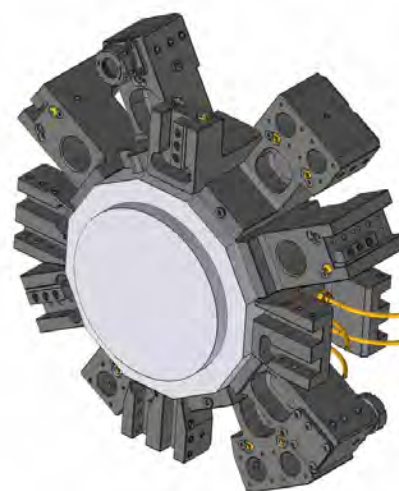
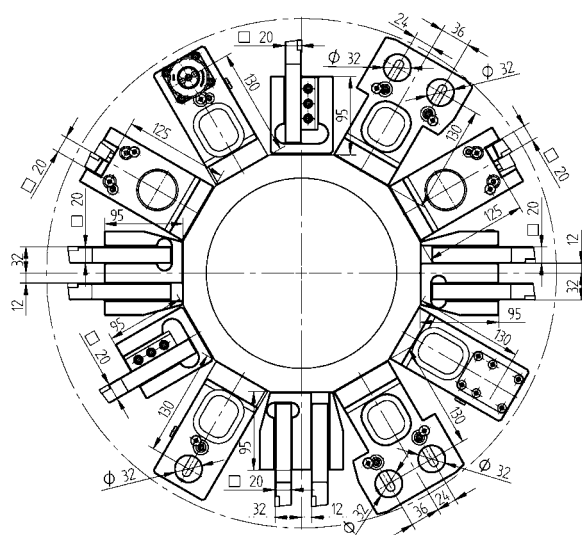




Static Toolholders - Standard Program



OD cutting holder
3/4" 48-82535



OD cutting holder, HP-IC
20 48-82534-HP IC 80 bar
3/4" 48-82535-HP IC 80 bar



OD cutting holder, sub spindle
3/4" 48-82538



OD cutting holder, sub spindle, HP-IC
20 48-82536-HP IC 80 bar
3/4" 48-82538-HP IC 80 bar



OD cutting holder, both sides
20 48-89297



OD cutting holder, both sides, HP-IC
20 48-89297-HP IC 80 bar
3/4" 48-89298-HP IC 80 bar



Face cutting holder
20 48-84005
3/4" 48-84158



Combination toolholder, universal
Ø 32 48-81929
241132016 ER25
241132020 ER32
Ø 1 1/4" 48-82389

Static Toolholders - Standard Program



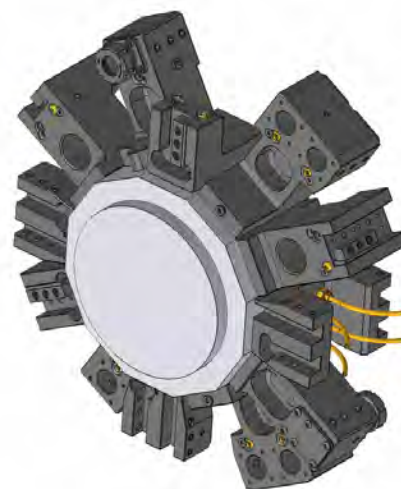
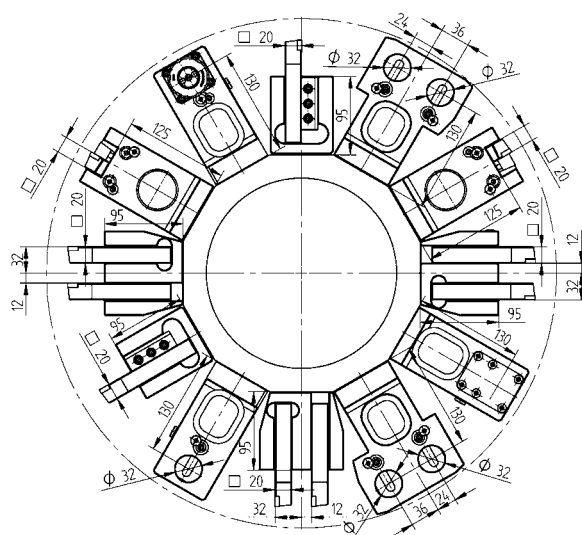
Combination toolholder, sub spindle
Ø 32 48-82787
241132016 ER25
241132020 ER32



Collet face drill holder
ER 32 48-82788
48-83071
107532000



Collet face drill holder, sub spindle
ER 32 48-83072
107532000



Static Toolholders - Enhanced Program



OD cutting holder, double, Y axis

20 (3/4") 48-88028



OD cutting holder, both sides, double, Y axis

20 (3/4") 48-87850



Cut-off holder, adjustable

SH 32 48-99061



Cut-off holder, adjustable, HP-IC

SH 32 48-99650R IC 80 bar
343-810100R17

SH 32 48-99650L IC 80 bar
343-810100L17



Combination toolholder, universal, double, Y axis

Ø 32 48-87853



241132016 ER25

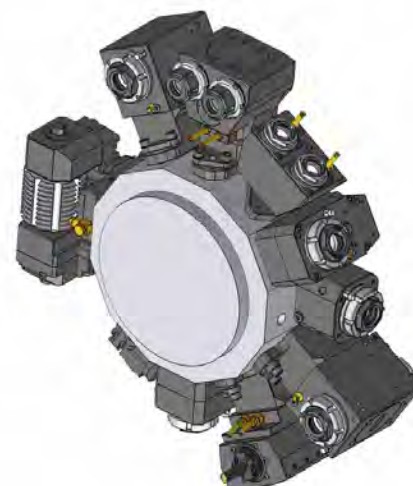
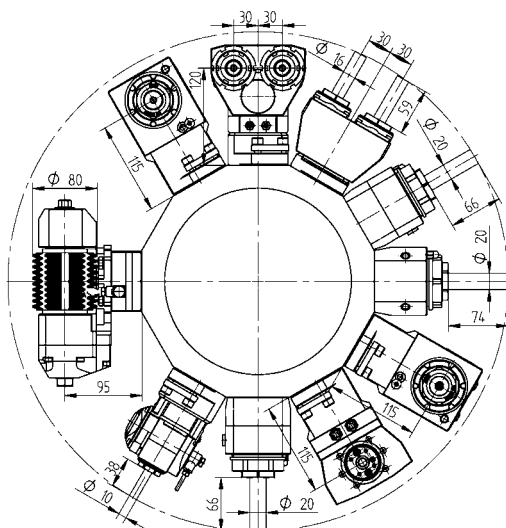


241132020 ER32

Ø 1 1/4" 48-87907



241125020 ER32

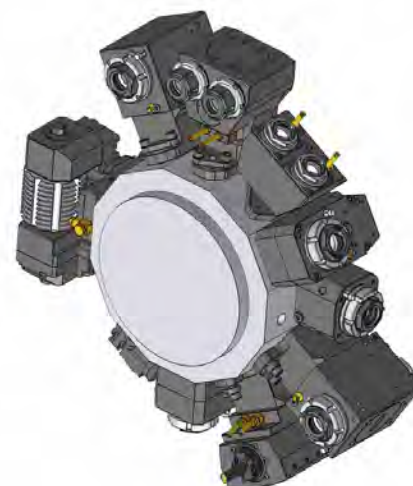
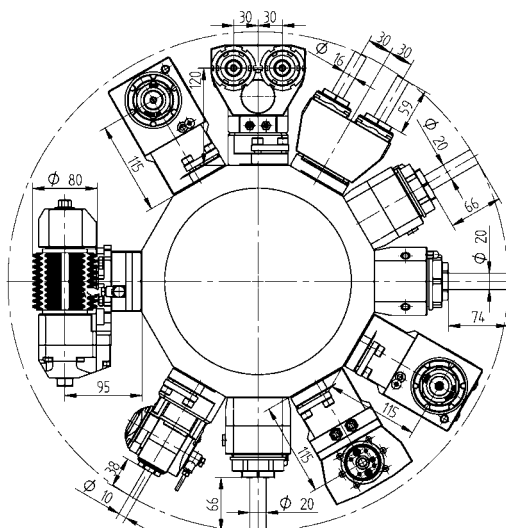


Driven Toolholders - QuickFlex®

	Straight offset drill/milling unit			
	ER-32 QF	420132030-40	1:1	EC
		0067732000		
	Straight offset drill/milling unit, sub spindle			
	ER-32 QF	420132034-40	1:1	EC
		0067732000		
	Right angle drill/milling unit			
	ER-32 QF	420532071-40	1:1	EC
		0067732000		
	Right angle drill/milling unit, sub spindle			
	ER-32 QF	420532073-40	1:1	EC
		0067732000		
	Right angle drill/milling unit, both sides			
	ER-32 QF	420532075-40	1:1	EC
		0067732000		

Driven Toolholders - Enhanced Program

	Straight drill/milling unit			
	ER-32 QF	420132038-40	1:1	EC
		0067732000		
	Straight offset drill/milling unit			
	ER-25 QF	420125016-40	1:2	EC
		0067725001		
	Straight offset drill/milling unit, sub spindle			
	ER-25 QF	420125017-40	1:2	IC 80 bar
		0067725001		
	Straight offset drill/milling unit, both sides			
	ER-32 QF	423002010-40	1:1	EC
		0067732000		

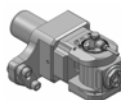


Driven Toolholders - Enhanced Program



Right angle drill/milling unit

ER-25 QF	420525034-40	1:2	EC
	0067725001		
ER-25 QF	420525035-40	1:2	IC 80 bar
	0067725001		
ER-32 QF	420532089-40	2:1	EC
	0067732000		
ER-32 QF	420532090-40	2:1	IC 80 bar
	0067732000		



Adjustable angle drill/milling unit

ER 16	411010010-40	1:1	EC
	00675000902		
ER 16	411010011-40	1:1	IC 80 bar
	00675000902		
ER 11	411007003-40	1:2	EC
	00675000914		
ER 11	411007004-40	1:2	IC 80 bar
	00675000914		



Offset slitting saw unit

Type 14-2	411500004-40	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"		

Driven Toolholders - Enhanced Program



Gear hobbing unit

Type 16-1	411500028-40	2:1	EC
	00675000926		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		
	96394		



Straight drill/milling unit, double, Y axis

ER 25	413002022-40	1:1.5	EC
	00675000930		
ER 25	413002023-40	1:1.5	IC 80 bar
	00675000930		



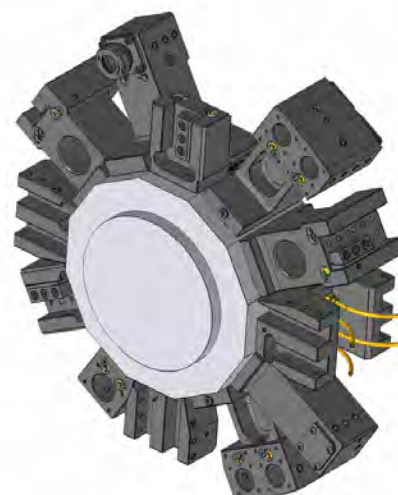
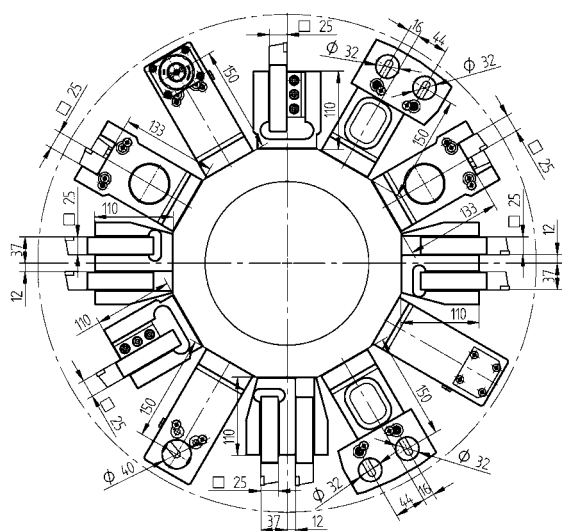
2-spindle - Right angle drill/milling unit, Y axis

ER 25	413502012-40	1:1	EC
	00675000915		
ER 25	413502013-40	1:1	IC 80 bar
	00675000915		



Broaching unit for ID and OD

TN765050	414532010-40	1:1	EC
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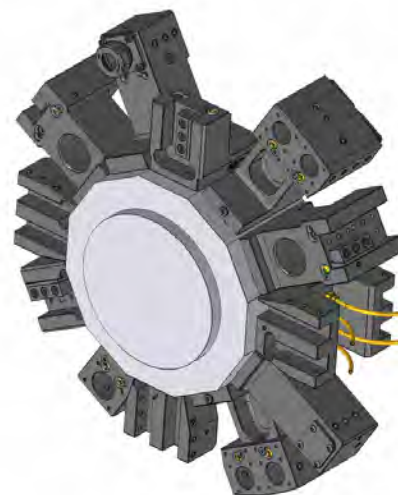
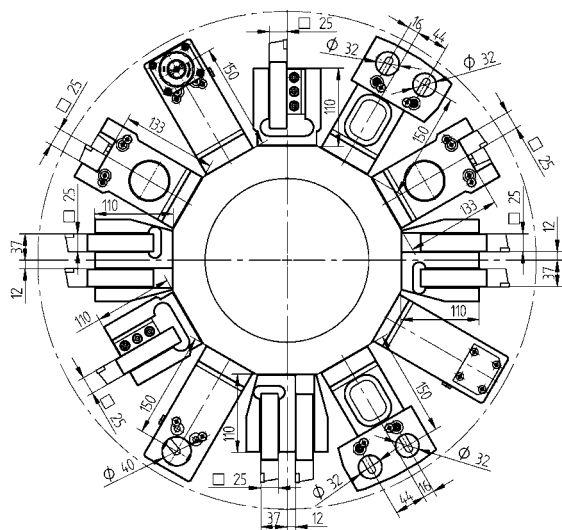


Static Toolholders - Standard Program

	OD cutting holder 1" 48-82544
	OD cutting holder, HP-IC 25 48-81926-HP IC 80 bar 1" 48-82544-HP IC 80 bar
	OD cutting holder, sub spindle 1" 48-82546
	OD cutting holder, sub spindle, HP-IC 25 48-82545-HP IC 80 bar 1" 48-82546-HP IC 80 bar
	OD cutting holder, both sides, HP-IC 25 48-89299-HP IC 80 bar 1" 48-89300-HP IC 80 bar
	Face cutting holder 25 48-84006 1" 48-84226
	Combination toolholder Ø 40 48-81930 241140020 ER32 Ø 1 1/2" 48-82481
	Combination toolholder, sub spindle Ø 40 48-82783 241140020 ER32 Ø 1 1/2" 48-82784

Static Toolholders - Standard Program

	Combination toolholder, both sides Ø 40 48-106919
	Collet face drill holder ER 32 48-82986 107532000
	Collet face drill holder, sub spindle ER 32 48-82988 107532000



Static Toolholders - Enhanced Program



OD cutting holder, double, Y axis

25(1") 48-88032



OD cutting holder, both sides, double, Y axis

25(1") 48-87706



Cut-off holder, adjustable

SH 32 48-99062



Cut-off holder, adjustable, HP-IC

SH 32 48-102266R IC 80 bar

SH 32 48-102266L IC 80 bar



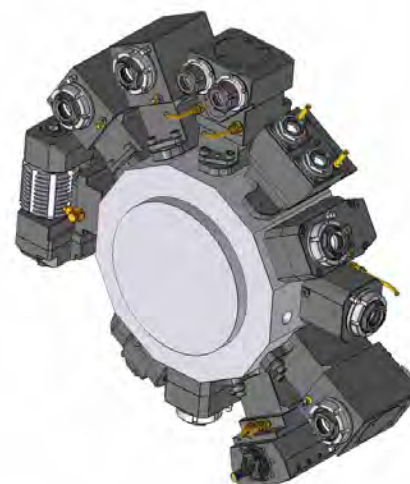
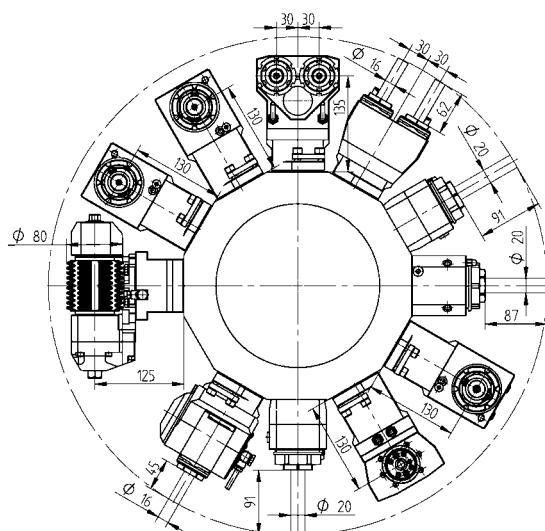
Combination toolholder, both sides, double, Y axis

Ø 32 48-87698

 241132020 ER32

Ø 1 1/4" 48-87741

 2411125020 ER32



Driven Toolholders - Enhanced Program



ER-32 QF	420132032-40 0067732000	1:1	EC
ER-32 QF	420132033-40 0067732000	1:1	IC 80 bar

ER-32 QF	420132042-40 0067732000	1:1	EC
ER-32 QF	420132043-40 0067732000	1:1	IC 80 bar



ER-32 QF	420132036-40	1:1	EC
	0067732000		
ER-32 QF	420132037-40	1:1	IC 80 bar
	0067732000		

ER-25 QF	420125022-40 0067725001	1:2	EC
ER-25 QF	420125023-40 0067725001	1:2	IC 80 bar



ER-32 QF	420532076-40 0067732000	1:1	EC
ER-32 QF	420532077-40 0067732000	1:1	IC 80 bar

Straight offset drill/milling unit, both sides



ER-32 QF	420532078-40 0067732000	1:1	EC
ER-32 QF	420532079-40 0067732000	1:1	IC 80 bar

ER-32 QF 423002017-40 1:1 IC 80 bar
0067732000

Right angle drill/milling unit

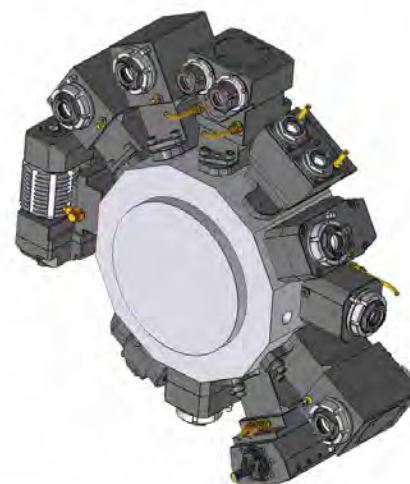
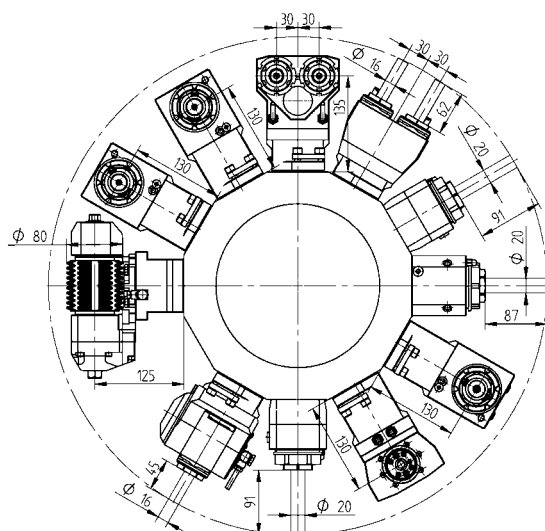


ER-32 QF 420532080-40 1:1 EC
 0067732000

ER-25 QF	420525033-40 0067725001	1:2	IC 80 bar
ER-32 QF	420532087-40 0067732000	2:1	EC



ER-32 QF 0067732000 420532088-40 2:1 IC 80 bar 0067732000



Driven Toolholders - Enhanced Program



Adjustable angle drill/milling unit

ER 25	411016005-40	1:1	EC
	00675000934		
ER 25	411016023-40	1:1	IC 80 bar
	00675000934		
ER 16	411010014-40	1:2	EC
	00675000936		
ER 16	411010015-40	1:2	IC 80 bar
	00675000936		



Offset slitting saw unit

Type 14-2	411500001-40	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"		



Gear hobbing unit

Type 16-1	411500030-40	2:1	EC
	00675000954		
	160016161 Ø 16		
	160022161 Ø 22		
	160027161 Ø 27		
	160015161 Ø 5/8"		
	160019161 Ø 3/4"		
	160025161 Ø 1"		
	96394		

Driven Toolholders - Enhanced Program



Straight drill/milling unit, double, Y axis

ER 25	413002026-40	1:1.5	EC
	00675000930		
ER 25	413002027-40	1:1.5	IC 80 bar
	00675000930		



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

ER 25	413502016-40	1:1	EC
	00675000915		
ER 25	413502017-40	1:1	IC 80 bar
	00675000915		



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

ER 25	413502023-40	1:1	EC
	00675000915		



Broaching unit for ID and OD

TN765050	414532011-40	1:1	EC
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