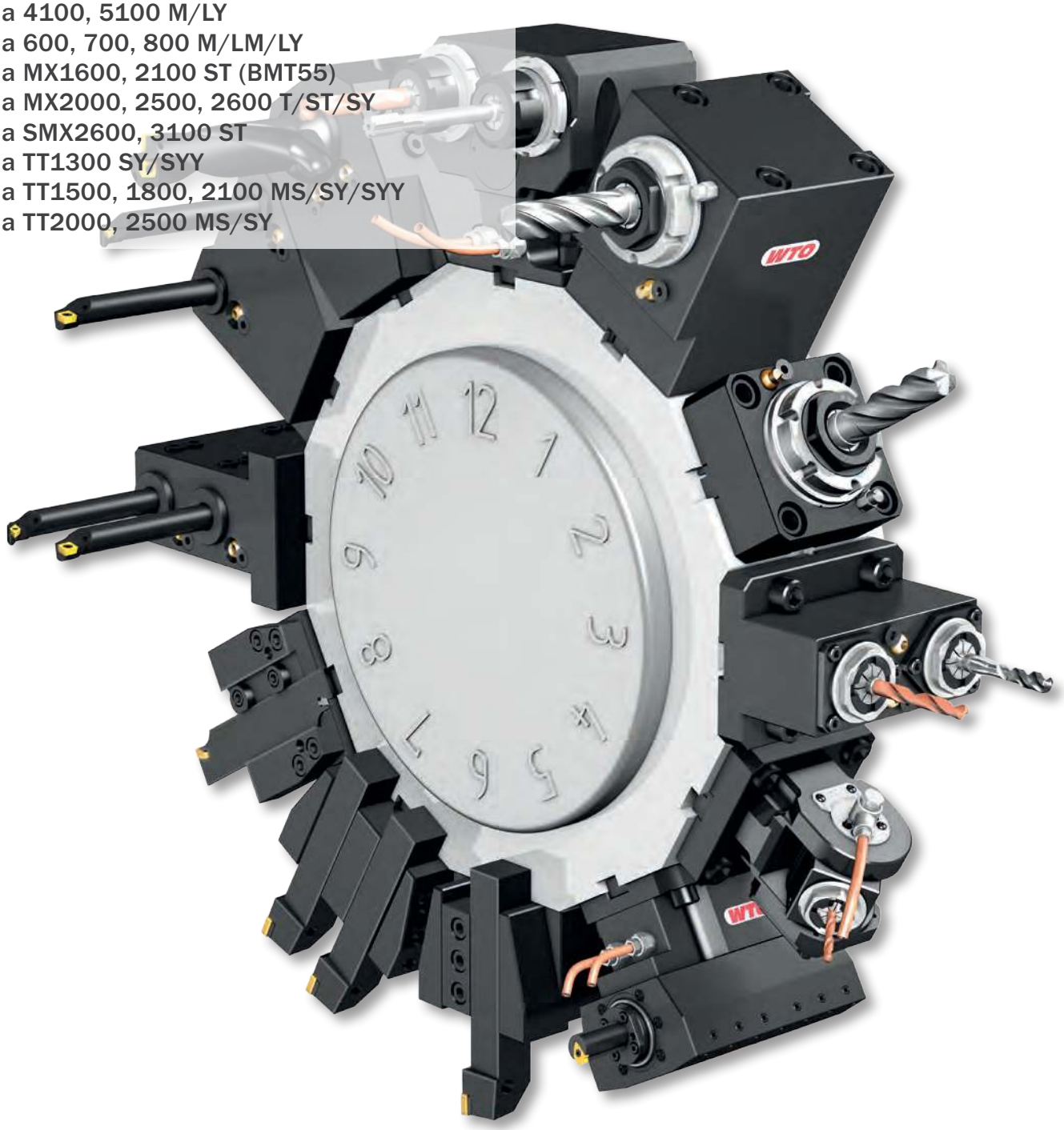
Toolholder Program

Lynx 220 M/LM
Lynx 220 LMS/LY/LSY, Lynx 2100 M/MS/LY/LSY
Lynx 300 M, Puma GT2100, 2600 M
Puma 2100,2600(II) M/MS/Y/SY (BMT55)
Puma 2100,2600(II) M/MS/Y/SY (BMT65)
Puma 2100, 2600 Y/SY (16ST, BMT55)
Puma 3100 M/Y, GT3100 M
Puma 4100, 5100 M/LY
Puma 600, 700, 800 M/LM/LY
Puma MX1600, 2100 ST (BMT55)
Puma MX2000, 2500, 2600 T/ST/SY
Puma SMX2600, 3100 ST
Puma TT1300 SY/SYY
Puma TT1500, 1800, 2100 MS/SY/SYY
Puma TT2000, 2500 MS/SY



QuickFlex®

The new quick change system for
high performance and precision.

Minimal investment, maximal expandability.

Designed
for
BMT Turrets

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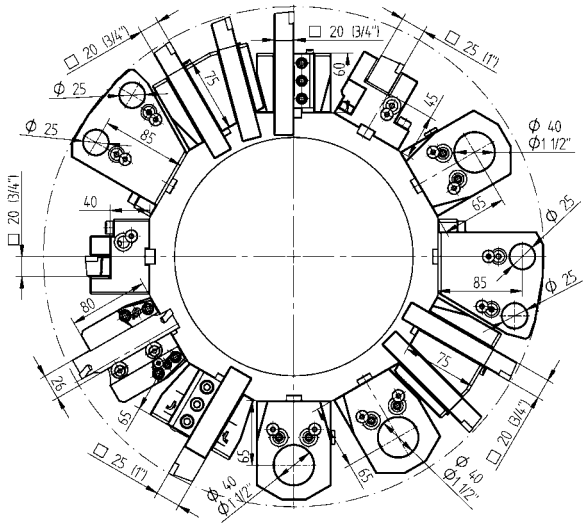
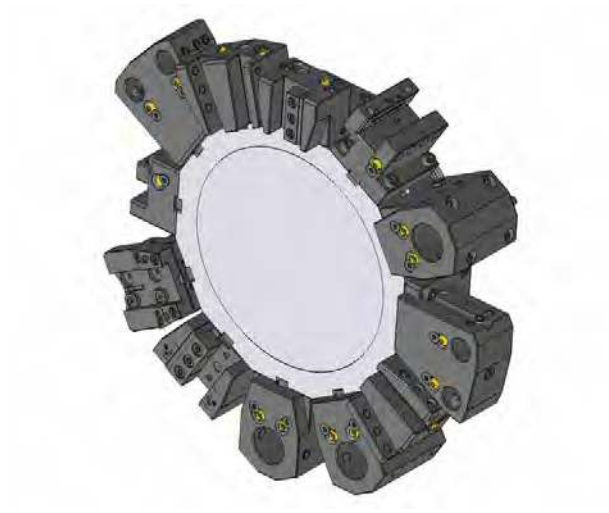
EC = External coolant supply
HP-IC = High pressure internal coolant supply through cutting tool
IC 80 bar = Internal and external coolant supply
Max. coolant pressure = 80 bar
IC 30 bar = Internal and external coolant supply
Max. coolant pressure = 30 bar
Only use filtered coolant fluid (max. particle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





Static Toolholders - Standard Program

OD cutting holder

20	48-95083	
3/4"	48-95084	

OD cutting holder, HP-IC

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

Face cutting holder

20	48-109148

Face cutting holder

3/4"	48-95338

Face cutting holder, HP-IC

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

Combination toolholder, LF=65

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

Static Toolholders - Enhanced Program

OD cutting holder, double, 24 station

20	48-95087

Cut-off holder, adjustable

SH 26	48-94968

Cut-off holder, adjustable, HP-IC

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

Boring bar holder, double, 24 station

Ø 25	48-95091

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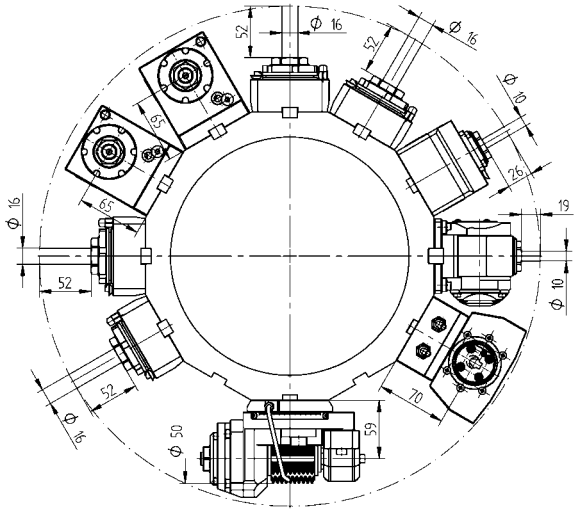


Driven Toolholders - QuickFlex®

Straight drill/milling unit

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

Straight drill/milling unit (12000 RPM)

ER-25 QF	420125019-45	1:1	EC
	0067725000		
ER-25 QF	420125020-45	1:1	IC 80 bar
	0067725000		

Right angle drill/milling unit

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

Right angle drill/milling unit (12000 RPM)

ER-25 QF	420525038-45	1:1	EC
	0067725000		
ER-25 QF	420525039-45	1:1	IC 80 bar
	0067725000		

Driven Toolholders - Enhanced Program

Straight offset drill/milling unit

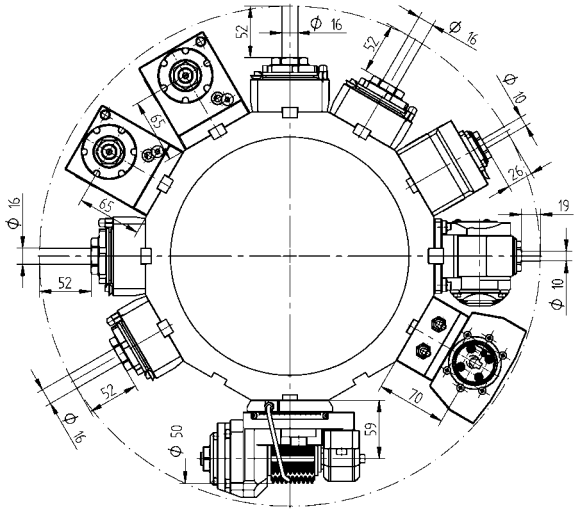
ER 16	410410008-45	1:3	EC
	00675000937		
ER 16	410410002-45	1:3	IC 80 bar
	00675000937		

Right angle drill/milling unit

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

Adjustable angle drill/milling unit

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



Driven Toolholders - Enhanced Program

Gear hobbing unit

Type 15-2 410900001-45 1:1 EC

- 00675001015
- 160008152 Ø 8
- 160010152 Ø 10
- 160013152 Ø 13
- 160016152 Ø 16
- 160022152 Ø 22
- 160015152 Ø 5/8"
- 160019152 Ø 3/4"
- 96394

Broaching unit for ID and OD

TN765050 414532000-45 1:1 EC

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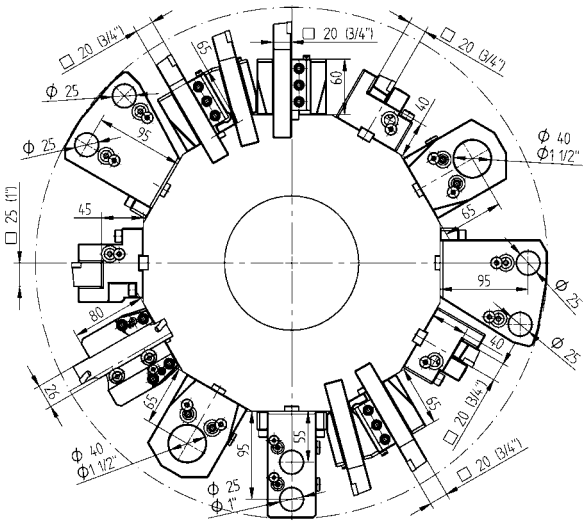


Static Toolholders - Standard Program

OD cutting holder

20	48-95083	
3/4"	48-95084	

OD cutting holder, HP-IC

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

OD cutting holder, both sides

20	48-95085
3/4"	48-95086

OD cutting holder, both sides, HP-IC

20	48-95085-HP	IC 80 bar
3/4"	48-95086-HP	IC 80 bar

Face cutting holder

20	48-109148

Face cutting holder

3/4"	48-95338

Face cutting holder, HP-IC

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

Combination toolholder, LF=65

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

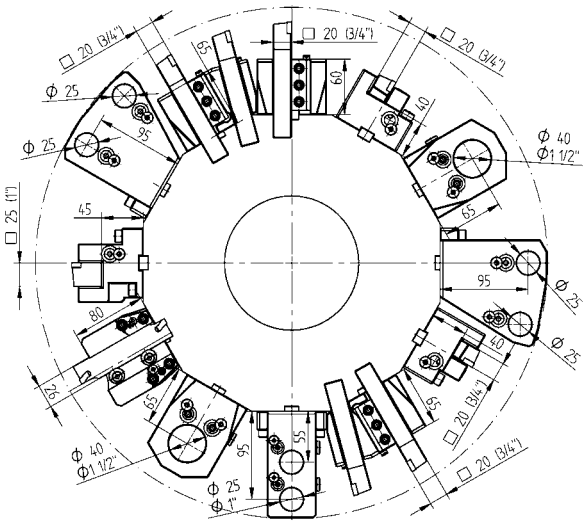
Static Toolholders - Standard Program

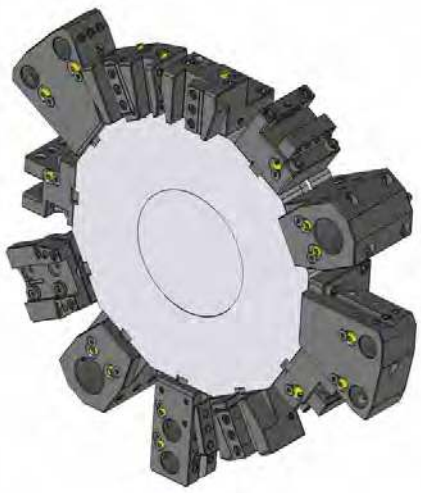
Combination toolholder, universal, LF=85

Ø 32	48-95998	IC 80 bar
	241132016 ER25	
	241132020 ER32	
Ø 1 1/4"	48-96029	IC 80 bar
	2411125020 ER32	

Boring bar holder universal, double

Ø 25	48-95093
Ø 1"	48-95325





Static Toolholders - Enhanced Program

OD cutting holder, double, 24 station

20	48-95088

OD cutting holder, both sides, double, 24 station

20	48-95355

OD cutting holder, both sides, double, Y axis

20 (3/4")	48-110811

Cut-off holder, adjustable

SH 26	48-94968

Cut-off holder, adjustable, HP-IC

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

Boring bar holder, universal, double, 24 station

Ø 25	48-95092

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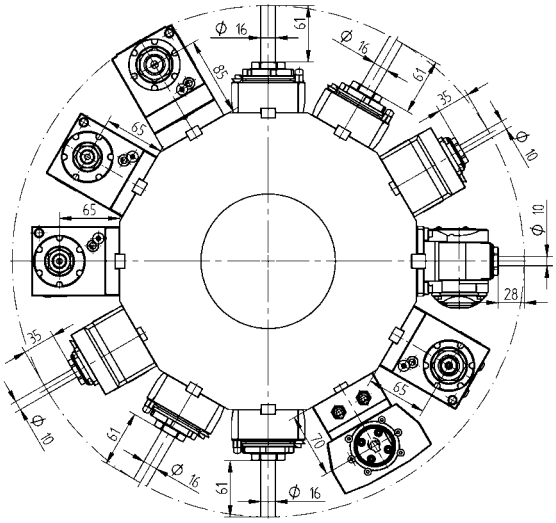


Driven Toolholders - QuickFlex®

Straight drill/milling unit

ER-25 QF 420125015-45 1:1 EC
0067725000

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

Straight drill/milling unit (12000 RPM)

ER-25 QF 420125019-45 1:1 EC
0067725000

ER-25 QF 420125020-45 1:1 IC 80 bar
0067725000

Right angle drill/milling unit

ER-25 QF 420525015-45 1:1 EC
0067725000

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

Right angle drill/milling unit (12000 RPM)

ER-25 QF 420525038-45 1:1 EC
0067725000

ER-25 QF 420525039-45 1:1 IC 80 bar
0067725000

Right angle back set drill/milling unit, LF=85

ER-25 QF 420525024-45 1:1 EC
0067725000

ER-25 QF 420525025-45 1:1 IC 80 bar
0067725000

Driven Toolholders - QuickFlex®

Right angle back set drill/milling unit, LF=85, (12000 RPM)

ER-25 QF 420525049-45 1:1 EC
0067725000

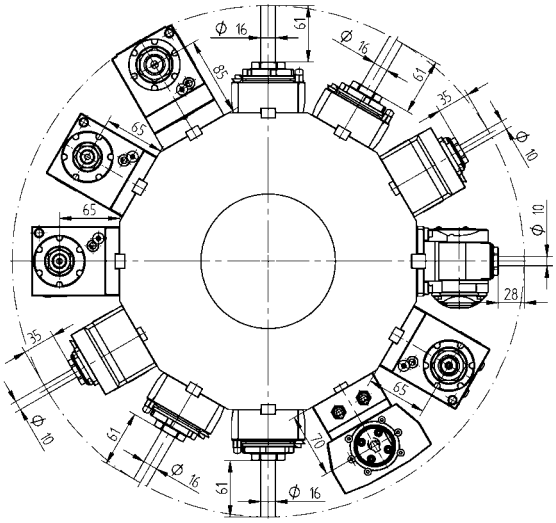
ER-25 QF 420525050-45 1:1 IC 80 bar
0067725000

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

ER-25 QF 420525043-45 1:1 EC
0067725000

Right angle drill/milling unit, both sides, LF=85, (12000 RPM)

ER-25 QF 420525051-45 1:1 EC
0067725000



Driven Toolholders - Enhanced Program

Straight offset drill/milling unit

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

Right angle drill/milling unit

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

Adjustable angle drill/milling unit

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

Driven Toolholders - Enhanced Program

Gear hobbing unit

Type 15-2	410900001-45	1:1	EC
	00675001015		
	160008152 Ø 8		
	160010152 Ø 10		
	160013152 Ø 13		
	160016152 Ø 16		
	160022152 Ø 22		
	160015152 Ø 5/8"		
	160019152 Ø 3/4"		
	96394		

Broaching unit for ID and OD

TN765050	414532000-45	1:1	EC

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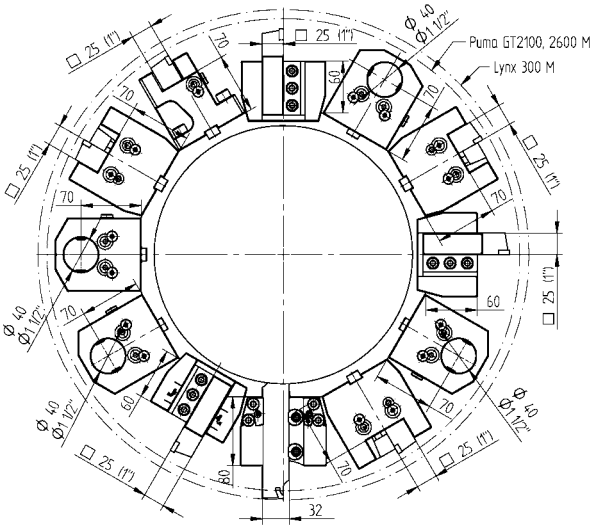
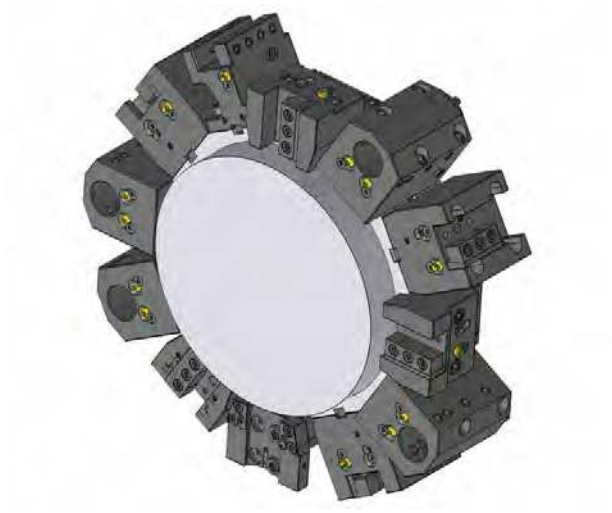




Static Toolholders - Standard Program

OD cutting holder

25	48-87097	
1"	48-87098	

OD cutting holder, HP-IC

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

Face cutting holder

25	48-87101
1"	48-87102

Face cutting holder, HP-IC

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

Combination toolholder, LF=70

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

Cover plate

48-87111

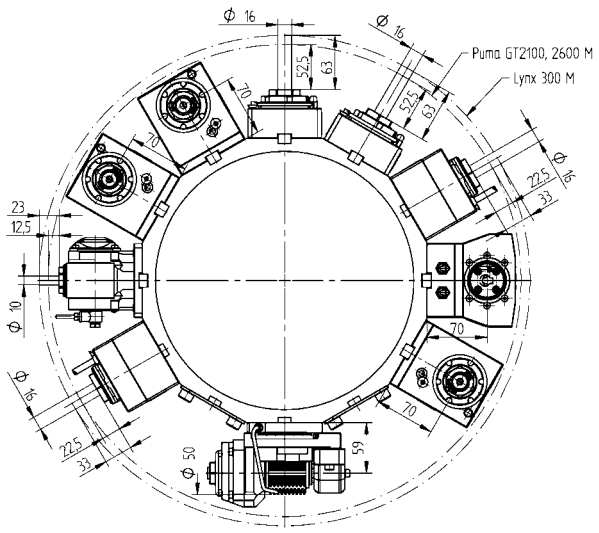
Static Toolholders - Enhanced Program

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=70

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

Driven Toolholders - Enhanced Program

Straight drill/milling unit

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

Straight milling unit with combination mill arbor DIN 6358

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

Straight offset drill/milling unit

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

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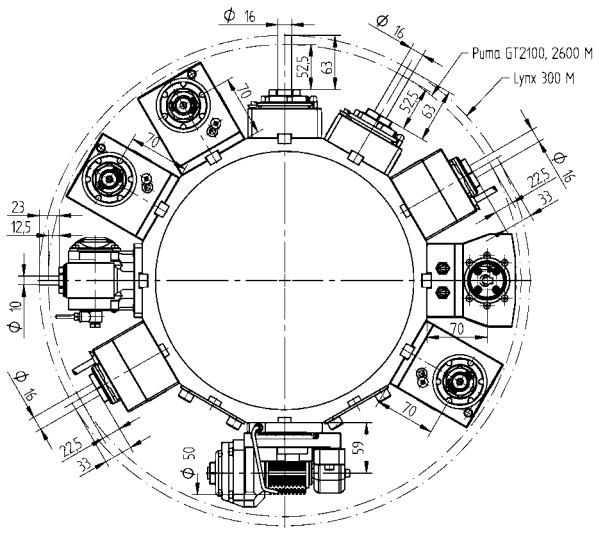


Driven Toolholders - Enhanced Program

Right angle drill/milling unit, LF=70

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

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

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

Adjustable angle drill/milling unit

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

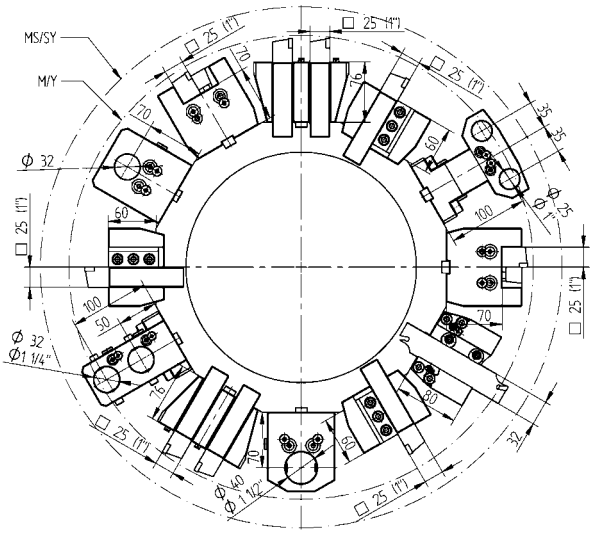
Driven Toolholders - Enhanced Program

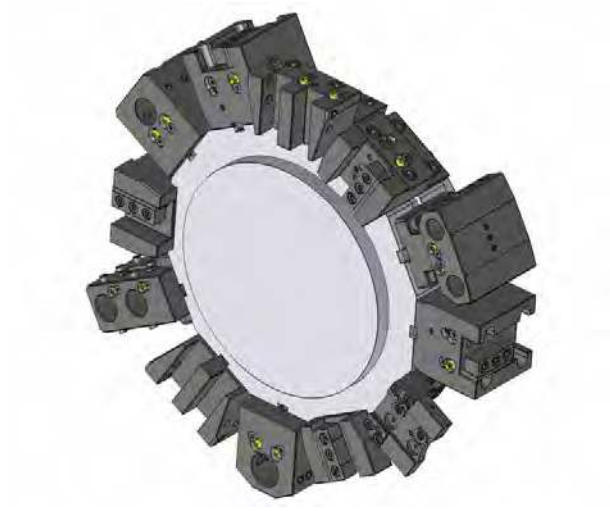
Gear hobbing unit

Type 15-2	410900002-55	1:1	EC
	00675001015		
	160008152 Ø 8		
	160010152 Ø 10		
	160013152 Ø 13		
	160016152 Ø 16		
	160022152 Ø 22		
	160015152 Ø 5/8"		
	160019152 Ø 3/4"		
	96394		

Broaching unit for ID and OD

TN765050	414532001-55	1:1	EC





Static Toolholders - Standard Program (12ST)

Static Toolholders - Standard Program (12ST)

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

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

25	48-87101
1"	48-87102

Face cutting holder, HP-IC

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

Combination toolholder, LF=70

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

Boring bar holder, double

Ø 32	48-87149
Ø 1 1/4"	48-87150

Cover plate

48-87111

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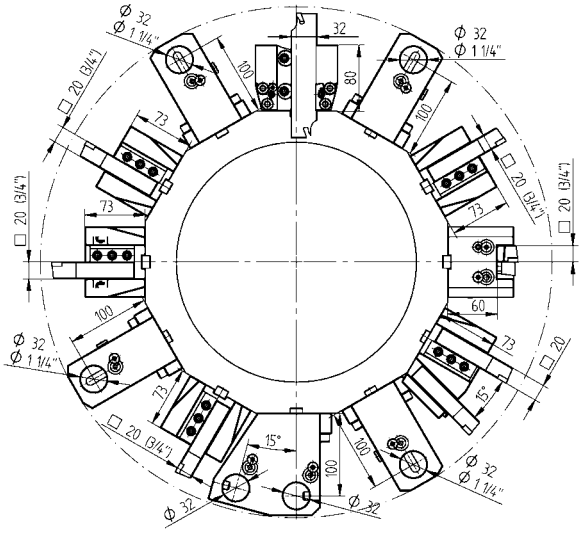
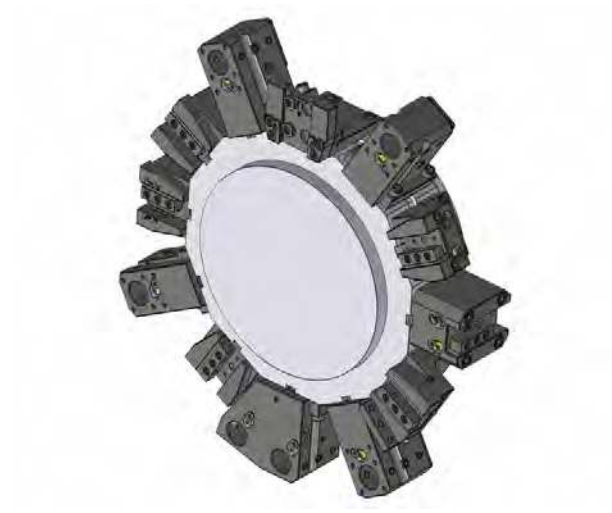




Static Toolholders - Standard Program (24ST)

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=100

Ø 32	48-92043	IC 80 bar
	241132016 ER25	
	241132020 ER32	
Ø 1 1/4"	48-92044	IC 80 bar
	2411125020 ER32	

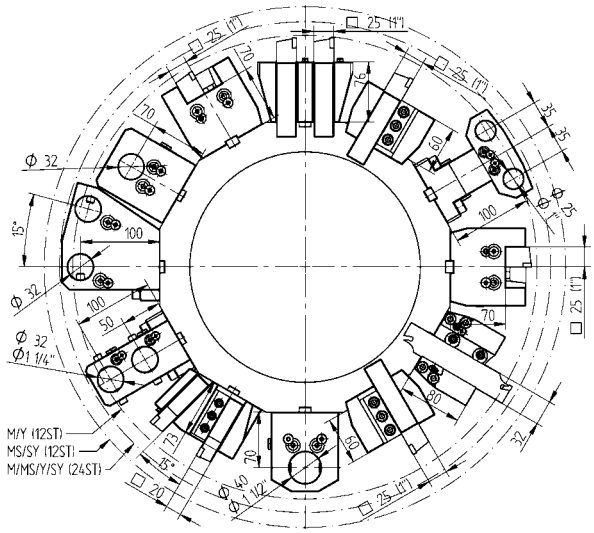
Boring bar holder, double

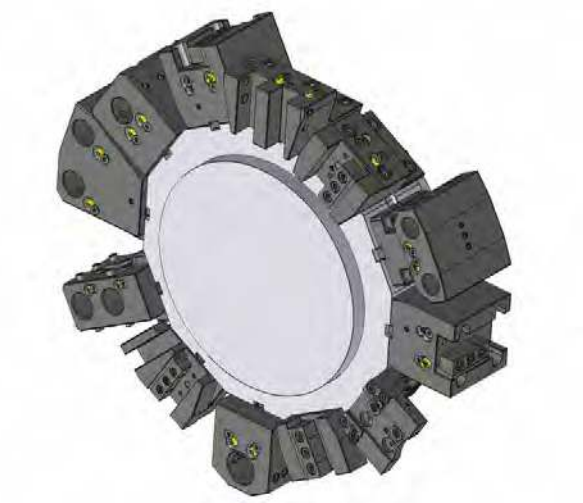
Ø 32	48-87149
Ø 1 1/4"	48-87150

Static Toolholders - Standard Program (24ST)

Cover plate

48-87111





Static Toolholders - Enhanced Program

OD cutting holder, double, 24 station

20	48-92069	EC

OD cutting holder, both sides, double, 24 station

20	48-92071

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

Ø 25	48-87147
Ø 1"	48-87148

Boring bar holder, double, 24 station

Ø 32	48-92073

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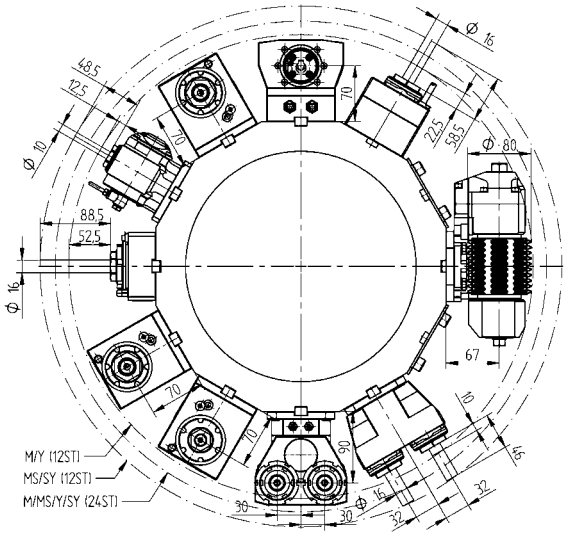


Driven Toolholders - QuickFlex®

Straight drill/milling unit

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

Right angle drill/milling unit, LF=70

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

Right angle drill/milling unit, both sides, LF=70

ER-25 QF	420525017-55	1:1	EC
	0067725000		

Driven Toolholders - Enhanced Program

Straight drill/milling unit

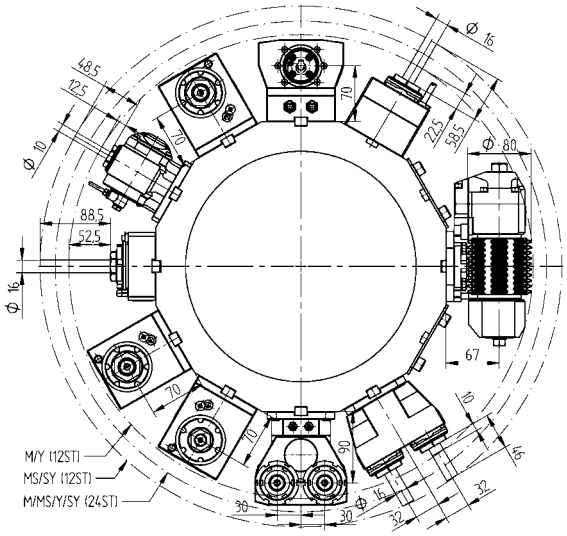
ER 32	410120010-55	1:1	EC
	0067725000		
ER 32	410120011-55	1:1	IC 80 bar
	0067725000		

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=70

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

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

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

Right angle back set drill/milling unit

ER 25	410516024-55	1:1	EC
	00675000801		
ER 25	410516025-55	1:1	IC 80 bar
	00675000801		

Driven Toolholders - Enhanced Program

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		

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"		
	96394		

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		

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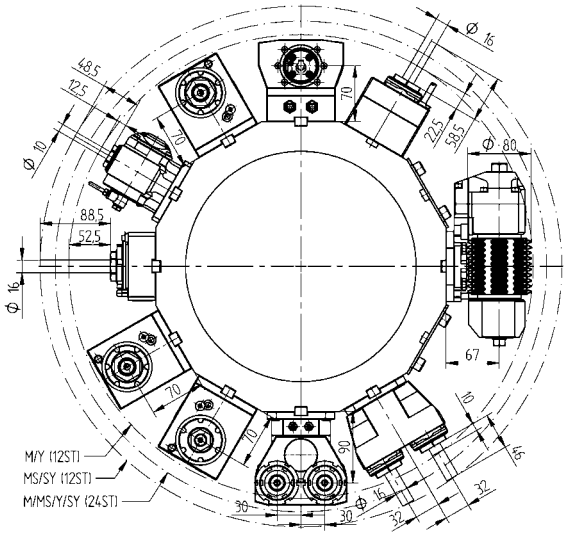


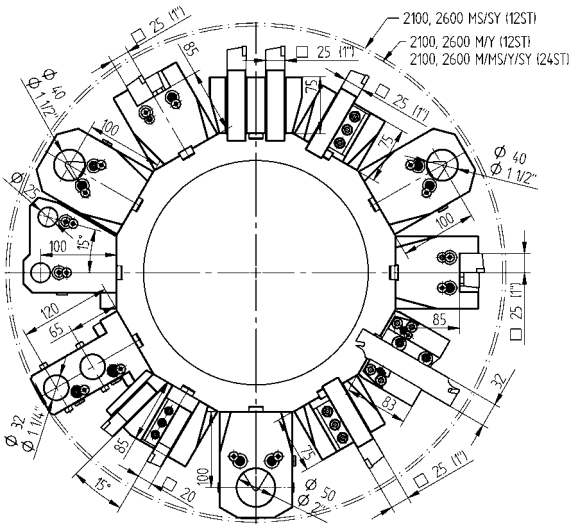
Driven Toolholders - Enhanced Program

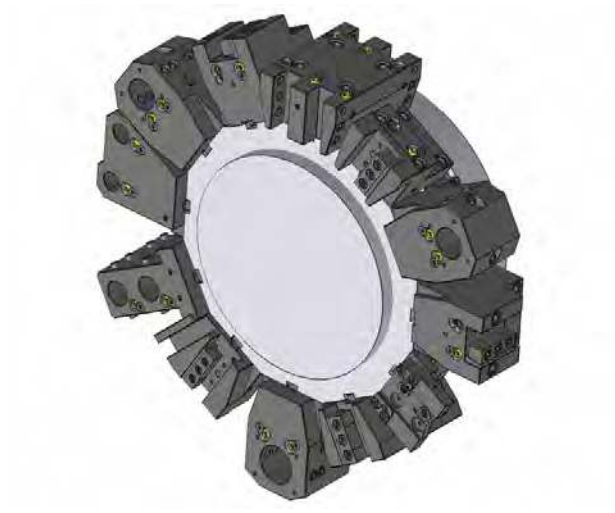
2-spindle - Right angle drill/milling unit, both sides, Y axis

ER 25	413502006-55	1:1	EC
	00675000915		

Broaching unit for ID and OD

TN765050	414532001-55	1:1	EC





Static Toolholders - Standard Program

OD cutting holder

25	48-92428	
1"	48-92466	

OD cutting holder, HP-IC

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

OD cutting holder, both sides

25	48-92438
1"	48-92472

OD cutting holder, both sides, HP-IC

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

Face cutting holder, 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, both sides

Ø 32	48-101033

Static Toolholders - Standard Program

Boring bar holder, double

Ø 32	48-84524
Ø 1 1/4"	48-86905

Cover plate

48-87089

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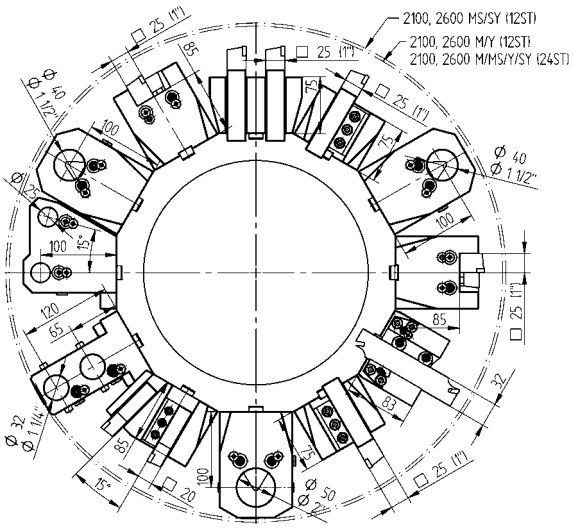
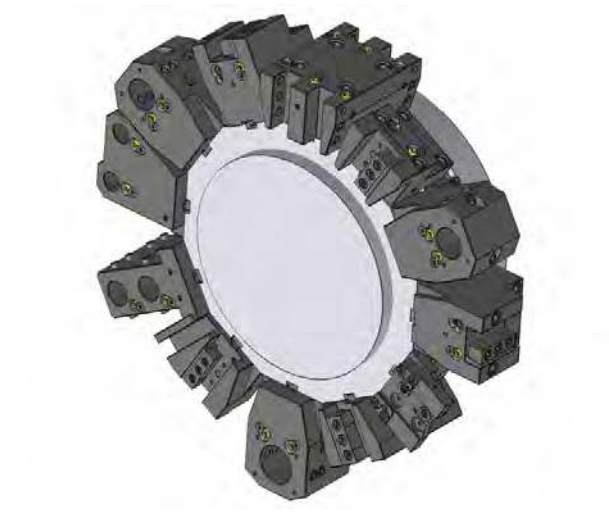




Static Toolholders - Enhanced Program

OD cutting holder, short

25	48-86991
1"	48-86992

OD cutting holder, short, HP-IC

25	48-86991-HP	IC 80 bar
1"	48-86992-HP	IC 80 bar

OD cutting holder, long

25	48-86711
1"	48-86712

OD cutting holder, both sides, long

25	48-84523
1"	48-86718

OD cutting holder, double, 24 station

20	48-92089

OD cutting holder, both sides, double, 24 station

20	48-92091

OD cutting holder, double, Y axis

25(1")	48-86103

OD cutting holder, both sides, double, Y axis

25(1")	48-86150

Static Toolholders - Enhanced Program

Cut-off holder, adjustable

SH 32	48-99060

Cut-off holder, adjustable, HP-IC

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

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

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

Boring bar holder, double, 24 station

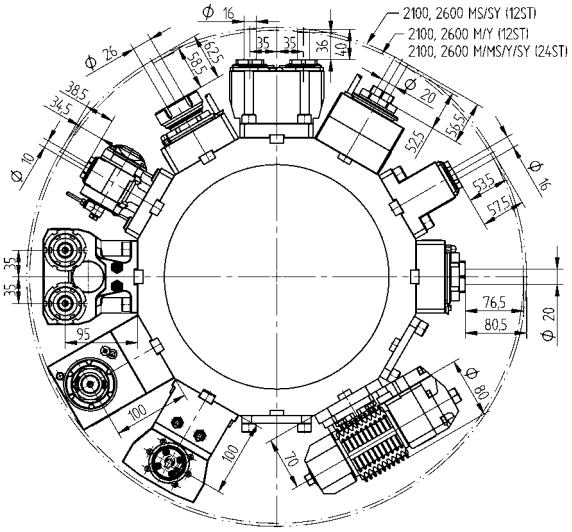
Ø 25	48-92102

Combination toolholder, both sides, double, 24 station

Ø 25	48-109092
Ø 1"	48-108887

Boring bar holder, double, both sides

Ø 32	48-86160
Ø 1 1/4"	48-86274



Driven Toolholders - QuickFlex®

Straight drill/milling unit

ER-32 QF	420132015-65	1:1	EC
	0067732000		
ER-32 QF	420132016-65	1:1	IC 80 bar
	0067732000		

Right angle drill/milling unit, LF=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		

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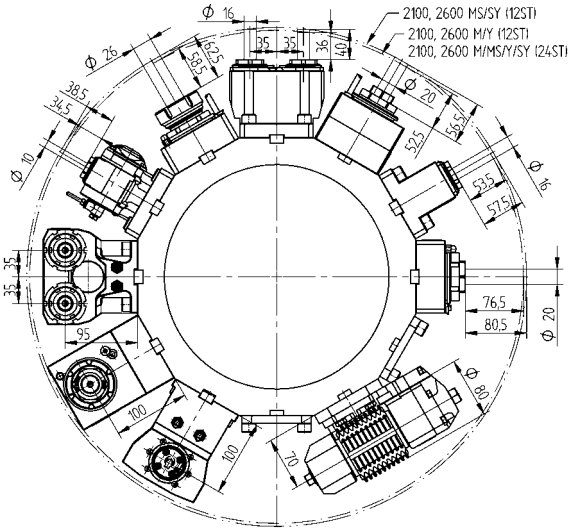


Driven Toolholders - Enhanced Program

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		

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

Ø 22	410622002-65	1:1	EC
	00675000483		
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		

Driven Toolholders - Enhanced Program

Gear hobbing unit

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

Straight drill/milling unit, both sides

ER 25	413002001-65	1:1	EC
	00675000907		

Straight drill/milling unit, double, Y axis

ER 25	413002004-65	1:1	EC
	00675000907		

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

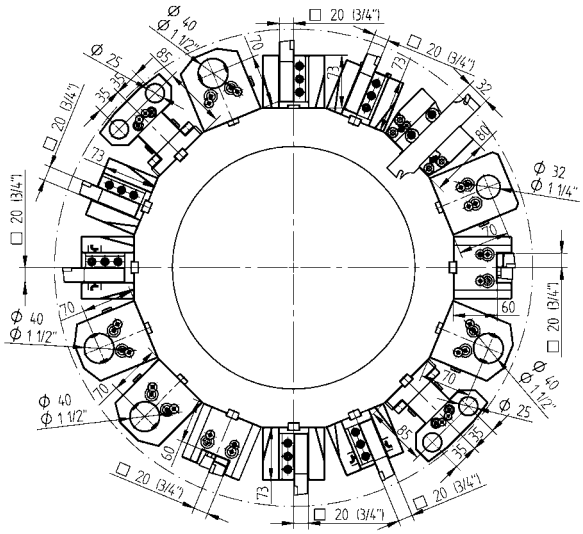
ER 25	413502006-65	1:1	EC
	00675000915		
ER 25	413502007-65	1:1	IC 80 bar
	00675000915		

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

ER 25	413502008-65	1:1	EC
	00675000915		

Broaching unit for ID and OD

TN765050	414532000-65	1:1	EC



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, 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, LF=70

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

Cover plate

48-87111

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

Boring bar holder, both sides, double, Y axis, short

Ø 25	48-98353

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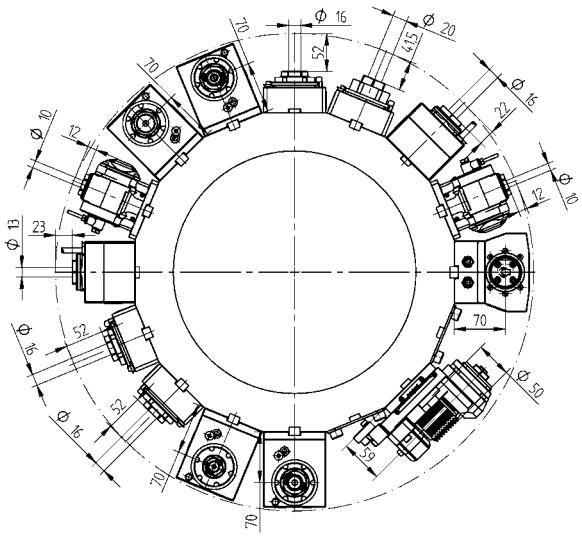


Driven Toolholders - QuickFlex®

Straight drill/milling unit

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

Right angle drill/milling unit, LF=70

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

Right angle drill/milling unit, both sides, LF=70

ER-25 QF	420525017-55	1:1	EC
	0067725000		

Driven Toolholders - Enhanced Program

Straight drill/milling unit

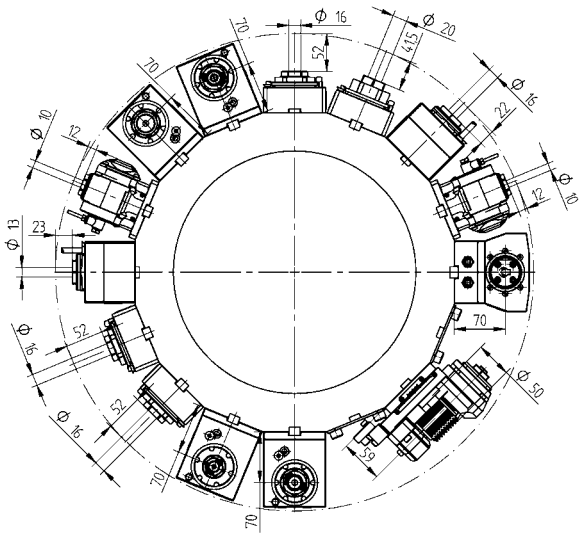
ER 32	410120010-55	1:1	EC
	0067725000		
ER 32	410120011-55	1:1	IC 80 bar
	0067725000		

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=70

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

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

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

Right angle back set drill/milling unit

ER 25	410516024-55	1:1	EC
	00675000801		
ER 25	410516025-55	1:1	IC 80 bar
	00675000801		

Driven Toolholders - Enhanced Program

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		

Gear hobbing unit

Type 15-2	410900002-55	1:1	EC
	00675001015		
	160008152 Ø 8		
	160010152 Ø 10		
	160013152 Ø 13		
	160016152 Ø 16		
	160022152 Ø 22		
	160015152 Ø 5/8"		
	160019152 Ø 3/4"		
	96394		

Broaching unit for ID and OD

TN765050	414532001-55	1:1	EC

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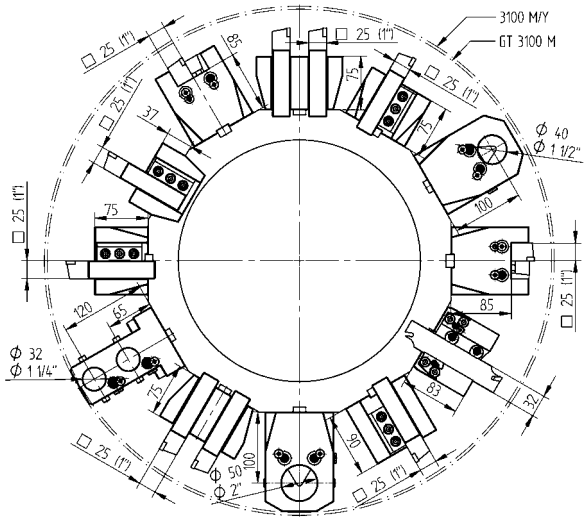
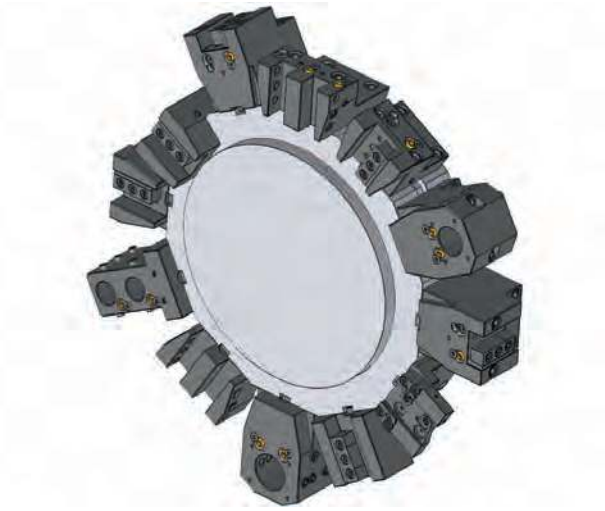




Static Toolholders - Standard Program

OD cutting holder

25	48-92428	
1"	48-92466	

OD cutting holder, HP-IC

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

Face cutting holder, 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

Static Toolholders - Enhanced Program

OD cutting holder, short

25	48-86991
1"	48-86992

OD cutting holder, short, HP-IC

25	48-86991-HP	IC 80 bar
1"	48-86992-HP	IC 80 bar

OD cutting holder, long

25	48-86711
1"	48-86712

OD cutting holder, double, Y axis

25(1")	48-86103

Cut-off holder, adjustable

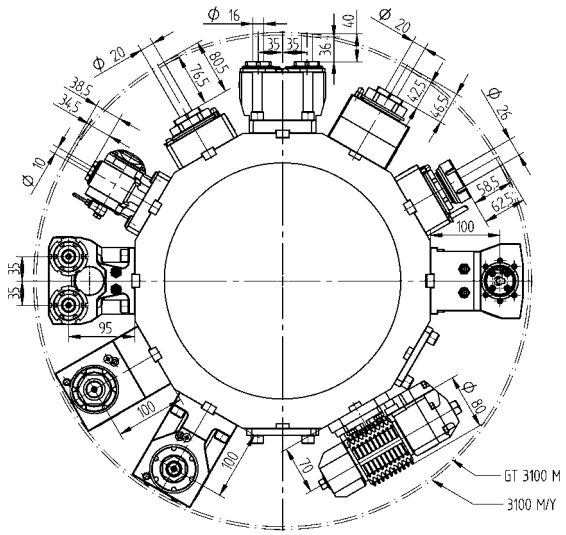
SH 32	48-99060

Cut-off holder, adjustable, HP-IC

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

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		

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		

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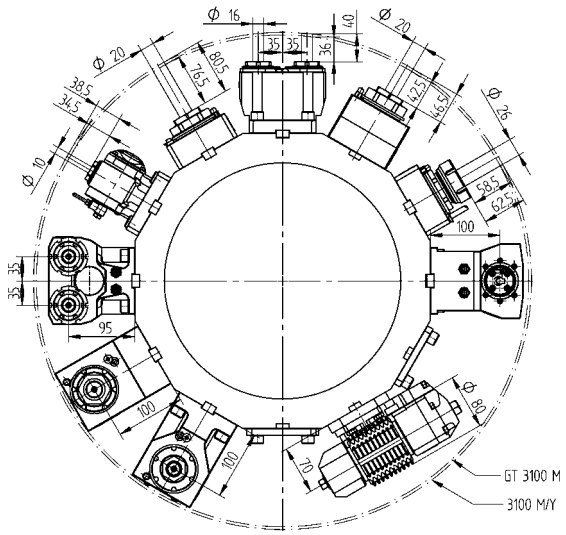


Driven Toolholders - Enhanced Program

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		

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

Ø 22	410622002-65	1:1	EC
	00675000483		
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		

Driven Toolholders - Enhanced Program

Gear hobbing unit

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

Straight drill/milling unit, double, Y axis

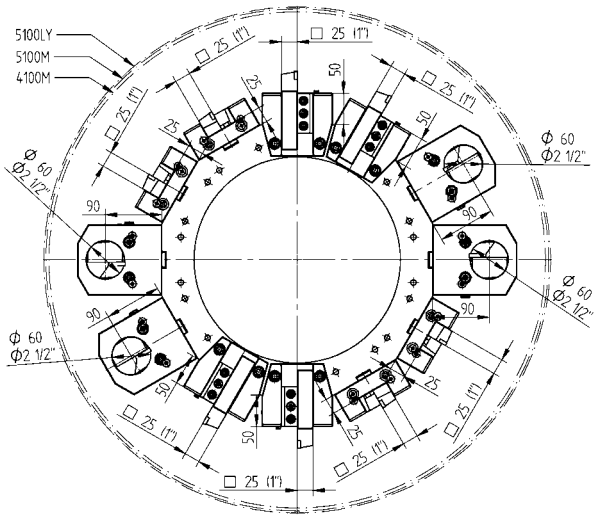
ER 25	413002004-65	1:1	EC
	00675000907		

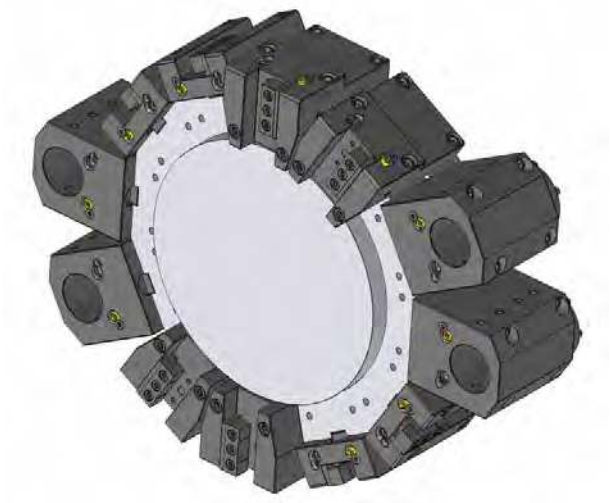
2-spindle - Right angle drill/milling unit, Y axis

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

Broaching unit for ID and OD

TN765050	414532000-65	1:1	EC





Static Toolholders - Standard Program

OD cutting holder

25	48-96421
1"	48-96422

Face cutting holder

25	48-96355
1"	48-96357

Combination toolholder, LF=90

Ø 60	48-104448	IC 80 bar
Ø 2 1/2"	48-104449	IC 80 bar

Static Toolholders - Enhanced Program

OD cutting holder, double, Y axis

25(1")	48-112317

VDI adapter, right, LF=110

VDI 50	48-112600

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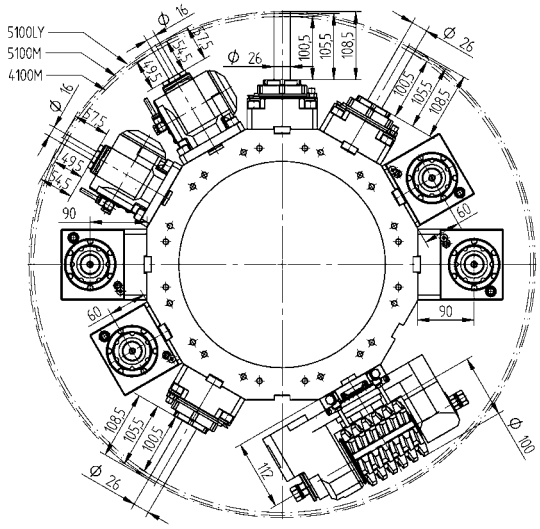


Driven Toolholders - QuickFlex®

OD drill/milling unit

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

Face drill/milling unit, LF=60

ER-40 QF	420540015-75	1:1	EC
	0067740000		
ER-40 QF	420540016-75	1:1	IC 80 bar
	0067740000		

Face drill/milling unit, LF=90

ER-40 QF	420540017-75	1:1	EC
	0067740000		
ER-40 QF	420540018-75	1:1	IC 80 bar
	0067740000		

Driven Toolholders - Enhanced Program

Face drill/milling unit, LF=60

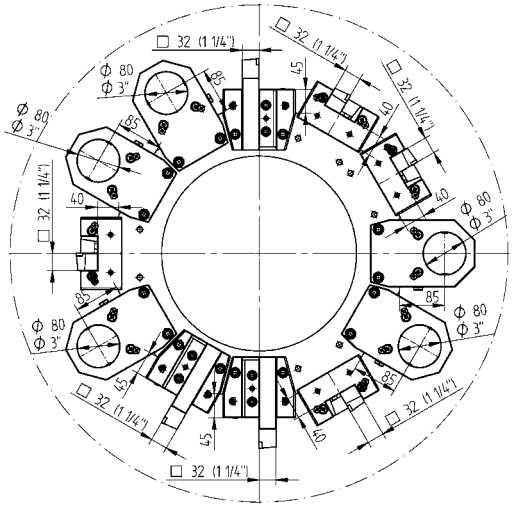
ER-32 QF	420532010-75	1:2	EC
	0067732001		
ER-32 QF	420532011-75	1:2	IC 80 bar
	0067732001		
ER-40 QF	420540021-75	2:1	EC
	0067740000		
ER-40 QF	420540022-75	2:1	IC 80 bar
	0067740000		

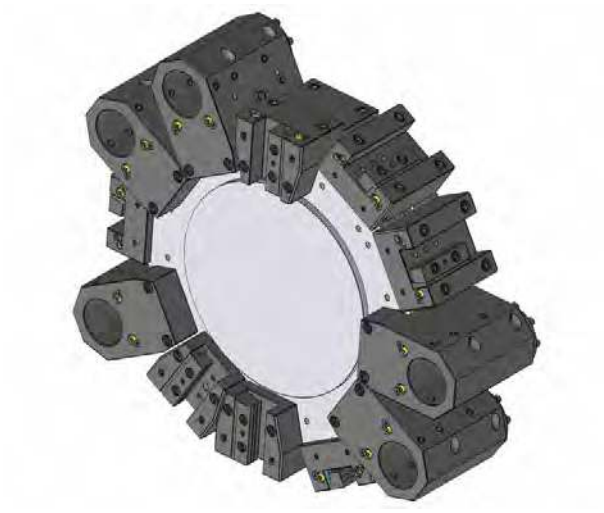
Adjustable angle drill/milling unit

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

Gear hobbing unit

Type C5-1	410900001-75	2:1	EC
	00675001008		
	160022C51 Ø 22		
	160027C51 Ø 27		
	160032C51 Ø 32		
	160015C51 Ø 5/8"		
	160019C51 Ø 3/4"		
	160025C51 Ø 1"		
	160031C51 Ø 1 1/4"		





Static Toolholders - Standard Program

OD cutting holder

32	48-95667
1 1/4"	48-95668

Face cutting holder

32	48-95669
1 1/4"	48-95670

Combination toolholder

Ø 80	48-95671	IC 80 bar
Ø 3"	48-95672	IC 80 bar

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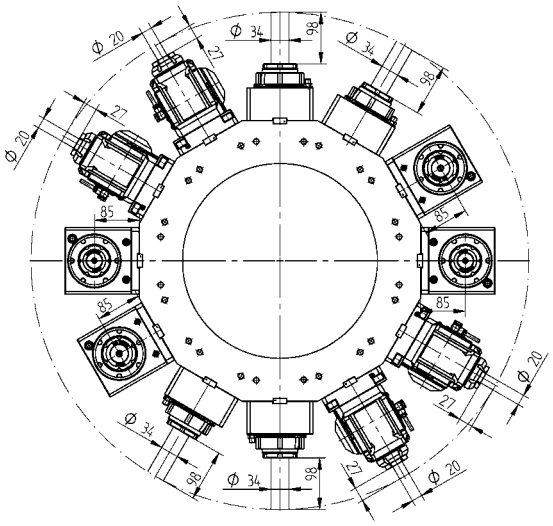
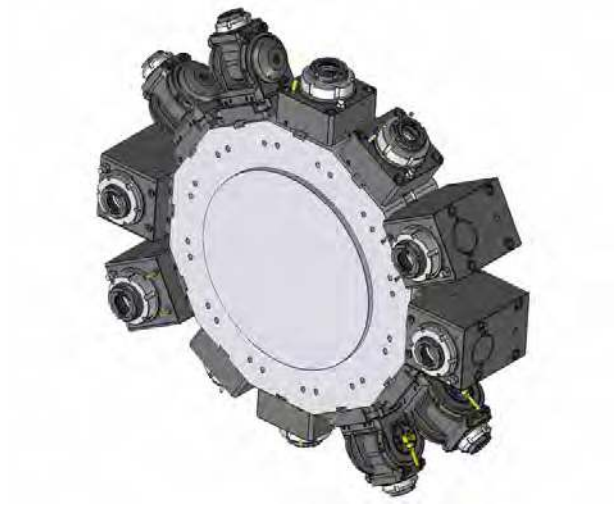




Driven Toolholders - QuickFlex®

OD drill/milling unit

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

Face drill/milling unit, LF=85

ER-50 QF	420550015-85	1:1	EC
	0067750000		
ER-50 QF	420550016-85	1:1	IC 80 bar
	0067750000		

Driven Toolholders - Enhanced Program

Face drill/milling unit, LF=85

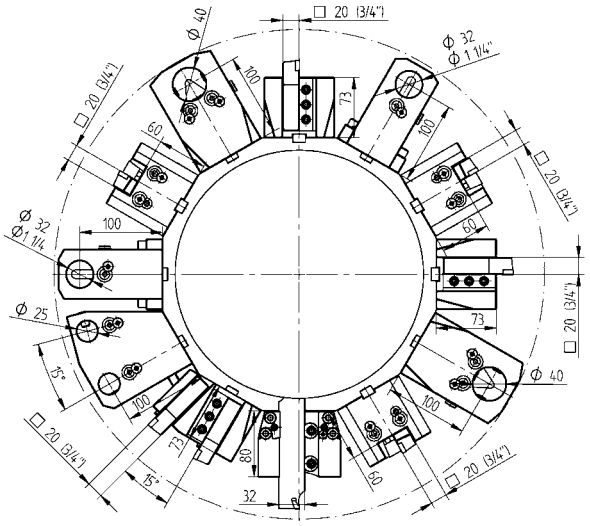
ER-40 QF	420540015-85	1:2	EC
	0067740001		
ER-40 QF	420540016-85	1:2	IC 80 bar
	0067740001		

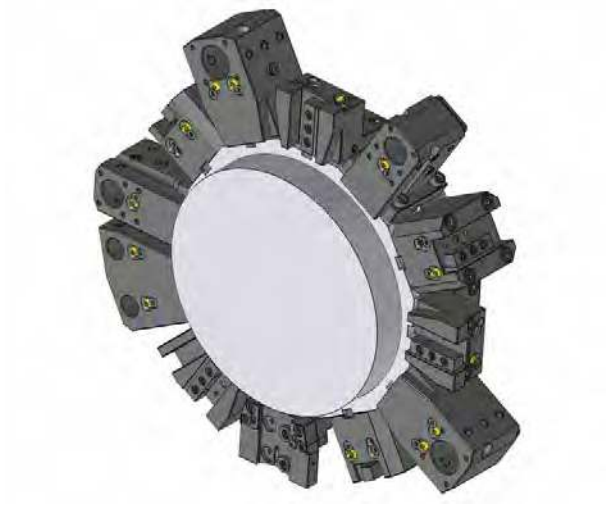
Adjustable angle drill/milling unit

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

Gear hobbing unit

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





Static Toolholders - Standard Program

OD cutting holder

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=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 - Standard Program

Combination toolholder, universal, LF=100

Ø 40	48-103474	IC 80 bar
	241140020 ER32	
	241140026 ER40	

Cover plate

48-87111

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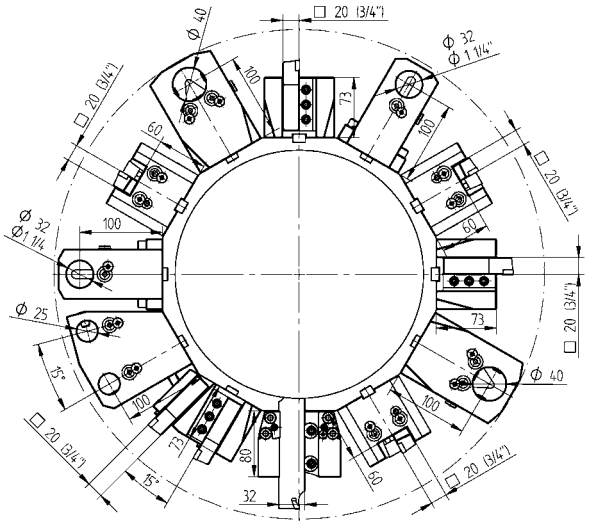
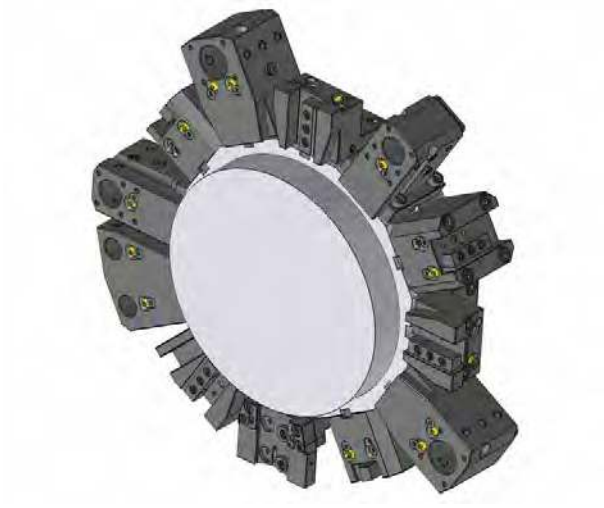




Static Toolholders - Enhanced Program

OD cutting holder, double, 24 station

20	48-87674

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

Cut-off holder, adjustable, long

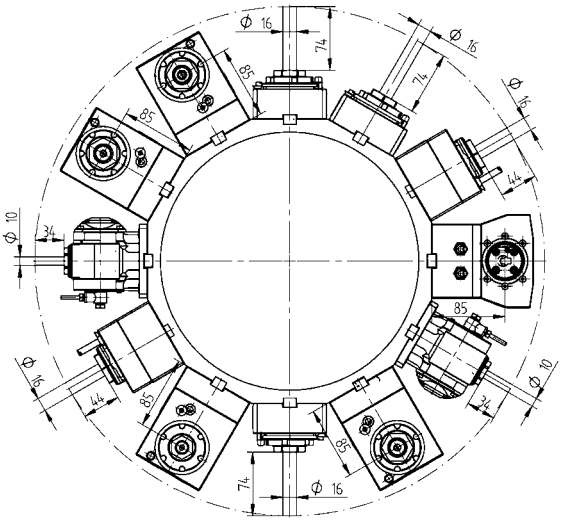
SH 32	48-103288

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

SH 32	48-111142R 343-810100R90	IC 80 bar
SH 32	48-111142L 343-810100L90	IC 80 bar

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		

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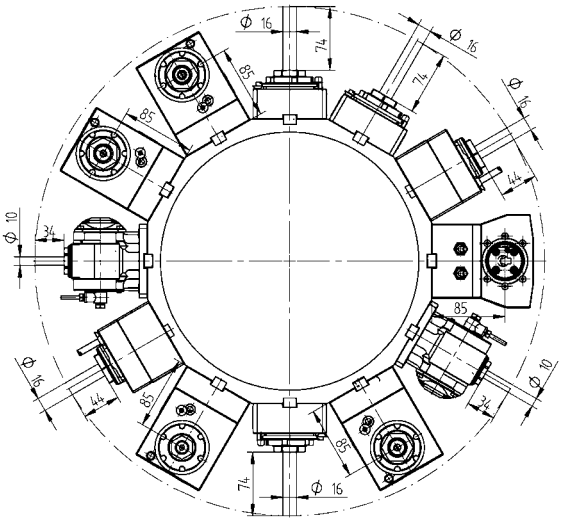


Driven Toolholders - Enhanced Program

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		

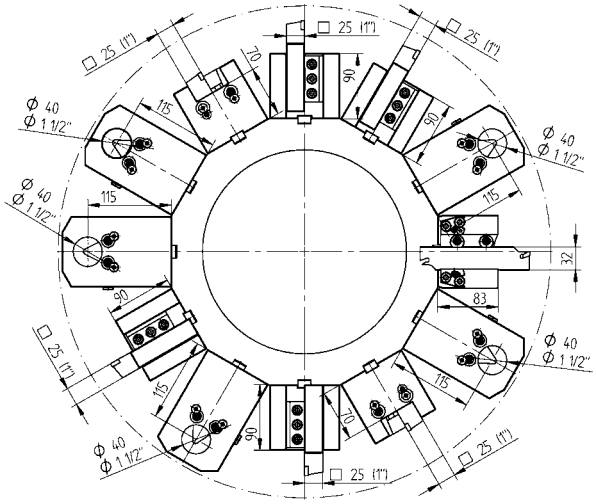
Adjustable angle drill/milling unit

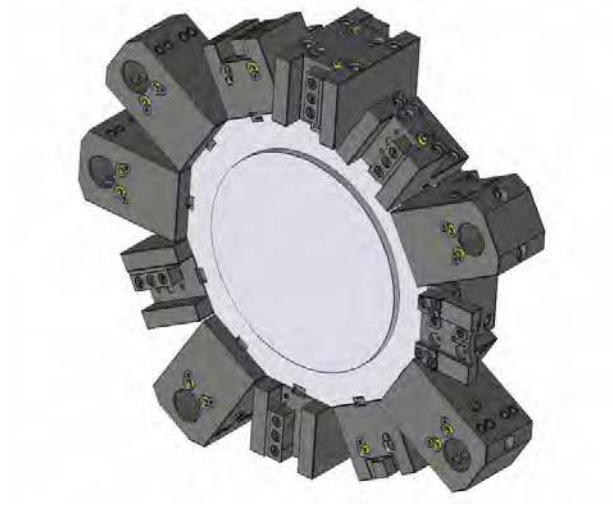
ER 16	411010005-55	1:1	EC
	00675000902		
ER 16	411010006-55	1:1	IC 80 bar
	00675000902		
ER 11	411007007-55	1:2	EC
	00675000914		
ER 11	411007008-55	1:2	IC 80 bar
	00675000914		

Driven Toolholders - Enhanced Program

Broaching unit for ID and OD

TN765050	414532000-55	1:1	EC





Static Toolholders - Standard Program

OD cutting holder

25	48-92428	
1"	48-92466	

OD cutting holder, HP-IC

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

OD cutting holder, long

25	48-86711
1"	48-86712

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

OD cutting holder, both sides, long

25	48-84523
1"	48-86718

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

Static Toolholders - Standard Program

Combination toolholder, LF=115

Ø 40	48-86623	IC 80 bar
	241140020 ER32	
	241140026 ER40	
Ø 1 1/2"	48-86624	IC 80 bar
	2411150020 ER32	

Cover plate

48-87089

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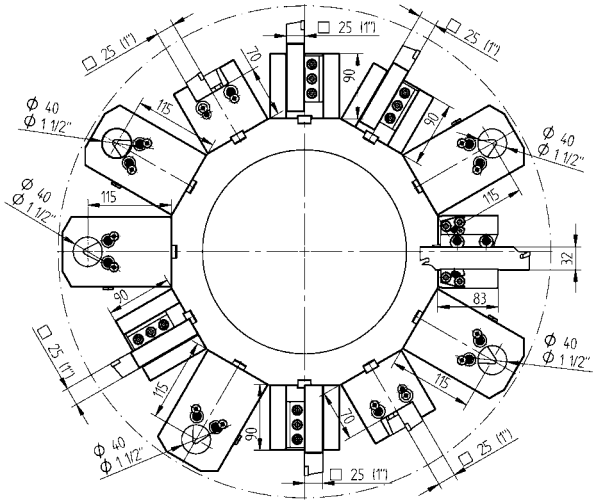
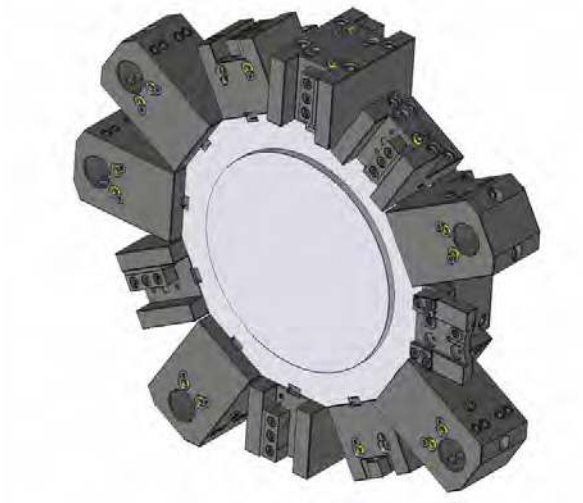




Static Toolholders - Enhanced Program

Cut-off holder, adjustable

SH 32	48-99060	

Cut-off holder, adjustable, long

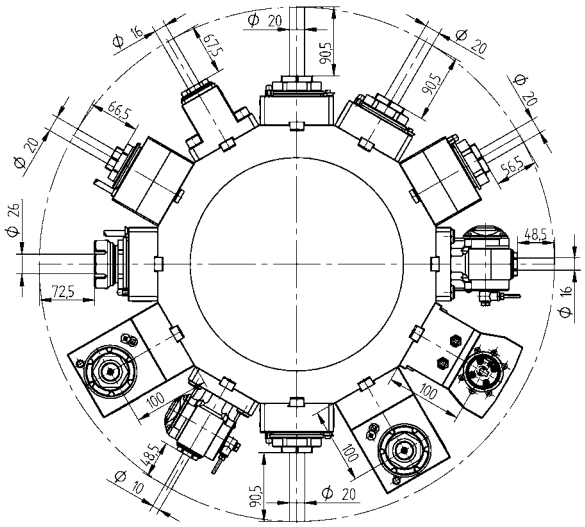
SH 32	48-100084	

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		

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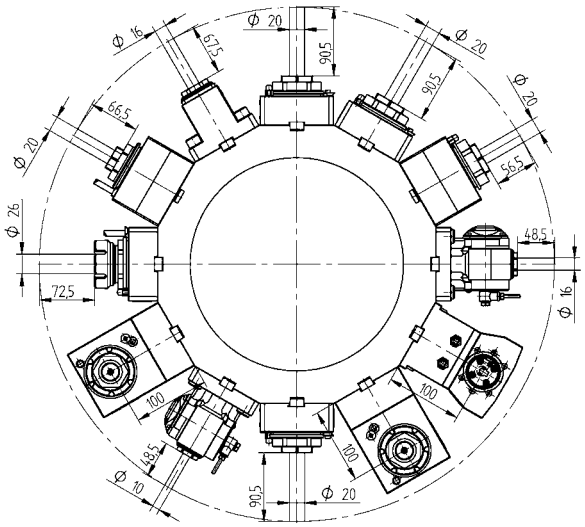


Driven Toolholders - Enhanced Program

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		

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

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

Adjustable angle drill/milling unit

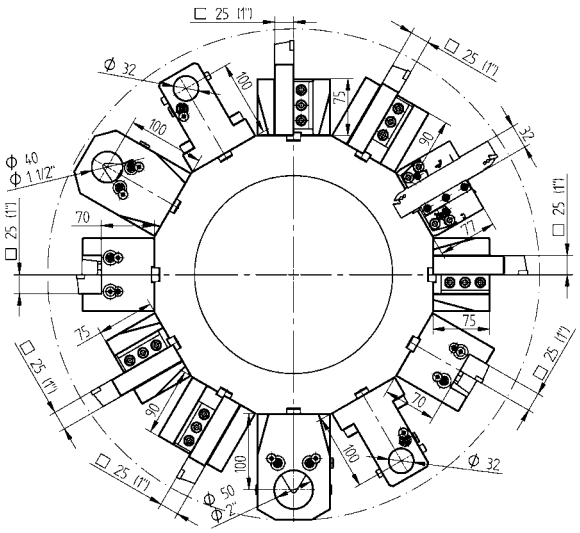
ER 16	411010002-65	1:1	EC
	00675000902		
ER 16	411010003-65	1:1	IC 80 bar
	00675000902		
ER 11	411007002-65	1:2	EC
	00675000914		
ER 11	411007003-65	1:2	IC 80 bar
	00675000914		

Straight drill/milling unit, both sides

ER 25	413002001-65	1:1	EC
	00675000907		

Broaching unit for ID and OD

TN765050	414532000-65	1:1	EC



Static Toolholders - Standard Program

OD cutting holder

25	48-92428	
1"	48-92466	

OD cutting holder, HP-IC

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

OD cutting holder, long

25	48-86711
1"	48-86712

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

OD cutting holder, both sides, long

25	48-84523
1"	48-86718

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

Static Toolholders - Standard Program

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

Cover plate

48-87089

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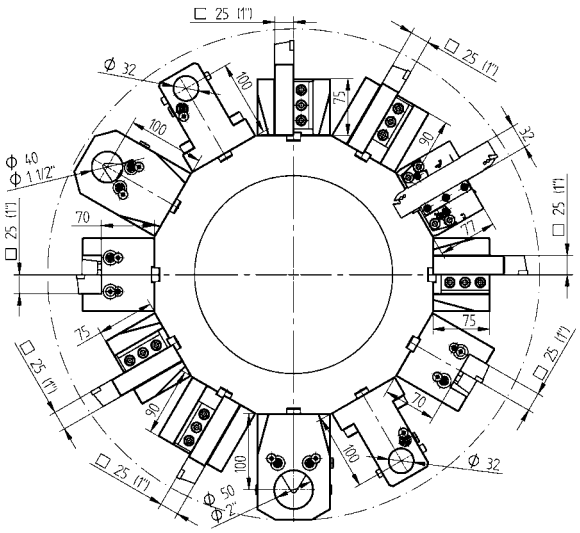
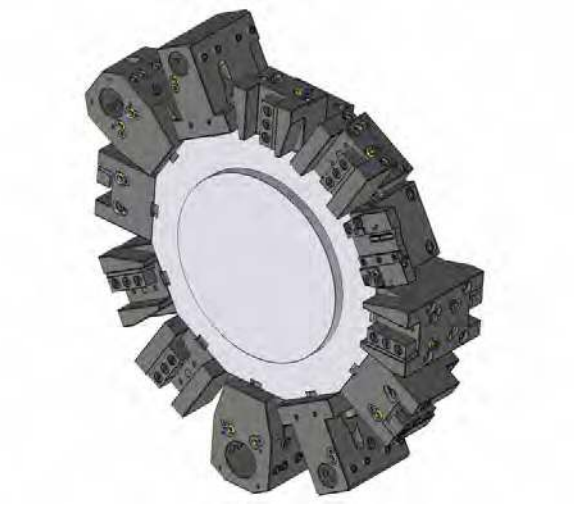




Static Toolholders - Enhanced Program

Cut-off holder, adjustable

SH 32	48-99060	

Cut-off holder, adjustable, long

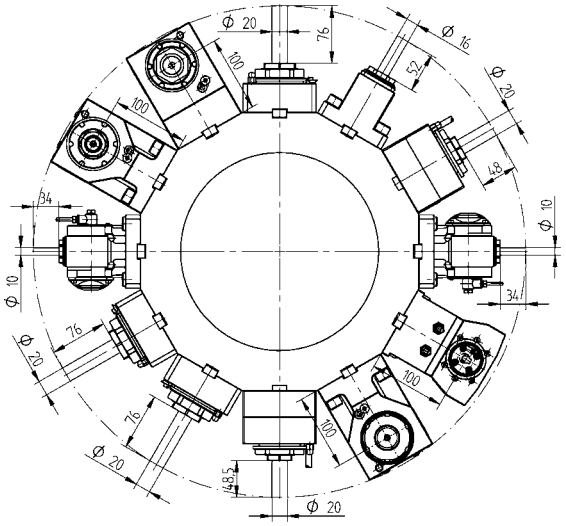
SH 32	48-100084	

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		

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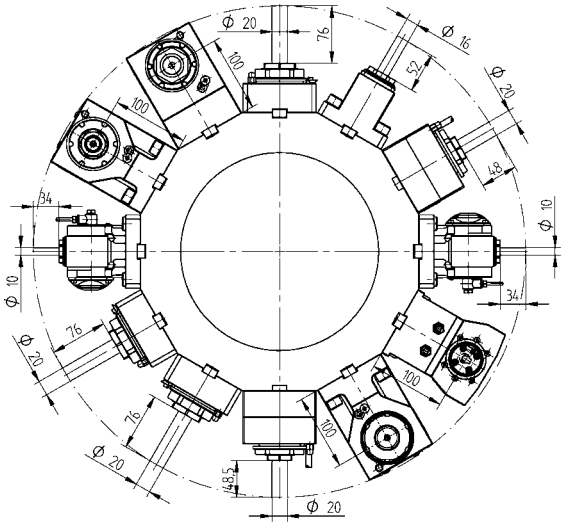


Driven Toolholders - Enhanced Program

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		

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

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

Adjustable angle drill/milling unit

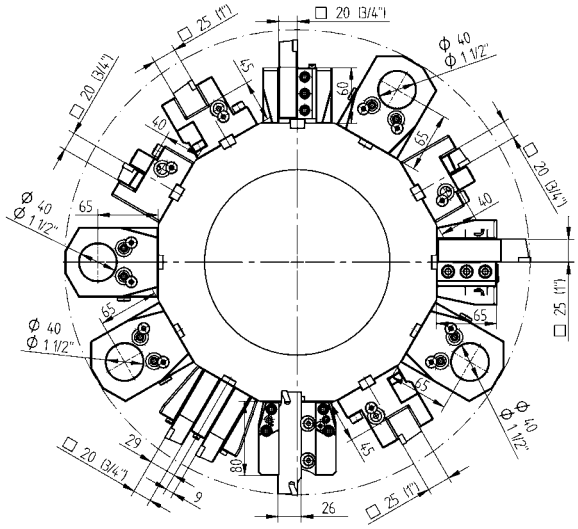
ER 16	411010002-65	1:1	EC
	00675000902		
ER 16	411010003-65	1:1	IC 80 bar
	00675000902		
ER 11	411007002-65	1:2	EC
	00675000914		
ER 11	411007003-65	1:2	IC 80 bar
	00675000914		

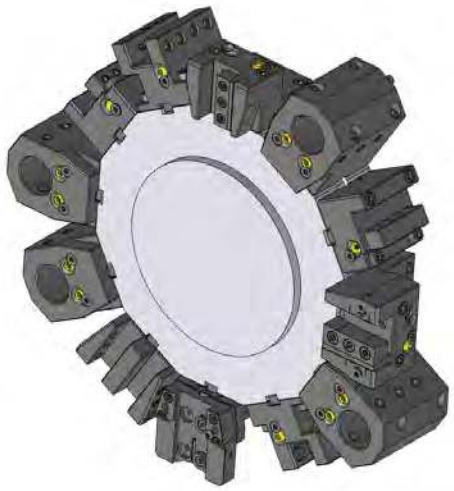
Straight drill/milling unit, both sides

ER 25	413002001-65	1:1	EC
	00675000907		

Broaching unit for ID and OD

TN765050	414532000-65	1:1	EC





Static Toolholders - Standard Program

OD cutting holder

20	48-95083
3/4"	48-95084

OD cutting holder, HP-IC

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

OD cutting holder, both sides

20	48-95085
3/4"	48-95086

OD cutting holder, both sides, HP-IC

20	48-95085-HP	IC 80 bar
3/4"	48-95086-HP	IC 80 bar

Face cutting holder

20	48-109148

Face cutting holder

3/4"	48-95338

Face cutting holder, HP-IC

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

Combination toolholder, LF=65

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

Static Toolholders - Enhanced Program

OD cutting holder, both sides, double, Y axis

20 (3/4")	48-110811

Cut-off holder, adjustable

SH 26	48-94968

Cut-off holder, adjustable, HP-IC

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

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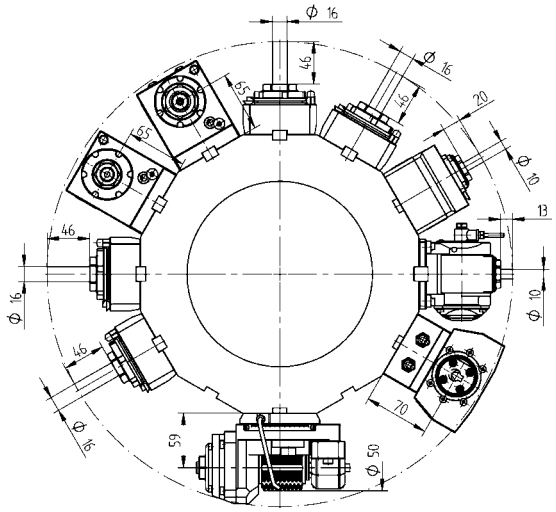


Driven Toolholders - QuickFlex®

Straight drill/milling unit

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

Straight drill/milling unit (12000 RPM)

ER-25 QF	420125019-45	1:1	EC
	0067725000		
ER-25 QF	420125020-45	1:1	IC 80 bar
	0067725000		

Right angle drill/milling unit

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

Right angle drill/milling unit (12000 RPM)

ER-25 QF	420525038-45	1:1	EC
	0067725000		
ER-25 QF	420525039-45	1:1	IC 80 bar
	0067725000		

Driven Toolholders - Enhanced Program

Straight offset drill/milling unit

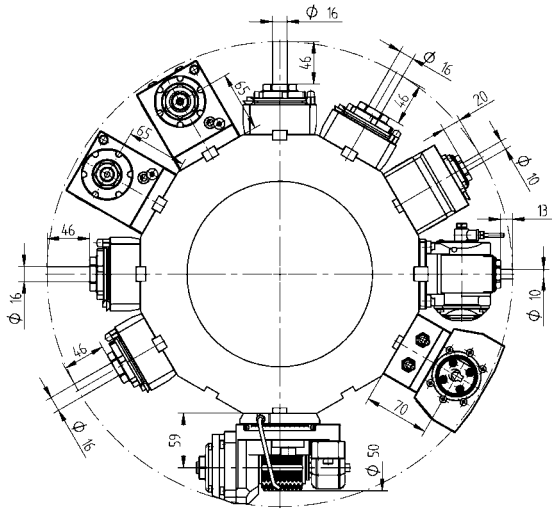
ER 16	410410008-45	1:3	EC
	00675000937		
ER 16	410410002-45	1:3	IC 80 bar
	00675000937		

Right angle drill/milling unit

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

Adjustable angle drill/milling unit

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



Driven Toolholders - Enhanced Program

Gear hobbing unit

Type 15-2 410900001-45 1:1 EC

- 00675001015
- 160008152 Ø 8
- 160010152 Ø 10
- 160013152 Ø 13
- 160016152 Ø 16
- 160022152 Ø 22
- 160015152 Ø 5/8"
- 160019152 Ø 3/4"
- 96394

Broaching unit for ID and OD

TN765050 414532000-45 1:1 EC

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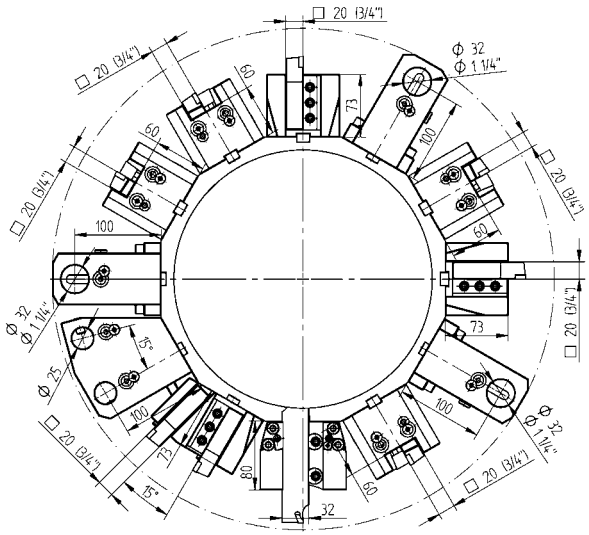


Static Toolholders - Standard Program

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, 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=100

Ø 32	48-92043	IC 80 bar
	241132016 ER25	
	241132020 ER32	
Ø 1 1/4"	48-92044	IC 80 bar
	2411125020 ER32	

Cover plate

48-87111

Static Toolholders - Enhanced Program

OD cutting holder, double, 24 station

20	48-87674

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

Cut-off holder, adjustable, long

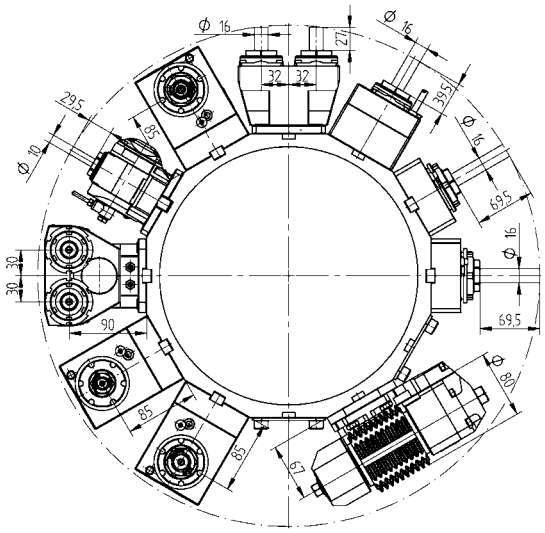
SH 32	48-103288

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

SH 32	48-111142R 343-810100R90	IC 80 bar
SH 32	48-111142L 343-810100L90	IC 80 bar

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		

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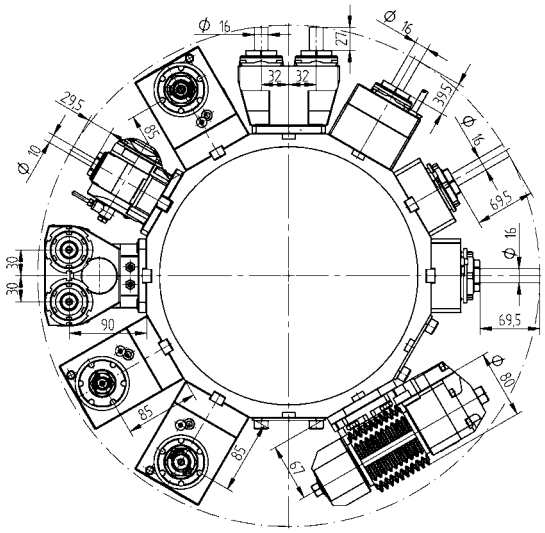


Driven Toolholders - Enhanced Program

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"		
	96394		

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

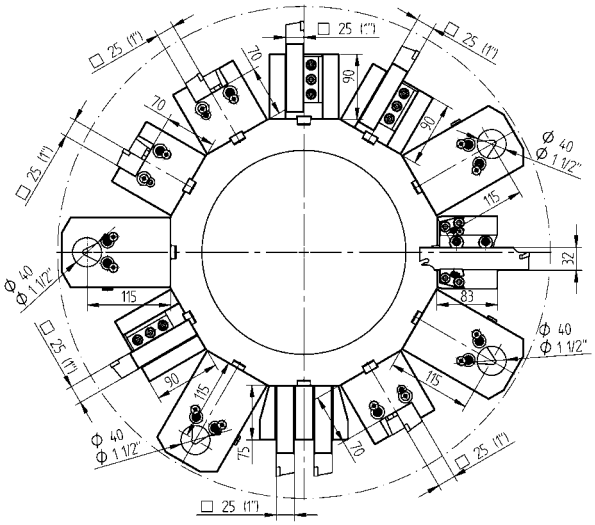
ER 25	413502007-55	1:1	EC
	00675000915		
ER 25	413502008-55	1:1	IC 80 bar
	00675000915		

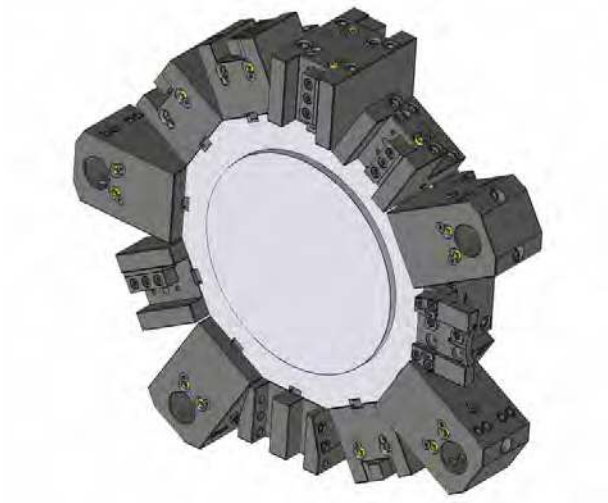
2-spindle - Right angle drill/milling unit, both sides, Y axis

ER 25	413502006-55	1:1	EC
	00675000915		

Broaching unit for ID and OD

TN765050	414532000-55	1:1	EC





Static Toolholders - Standard Program

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, long

25	48-86711
1"	48-86712

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

OD cutting holder, both sides, long

25	48-84523
1"	48-86718

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

Static Toolholders - Standard Program

Combination toolholder, LF=115

Ø 40	48-86623	IC 80 bar
	241140020 ER32	
	241140026 ER40	
Ø 1 1/2"	48-86624	IC 80 bar
	2411150020 ER32	

Cover plate

48-87089

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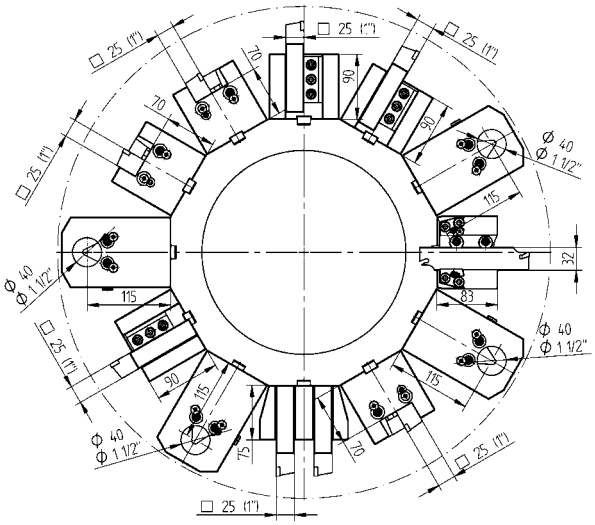
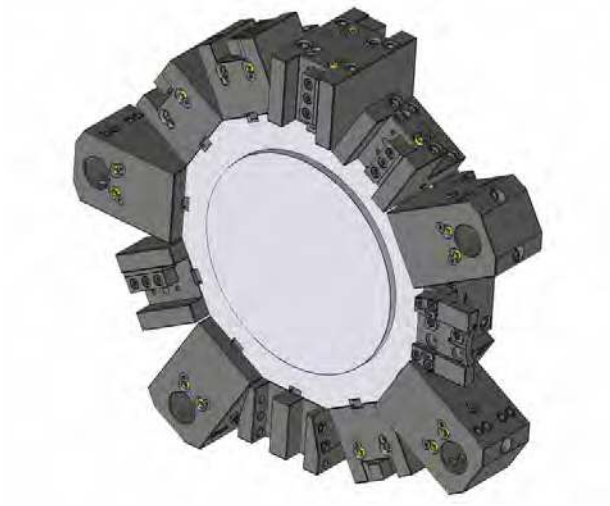




Static Toolholders - Enhanced Program

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

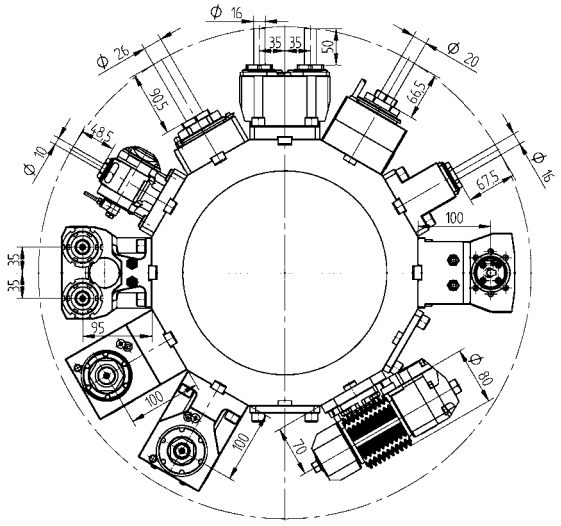
SH 32	48-100084	

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		

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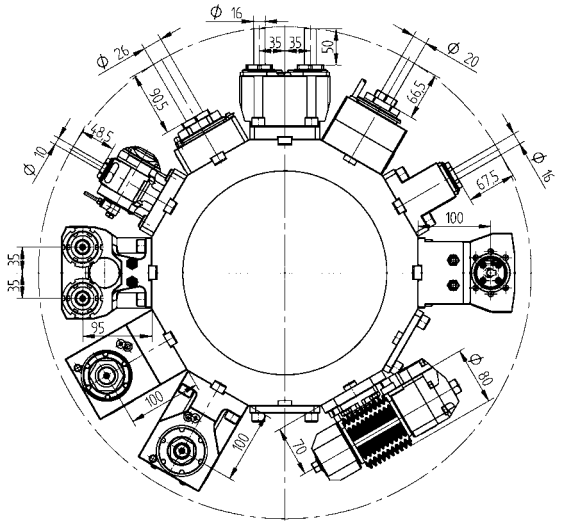

Driven Toolholders - Enhanced Program

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		

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

Ø 22	410622002-65	1:1	EC
	00675000483		
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		

Driven Toolholders - Enhanced Program

Gear hobbing unit

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

Straight drill/milling unit, both sides

ER 25	413002001-65	1:1	EC
	00675000907		

Straight drill/milling unit, double, Y axis

ER 25	413002004-65	1:1	EC
	00675000907		

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

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

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

ER 25	413502008-65	1:1	EC
	00675000915		

Broaching unit for ID and OD

TN765050	414532000-65	1:1	EC

Standard reduction sleeves - cylindrical

Reduction sleeve Ø 20

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

Reduction sleeve Ø 25

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

Reduction sleeve Ø 32

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

Reduction sleeve Ø 40

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

Reduction sleeve Ø 50

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

Reduction sleeve Ø 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"

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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)

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

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

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

Collets DIN 6499B (ER/ESX)

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

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

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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

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 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

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

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

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Notes

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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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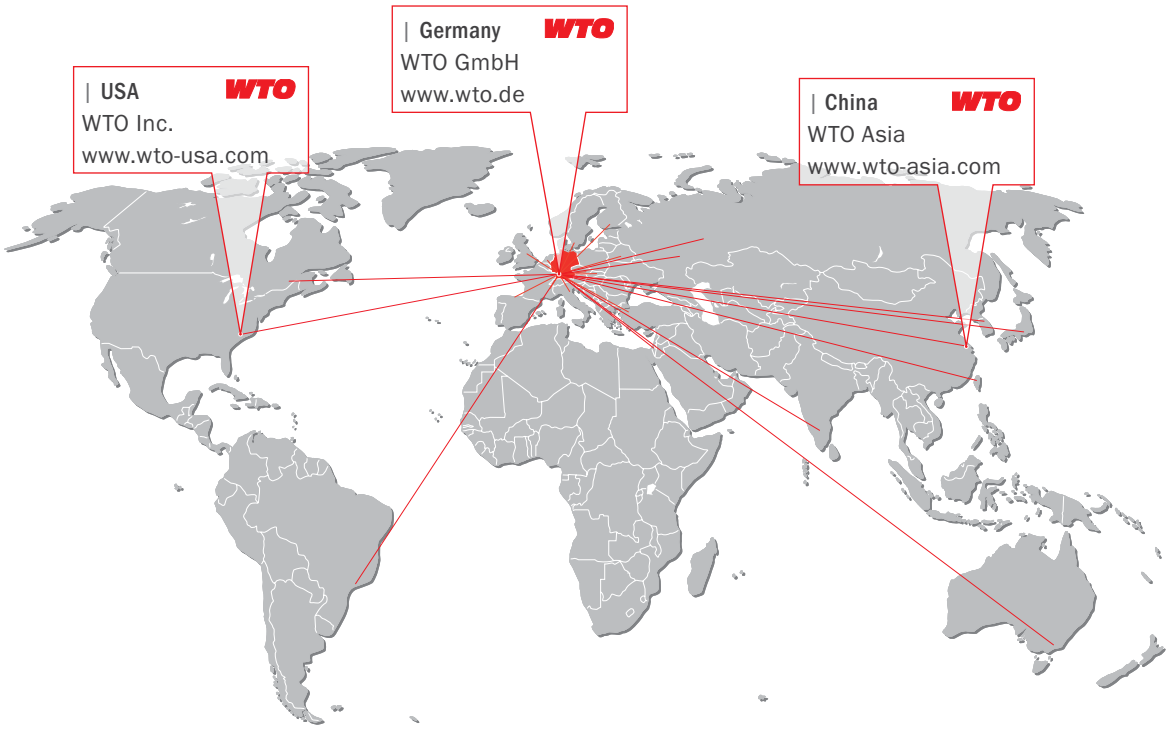

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