

GENOS L200 M/MY  
GENOS L300 M/MY  
GENOS L300 MW/MYW  
LB/LU 2000-3000 EX M/MY/MW/MYW  
LB 4000 EX M/MY  
LT 2000 EX M/MY (16 station turret)  
LT 3000 EX M/MY  
LT 200 M, LT 200 MY  
LT 300 M, LT 300 MY



# Toolholder Program



## QuickFlex®

The new quick change system for high performance and precision.

Minimal investment, maximal expandability.

for OKUMA LB 2000-4000 EX M/LT 2000-3000 EX M



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**EC = External coolant supply**

**IC 80 bar = Internal and external coolant supply**

Max. coolant pressure = 80 bar

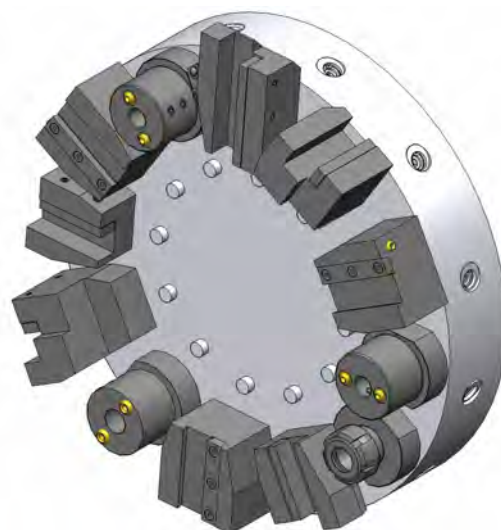
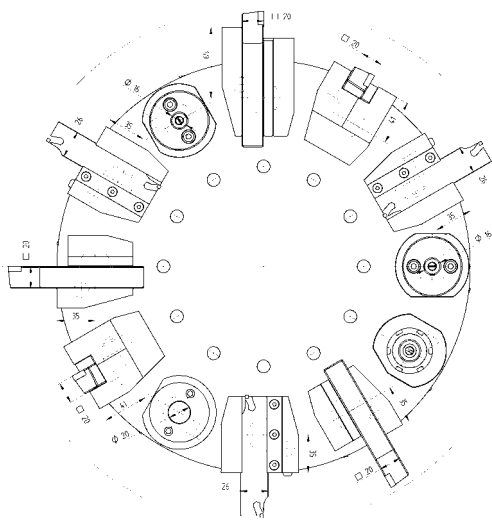
**IC 30 bar = Internal and external coolant supply**

Max. coolant pressure = 30 bar

Only use filtered coolant fluid (max. particle size = 100 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, left hand, short, Form B2**

- 20 48-B2-30x20
- 20 48-B2-30x20x60
- 3/4" 48-B2-30x075



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

- 20 48-B4-30x20
- 20 48-B4-30x20x60
- 3/4" 48-B4-30x075



**Radial square toolholder, left hand, long, Form B6**

- 20 48-B6-30x20
- 20 48-B6-30x20x60
- 3/4" 48-B6-30x075



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

- 20 48-B8-30x20
- 20 48-B8-30x20x60
- 3/4" 48-B8-30x075



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

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



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

- 20 48-C4-30x20
- 3/4" 48-C4-30x075



**Cut-off holder, adjustable height, left hand SH 26** 48-AL-30x26



**Cut-off holder, adjustable height, left hand inverted SH 26** 48-ALU-30x26

Static Toolholders - Standard Program



**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
- Ø 1" 48-E1-30x100
- Ø 1 1/4" 48-E1-30x125



**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
- Ø 1" 48-E2-30x100
- Ø 1 1/4" 48-E2-30x125



**ER collet chuck holder, Form E4**

- ER 25 48-E4-30x25  
107525000
- ER 32 48-E4-30x32  
107532000
- ER 40 48-E4-30x40  
107540000



**Plug, plastic, Form Z2**

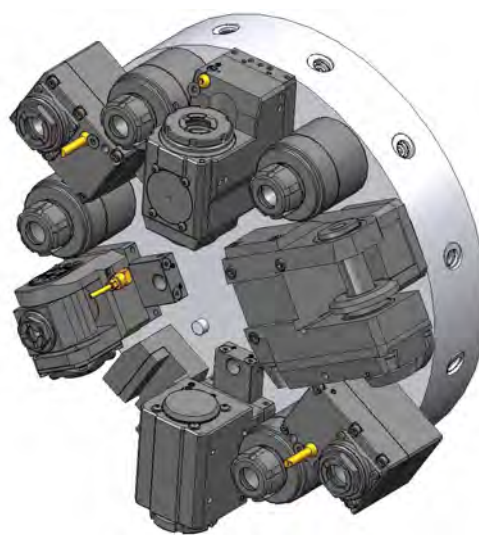
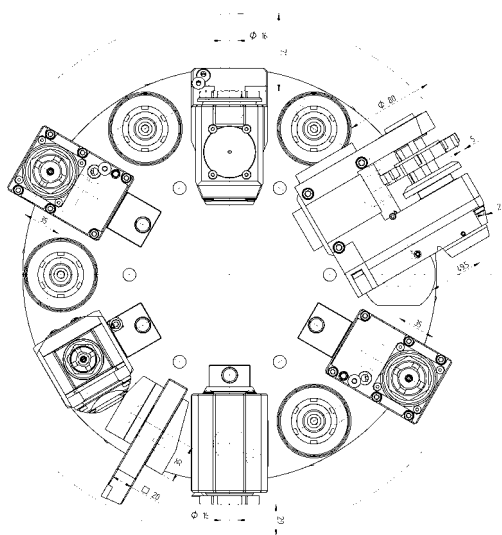
- Plastic 48-Z2-30-P



**Plug, steel, Form Z2**

- Steel 48-Z2-30-S





Driven Toolholders - Performance Series



**Face drill/milling unit**

<b>ER 25</b>	410116040-30	1:1	EC
	00675000359		
<b>ER 25</b>	410116041-30	1:1	IC 30 bar
	00675000359		



**OD back set drill/milling unit**

<b>ER 25</b>	410516045-30	1:1	EC
	00675000801		
<b>ER 25</b>	410516110-30	1:1	IC 80 bar
	00675000801		

Driven Toolholders - Enhanced Program



**Face drill/milling unit, offset**

<b>ER 25</b>	410116125-30	1:1	IC 80 bar
	00675000932		
<b>ER 20</b>	410113041-30	1:2	EC
	00675000939		
<b>ER 20</b>	410113042-30	1:2	IC 80 bar
	00675000939		
<b>ER 25</b>	410116126-30	2:1	EC
	00675000932		
<b>ER 25</b>	410116127-30	2:1	IC 80 bar
	00675000932		



**OD drill/milling unit**

<b>ER 20</b>	410513028-30	1:2	EC
	00675000833		
<b>ER 20</b>	410513029-30	1:2	IC 80 bar
	00675000833		



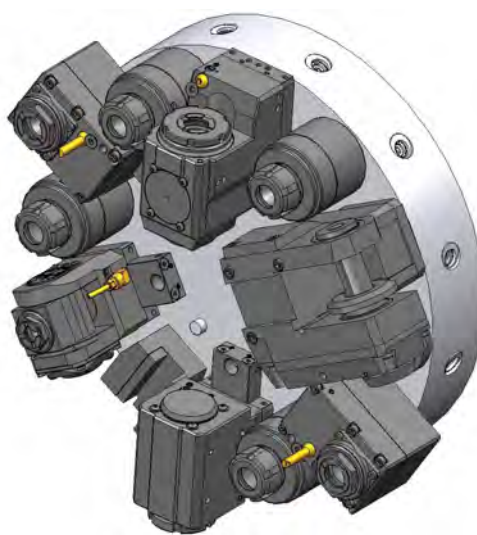
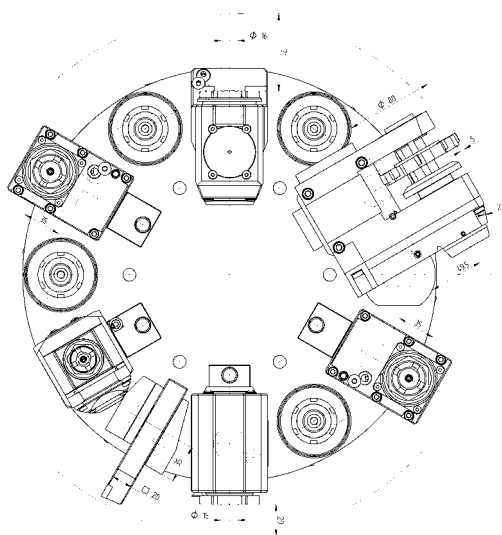
**OD back set drill/milling unit**

<b>ER 25</b>	410516046-30	2:1	EC
	00675000801		
<b>ER 25</b>	410516048-30	2:1	IC 80 bar
	00675000801		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010012-30	1:1	EC
	00675000902		
<b>ER 16</b>	411010013-30	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007013-30	1:2	EC
	00675000914		
<b>ER 11</b>	411007014-30	1:2	IC 80 bar
	00675000914		



Driven Toolholders - Enhanced Program



**Offset slitting saw unit**

Type 14/2 411500006-30 2,73:1 EC

00675000460

160016142 Ø 16

160022142 Ø 22

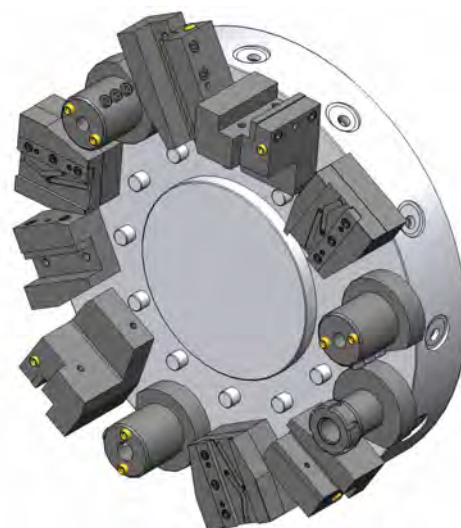
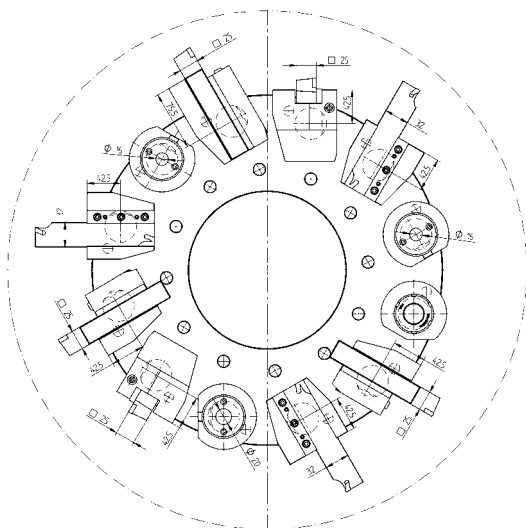
160027142 Ø 27

160015142 Ø 5/8"

160019142 Ø 3/4"

160023142 Ø 7/8"

160025142 Ø 1"



Static Toolholders - Standard Program



**Radial square toolholder, left hand, short, Form B2**

- 25 48-B2-40x25
- 1" 48-B2-40x100



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

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



**Radial square toolholder, left hand, long, Form B6**

- 25 48-B6-40x25
- 1" 48-B6-40x100



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

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



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

- 25 48-C2-40x25
- 1" 48-C2-40x100



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

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



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

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



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

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

Static Toolholders - Standard Program



**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
- Ø 1 1/4" 48-E1-40x125
- Ø 1 1/2" 48-E1-40x150



**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
- Ø 1" 48-E2-40x100
- Ø 1 1/4" 48-E2-40x125
- Ø 1 1/2" 48-E2-40x150



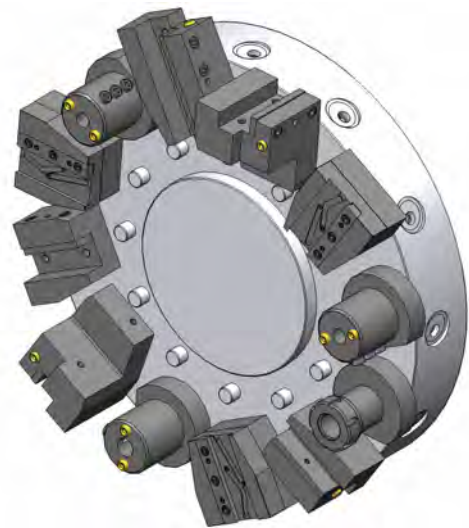
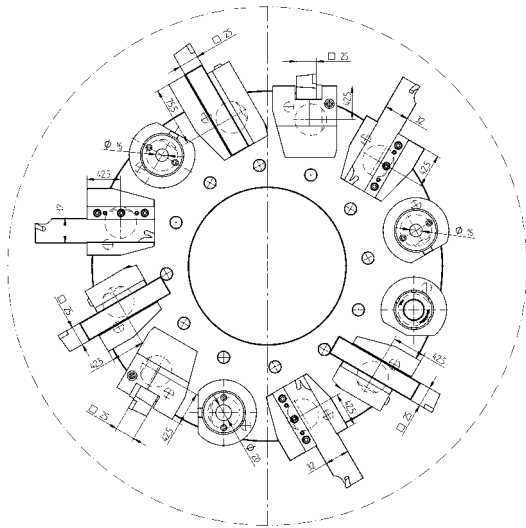
**ER collet chuck holder, Form E4**

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



**Plug, plastic, Form Z2**

- Plastic 48-Z2-40-P

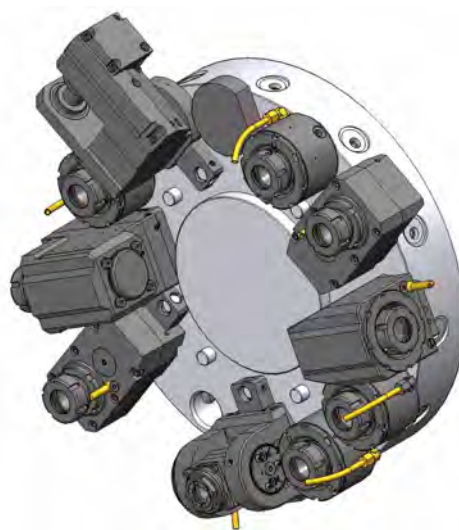
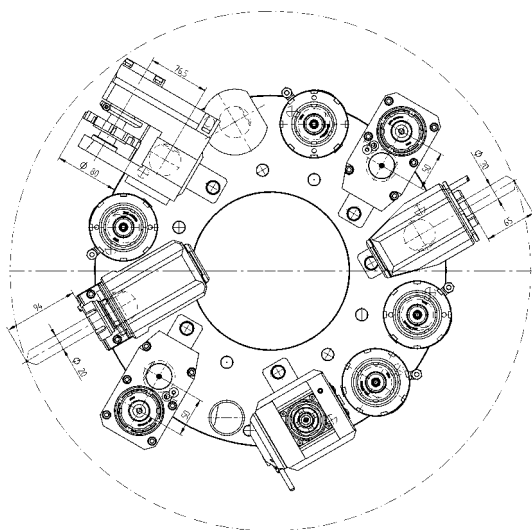


Static Toolholders - Standard Program



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





Driven Toolholders - Performance Series



**Straight drill/milling unit**

<b>ER 32</b>	410120118-40	1:1	EC
	00675000515		
<b>ER 32</b>	410120072-40	1:1	IC 30 bar
	00675000515		



**OD drill/milling unit**

<b>ER 32</b>	410520041-40	1:1	EC
	00675000490		
<b>ER 32</b>	410520042-40	1:1	IC 80 bar
	00675000490		

Driven Toolholders - Enhanced Program



**Face drill/milling unit, offset**

<b>ER 32</b>	410120206-40	1:1	EC
	00675000592		
<b>ER 32</b>	410120155-40	1:1	IC 80 bar
	00675000592		
<b>ER 25</b>	410116077-40	1:2	EC
	00675000720		
<b>ER 25</b>	410116078-40	1:2	IC 80 bar
	00675000720		
<b>ER 32</b>	410120160-40	2:1	EC
	00675000592		
<b>ER 32</b>	410120146-40	2:1	IC 80 bar
	00675000592		



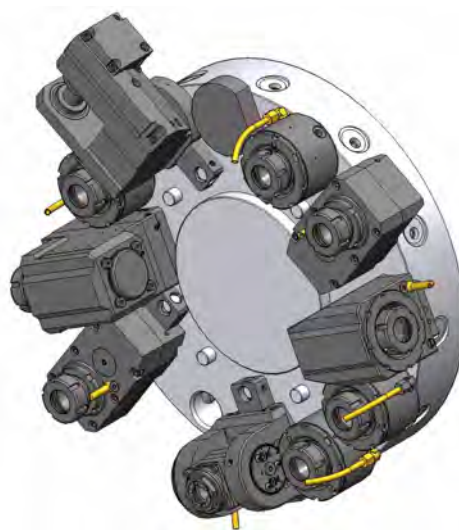
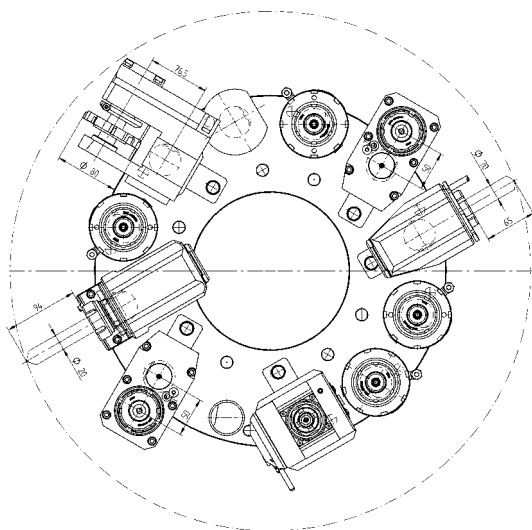
**Straight milling unit with combination mill arbor DIN 6358**

<b>Ø 22</b>	410222021-40	1:1	EC
	00675000479		



**OD drill/milling unit**

<b>ER 25</b>	410516074-40	1:2	EC
	00675000801		
<b>ER 25</b>	410516075-40	1:2	IC 80 bar
	00675000801		
<b>ER 32</b>	410520116-40	2:1	EC
	00675000490		
<b>ER 32</b>	410520126-40	2:1	IC 80 bar
	00675000490		



Driven Toolholders - Enhanced Program



**OD back set drill/milling unit**

<b>ER 32</b>	410520028-40	1:1	EC
	00675000743		
<b>ER 32</b>	410520152-40	1:1	IC 80 bar
	00675000743		
<b>ER 32</b>	410520145-40	2:1	EC
	00675000743		
<b>ER 32</b>	410520148-40	2:1	IC 80 bar
	00675000743		



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

<b>Ø 22</b>	410622015-40	1:1	EC
	00675000160		



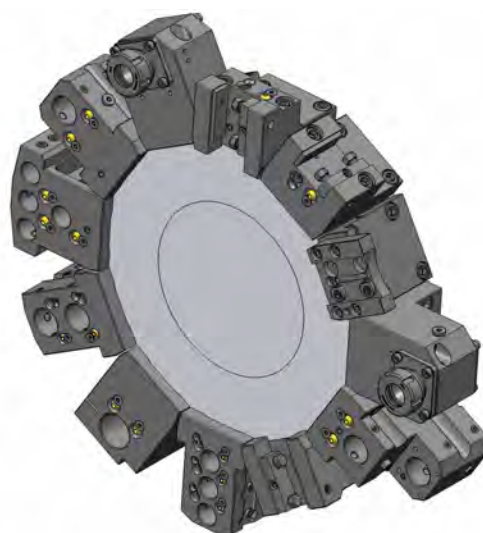
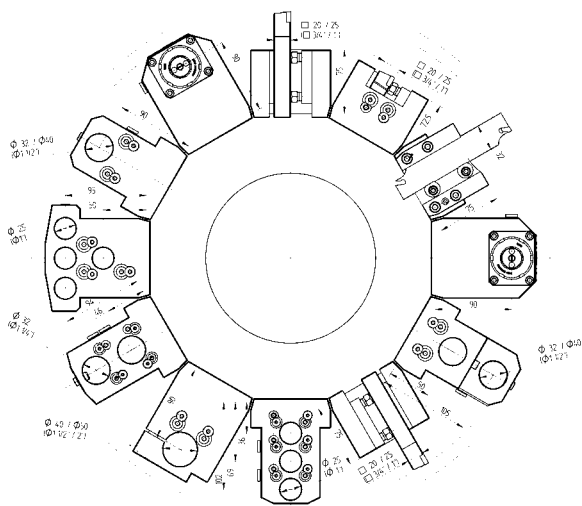
**Adjustable angle drill/milling unit**

<b>ER 25</b>	411016010-40	1:1	EC
	00675000934		
<b>ER 25</b>	411016031-40	1:1	IC 80 bar
	00675000934		
<b>ER 16</b>	411010022-40	1:2	EC
	00675000936		
<b>ER 16</b>	411010023-40	1:2	IC 80 bar
	00675000936		




**Offset slitting saw unit**


<b>Type 14/2</b>	411500006-40	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"		





Static Toolholders - Standard Program


Static Toolholders - Standard Program


- 


<b>OD cutting holder</b>		
<b>25</b>	48-86471	
<b>1"</b>	48-86473	
  
- 


<b>OD cutting holder, both sides</b>		
<b>25</b>	48-86475	
<b>1"</b>	48-86478	
  
- 

<b>Face and ID cutting holder</b>		
<b>25</b>	48-86480	
<b>1"</b>	48-86482	
  
- 

<b>Face and ID cutting holder, both sides</b>		
<b>25</b>	48-86484	
<b>1"</b>	48-86487	
  
- 

<b>Boring bar holder</b>		
<b>Ø 32</b>	48-78610	
<b>Ø 40</b>	48-78605	
<b>Ø 1 1/2"</b>	48-78831	
  
- 

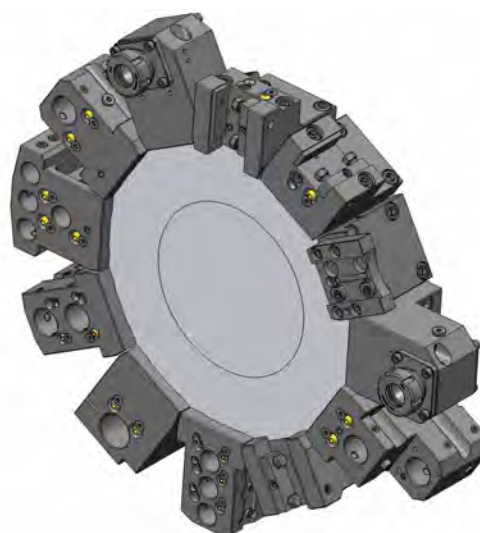
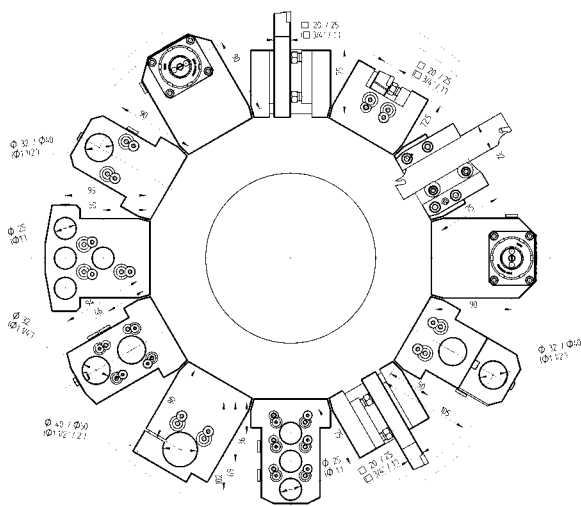
<b>Boring bar holder, both sides</b>		
<b>Ø 32</b>	48-78725	
<b>Ø 40</b>	48-78604	
<b>Ø 1 1/2"</b>	48-78844	
  
- 

<b>Combination toolholder</b>		
<b>Ø 32</b>	48-78611	IC 80 bar
<b>Ø 40</b>	48-78494	IC 80 bar
<b>Ø 1 1/2"</b>	48-78841	IC 80 bar
  
- 

<b>Combination toolholder, both sides</b>		
<b>Ø 32</b>	48-78726	IC 80 bar
<b>Ø 40</b>	48-78547	IC 80 bar
<b>Ø 1 1/2"</b>	48-78845	IC 80 bar


- 


<b>Plug</b>	
	48-79267





Static Toolholders - Enhanced Program


Static Toolholders - Enhanced Program


- 


**Cut-off holder, adjustable**  
SH 32 48-92711
- 


**Cut-off holder, adjustable, long**  
SH 32 48-94563
- 

**Boring bar holder, with slot**  
Ø 40 48-80539  
Ø 50 48-80511  
Ø 1 1/2" 48-80542  
Ø 2" 48-80541
- 


**Combination toolholder, double**  
Ø 32 48-79972 IC 80 bar  
Ø 1 1/4" 48-79997 IC 80 bar
- 


**Combination toolholder, double, both sides**  
Ø 32 48-79888 IC 80 bar  
Ø 1 1/4" 48-79996 IC 80 bar
- 


**Boring bar holder, triple, both sides**  
Ø 25 48-79975  
Ø 1" 48-79998
- 

**Collet face drill holder**  
ER 32 48-81096  
107532000
- 

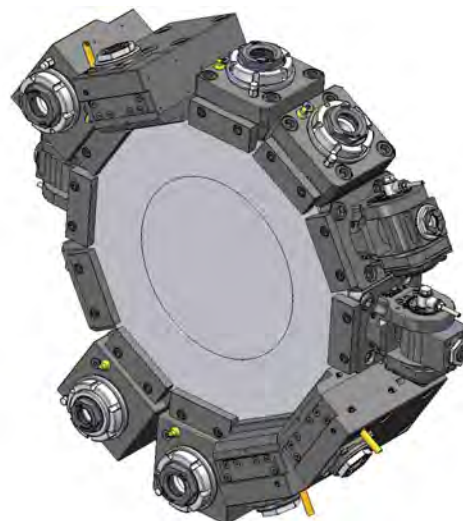
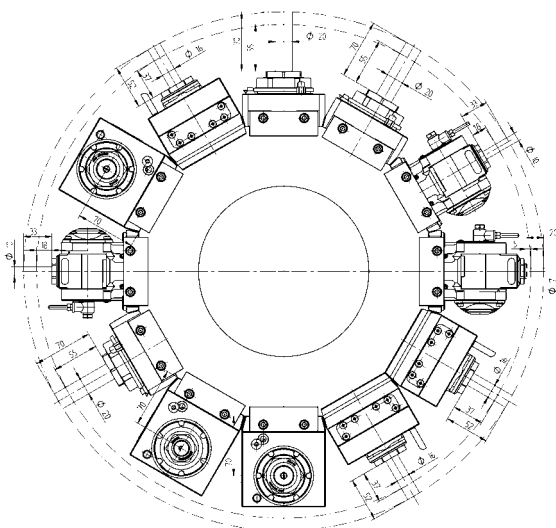
**Collet face drill holder, both sides**  
ER 32 48-81097  
107532000

- 

**VDI adapter, left**  
VDI 30 48-79671  
VDI 40 48-79839
- 

**VDI adapter, right**  
VDI 30 48-79982  
VDI 40 48-79983
- 

**Boring bar holder, blank**  
48-81082



Driven Toolholders - QuickFlex®

Driven Toolholders - Enhanced Program



**OD drill/milling unit**

<b>ER-32 QF</b>	420132012-60	1:1	EC
	0067732000		
<b>ER-32 QF</b>	420132013-60	1:1	IC 80 bar
	0067732000		



**Face drill/milling unit**

<b>ER-32 QF</b>	420532014-60	1:1	EC
	0067732000		
<b>ER-32 QF</b>	420532015-60	1:1	IC 80 bar
	0067732000		



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

<b>ER-32 QF</b>	420532018-60	1:1	EC
	0067732000		



**OD drill/milling unit for Weldon or Whistle Notch shank**

<b>Ø 20</b>	410120051-60	1:1	EC
<b>Ø 20</b>	410120052-60	1:1	IC 80 bar
<b>Ø 3/4"</b>	410119002-60	1:1	EC
<b>Ø 3/4"</b>	410119003-60	1:1	IC 80 bar



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

<b>Ø 22</b>	410222009-60	1:1	EC
	00675000557		
<b>Ø 1"</b>	410225002-60	1:1	EC
	00675000483		



**OD drill/milling unit, offset**

<b>ER 25</b>	410116035-60	1:1	EC
	00675000932		
<b>ER 25</b>	410116034-60	1:1	IC 80 bar
	00675000932		
<b>ER 20</b>	410113001-60	1:2	EC
	00675000939		
<b>ER 20</b>	410113002-60	1:2	IC 80 bar
	00675000939		



**Face drill/milling unit for ER collets**

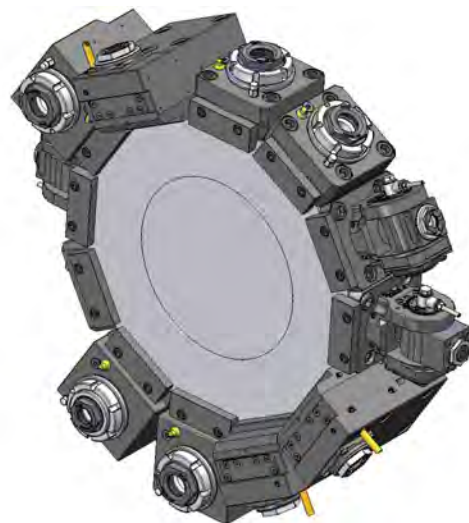
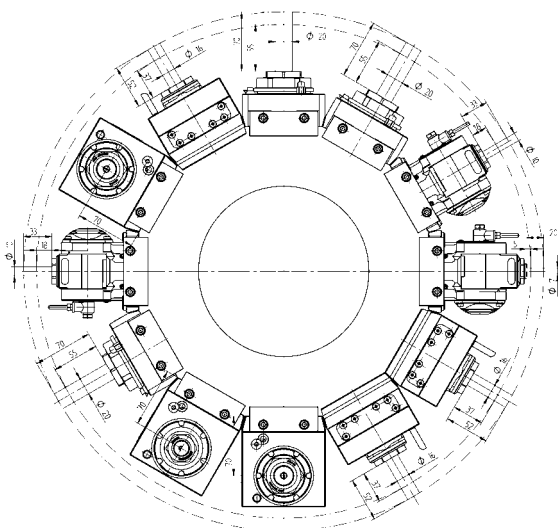
<b>ER 25</b>	410516012-60	1:2	EC
	00675000861		
<b>ER 25</b>	410516013-60	1:2	IC 80 bar
	00675000861		
<b>ER 32</b>	410520048-60	2:1	EC
	00675000780		
<b>ER 32</b>	410520049-60	2:1	IC 80 bar
	00675000780		



**Face drill/milling unit with Weldon or Whistle Notch shank**

<b>Ø 20</b>	410520040-60	1:1	EC
<b>Ø 20</b>	410520041-60	1:1	IC 80 bar





Driven Toolholders - Enhanced Program



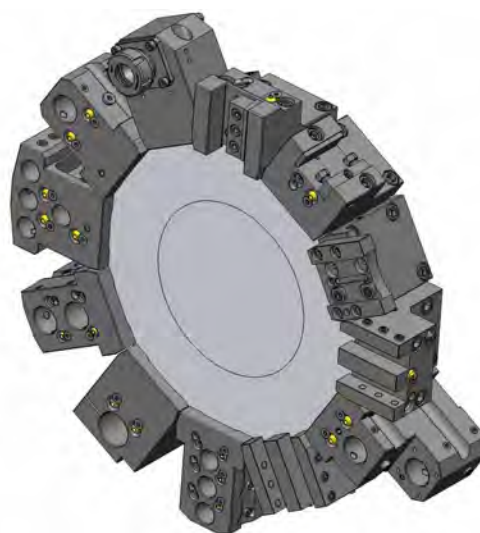
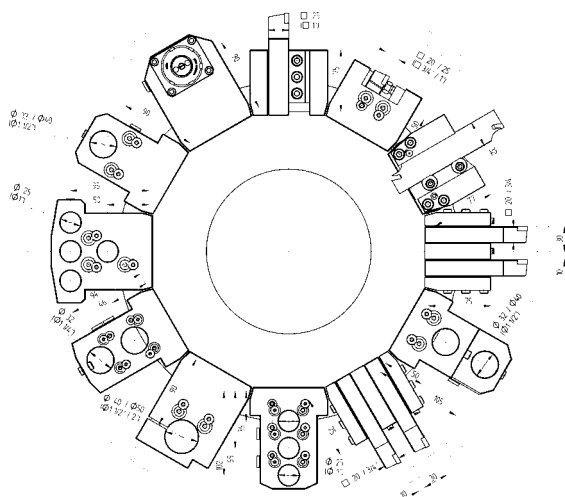
**Face milling unit with combination mill arbor  
DIN 6358**

<b>Ø 22</b>	410622002-60	1:1	EC
	00675000557		
<b>Ø 1"</b>	410625002-60	1:1	EC
	00675000483		




**Adjustable angle drill/milling unit**


<b>ER 16</b>	411010003-60	1:1	EC
	00675000902		
<b>ER 16</b>	411010004-60	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007001-60	1:2	EC
	00675000914		
<b>ER 11</b>	411007002-60	1:2	IC 80 bar
	00675000914		





Static Toolholders - Standard Program


Static Toolholders - Standard Program


- 


**OD cutting holder**  
 25      48-86471  
 1"      48-86473
- 


**OD cutting holder, both sides**  
 25      48-86475  
 1"      48-86478
- 

**Face and ID cutting holder**  
 25      48-86480  
 1"      48-86482
- 

**Face and ID cutting holder, both sides**  
 25      48-86484  
 1"      48-86487
- 

**Boring bar holder**  
 Ø 32    48-78610  
 Ø 40    48-78605  
 Ø 1 1/2" 48-78831
- 

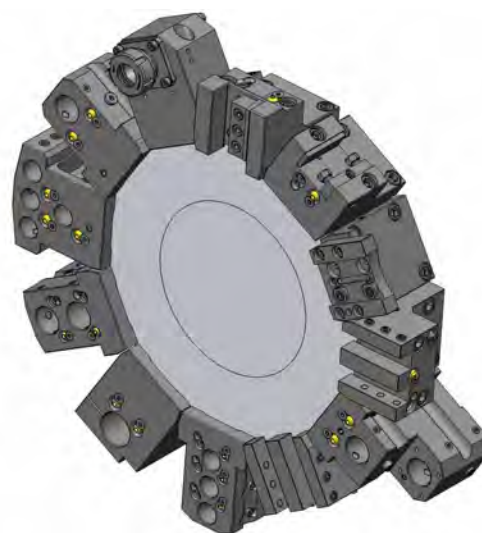
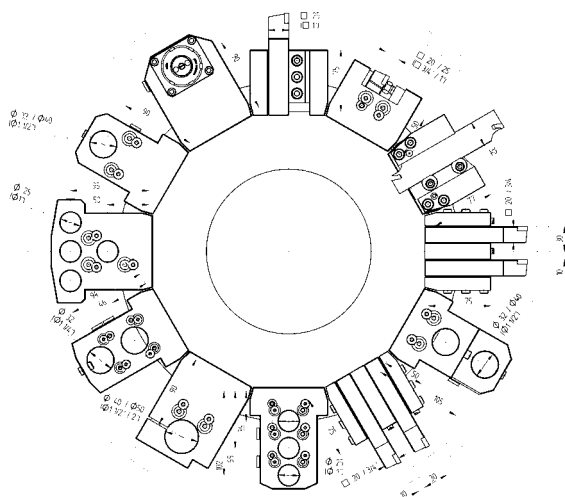
**Boring bar holder, both sides**  
 Ø 32    48-78725  
 Ø 40    48-78604  
 Ø 1 1/2" 48-78844
- 

**Combination toolholder**  
 Ø 32    48-78611      IC 80 bar  
 Ø 40    48-78494      IC 80 bar  
 Ø 1 1/2" 48-78841      IC 80 bar
- 

**Combination toolholder, both sides**  
 Ø 32    48-78726      IC 80 bar  
 Ø 40    48-78547      IC 80 bar  
 Ø 1 1/2" 48-78845      IC 80 bar


- 


**Plug**  
 48-79267





Static Toolholders - Enhanced Program


Static Toolholders - Enhanced Program


- 


**OD cutting holder, double, Y axis**  
20(3/4") 48-78534
- 


**OD cutting holder, double**  
20 48-97154  
3/4" 48-97155
- 

**OD cutting holder, both sides, double, Y axis**  
20(3/4") 48-79965
- 


**Cut-off holder, adjustable**  
SH 32 48-92711
- 


**Cut-off holder, adjustable, long**  
SH 32 48-94563
- 


**Boring bar holder, with slot**  
Ø 40 48-80539  
Ø 50 48-80511  
Ø 1 1/2" 48-80542  
Ø 2" 48-80541
- 


**Combination toolholder, double**  
Ø 32 48-79972 IC 80 bar  
Ø 1 1/4" 48-79997 IC 80 bar
- 


**Combination toolholder, universal, double**  
Ø 25 48-97157 IC 80 bar  
Ø 1" 48-97158 IC 80 bar

- 


**Combination toolholder, double, both sides**  
Ø 32 48-79888 IC 80 bar  
Ø 1 1/4" 48-79996 IC 80 bar
- 


**Boring bar holder, triple, both sides**  
Ø 25 48-79975  
Ø 1" 48-79998
- 

**Boring bar holder, multiple, both sides, Y axis**  
Ø 25 48-78538  
Ø 1" 48-78825
- 

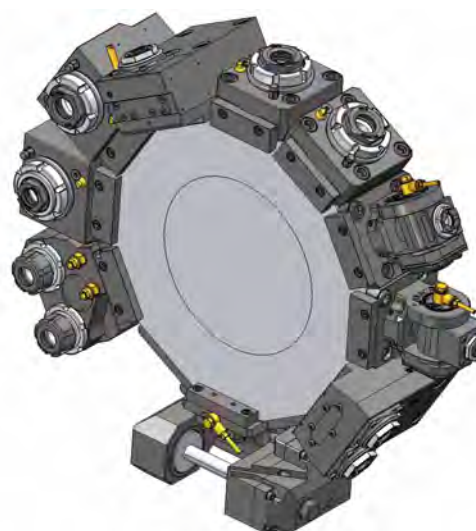
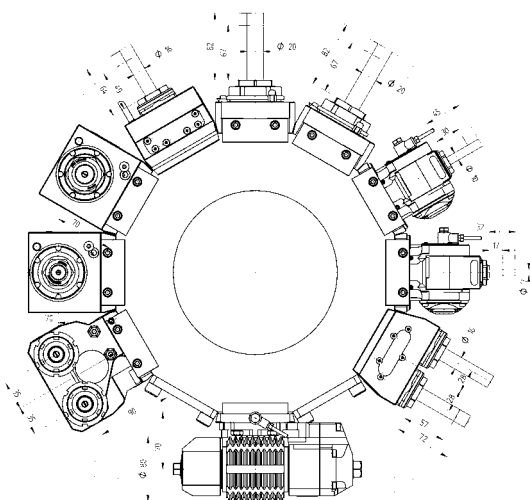
**Collet face drill holder**  
ER 32 48-81096  
107532000
- 

**Collet face drill holder, both sides**  
ER 32 48-81097  
107532000
- 

**VDI adapter, left**  
VDI 30 48-79671  
VDI 40 48-79839
- 

**VDI adapter, right**  
VDI 30 48-79982  
VDI 40 48-79983
- 

**Boring bar holder, blank**  
48-81082



Driven Toolholders - QuickFlex®

Driven Toolholders - Enhanced Program



**OD drill/milling unit**

<b>ER-32 QF</b>	420132012-60	1:1	EC
	0067732000		
<b>ER-32 QF</b>	420132013-60	1:1	IC 80 bar
	0067732000		



**Face drill/milling unit**

<b>ER-32 QF</b>	420532014-60	1:1	EC
	0067732000		
<b>ER-32 QF</b>	420532015-60	1:1	IC 80 bar
	0067732000		



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

<b>ER-32 QF</b>	420532018-60	1:1	EC
	0067732000		



**OD drill/milling unit for Weldon or Whistle Notch shank**

<b>Ø 20</b>	410120051-60	1:1	EC
<b>Ø 20</b>	410120052-60	1:1	IC 80 bar
<b>Ø 3/4"</b>	410119002-60	1:1	EC
<b>Ø 3/4"</b>	410119003-60	1:1	IC 80 bar



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

<b>Ø 22</b>	410222009-60	1:1	EC
	00675000557		
<b>Ø 1"</b>	410225002-60	1:1	EC
	00675000483		



**OD drill/milling unit, offset**

<b>ER 25</b>	410116035-60	1:1	EC
	00675000932		
<b>ER 25</b>	410116034-60	1:1	IC 80 bar
	00675000932		
<b>ER 20</b>	410113001-60	1:2	EC
	00675000939		
<b>ER 20</b>	410113002-60	1:2	IC 80 bar
	00675000939		



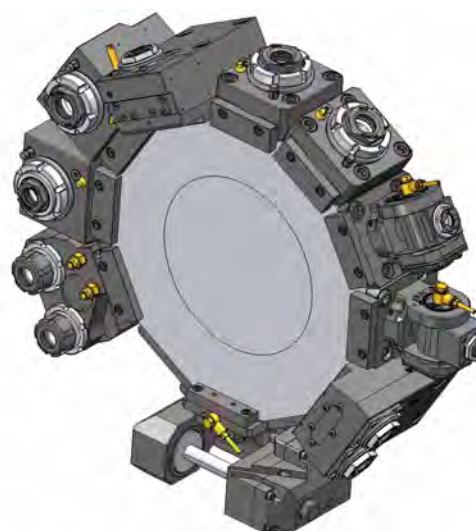
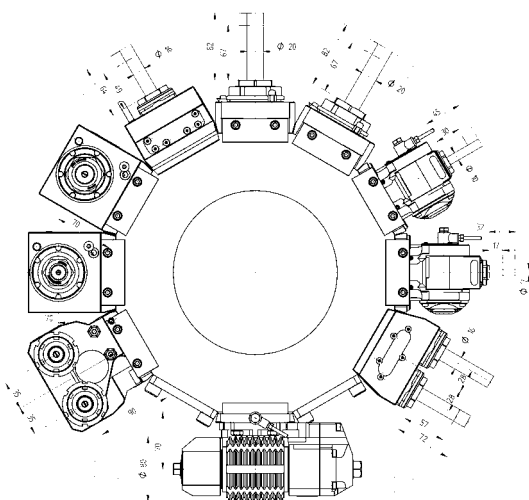
**Face drill/milling unit for ER collets**

<b>ER 25</b>	410516012-60	1:2	EC
	00675000861		
<b>ER 25</b>	410516013-60	1:2	IC 80 bar
	00675000861		
<b>ER 32</b>	410520048-60	2:1	EC
	00675000780		
<b>ER 32</b>	410520049-60	2:1	IC 80 bar
	00675000780		



**Face drill/milling unit with Weldon or Whistle Notch shank**

<b>Ø 20</b>	410520040-60	1:1	EC
<b>Ø 20</b>	410520041-60	1:1	IC 80 bar



Driven Toolholders - Enhanced Program



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

<b>Ø 22</b>	410622002-60	1:1	EC
	00675000557		
<b>Ø 1"</b>	410625002-60	1:1	EC
	00675000483		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010003-60	1:1	EC
	00675000902		
<b>ER 16</b>	411010004-60	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007001-60	1:2	EC
	00675000914		
<b>ER 11</b>	411007002-60	1:2	IC 80 bar
	00675000914		



**Gear hobbing unit**

<b>Type 16/1</b>	411500013-60	1:1	EC
	00675000962		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		
<b>Type 16/1</b>	411500015-60	2:1	EC
	00675000962		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		

Driven Toolholders - Enhanced Program



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

<b>ER 25</b>	413002009-60	1:1	EC
	00675000932		
<b>ER 25</b>	413002010-60	1:1	IC 80 bar
	00675000932		



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

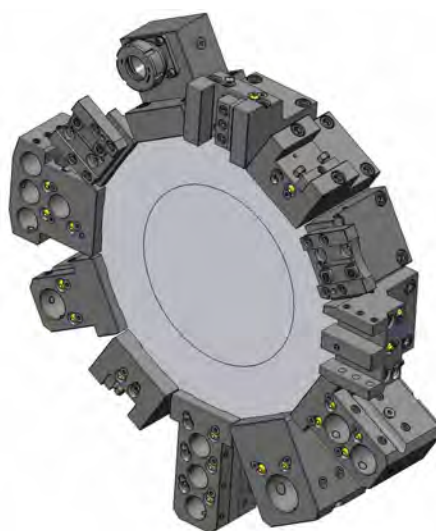
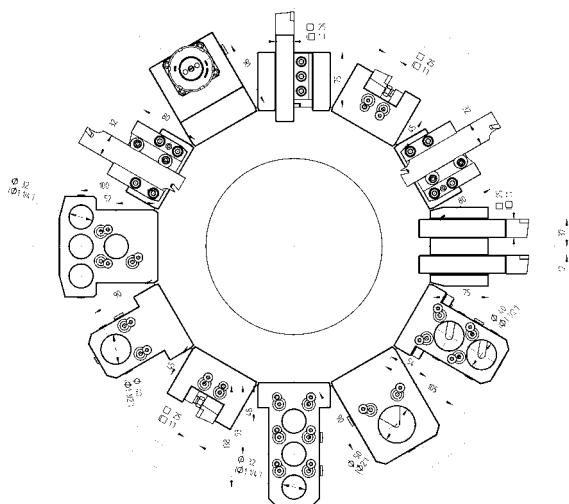
<b>ER 25</b>	413502003-60	1:1	EC
	00675000915		
<b>ER 25</b>	413502004-60	1:1	IC 80 bar
	00675000915		




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


<b>ER 25</b>	413502005-60	1:1	EC
	00675000915		








Static Toolholders - Standard Program

- 

**OD cutting holder**  
 25      48-86427  
 1"      48-86428
- 


**Face and ID cutting holder**  
 25      48-86429  
 1"      48-86430
- 


**Boring bar holder**  
 Ø 40    48-78606  
 Ø 1 1/2" 48-78859
- 


**Combination toolholder**  
 Ø 40    48-78587      IC 80 bar  
 Ø 50    48-82043      IC 80 bar  
 Ø 1 1/2" 48-78860      IC 80 bar  
 Ø 2"    48-82044      IC 80 bar
- 


**Plug**  
 48-79268


Static Toolholders - Enhanced Program


- 


**OD cutting holder, double, Y axis**  
 25 (1")    48-79787
- 


**Cut-off holder, adjustable**  
 SH 32    48-79665
- 


**Combination toolholder, double**  
 Ø 40    48-79898      IC 80 bar  
 Ø 1 1/2" 48-80003      IC 80 bar
- 

**Boring bar holder, triple**  
 Ø 32    48-79984  
 Ø 1 1/4" 48-80002
- 

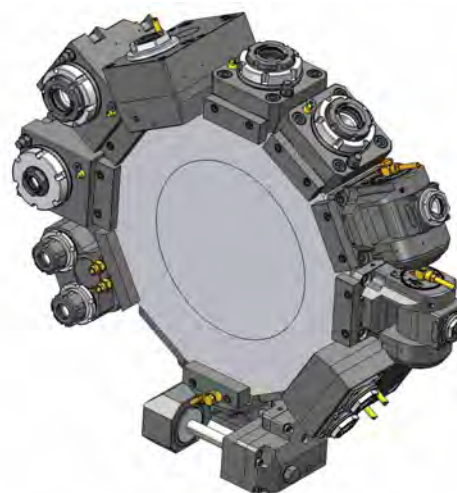
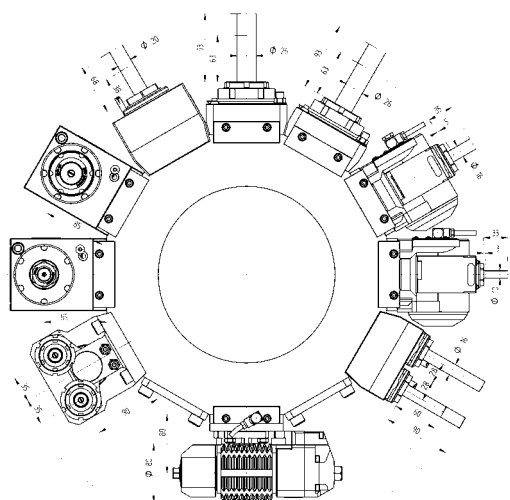
**Boring bar holder, multiple, Y axis**  
 Ø 32    48-79802  
 Ø 1 1/4" 48-79850
- 

**Collet face drill holder**  
 ER 40    48-81098  
 107540000
- 

**VDI adapter, left**  
 VDI 40    48-79672
- 

**VDI adapter, right**  
 VDI 40    48-79986
- 

**Boring bar holder, blank**  
 48-81083



Driven Toolholders - QuickFlex®



**OD drill/milling unit**

<b>ER-40 QF</b>	420140012-60	1:1	EC
	0067740000		
<b>ER-40 QF</b>	420140013-60	1:1	IC 80 bar
	0067740000		



**Face drill/milling unit**

<b>ER-40 QF</b>	420540010-60	1:1	EC
	0067740000		
<b>ER-40 QF</b>	420540011-60	1:1	IC 80 bar
	0067740000		

Driven Toolholders - Enhanced Program



**OD drill/milling unit for Weldon or Whistle Notch shank**

<b>Ø 25</b>	410125005-60	1:1	EC
<b>Ø 25</b>	410125006-60	1:1	IC 80 bar
<b>Ø 1"</b>	410125007-60	1:1	EC
<b>Ø 1"</b>	410125008-60	1:1	IC 80 bar



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

<b>Ø 22</b>	410222013-60	1:1	EC
	00675000483		
<b>Ø 27</b>	410227011-60	1:1	EC
	00675000245		
<b>Ø 1"</b>	410225003-60	1:1	EC
	00675000483		



**OD drill/milling unit, offset**

<b>ER 32</b>	410120053-60	1:1	EC
	00675000958		
<b>ER 32</b>	410120054-60	1:1	IC 80 bar
	00675000958		
<b>ER 25</b>	410116028-60	1:2	EC
	00675000959		
<b>ER 25</b>	410116029-60	1:2	IC 80 bar
	00675000959		



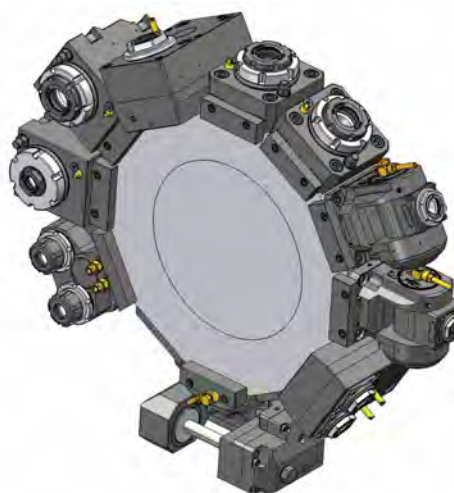
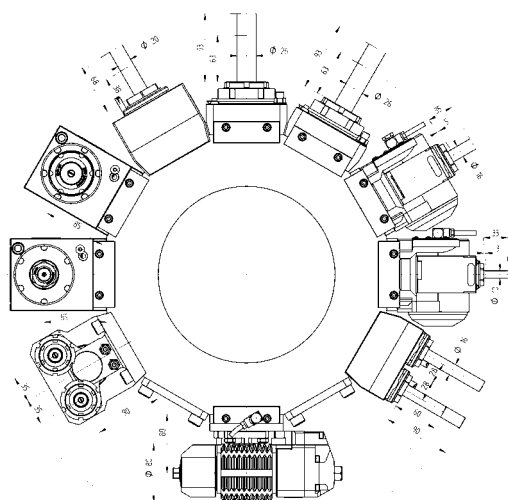
**Face drill/milling unit for ER collets**

<b>ER 25</b>	410516014-60	1:2	EC
	00675000861		
<b>ER 25</b>	410516015-60	1:2	IC 80 bar
	00675000861		



**Face drill/milling unit with Weldon or Whistle Notch shank**

<b>Ø 25</b>	410525008-60	1:1	EC
<b>Ø 25</b>	410525009-60	1:1	IC 80 bar
<b>Ø 1"</b>	410525010-60	1:1	EC
<b>Ø 1"</b>	410525011-60	1:1	IC 80 bar



Driven Toolholders - Enhanced Program



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

<b>Ø 27</b>	410627003-60	1:1	EC
	00675000245		
<b>Ø 1"</b>	410625003-60	1:1	EC
	00675000483		



**Adjustable angle drill/milling unit**

<b>ER 25</b>	411016001-60	1:1	EC
	00675000934		
<b>ER 25</b>	411016002-60	1:1	IC 80 bar
	00675000934		
<b>ER 16</b>	411010005-60	1:2	EC
	00675000936		
<b>ER 16</b>	411010006-60	1:2	IC 80 bar
	00675000936		



**Gear hobbing unit**

<b>Type 16/1</b>	411500011-60	1:1	EC
	00675000927		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		
<b>Type 16/1</b>	411500010-60	2:1	EC
	00675000927		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		

Driven Toolholders - Enhanced Program



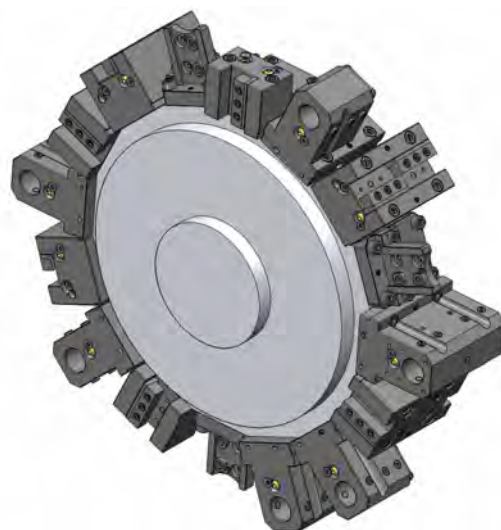
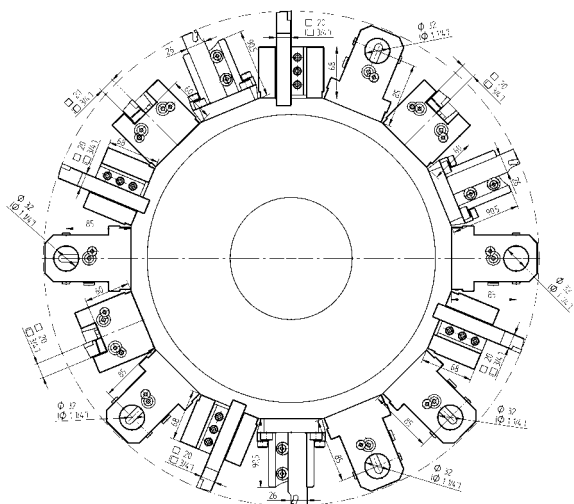
**OD drill/milling unit, double, Y axis**

<b>ER 25</b>	413002004-60	1:1	EC
	00675000932		
<b>ER 25</b>	413002005-60	1:1	IC 80 bar
	00675000932		



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

<b>ER 25</b>	413502006-60	1:1	EC
	00675000915		
<b>ER 25</b>	413502007-60	1:1	IC 80 bar
	00675000915		



Static Toolholders - Standard Program

Static Toolholders - Enhanced Program



**OD cutting holder**  
 20 48-90520  
 3/4" 48-90521



**OD cutting holder, both sides**  
 20 48-90522  
 3/4" 48-90523



**Face and ID cutting holder, both sides**  
 20 48-90524  
 3/4" 48-90525



**Combination toolholder**  
 Ø 32 48-90526 IC 80 bar  
 Ø 1 1/4" 48-90527 IC 80 bar



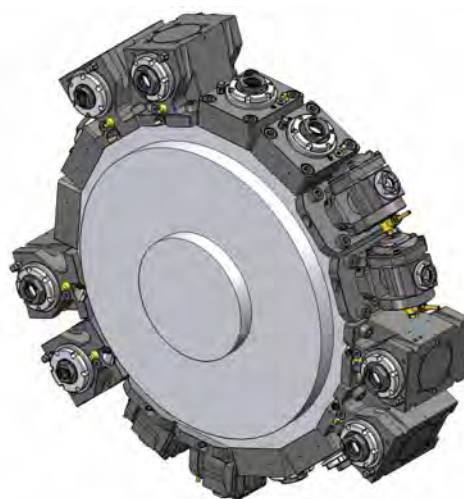
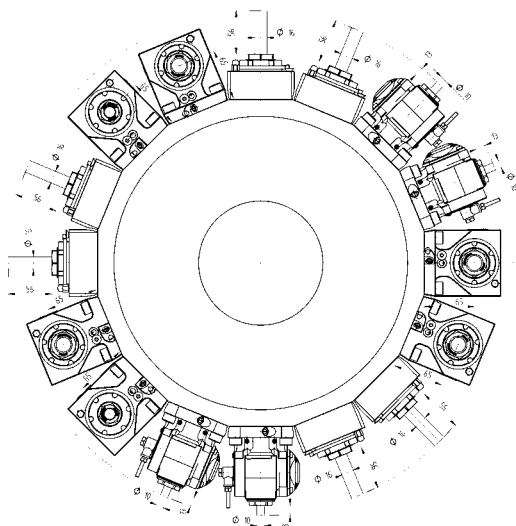
**Combination toolholder, both sides**  
 Ø 32 48-90528 IC 80 bar  
 Ø 1 1/4" 48-90529 IC 80 bar






**Plug**  
 48-90530




















**Cut-off holder, adjustable**  
 SH 26 48-90567



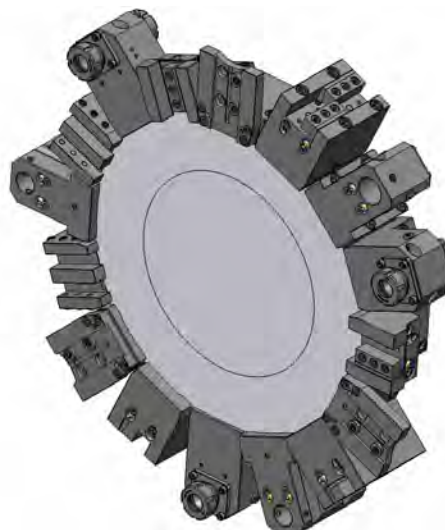
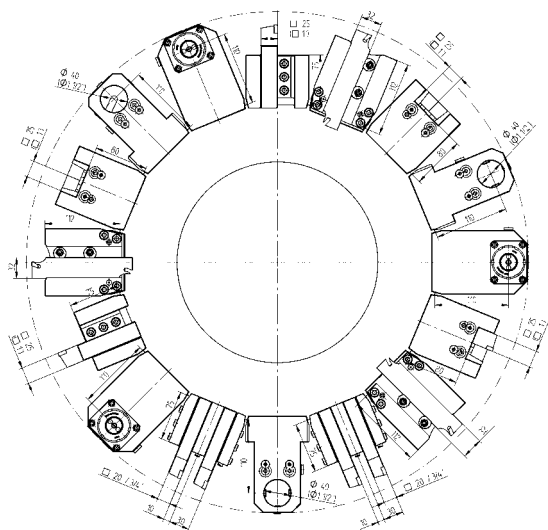
Driven Toolholders - QuickFlex®

	<b>OD drill/milling unit</b>			
	<b>ER-25 QF</b>	420125010-55	1:1	EC
		 0067725000		
	<b>Face drill/milling unit</b>			
	<b>ER-25 QF</b>	420125011-55	1:1	IC 80 bar
		 0067725000		
	<b>Face drill/milling unit, both sides</b>			
	<b>ER-25 QF</b>	420525012-55	1:1	EC
		 0067725000		

Driven Toolholders - Enhanced Program


	<b>Face drill/milling unit</b>			
	<b>ER-20 QF</b>	420520010-55	1:2	EC
		 0067720001		
	<b>Face drill/milling unit</b>			
	<b>ER-20 QF</b>	420520011-55	1:2	IC 80 bar
		 0067720001		
	<b>Face drill/milling unit</b>			
	<b>ER-25 QF</b>	420525013-55	2:1	EC
		 0067725000		
	<b>Face drill/milling unit</b>			
	<b>ER-25 QF</b>	420525014-55	2:1	IC 80 bar
		 0067725000		
	<b>Adjustable angle drill/milling unit</b>			
	<b>ER 16</b>	410810014-55	1:3	EC
		 00675000841		
	<b>Adjustable angle drill/milling unit</b>			
	<b>ER 16</b>	410810015-55	1:3	IC 80 bar
		 00675000841		
	<b>Adjustable angle drill/milling unit</b>			
	<b>ER 16</b>	411010008-55	1:1	EC
		 00675000902		
	<b>Adjustable angle drill/milling unit</b>			
	<b>ER 16</b>	411010009-55	1:1	IC 80 bar
		 00675000902		
	<b>Adjustable angle drill/milling unit</b>			
	<b>ER 11</b>	411007009-55	1:2	EC
		 00675000914		
	<b>Adjustable angle drill/milling unit</b>			
	<b>ER 11</b>	411007010-55	1:2	IC 80 bar
		 00675000914		








Static Toolholders - Standard Program


Static Toolholders - Enhanced Program


- 

**OD cutting holder**  
 25 48-86471  
 1" 48-86473
- 

**OD cutting holder, both sides**  
 25 48-86475  
 1" 48-86478
- 

**Face and ID cutting holder, both sides**  
 25 48-95357  
 1" 48-95358
- 

**Combination toolholder**  
 Ø 40 48-95360 IC 80 bar  
 Ø 1 1/2" 48-95361 IC 80 bar
- 

**Combination toolholder, both sides**  
 Ø 40 48-95363 IC 80 bar  
 Ø 1 1/2" 48-95364 IC 80 bar
- 

**Plug**  
 48-79267

- 

**OD cutting holder, double, Y axis**  
 20(3/4") 48-78534
- 

**OD cutting holder, both sides, double, Y axis**  
 20(3/4") 48-79965
- 

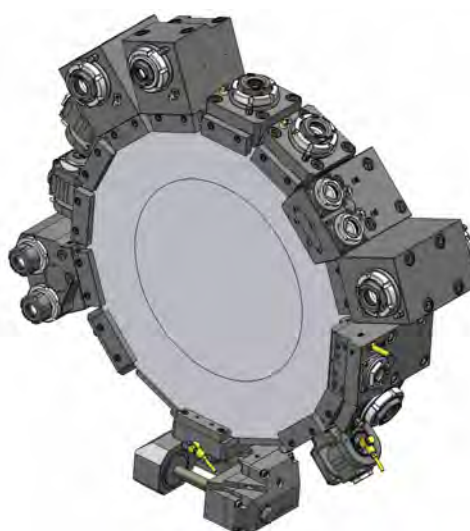
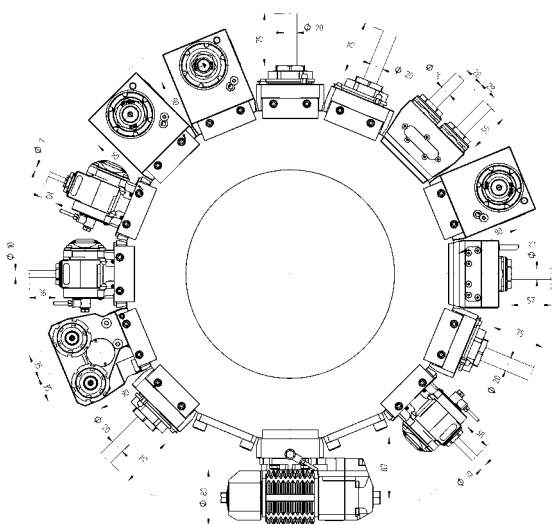
**Cut-off holder, adjustable**  
 SH 32 48-92711
- 

**Cut-off holder, adjustable, long**  
 SH 32 48-94563
- 

**Boring bar holder, multiple, both sides, Y axis**  
 Ø 25 48-78538  
 Ø 1" 48-78825
- 

**Collet face drill holder**  
 ER 32 48-95365  
 107532000
- 

**Boring bar holder, blank**  
 48-95367



Driven Toolholders - QuickFlex®



**OD drill/milling unit**

**ER-32 QF** 420132016-60 1:1 EC  
 0067732000

**ER-32 QF** 420132017-60 1:1 IC 80 bar  
 0067732000



**Face drill/milling unit**

**ER-32 QF** 420532025-60 1:1 EC  
 0067732000

**ER-32 QF** 420532026-60 1:1 IC 80 bar  
 0067732000



**Face drill/milling unit for ER collets, both sides**

**ER-32 QF** 420532029-60 1:1 EC  
 0067732000

Driven Toolholders - Enhanced Program



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

**Ø 22** 410222015-60 1:1 EC  
 00675000483

**Ø 1"** 410225006-60 1:1 EC  
 00675000483



**OD drill/milling unit, offset**

**ER 25** 410116037-60 1:1 EC  
 00675000932

**ER 25** 410116038-60 1:1 IC 80 bar  
 00675000932

**ER 20** 410113005-60 1:2 EC  
 00675000939

**ER 20** 410113006-60 1:2 IC 80 bar  
 00675000939



**Face drill/milling unit**

**ER-25 QF** 420525016-60 1:2 EC  
 0067725001

**ER-25 QF** 420525017-60 1:2 IC 80 bar  
 0067725001

**ER-32 QF** 420532027-60 2:1 EC  
 0067732000

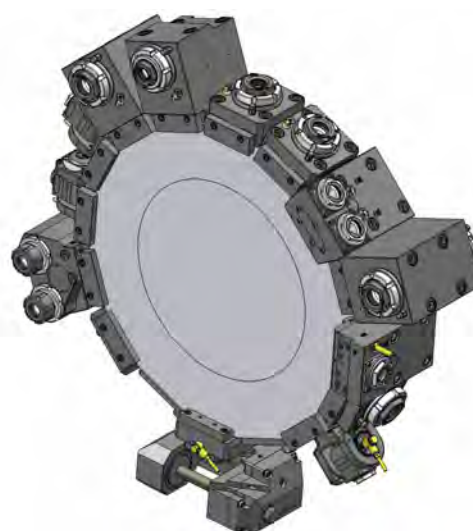
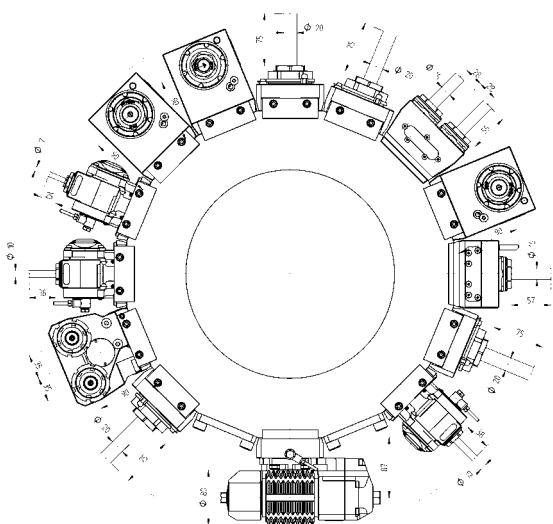
**ER-32 QF** 420532028-60 2:1 IC 80 bar  
 0067732000



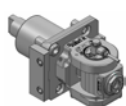
**Face milling unit with combination mill arbor  
 DIN 6358**

**Ø 22** 410622010-60 1:1 EC  
 00675000483

**Ø 1"** 410625006-60 1:1 EC  
 00675000483



Driven Toolholders - Enhanced Program



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010009-60	1:1	EC
	00675000902		
<b>ER 16</b>	411010010-60	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-60	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-60	1:2	IC 80 bar
	00675000914		



**Gear hobbing unit**

<b>Type 16/1</b>	411500022-60	1:1	EC
	00675000962		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		
<b>Type 16/1</b>	411500023-60	2:1	EC
	00675000962		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		



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

<b>ER 25</b>	413002013-60	1:1	EC
	00675000932		
<b>ER 25</b>	413002014-60	1:1	IC 80 bar
	00675000932		

Driven Toolholders - Enhanced Program



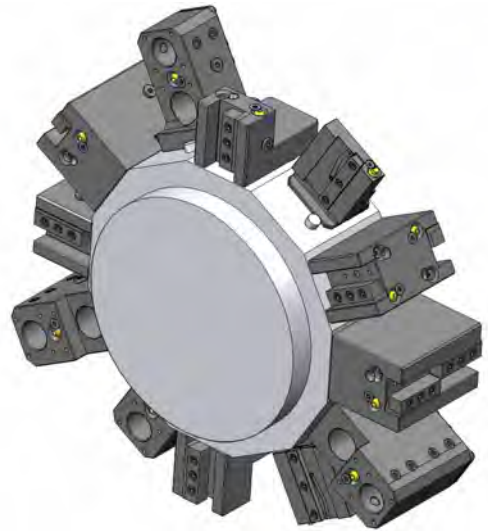
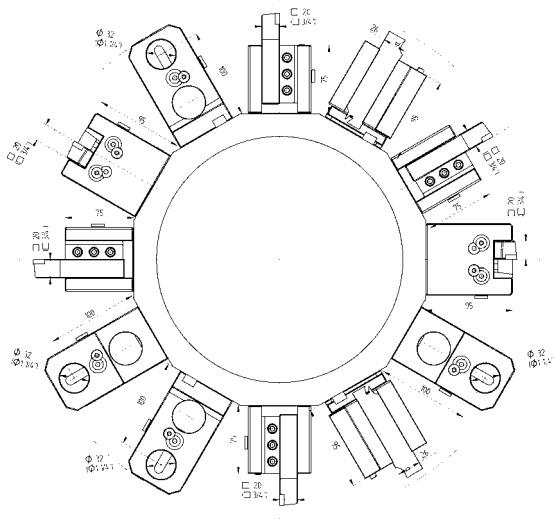
**2-spindle - Face drill/milling unit, Y axis**

<b>ER 25</b>	413502015-60	1:1	EC
	00675000915		
<b>ER 25</b>	413502016-60	1:1	IC 80 bar
	00675000915		





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


<b>ER 25</b>	413502017-60	1:1	EC
	00675000915		





Static Toolholders - Standard Program


- 


**OD cutting holder**  
**20**      48-84970  
**3/4"**     48-86665
- 


**OD cutting holder, both sides**  
**20**      48-84971  
**3/4"**     48-86666
- 

**Face and ID cutting holder, both sides**  
**20**      48-84975  
**3/4"**     48-86667
- 

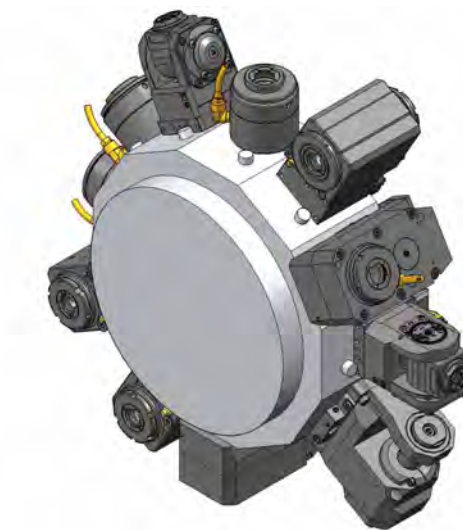
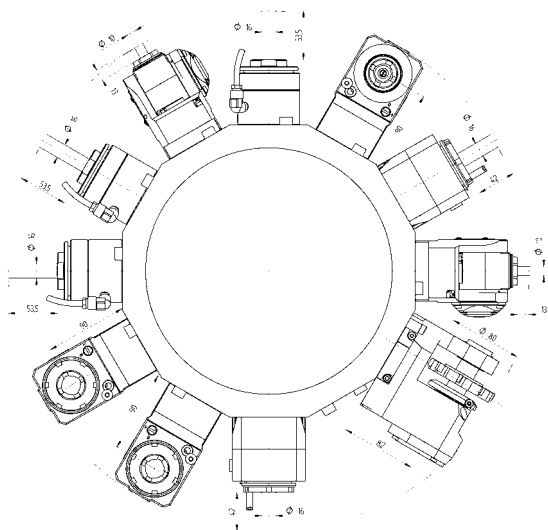
**Combination toolholder, universal**  
**Ø 32**     48-84973  
**Ø 1 1/4"** 48-86638
- 

**Combination toolholder, both sides**  
**Ø 32**     48-84972  
**Ø 1 1/4"** 48-86651
- 

**Cut-off holder**  
**SH 26**    48-71433  
              R4Z450W
- 

**Plug, plastic, Form Z2**  
**Plastic**   48-Z2-30-P
- 

**Plug, steel, Form Z2**  
**Steel**     48-Z2-30-S



Driven Toolholders - Performance Series



**Straight drill/milling unit**

- ER 25 410116042-30 1:1 EC  
00675000838
- ER 25 410116043-30 1:1 IC 30 bar  
00675000838



**Right angle drill/milling unit**

- ER 25 410516148-30 1:1 EC  
00675000801
- ER 25 410516117-30 1:1 IC 80 bar  
00675000801



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

- ER 25 410516152-30 1:1 EC  
00675000801

Driven Toolholders - Enhanced Program



**Straight offset drill/milling unit**

- ER 25 410116062-30 1:1 IC 80 bar  
00675000801
- ER 20 410113011-30 1:2 EC  
00675000591
- ER 20 410113012-30 1:2 IC 80 bar  
00675000591
- ER 25 410116063-30 2:1 EC  
00675000801
- ER 25 410116064-30 2:1 IC 80 bar  
00675000801



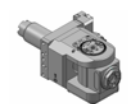
**Straight offset drill/milling unit**

- ER 25 410116108-30 1:1 IC 80 bar  
00675000801



**Right angle drill/milling unit**

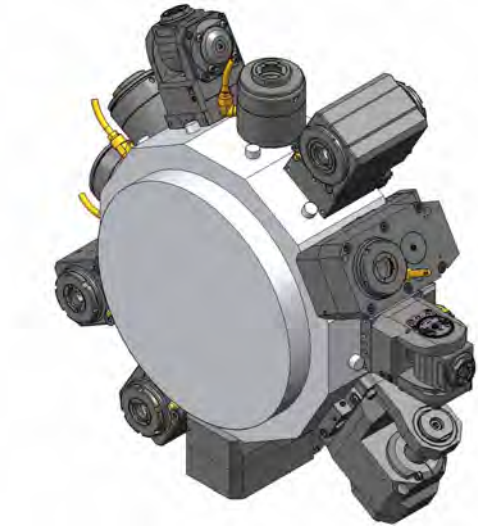
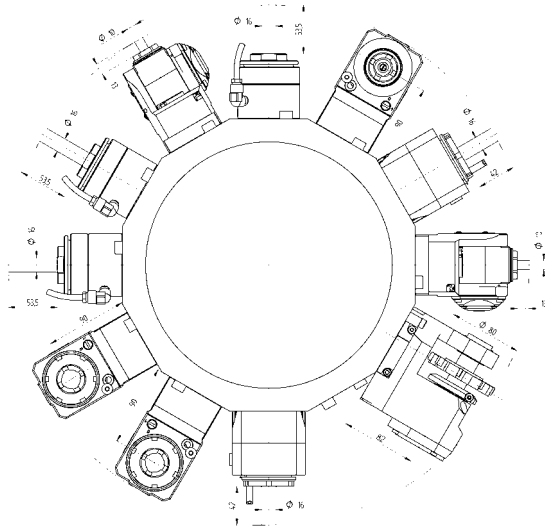
- ER 20 410513037-30 1:2 EC  
00675000833
- ER 20 410513038-30 1:2 IC 80 bar  
00675000833
- ER 25 410516150-30 2:1 EC  
00675000801
- ER 25 410516151-30 2:1 IC 80 bar  
00675000801



**Adjustable angle drill/milling unit**

- ER 16 411010001-30 1:1 EC  
00675000902
- ER 16 411010014-30 1:1 IC 80 bar  
00675000902
- ER 11 411007004-30 1:2 EC  
00675000914
- ER 11 411007015-30 1:2 IC 80 bar  
00675000914






Driven Toolholders - Enhanced Program





**Slitting saw unit**


Type 14/2 410900009-30 2,62:1 EC


00675000460


 160016142 Ø 16


 160022142 Ø 22

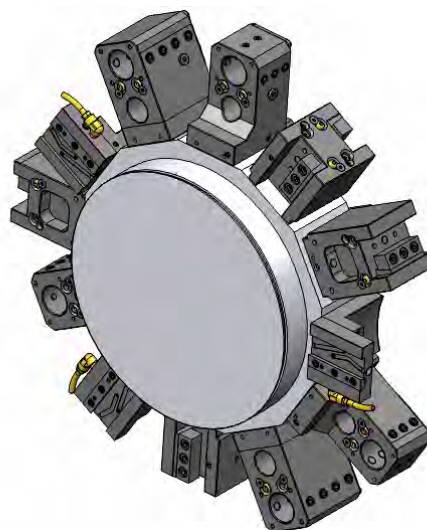
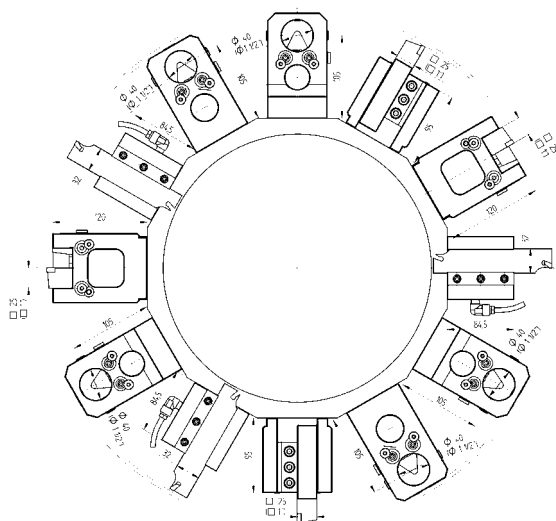
 160027142 Ø 27

 160015142 Ø 5/8"

 160019142 Ø 3/4"

 160023142 Ø 7/8"

 160025142 Ø 1"



Static Toolholders - Standard Program



**OD cutting holder, both sides**

- 25 48-87001
- 1" 48-87010



**Face and ID cutting holder**

- 25 48-69884
- 1" 48-90575



**Combination toolholder, universal**

- Ø 40 48-89407
  - 241140020 ER32
  - 241140026 ER40
- Ø 1 1/2" 48-90556
  - 2411150020 ER32



**Combination toolholder, back set - double VDI serration**

- Ø 40 48-87004
  - 241140020 ER32
- Ø 1 1/2" 48-87020
  - 2411150020 ER32



**Cut-off holder, for SH 32 - double VDI serration**

- SH 32 48-90922



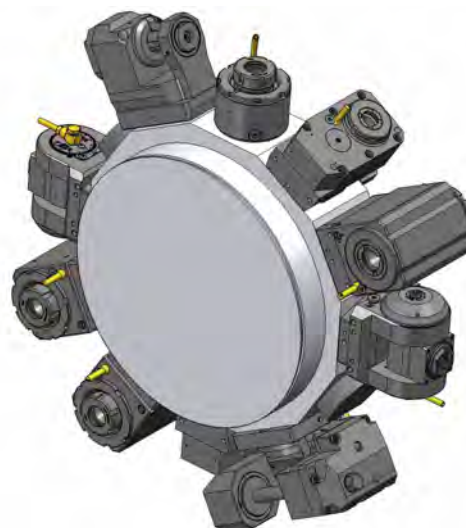
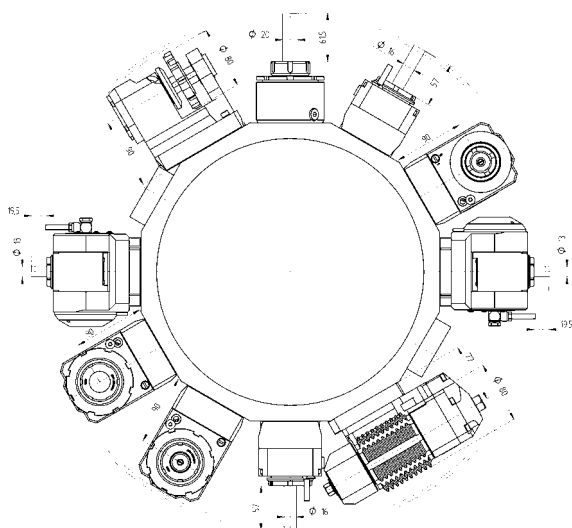
**Plug, plastic, Form Z2**

- Plastic 48-Z2-40-P









**Plug, steel, Form Z2**



- Steel 48-Z2-40-S

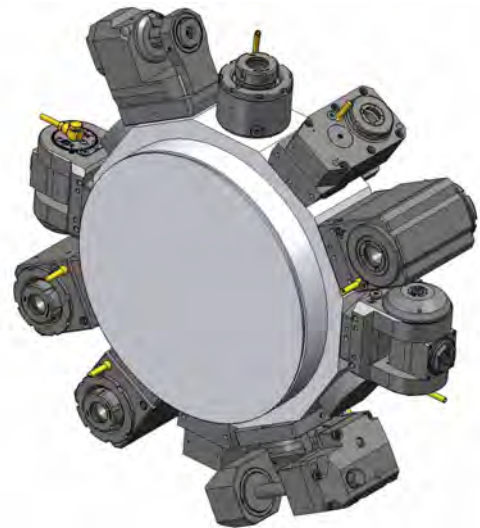
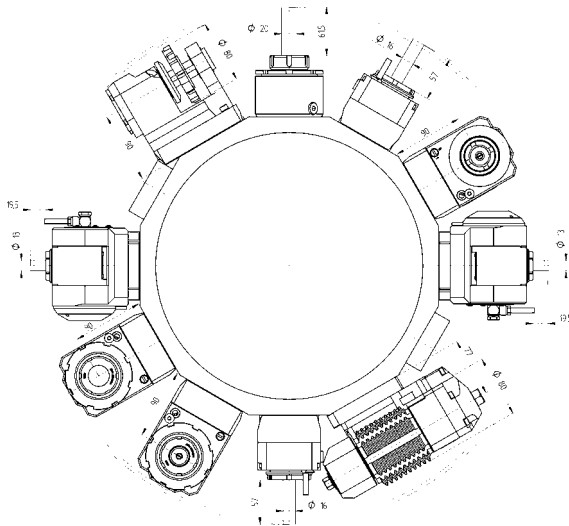


Driven Toolholders - Performance Series

	<b>Straight drill/milling unit</b>			
	<b>ER 32</b>	410120118-40	1:1	EC
		 00675000515		
	<b>Face drill/milling unit</b>			
	<b>ER 32</b>	410520033-40	1:1	EC
		 00675000490		
	<b>Face drill/milling unit, both sides</b>			
	<b>ER 32</b>	410520230-40	1:1	EC
		 00675000903		

Driven Toolholders - Enhanced Program

	<b>OD drill/milling unit, offset</b>			
	<b>ER 25</b>	410116033-40	1:1	IC 80 bar
		 00675000801		
	<b>ER 20</b>			
	410113010-40	1:2	EC	
		 00675000591		
	<b>ER 20</b>			
	410113001-40	1:2	IC 80 bar	
		 00675000591		
	<b>ER 25</b>			
	410116027-40	2:1	EC	
		 00675000801		
	<b>ER 25</b>			
	410116035-40	2:1	IC 80 bar	
		 00675000801		
	<b>Straight milling unit with combination mill arbor DIN 6358</b>			
	<b>Ø 22</b>	410222021-40	1:1	EC
		 00675000479		
	<b>Face drill/milling unit</b>			
	<b>ER 25</b>	410516072-40	1:2	EC
		 00675000801		
	<b>ER 25</b>			
	410516073-40	1:2	IC 80 bar	
		 00675000801		
	<b>ER 32</b>			
	410520115-40	2:1	EC	
		 00675000490		
	<b>ER 32</b>			
	410520125-40	2:1	IC 80 bar	
		 00675000490		
	<b>Adjustable angle drill/milling unit</b>			
	<b>ER 20</b>	411013015-40	1:1	EC
		 00675000928		
	<b>ER 20</b>			
	411013028-40	1:1	IC 80 bar	
		 00675000928		
	<b>ER 16</b>			
	411010020-40	1:2	EC	
		 00675000936		
	<b>ER 16</b>			
	411010021-40	1:2	IC 80 bar	
		 00675000936		



Driven Toolholders - Enhanced Program



**Slitting saw unit**


<b>Type 14/2</b>	410900011-40	2:1	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**


<b>Type 16/1</b>	411500019-40	1:1	EC
	00675000926		
	160016161	Ø 16	
	160022161	Ø 22	
	160027161	Ø 27	
	160015161	Ø 5/8"	
	160019161	Ø 3/4"	
	160025161	Ø 1"	
<b>Type 16/1</b>	411500020-40	2:1	EC
	00675000926		
	160016161	Ø 16	
	160022161	Ø 22	
	160027161	Ø 27	
	160015161	Ø 5/8"	
	160019161	Ø 3/4"	
	160025161	Ø 1"	

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
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 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	MK 1
240532002	MK 2
240532003	MK 3



**Reduction sleeve Ø 40**

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



**Reduction sleeve Ø 50**

240550002	MK 2
240550003	MK 3
240550004	MK 4

Collets DIN 6499B (ER/ESX)



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



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



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

Collets DIN 6499B (ER/ESX)



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



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

Collets DIN 6499B (ER/ESX)



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

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



<b>ER 11</b>		
191011030	ø 3	
191011040	ø 4	
191011050	ø 5	
191011060	ø 6	
191011070	ø 7	
191011013-in		
191011019-in		
191011025-in		



<b>ER 16</b>		
191016000	ø 4-10	
191016030	ø 3	
191016040	ø 4	
191016050	ø 5	
191016060	ø 6	
191016070	ø 7	
191016080	ø 8	
191016090	ø 9	
191016100	ø 10	
191016013-in		
191016019-in		
191016025-in		
191016031-in		
191016038-in		



<b>ER 20</b>		
191020000	ø 4-12	
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	
191020130	ø 13	
191020013-in		
191020019-in		
191020025-in		
191020031-in		
191020038-in		
191020044-in		
191020050-in		

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

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



**ER 25**

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
191025013-in	
191025019-in	
191025025-in	
191025031-in	
191025038-in	
191025044-in	
191025050-in	
191025056-in	
191025063-in	



**ER 40**

191040040	ø 4
191040060	ø 6
191040070	ø 7
191040080	ø 8
191040090	ø 9
191040100	ø 10
191040120	ø 12
191040140	ø 14
191040160	ø 16
191040180	ø 18
191040200	ø 20
191040220	ø 22
191040250	ø 25
191040025-in	
191040031-in	
191040038-in	
191040044-in	
191040050-in	
191040056-in	
191040063-in	
191040075-in	
191040088-in	
191040100-in	

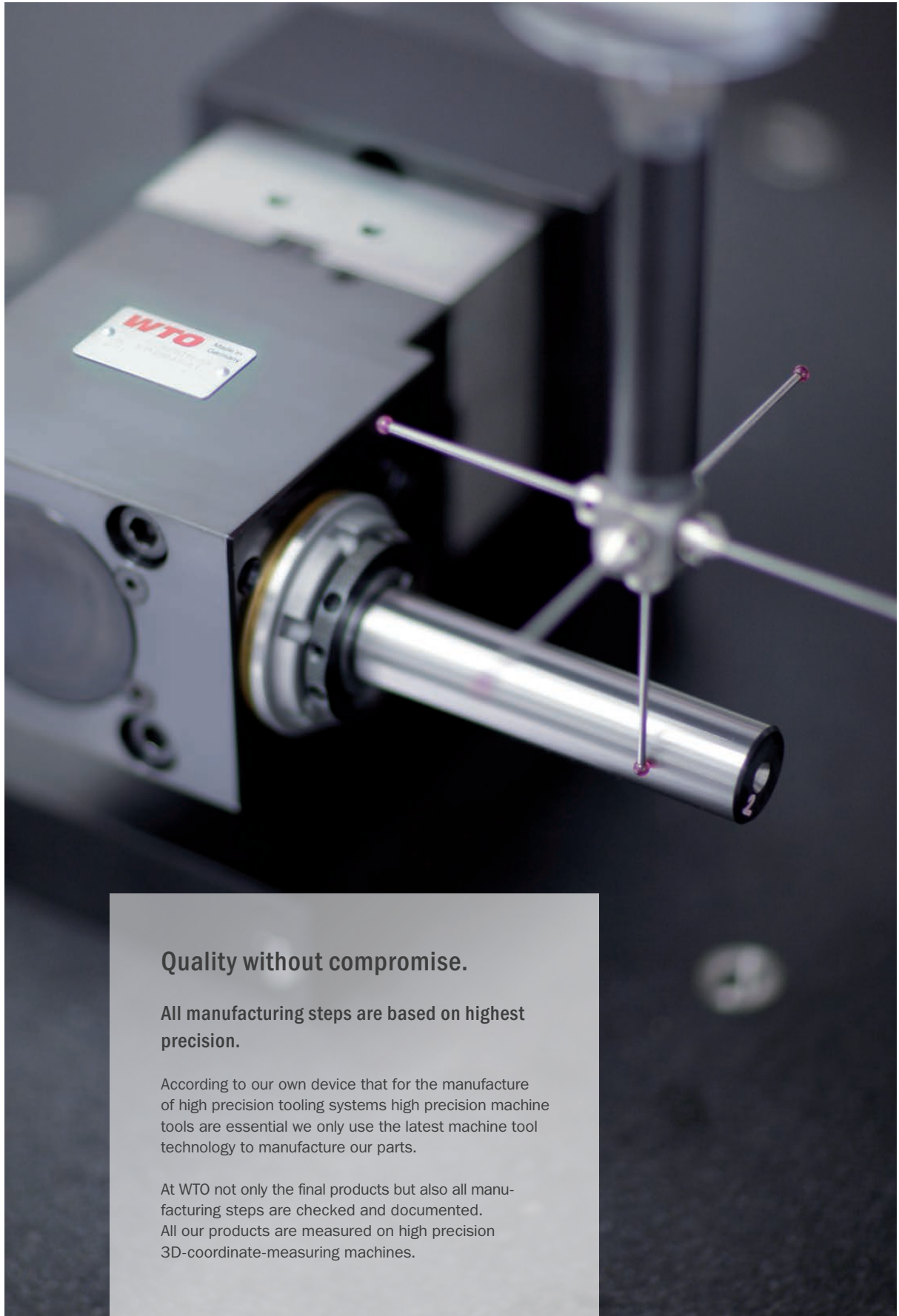


**ER 32**

191032000	ø 6-20
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
191032013-in	
191032019-in	
191032025-in	
191032031-in	
191032038-in	
191032044-in	
191032050-in	
191032056-in	
191032063-in	
191032075-in	







### Quality without compromise.

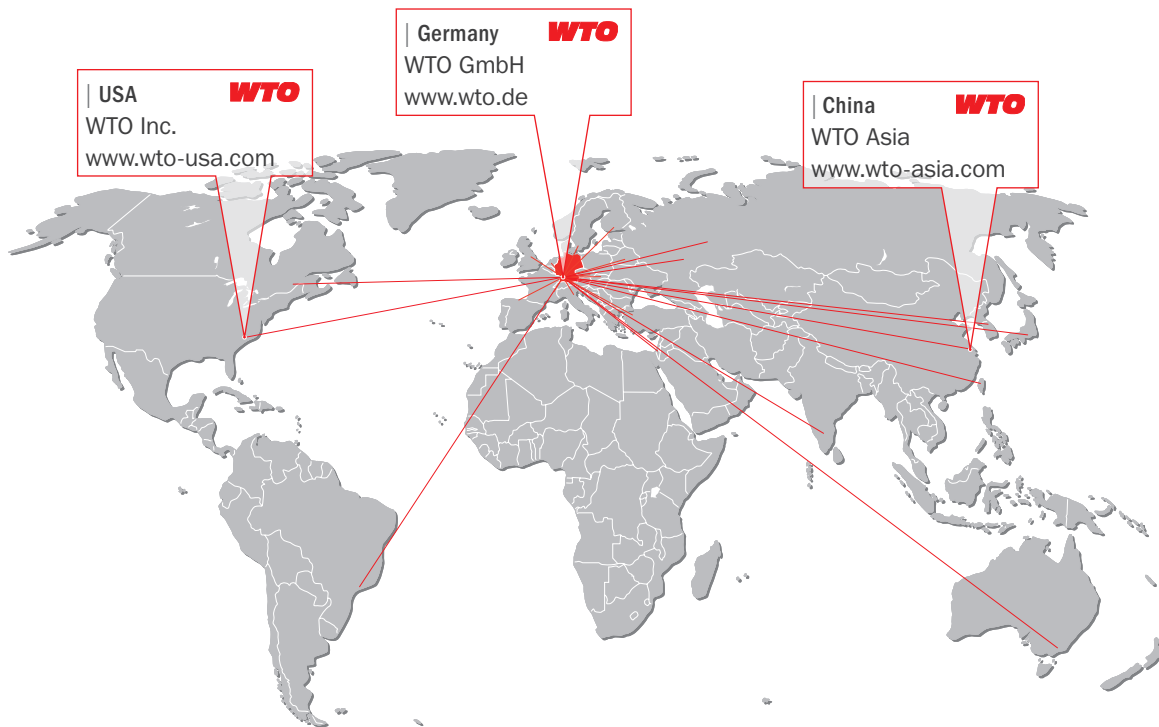
All manufacturing steps are based on highest precision.

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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