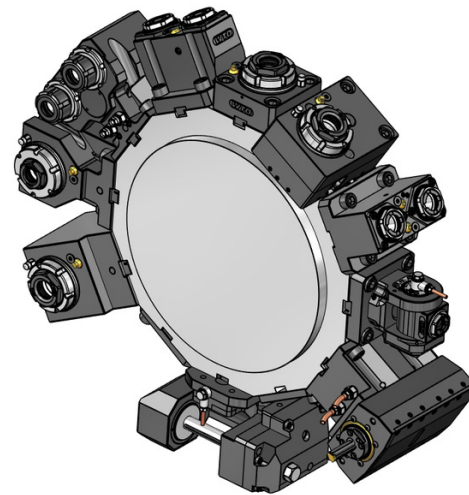
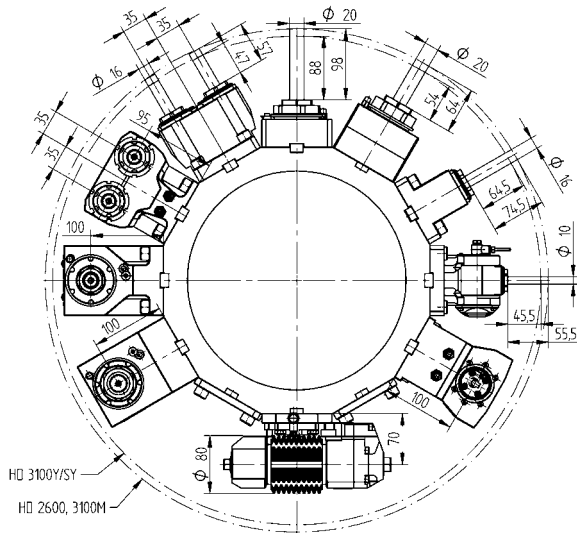
Cut-off holder, adjustable, long
SH 32 48-100084



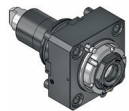
Cut-off holder, adjustable, HP-IC
SH 32 48-102256R IC 80 bar
SH 32 48-102256L IC 80 bar



Cut-off holder, adjustable, long, HP-IC
SH 32 48-100082R IC 80 bar
SH 32 48-100082L IC 80 bar



Driven Toolholders - QuickFlex®



Straight drill/milling unit

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

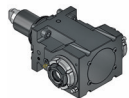
ER-32 QF 420132016-65 1:1 IC 80 bar
0067732000



Right angle drill/milling unit, LF=100

ER-32 QF 420532018-65 1:1 EC
0067732000

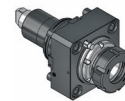
ER-32 QF 420532019-65 1:1 IC 80 bar
0067732000



Right angle drill/milling unit, both sides, LF=100

ER-32 QF 420532020-65 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



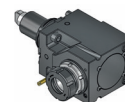
Straight offset drill/milling unit

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

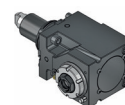
ER-25 QF 420125011-65 1:2 IC 80 bar
0067725001



Right angle drill/milling unit, LF=100

ER 40 410526007-65 1:1 EC
00675000079

ER 40 410526008-65 1:1 IC 80 bar
00675000079



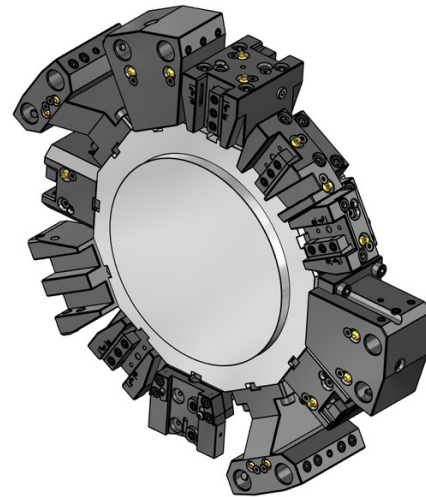
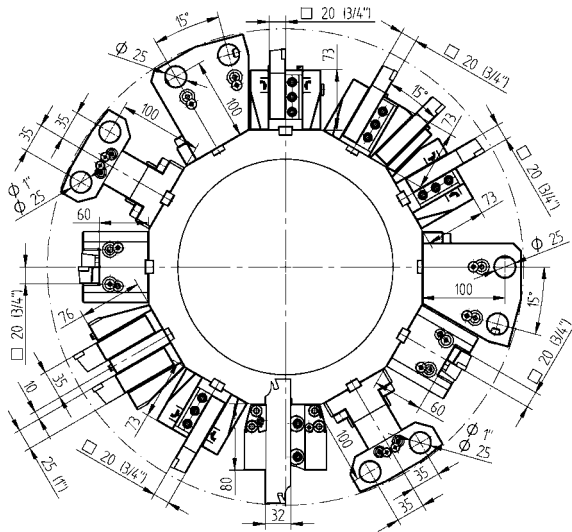
Right angle drill/milling unit, LF=100

ER-25 QF 420525012-65 1:2 EC
0067725001

ER-25 QF 420525013-65 1:2 IC 80 bar
0067725001


ER-32 QF 420532029-65 2:1 EC
0067732000


ER-32 QF 420532030-65 2:1 IC 80 bar
0067732000

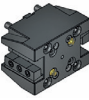



Static Toolholders - Standard Program


Static Toolholders - Enhanced Program


- 


OD cutting holder
 20 48-92036
 3/4" 48-92037
- 




OD cutting holder, HP-IC
 20 48-92036-HP IC 80 bar
 3/4" 48-92037-HP IC 80 bar
- 

OD cutting holder, both sides
 20 48-92038
 3/4" 48-92039
- 

OD cutting holder, both sides, HP-IC
 20 48-92038-HP IC 80 bar
 3/4" 48-92039-HP IC 80 bar
- 

Face cutting holder
 20 48-92045
 3/4" 48-92046
- 

Face cutting holder, HP-IC
 20 48-92045-HP IC 80 bar
 3/4" 48-92046-HP IC 80 bar
- 

Combination toolholder, universal, LF=95
 Ø 32 48-109277 IC 80 bar
  241132020 ER32
  241132016 ER25
 Ø 1 1/4" 48-109278 IC 80 bar
  2411125020 ER32

- 

OD cutting holder, double, Y axis
 25(1") 48-87140
- 

OD cutting holder, double, 24 station
 20 48-87674
- 

OD cutting holder, both sides, double, Y axis
 25(1") 48-87141
- 

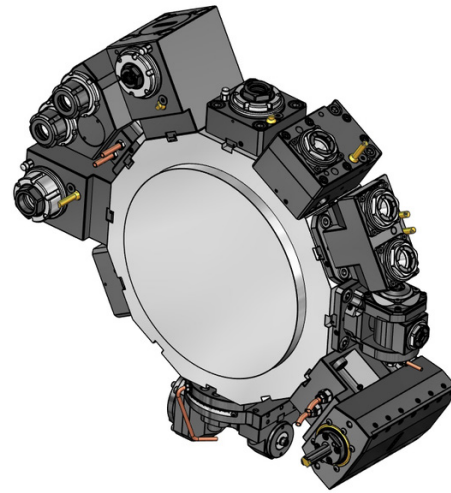
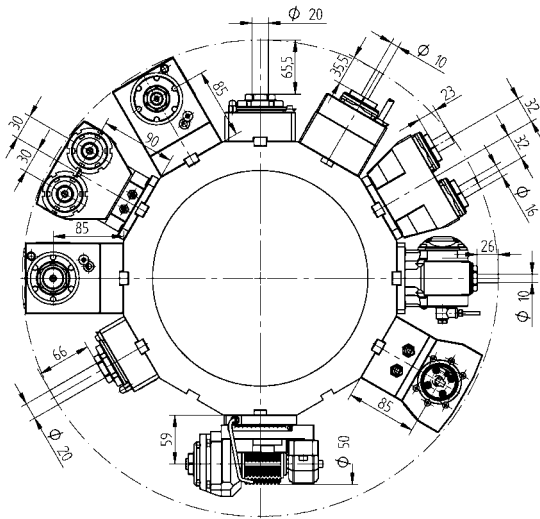
OD cutting holder, both sides, double, 24 station
 20 48-92980
- 

Cut-off holder, adjustable
 SH 32 48-103287
- 

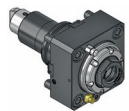
Cut-off holder, adjustable, HP-IC
 SH 32 48-110160R IC 80 bar
 SH 32 48-110160L IC 80 bar
- 

Boring bar holder, both sides, double, Y axis
 Ø 25 48-87147
 Ø 1" 48-87148
- 

Boring bar holder, double, 24 station
 Ø 25 48-87678



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=85

ER-25 QF 420525018-55 1:1 EC
 0067725000

ER-25 QF 420525019-55 1:1 IC 80 bar
 0067725000



Right angle drill/milling unit, both sides, LF=85

ER-25 QF 420525020-55 1:1 EC
 0067725000

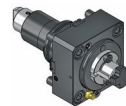
Driven Toolholders - Enhanced Program



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

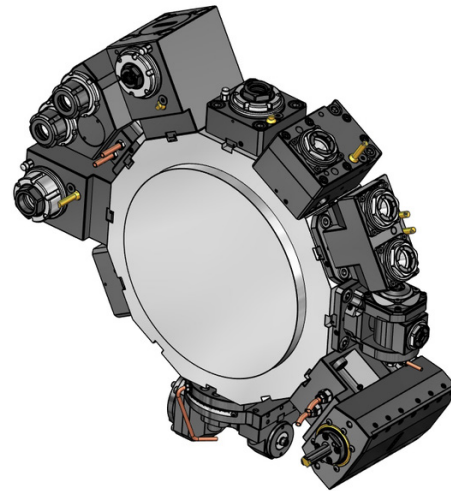
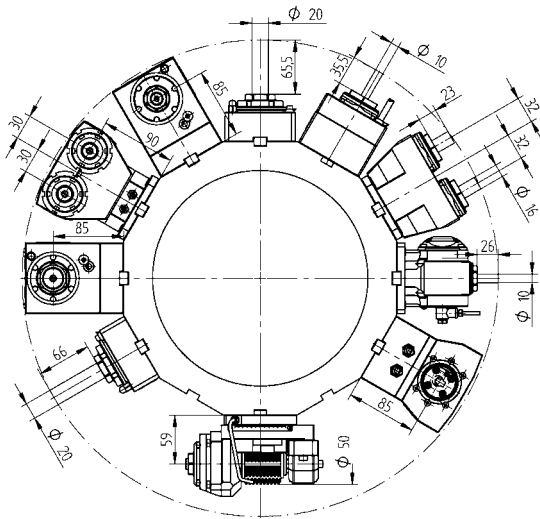
ER 25 410116030-55 1:1 IC 80 bar
 00675000932

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



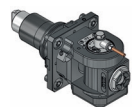
Right angle drill/milling unit, LF=85

ER 32	410520030-55	1:1	EC
	0067725000		
ER 32	410520031-55	1:1	IC 80 bar
	0067725000		
ER-20 QF	420520014-55	1:2	EC
	0067720001		
ER-20 QF	420520015-55	1:2	IC 80 bar
	0067720001		
ER 16	410810020-55	1:3	EC
	00675000841		
ER 16	410810021-55	1:3	IC 80 bar
	00675000841		
ER-25 QF	420525032-55	2:1	EC
	0067725000		
ER-25 QF	420525033-55	2:1	IC 80 bar
	0067725000		



Right angle milling unit with combination mill arbor DIN 6358, LF=85

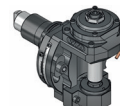
Ø 22	410622011-55	1:1	EC
	00675000483		
Ø 3/4"	410619006-55	1:1	EC
	00675000483		



Adjustable angle drill/milling unit

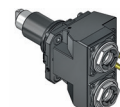
ER 16	411010005-55	1:1	EC
	00675000902		
ER 16	411010006-55	1:1	IC 80 bar
	00675000902		
ER 11	411007007-55	1:2	EC
	00675000914		
ER 11	411007008-55	1:2	IC 80 bar
	00675000914		

Driven Toolholders - Enhanced Program



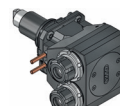
Gear hobbing unit

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"		
	110587		



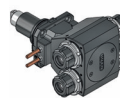
Straight drill/milling unit, double, Y axis

ER 25	413002004-55	1:1	EC
	00675000970		
ER 25	413002003-55	1:1	IC 80 bar
	00675000970		



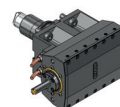
2-spindle - Right angle drill/milling unit, Y axis

ER 25	413502007-55	1:1	EC
	00675000915		
ER 25	413502008-55	1:1	IC 80 bar
	00675000915		



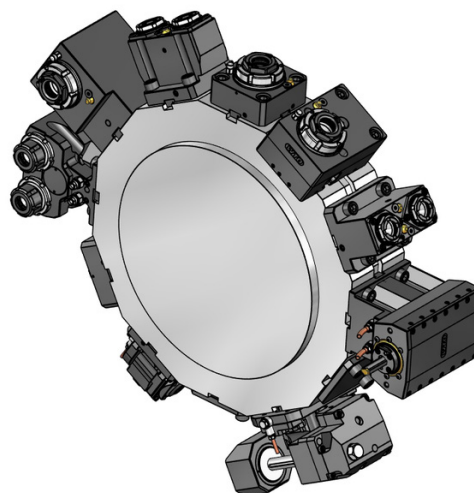
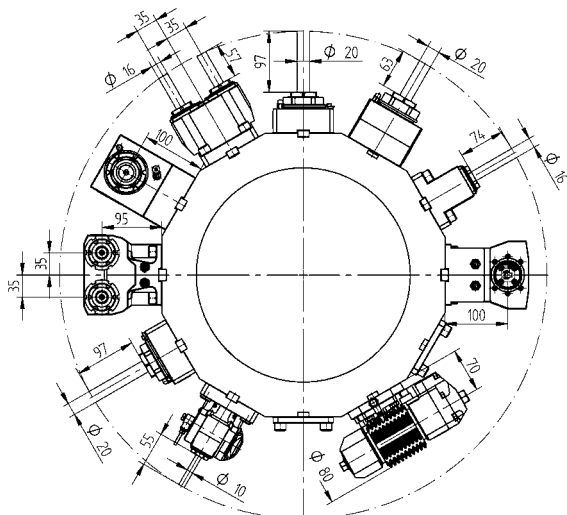
2-spindle - Right angle drill/milling unit, both sides, Y axis

ER 25	413502006-55	1:1	EC
	00675000915		



Broaching unit for ID and OD

TN765050	414532000-55	1:1	EC
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Driven Toolholders - QuickFlex®

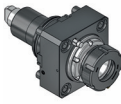
- 


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=100
ER-32 QF 420532018-65 1:1 EC
 0067732000
ER-32 QF 420532019-65 1:1 IC 80 bar
 0067732000
- 

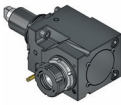
Right angle drill/milling unit, both sides, LF=100
ER-32 QF 420532020-65 1:1 EC
 0067732000

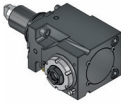
Driven Toolholders - Enhanced Program

- 

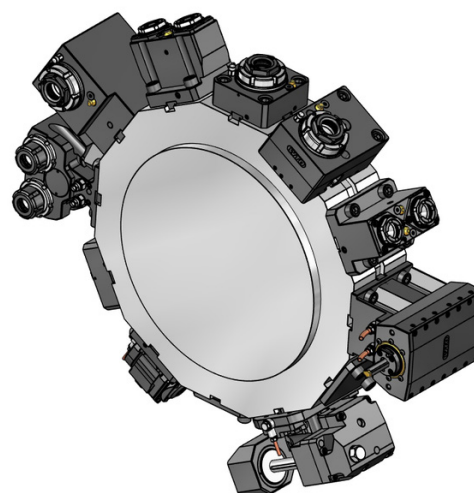
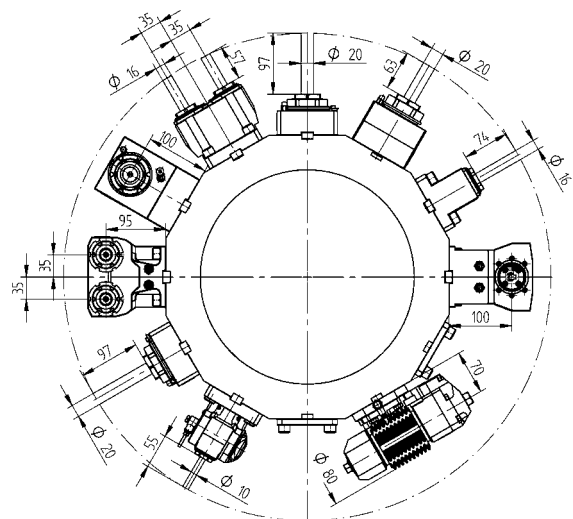
Straight drill/milling unit
ER 40 410126001-65 1:1 EC
 00675000079
- 

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
- 

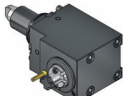


Right angle drill/milling unit, LF=100
ER 40 410526007-65 1:1 EC
 00675000079
ER 40 410526008-65 1:1 IC 80 bar
 00675000079
- 

Right angle drill/milling unit, LF=100
ER-25 QF 420525012-65 1:2 EC
 0067725001
ER-25 QF 420525013-65 1:2 IC 80 bar
 0067725001
ER-32 QF 420532029-65 2:1 EC
 0067732000
ER-32 QF 420532030-65 2:1 IC 80 bar
 0067732000

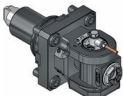






Driven Toolholders - Enhanced Program

Right angle milling unit with combination mill arbor DIN 6358, LF=100

	Ø 22	410622002-65	1:1	EC
		 00675000483		
	Ø 1"	410625002-65	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		

Gear hobbing unit

	Type 16-1	411500003-65	1:1	EC
	Type 16-1	411500002-65	2:1	EC
		 00675000927		
		 160016161 Ø 16		
		 160022161 Ø 22		
		 160027161 Ø 27		
		 160015161 Ø 5/8"		
		 160019161 Ø 3/4"		
		 160025161 Ø 1"		
		 160031161 Ø 1 1/4"		
		 110587		

Straight drill/milling unit, both sides

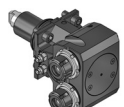


	ER 25	413002001-65	1:1	EC
		 00675000907		

Driven Toolholders - Enhanced Program


Straight drill/milling unit, double, Y axis

	ER 25	413002004-65	1:1	EC
		 00675000907		

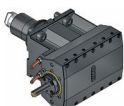
2-spindle - Right angle drill/milling unit, Y axis

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

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

	ER 25	413502008-65	1:1	EC
		 00675000915		

Broaching unit for ID and OD

	TN765050	414532000-65	1:1	EC
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Standard reduction sleeves - cylindrical



Reduction sleeve Ø 25

240025006	ø 6
240025008	ø 8
240025010	ø 10
240025012	ø 12
240025014	ø 14
240025016	ø 16
240025020	ø 20



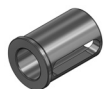
Reduction sleeve Ø 32

240032006	ø 6
240032008	ø 8
240032010	ø 10
240032012	ø 12
240032014	ø 14
240032016	ø 16
240032018	ø 18
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

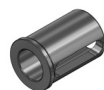
240050010	ø 10
240050012	ø 12
240050016	ø 16
240050020	ø 20
240050025	ø 25
240050025	ø 25
240050032	ø 32
240050040	ø 40



Reduction sleeve Ø 60

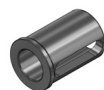
240060012	ø 12
240060016	ø 16
240060020	ø 20
240060025	ø 25
240060032	ø 32
240060040	ø 40
240060050	ø 50

Standard reduction sleeves - cylindrical



Reduction sleeve Ø 80

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



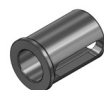
Reduction sleeve Ø 1"

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



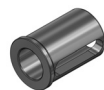
Reduction sleeve Ø 1 1/4"

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



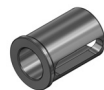
Reduction sleeve Ø 1 1/2"

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 - cylindrical, with slot



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



Reduction sleeve Ø 50

240550002	MT 2
240550003	MT 3
240550004	MT 4

Collets DIN 6499B (ER/ESX)

Collets DIN 6499B (ER/ESX)



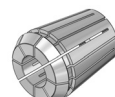
ER 11	mm	inch
190011000	ø 7-0.5	ø 0.276-0.020
190011010	ø 1-0.5	ø 0.039-0.020
190011015	ø 1.5-1	ø 0.059-0.039
190011020	ø 2-1.5	ø 0.079-0.059
190011025	ø 2.5-2	ø 0.098-0.079
190011030	ø 3-2.5	ø 0.118-0.098
190011035	ø 3.5-3	ø 0.138-0.118
190011040	ø 4-3.5	ø 0.158-0.138
190011045	ø 4.5-4	ø 0.177-0.158
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



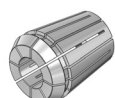
ER 25	mm	inch
190025000	ø 16-1	ø 0.630-0.039
190025020	ø 2-1	ø 0.079-0.039
190025030	ø 3-2	ø 0.118-0.079
190025040	ø 4-3	ø 0.157-0.118
190025050	ø 5-4	ø 0.197-0.157
190025060	ø 6-5	ø 0.236-0.197
190025070	ø 7-6	ø 0.276-0.236
190025080	ø 8-7	ø 0.315-0.276
190025090	ø 9-8	ø 0.354-0.315
190025100	ø 10-9	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 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 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



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 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

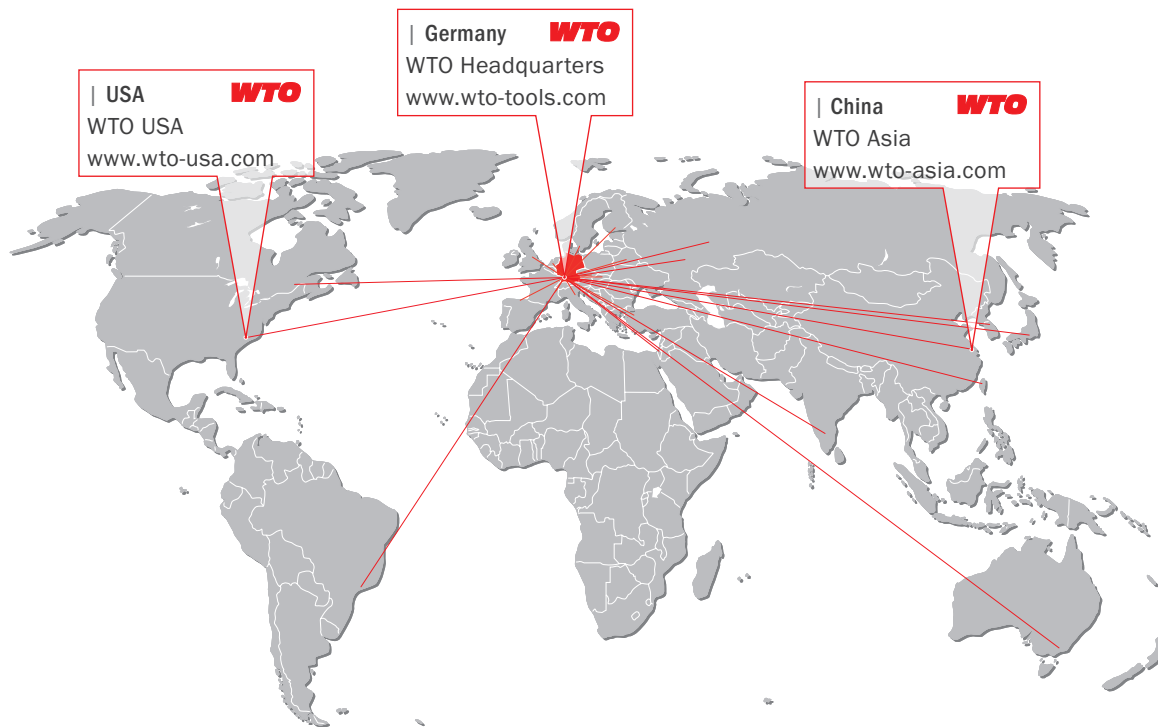


Quality without compromise.

All manufacturing steps are based on highest precision.

According to our own device that for the manufacture of high precision tooling systems high precision machine tools are essential we only use the latest machine tool technology to manufacture our parts.

At WTO not only the final products but also all manufacturing steps are checked and documented. All our products are measured on high precision 3D-coordinate-measuring machines.



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