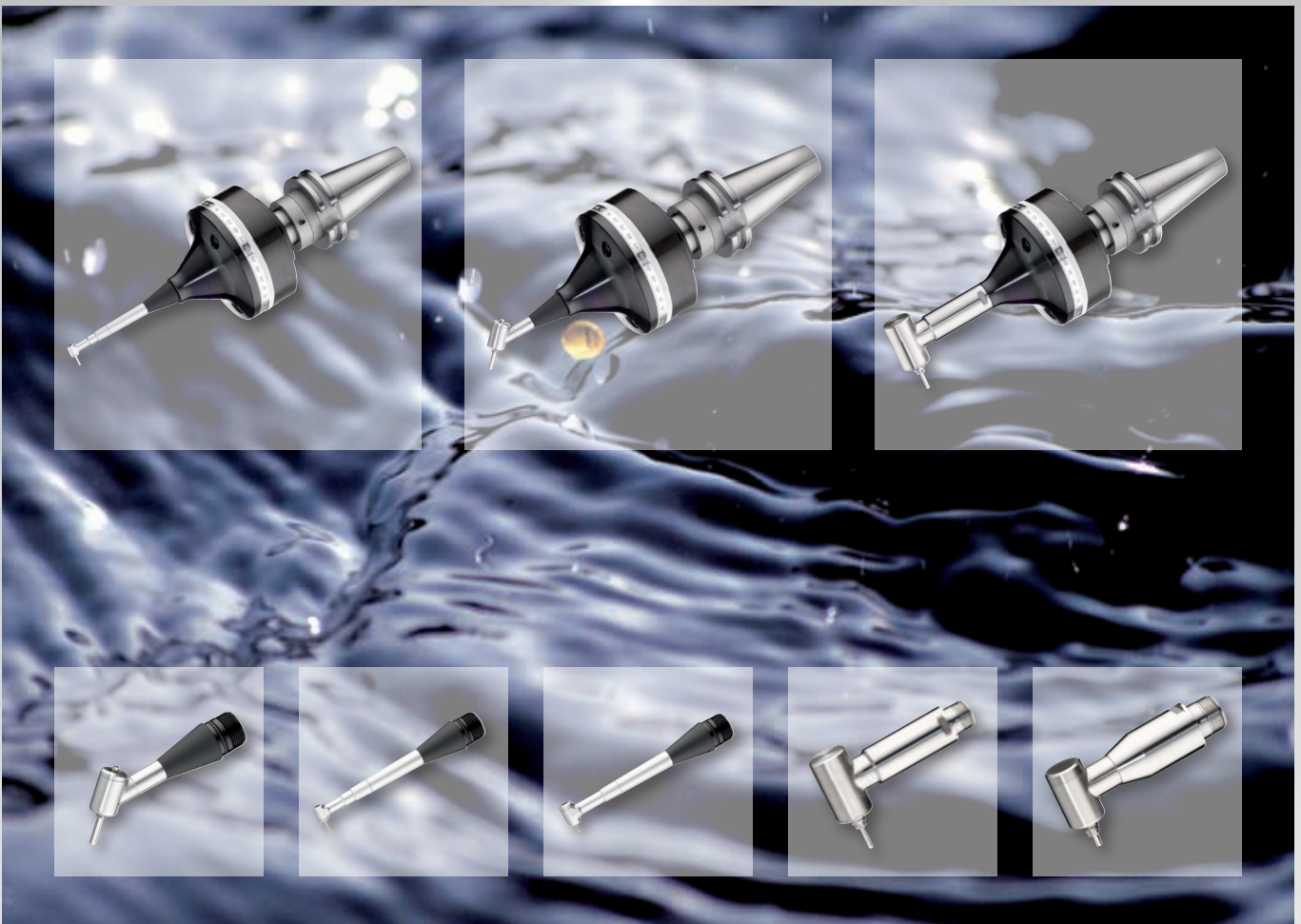


Machining Center Angle Heads

slim
size 5





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► Angle Heads line slim

For special machining tasks with strict geometric constraints. Offset output to maximize the usable tool length and allows plunging operations.



- Angle Heads **MFC 300 M / 90°**
360° turnable, no splash-protection
max. plunging diameter Ø 12,0 mm



- Angle Heads **MFC 300 S / 90°**
360° turnable, no splash-protection
max. plunging diameter Ø 16,0 mm



- Angle Heads **IC 300 / 90°**
360° turnable, no splash-protection
max. plunging diameter Ø 24,0 mm



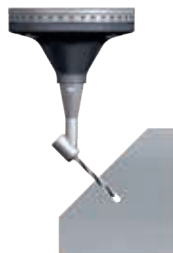
- Angle Heads **KC 300 / 45°**
360° turnable, no splash-protection
max. plunging diameter Ø 22,0 mm
to work under 45°



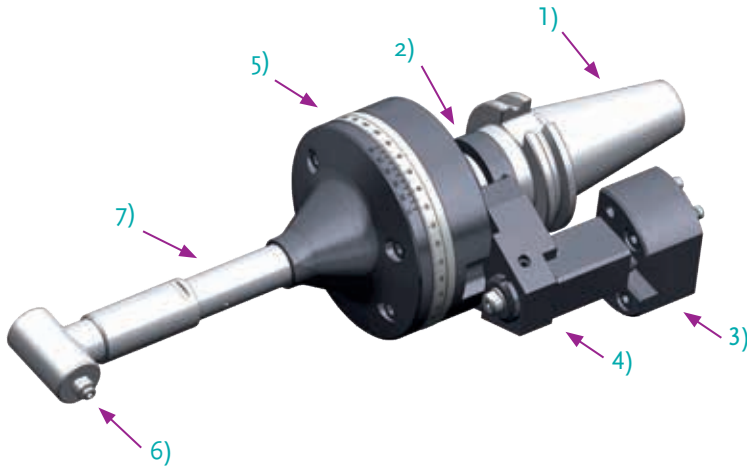
- Angle Heads **RA 200 / 90°**
360° turnable
max. plunging diameter Ø 38,0 mm



- Angle Heads **RA 100 / 90°**
360° turnable
max. plunging diameter Ø 51,0 mm

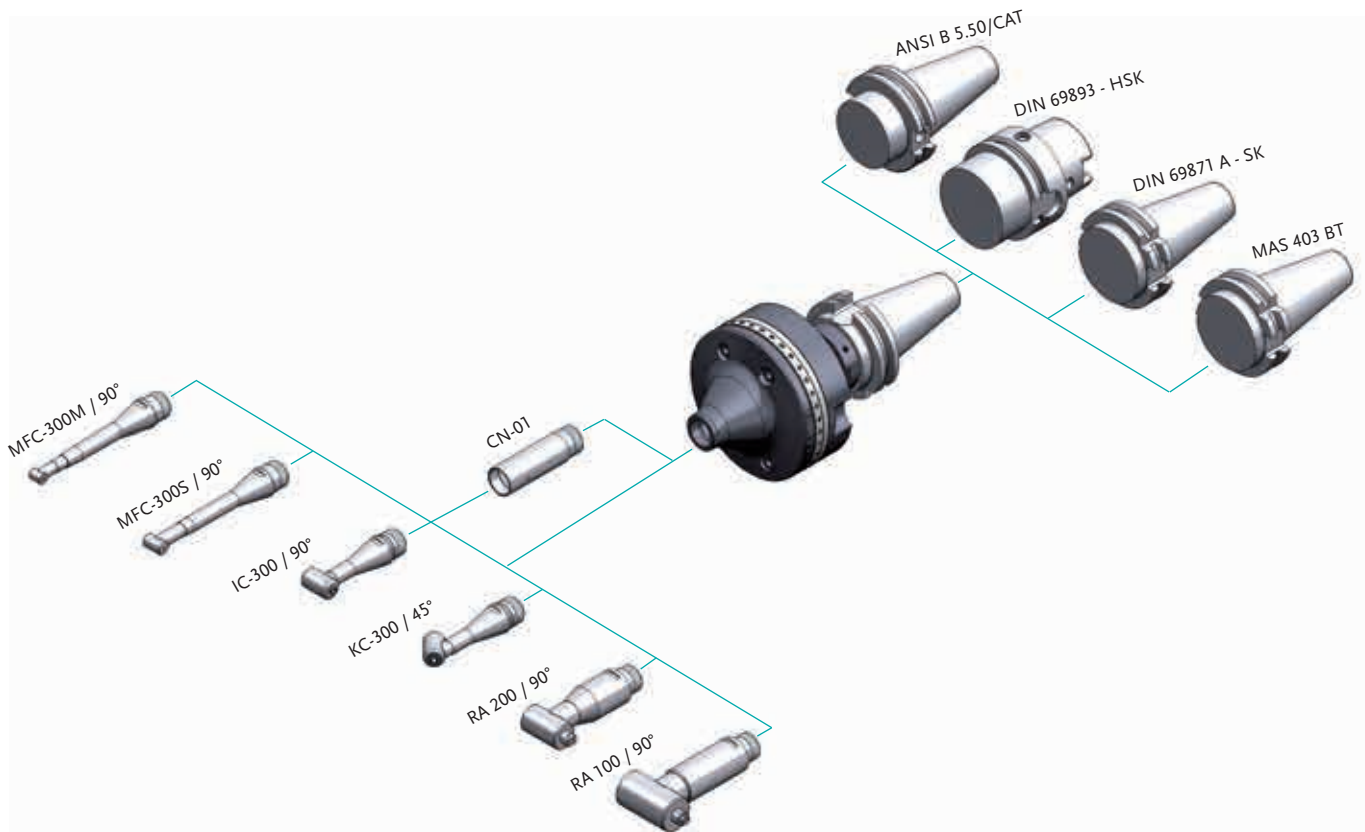


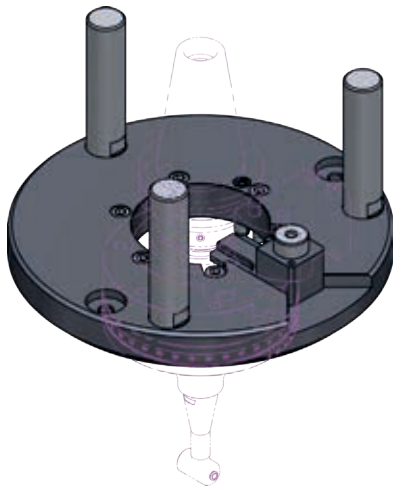
► features and overview



- 1) **Machine adaption**
DIN 69871 A - SK
DIN 69893 - HSK
MAS 403 BT
ANSI B 5.50/ CAT
- 2) **Arrestor ring**
Locks the tool drive taper.
- 3) **Stop block**
For locking and preventing the rotation of the angle head.
Optional machine specification according customer's instruction.
- 4) **Torque arm**
For locking the housing of angle head on the machining spindle to prevent the rotation of the angle head.
- 5) **Scale ring**
Controllable and continuous rotation of the tool ensures the ideal working angle.
- 6) **Tooladaption**
The standard tooladaptions are equipped with collet chucks.
- 7) **Adapter / extension**
45/90° angle possibilities, depending on the required use.

► combinations



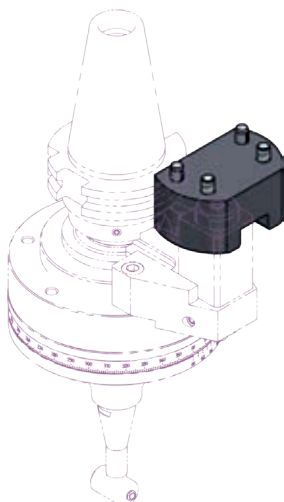
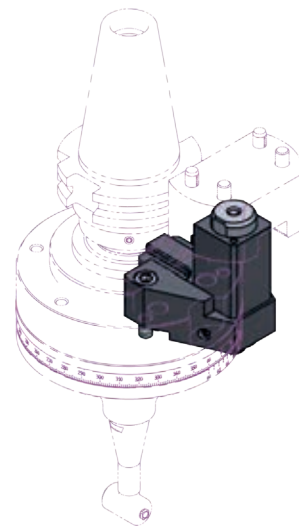


► **Support flange with integrated torque arm**

For additional support, in order to stabilize and to reduce the vibration of the entire system. The additional support will be produced specifically according to customer's instruction and the machine specifications.

► **Torque arm**

Locates the angle head at the machining spindle and secures/prevent the rotation of the angle head. Optional machine specification according customer's instruction.

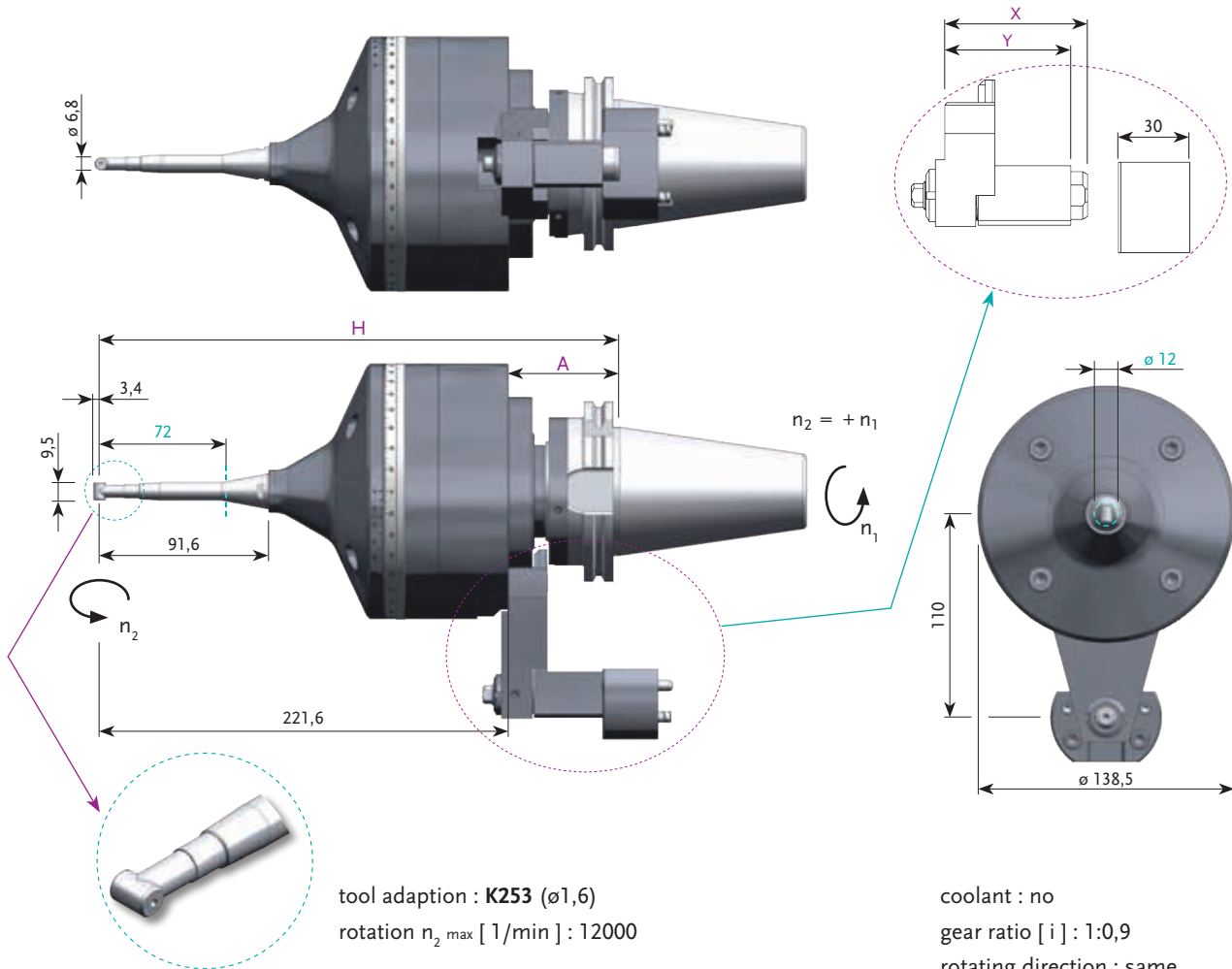


► **Stop block**

For locking and preventing the rotation of the angle head. Optional machine specification according customer's instruction.





















► Angle Heads

360° turnable, no splash-protection



tool adaption : K253 ($\varnothing 1,6$)
rotation $n_{2 \max}$ [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,9
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
				Dim. X [mm]	Dim. Y [mm]		
7 030 61 002	 DIN 69871 A - SK 50	281,6	60		60	53	
7 030 61 032				60	53		
7 030 61 062				-	-		
7 030 71 002	 DIN 69893 - HSK 100 A	291,6	70		60	53	
7 030 71 012				60	53		
7 030 71 022				-	-		
7 030 61 012	 MAS 403 BT 50	291,6	70		60	53	
7 030 61 042				60	53		
7 030 61 072				-	-		
7 030 61 022	 ANSI B 5.50/ CAT 50 inch	281,6	60		60	53	
7 030 61 052				60	53		
7 030 61 082				-	-		

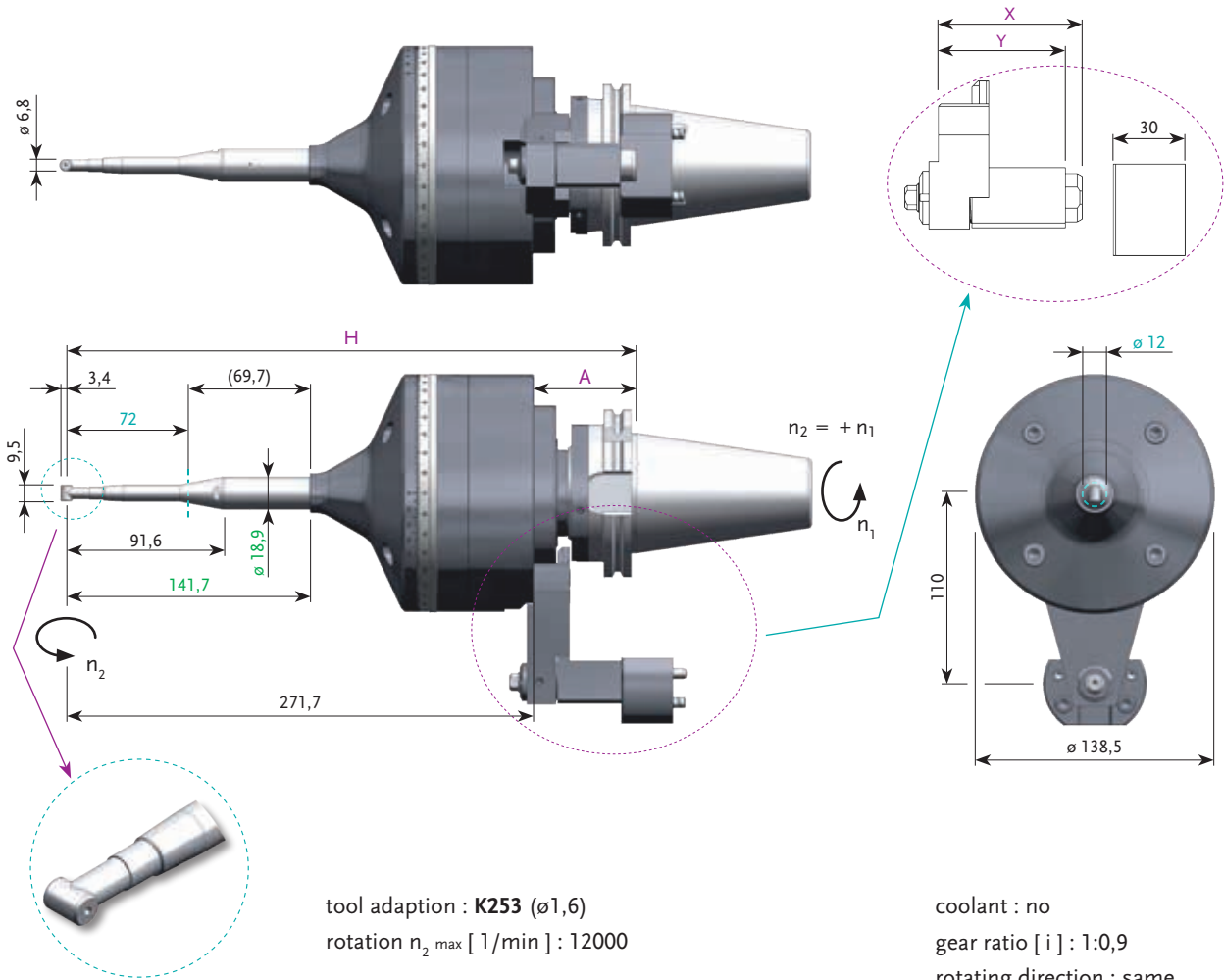
note: support optional!

x = not included in delivery
✓ = included in delivery
Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable, no splash-protection



tool adaption : **K253** ($\varnothing 1,6$)
rotation $n_{2 \max}$ [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,9
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block
					Dim. X [mm] Dim. Y [mm]	
7 030 61 007	DIN 69871 A - SK 50	331,7	60	✓	60 53	✓
7 030 61 037				✓	60 53	✗
7 030 61 067				✗	- -	✗
7 030 71 007	DIN 69893 - HSK 100 A	341,7	70	✓	60 53	✓
7 030 71 017				✓	60 53	✗
7 030 71 027				✗	- -	✗
7 030 61 017	MAS 403 BT 50	341,7	70	✓	60 53	✓
7 030 61 047				✓	60 53	✗
7 030 61 077				✗	- -	✗
7 030 61 027	ANSI B 5.50/ CAT 50 inch	331,7	60	✓	60 53	✓
7 030 61 057				✓	60 53	✗
7 030 61 087				✗	- -	✗

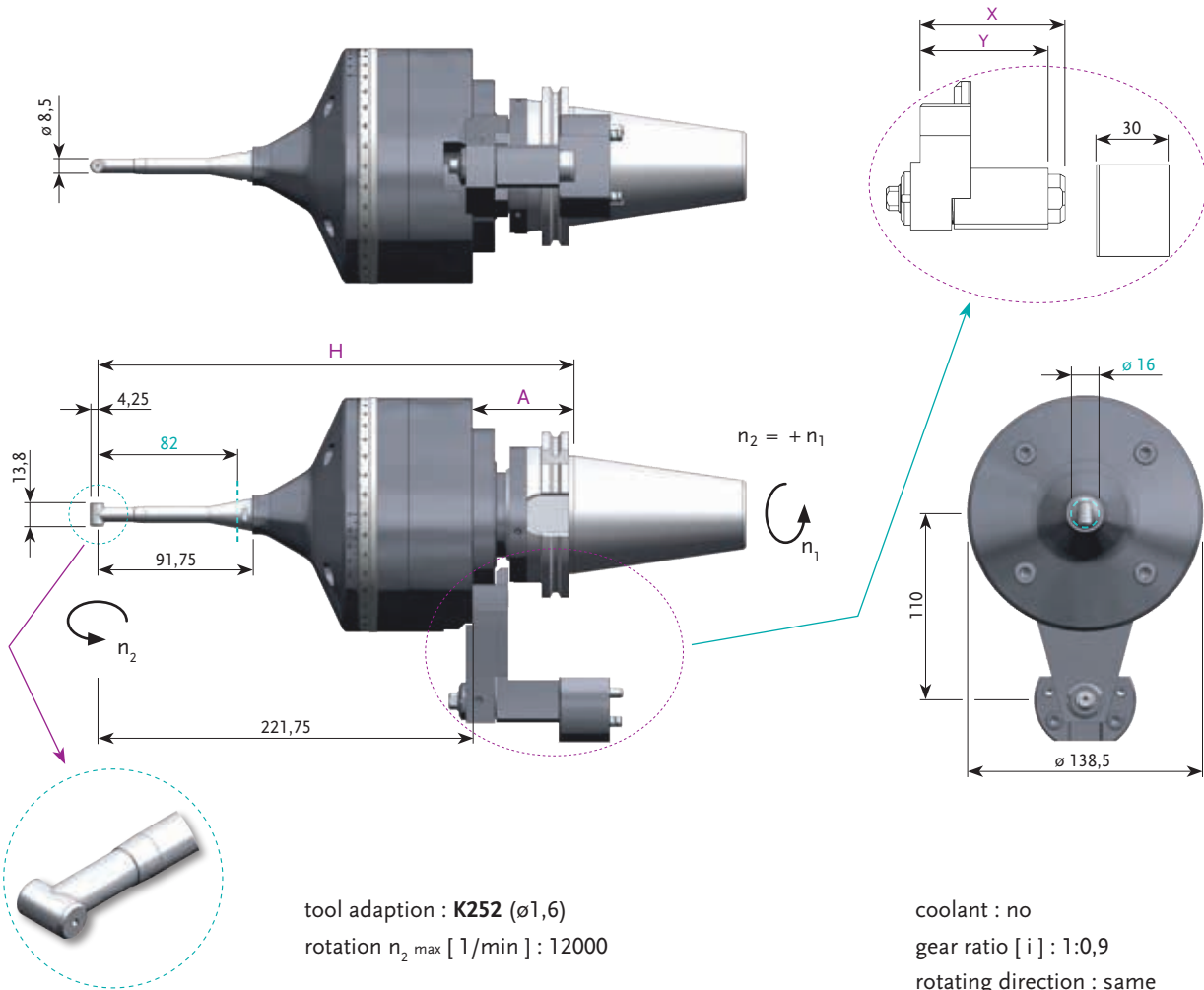
note: support optional!

✗ = not included in delivery
✓ = included in delivery
Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable, no splash-protection



tool adaption : K252 (ø1,6)
rotation $n_{2 \max}$ [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,9
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
				Dim. X [mm]	Dim. Y [mm]		
7 030 61 001		281,75	60		60	53	
7 030 61 031				60	53		
7 030 61 061				-	-		
7 030 71 001		291,75	70		60	53	
7 030 71 011				60	53		
7 030 71 021				-	-		
7 030 61 011		291,75	70		60	53	
7 030 61 041				60	53		
7 030 61 071				-	-		
7 030 61 021		281,75	60		60	53	
7 030 61 051				60	53		
7 030 61 081				-	-		

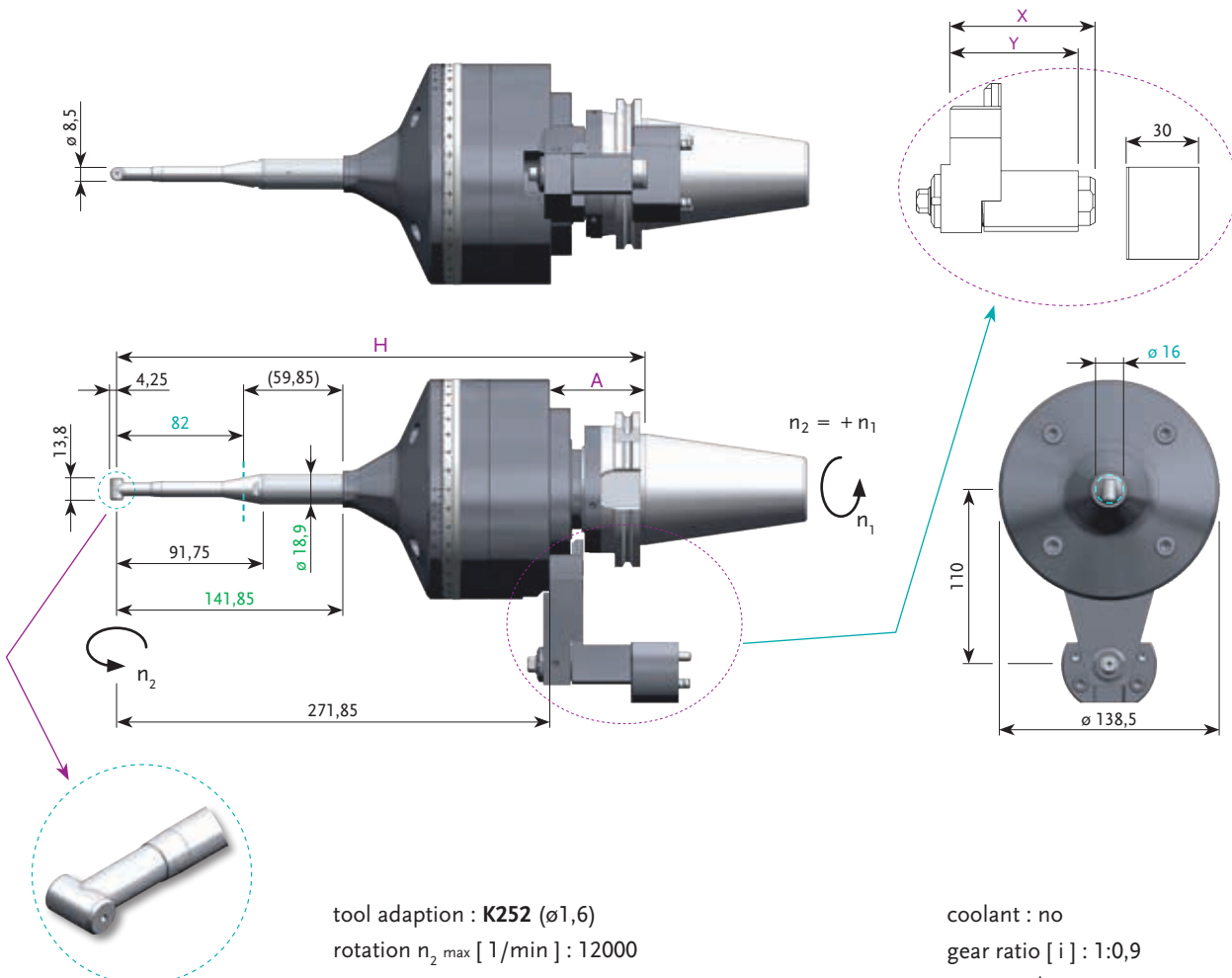
note: support optional!

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✓ = included in delivery
Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable, no splash-protection



tool adaption : **K252** ($\phi 1,6$)
rotation $n_{2 \max}$ [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,9
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm			stop-block
					Dim. X [mm]	Dim. Y [mm]	
7 030 61 006		331,85	60	✓	60	53	✓
7 030 61 036				✓	60	53	✗
7 030 61 066				✗	-	-	✗
7 030 71 006		341,85	70	✓	60	53	✓
7 030 71 016				✓	60	53	✗
7 030 71 026				✗	-	-	✗
7 030 61 016		341,85	70	✓	60	53	✓
7 030 61 046				✓	60	53	✗
7 030 61 076				✗	-	-	✗
7 030 61 026		331,85	60	✓	60	53	✓
7 030 61 056				✓	60	53	✗
7 030 61 086				✗	-	-	✗

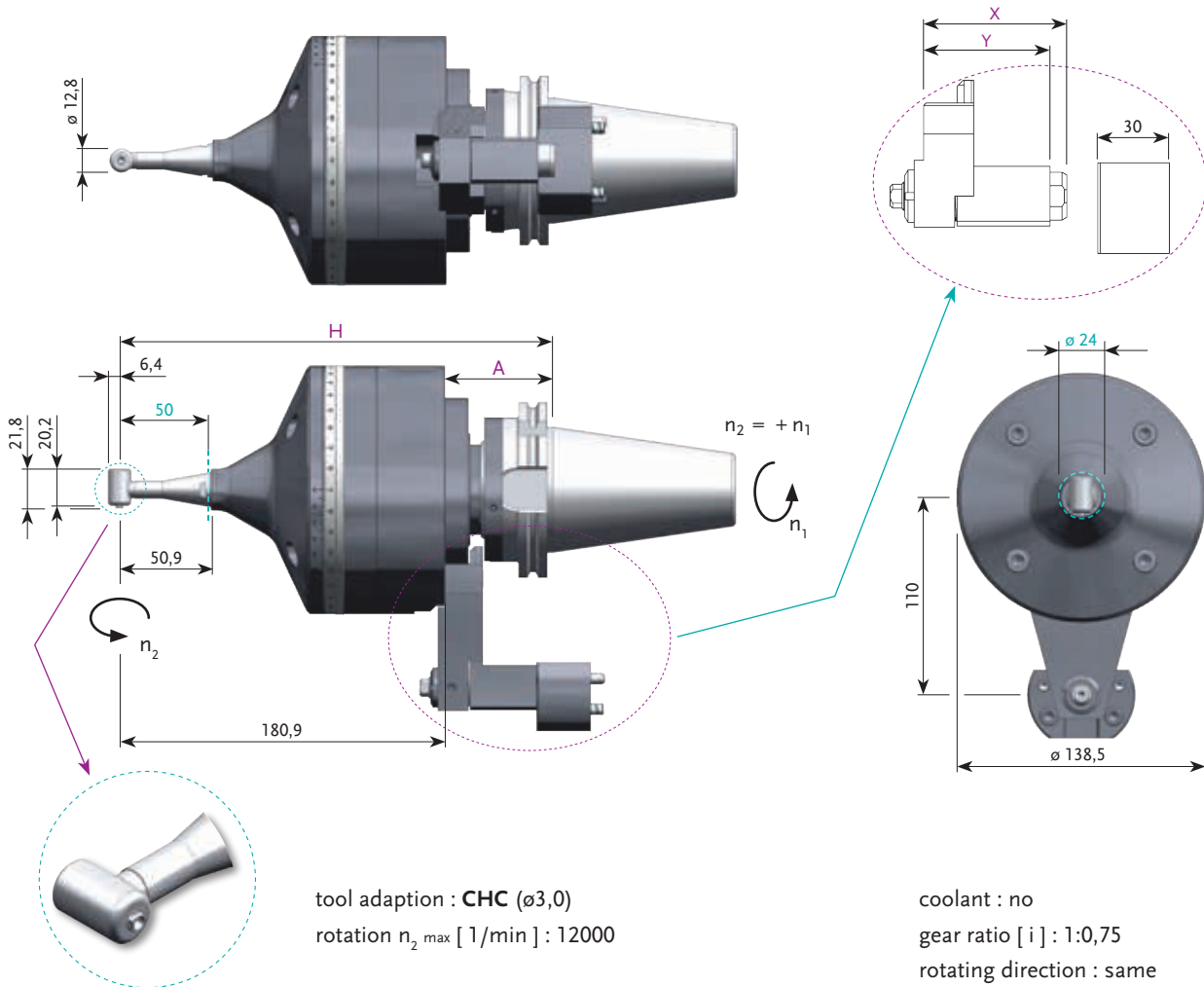
note: support optional!

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Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request






► Angle Heads

360° turnable, no splash-protection



tool adaption : **CHC** (ø3,0)
rotation n_2 max [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,75
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
					Dim. X [mm]		Dim. Y [mm]
7 030 61 000	 DIN 69871 A - SK 50	240,9	60	✓	60	53	✓
7 030 61 030				✓	60	53	✗
7 030 61 060				✗	-	-	✗
7 030 71 000	 DIN 69893 - HSK 100 A	250,9	70	✓	60	53	✓
7 030 71 010				✓	60	53	✗
7 030 71 020				✗	-	-	✗
7 030 61 010	 MAS 403 BT 50	250,9	70	✓	60	53	✓
7 030 61 040				✓	60	53	✗
7 030 61 070				✗	-	-	✗
7 030 61 020	 ANSI B 5.50/ CAT 50 inch	240,9	60	✓	60	53	✓
7 030 61 050				✓	60	53	✗
7 030 61 080				✗	-	-	✗

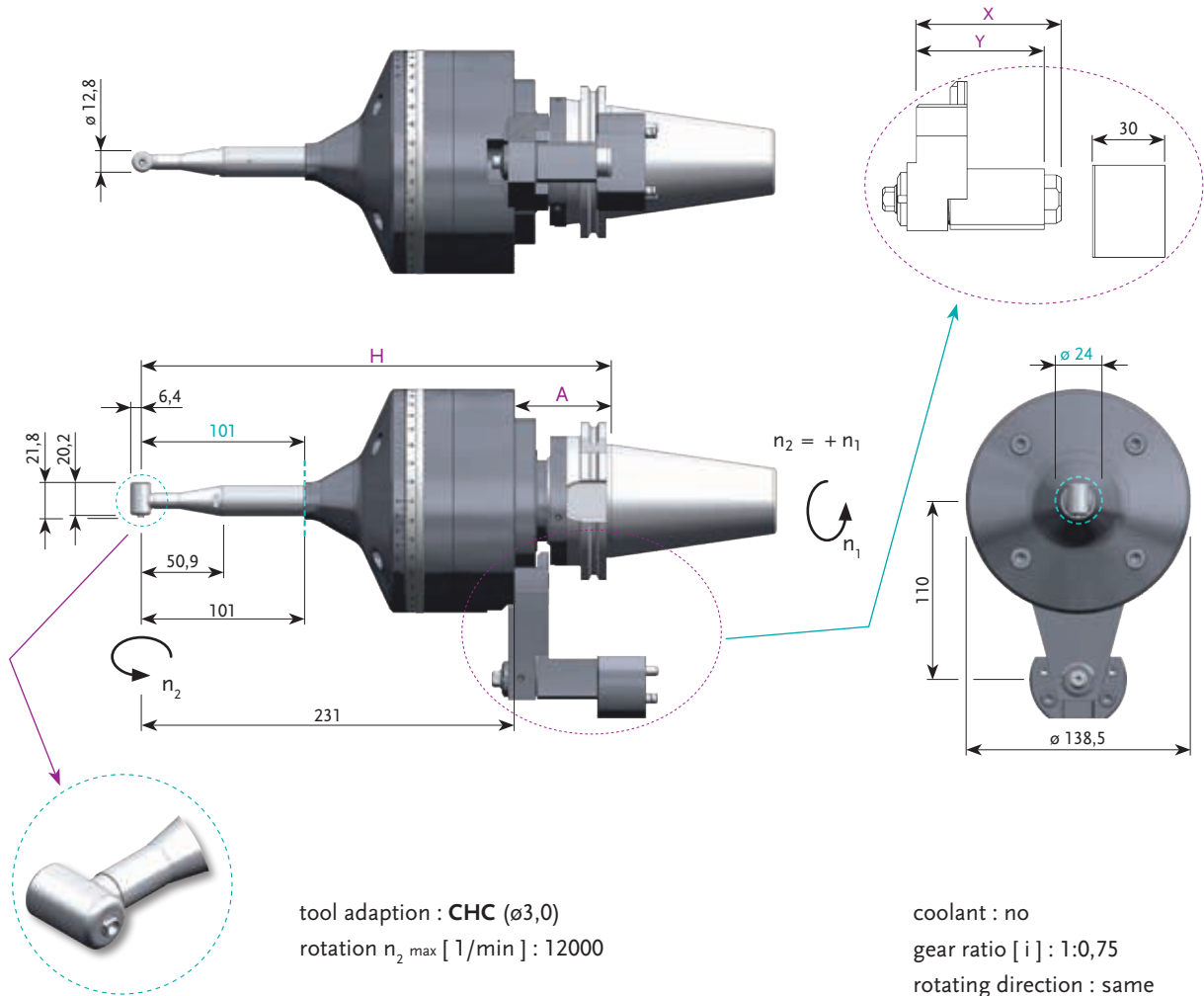
note: support optional!

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✓ = included in delivery
Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable, no splash-protection



tool adaption : **CHC** (ø3,0)
rotation $n_{2 \max}$ [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,75
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
					Dim. X [mm]		Dim. Y [mm]
7 030 61 005	DIN 69871 A - SK 50	291	60	✓	60	53	✓
7 030 61 035				✓	60	53	✗
7 030 61 065				✗	-	-	✗
7 030 71 005	DIN 69893 - HSK 100 A	301	70	✓	60	53	✓
7 030 71 015				✓	60	53	✗
7 030 71 025				✗	-	-	✗
7 030 61 015	MAS 403 BT 50	301	70	✓	60	53	✓
7 030 61 045				✓	60	53	✗
7 030 61 075				✗	-	-	✗
7 030 61 025	ANSI B 5.50/ CAT 50 inch	291	60	✓	60	53	✓
7 030 61 055				✓	60	53	✗
7 030 61 085				✗	-	-	✗

note: support optional!

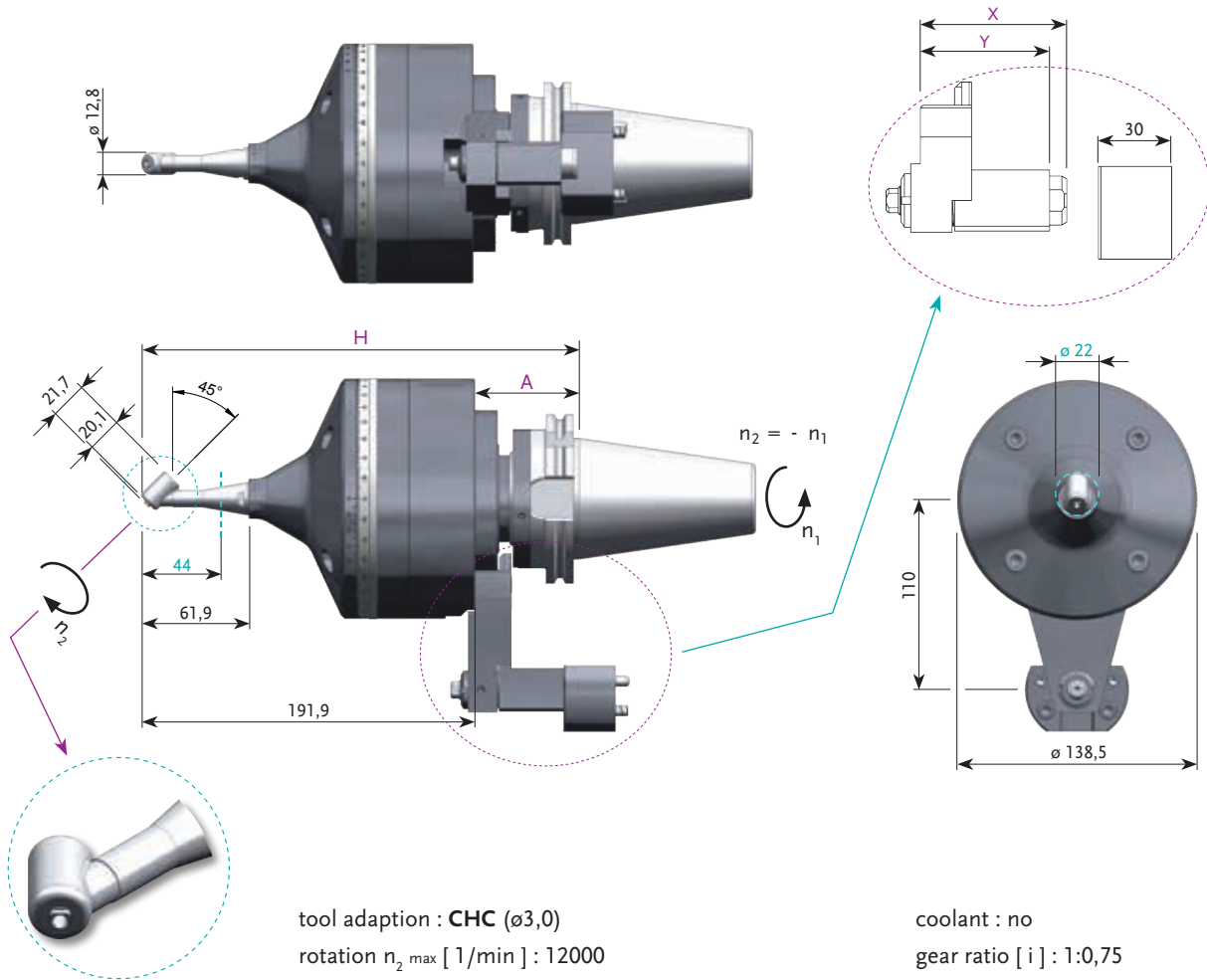
✗ = not included in delivery
✓ = included in delivery

Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request






► Angle Heads

360° turnable, no splash-protection



tool adaption : **CHC** (ø3,0)
rotation $n_{2 \max}$ [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,75
rotating direction : opposite

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
					Dim. X [mm]		Dim. Y [mm]
7 039 61 000	 DIN 69871 A - SK 50	251,9	60	✓	60	53	✓
7 039 61 006				✓	60	53	✗
7 039 61 012				✗	-	-	✗
7 039 71 000	 DIN 69893 - HSK 100 A	261,9	70	✓	60	53	✓
7 039 71 002				✓	60	53	✗
7 039 71 004				✗	-	-	✗
7 039 61 002	 MAS 403 BT 50	261,9	70	✓	60	53	✓
7 039 61 008				✓	60	53	✗
7 039 61 014				✗	-	-	✗
7 039 61 004	 ANSI B 5.50/ CAT 50 inch	251,9	60	✓	60	53	✓
7 039 61 010				✓	60	53	✗
7 039 61 016				✗	-	-	✗

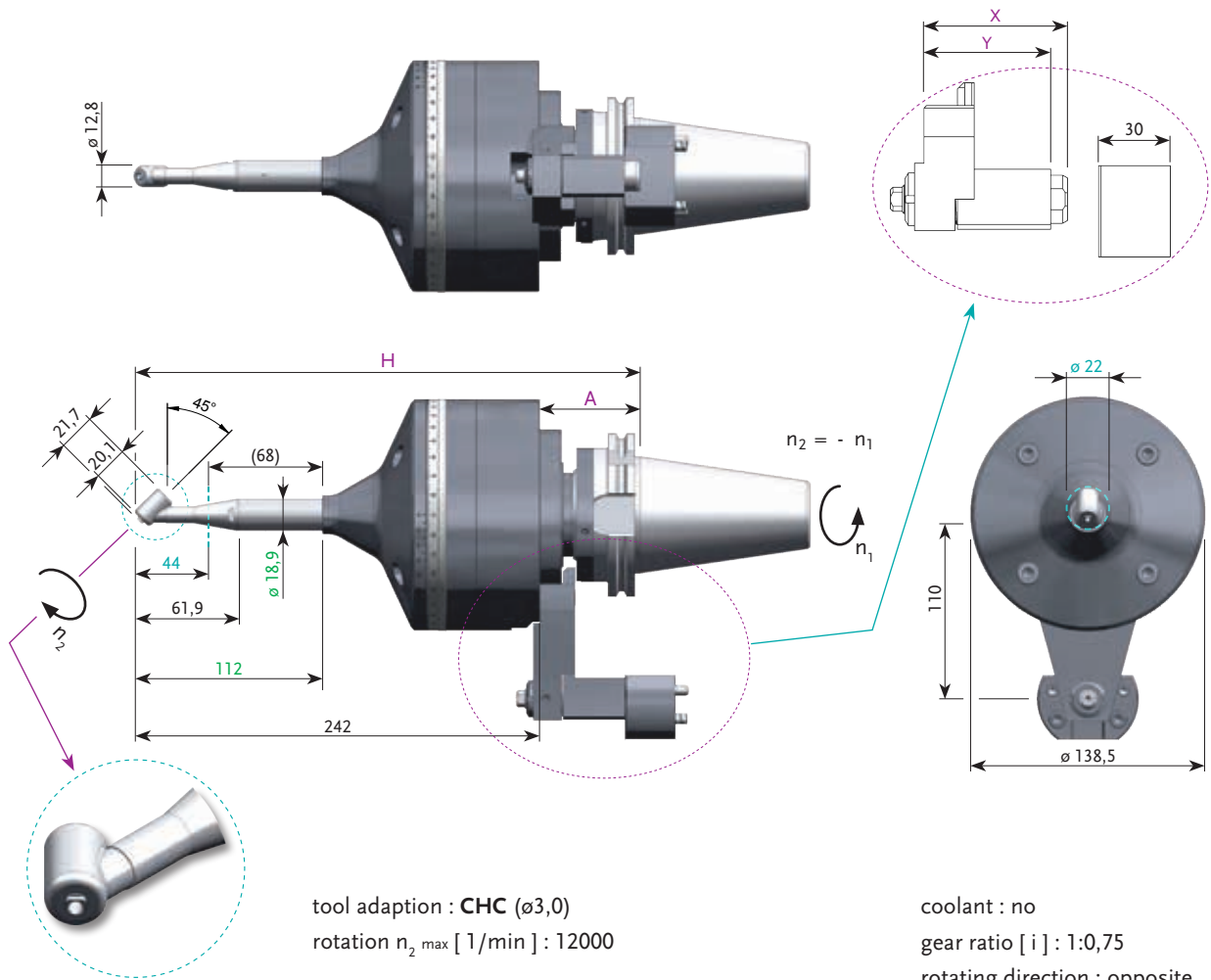
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Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable, no splash-protection



tool adaption : **CHC** ($\varnothing 3,0$)
rotation $n_{2 \max}$ [1/min] : 12000

coolant : no
gear ratio [i] : 1:0,75
rotating direction : opposite

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
					Dim. X [mm]		Dim. Y [mm]
7 039 61 001	DIN 69871 A - SK 50	302	60	✓	60	53	✓
7 039 61 007				✓	60	53	✗
7 039 61 013				✗	-	-	✗
7 039 71 001	DIN 69893 - HSK 100 A	312	70	✓	60	53	✓
7 039 71 003				✓	60	53	✗
7 039 71 005				✗	-	-	✗
7 039 61 003	MAS 403 BT 50	312	70	✓	60	53	✓
7 039 61 009				✓	60	53	✗
7 039 61 015				✗	-	-	✗
7 039 61 005	ANSI B 5.50/ CAT 50 inch	302	60	✓	60	53	✓
7 039 61 011				✓	60	53	✗
7 039 61 017				✗	-	-	✗

note: support optional!

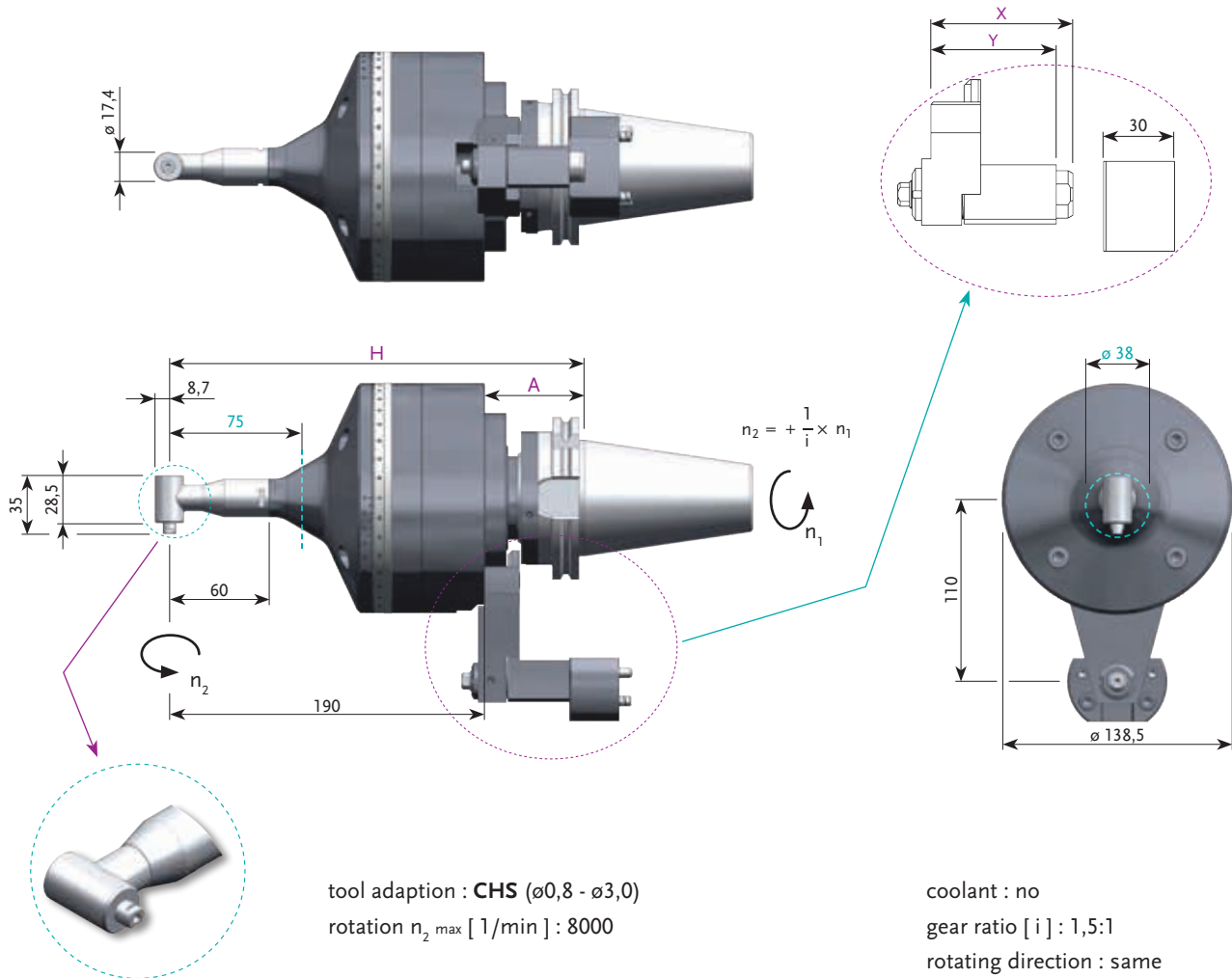
✗ = not included in delivery
✓ = included in delivery

Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request






► Angle Heads

360° turnable



tool adaption : **CHS** ($\phi 0,8 - \phi 3,0$)
rotation $n_{2 \max}$ [1/min] : 8000

coolant : no
gear ratio [i] : 1,5:1
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
					Dim. X [mm]		Dim. Y [mm]
7 030 61 003	 DIN 69871 A - SK 50	250	60	✓	60	53	✓
7 030 61 033				✓	60	53	✗
7 030 61 063				✗	-	-	✗
7 030 71 003	 DIN 69893 - HSK 100 A	260	70	✓	60	53	✓
7 030 71 013				✓	60	53	✗
7 030 71 023				✗	-	-	✗
7 030 61 013	 MAS 403 BT 50	260	70	✓	60	53	✓
7 030 61 043				✓	60	53	✗
7 030 61 073				✗	-	-	✗
7 030 61 023	 ANSI B 5.50/ CAT 50 inch	250	60	✓	60	53	✓
7 030 61 053				✓	60	53	✗
7 030 61 083				✗	-	-	✗

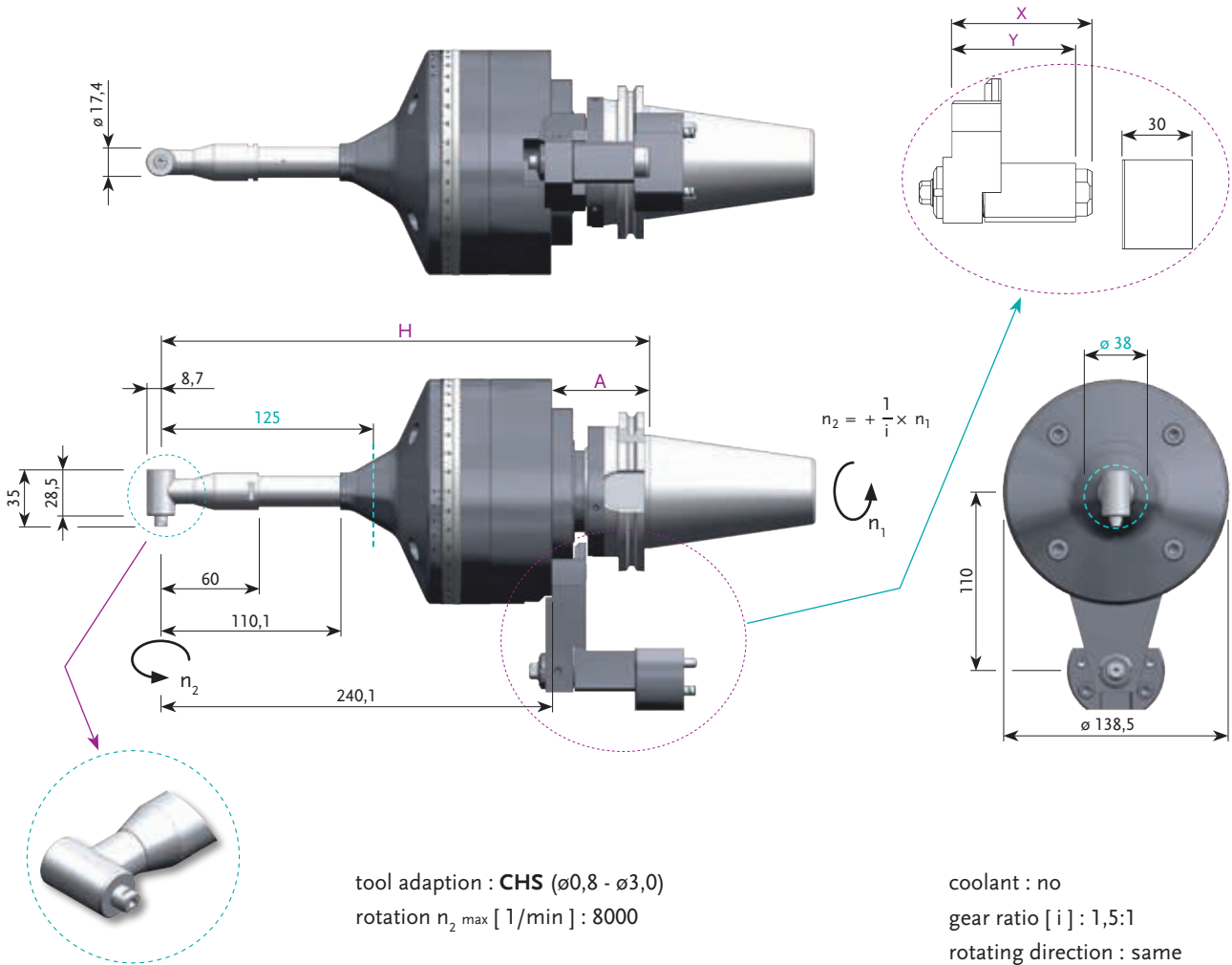
note: support optional!

✗ = not included in delivery
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Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable



tool adaption : **CHS** (ø0,8 - ø3,0)
rotation $n_{2 \max}$ [1/min] : 8000

coolant : no
gear ratio [i] : 1,5:1
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
					Dim. X [mm]		Dim. Y [mm]
7 030 61 008	DIN 69871 A - SK 50	300,1	60		60	53	
7 030 61 038					60	53	
7 030 61 068					-	-	
7 030 71 008	DIN 69893 - HSK 100 A	310,1	70		60	53	
7 030 71 018					60	53	
7 030 71 028					-	-	
7 030 61 018	MAS 403 BT 50	310,1	70		60	53	
7 030 61 048					60	53	
7 030 61 078					-	-	
7 030 61 028	ANSI B 5.50/ CAT 50 inch	300,1	60		60	53	
7 030 61 058					60	53	
7 030 61 088					-	-	

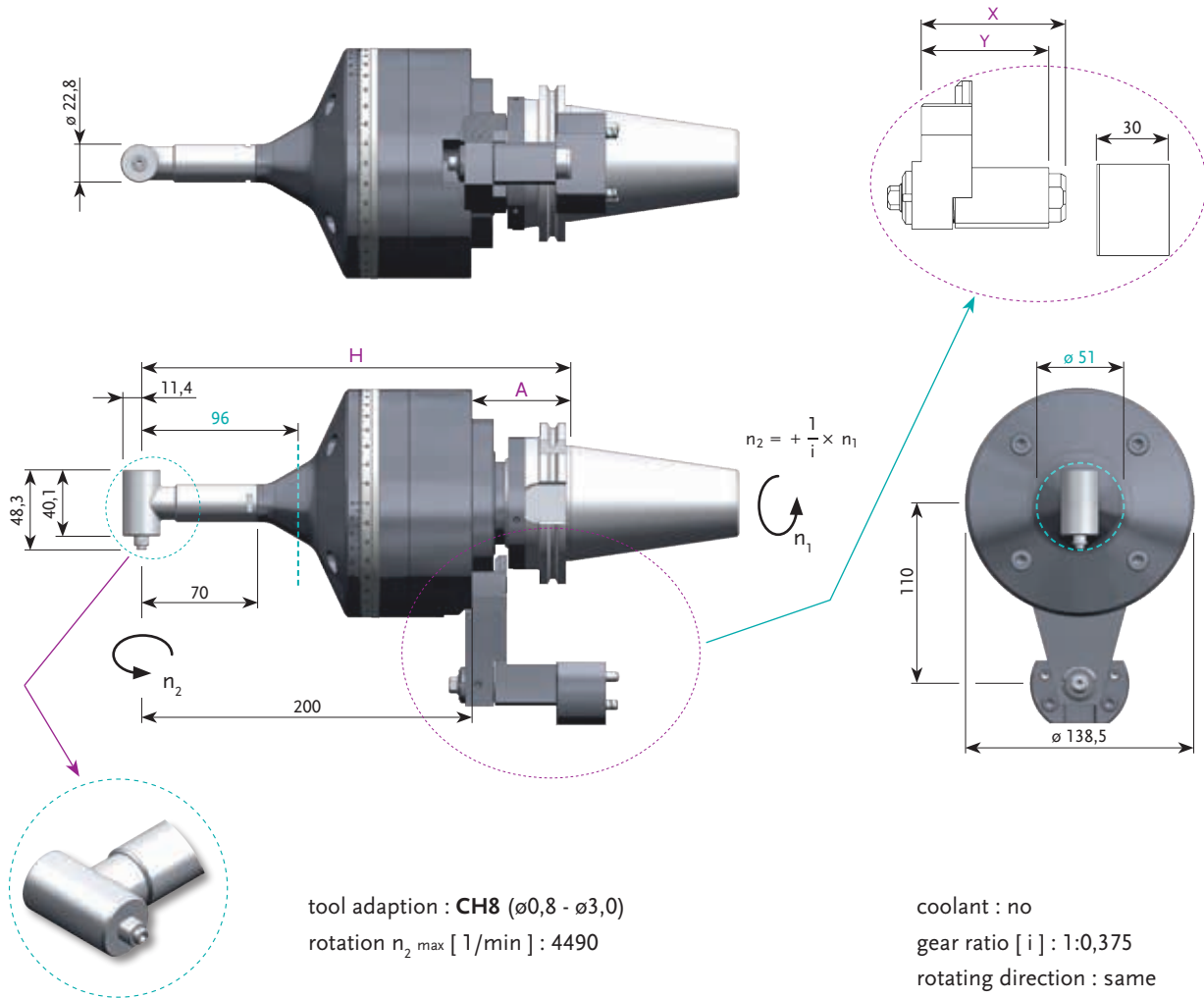
note: support optional!

* = not included in delivery
✓ = included in delivery
Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable



tool adaption : **CH8** ($\varnothing 0,8 - \varnothing 3,0$)
rotation $n_{2 \max}$ [1/min] : 4490

coolant : no
gear ratio [i] : 1:0,375
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm		stop-block	
				Dim. X [mm]	Dim. Y [mm]		
7 030 61 004		260	60		60	53	
7 030 61 034				✓	60	53	✗
7 030 61 064				✗	-	-	✗
7 030 71 004		270	70		60	53	
7 030 71 014				✓	60	53	✗
7 030 71 024				✗	-	-	✗
7 030 61 014		270	70		60	53	
7 030 61 044				✓	60	53	✗
7 030 61 074				✗	-	-	✗
7 030 61 024		260	60		60	53	
7 030 61 054				✓	60	53	✗
7 030 61 084				✗	-	-	✗

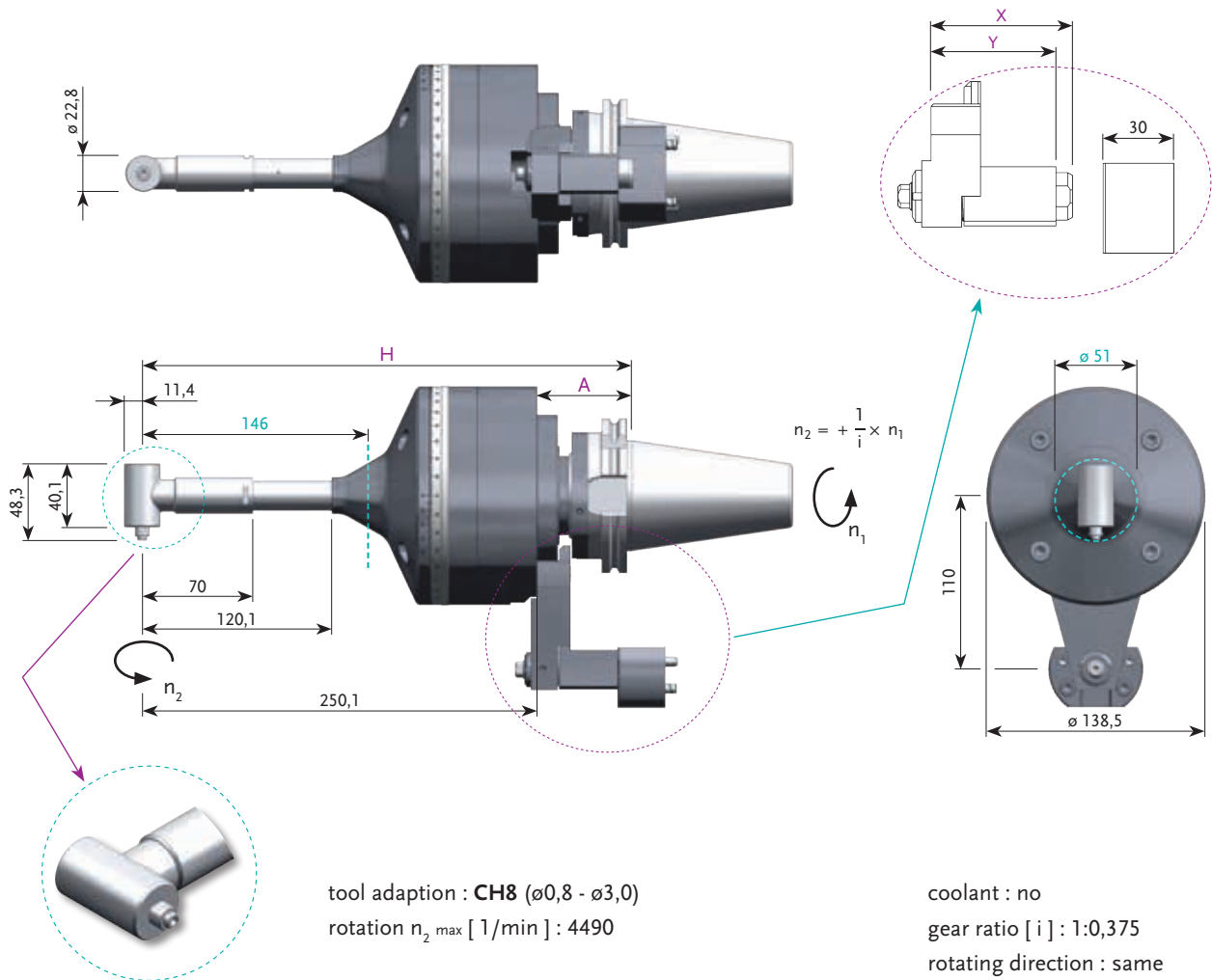
note: support optional!

✗ = not included in delivery
✓ = included in delivery
Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable



tool adaption : **CH8** ($\varnothing 0,8 - \varnothing 3,0$)
rotation $n_{2 \max}$ [1/min] : 4490

coolant : no
gear ratio [i] : 1:0,375
rotating direction : same

ref.-no.	machine adaption	center distance H [mm]	gauge line of housing A [mm]	torque arm			stop-block
					Dim. X [mm]	Dim. Y [mm]	
7 030 61 009	DIN 69871 A - SK 50	310,1	60	✓	60	53	✓
7 030 61 039				✓	60	53	✗
7 030 61 069				✗	-	-	✗
7 030 71 009	DIN 69893 - HSK 100 A	320,1	70	✓	60	53	✓
7 030 71 019				✓	60	53	✗
7 030 71 029				✗	-	-	✗
7 030 61 019	MAS 403 BT 50	320,1	70	✓	60	53	✓
7 030 61 049				✓	60	53	✗
7 030 61 079				✗	-	-	✗
7 030 61 029	ANSI B 5.50/ CAT 50 inch	310,1	60	✓	60	53	✓
7 030 61 059				✓	60	53	✗
7 030 61 089				✗	-	-	✗

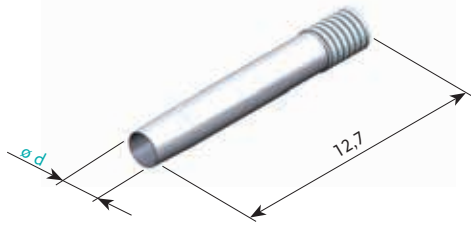
note: support optional!

✗ = not included in delivery
✓ = included in delivery
Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► collet K-252

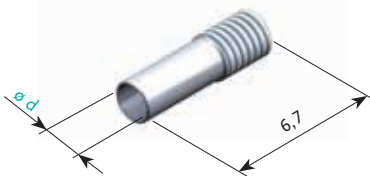
use for : MFC - 300 S



ref.-no.	inner ø d [mm]
1 660 022 013	1,6

► collet K-253

use for : MFC - 300 M



ref.-no.	inner ø d [mm]
1 660 022 014	1,6

► collet CHC

use for : IC - 300 ; KC - 300



ref.-no.	inner ø d [mm]
1 660 022 000	1,0
1 660 022 006	1,6
1 660 022 007	1,8
1 660 022 009	2,0
1 660 022 010	2,35
1 660 022 011	3,0
1 660 022 012	3,175

► collet CHS

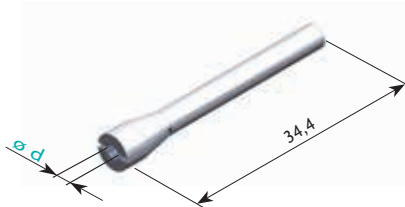
use for : RA - 200



ref.-no.	inner $\varnothing d$ [mm]
1 660 022 015	0,8
1 660 022 016	0,9
1 660 022 017	1,0
1 660 022 018	1,1
1 660 022 019	1,2
1 660 022 020	1,3
1 660 022 021	1,4
1 660 022 022	1,5
1 660 022 023	1,6
1 660 022 024	1,7
1 660 022 025	1,8
1 660 022 026	1,9
1 660 022 027	2,0
1 660 022 028	2,1
1 660 022 029	2,2
1 660 022 030	2,3
1 660 022 031	2,35
1 660 022 032	2,4
1 660 022 033	2,5
1 660 022 034	2,6
1 660 022 035	2,7
1 660 022 036	2,8
1 660 022 037	2,9
1 660 022 038	3,0
1 660 022 039	3,175

► collet CH8

use for : RA - 100



ref.-no.	inner ød [mm]
1 660 022 040	0,8
1 660 022 041	0,9
1 660 022 042	1,0
1 660 022 043	1,1
1 660 022 044	1,2
1 660 022 045	1,3
1 660 022 046	1,4
1 660 022 047	1,5
1 660 022 048	1,6
1 660 022 049	1,7
1 660 022 050	1,8
1 660 022 051	1,9
1 660 022 052	2,0
1 660 022 053	2,1
1 660 022 054	2,2
1 660 022 055	2,3
1 660 022 056	2,35
1 660 022 057	2,4
1 660 022 058	2,5
1 660 022 059	2,6
1 660 022 060	2,7
1 660 022 061	2,8
1 660 022 062	2,9
1 660 022 063	3,0
1 660 022 064	3,175

7 040 45 007
Angle Head
± 90° adjustable
ER 25 AX - u-tec



7 033 45 021
Angle Head
offset
ER 25



7 037 86 000
Disk Mill Head
arbor 27



7 039 64 000
Angle Head
double spindle
arbor 16



7 033 23 001
Angle Head
offset
ER 11 A



7 050 54 003
Multi Spindle Drilling Head
6 - spindle
ER 16 M



7 030 66 010
Angle Head
ER 32 AX - u-tec



7 030 41 064
Angle Head
RA - 100
CH8



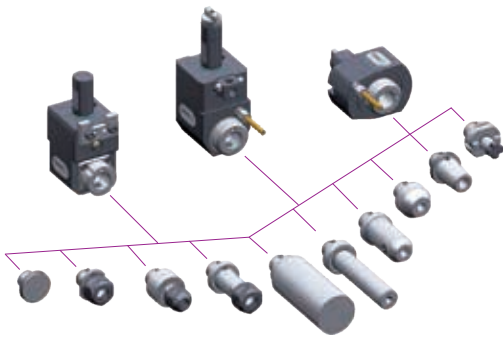
7 039 41 017
Angle Head
KC - 300
CHC



7 030 41 061
Angle Head
MFC - 300 S
K252



► **easy-quick HT fast change system**



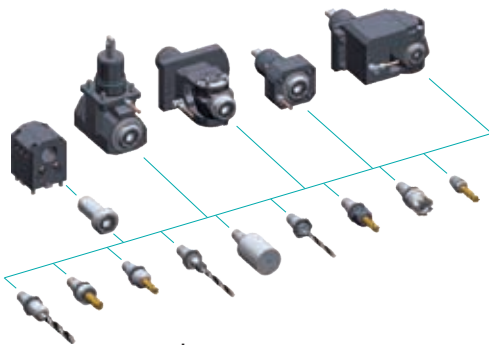
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for driven and static tools

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