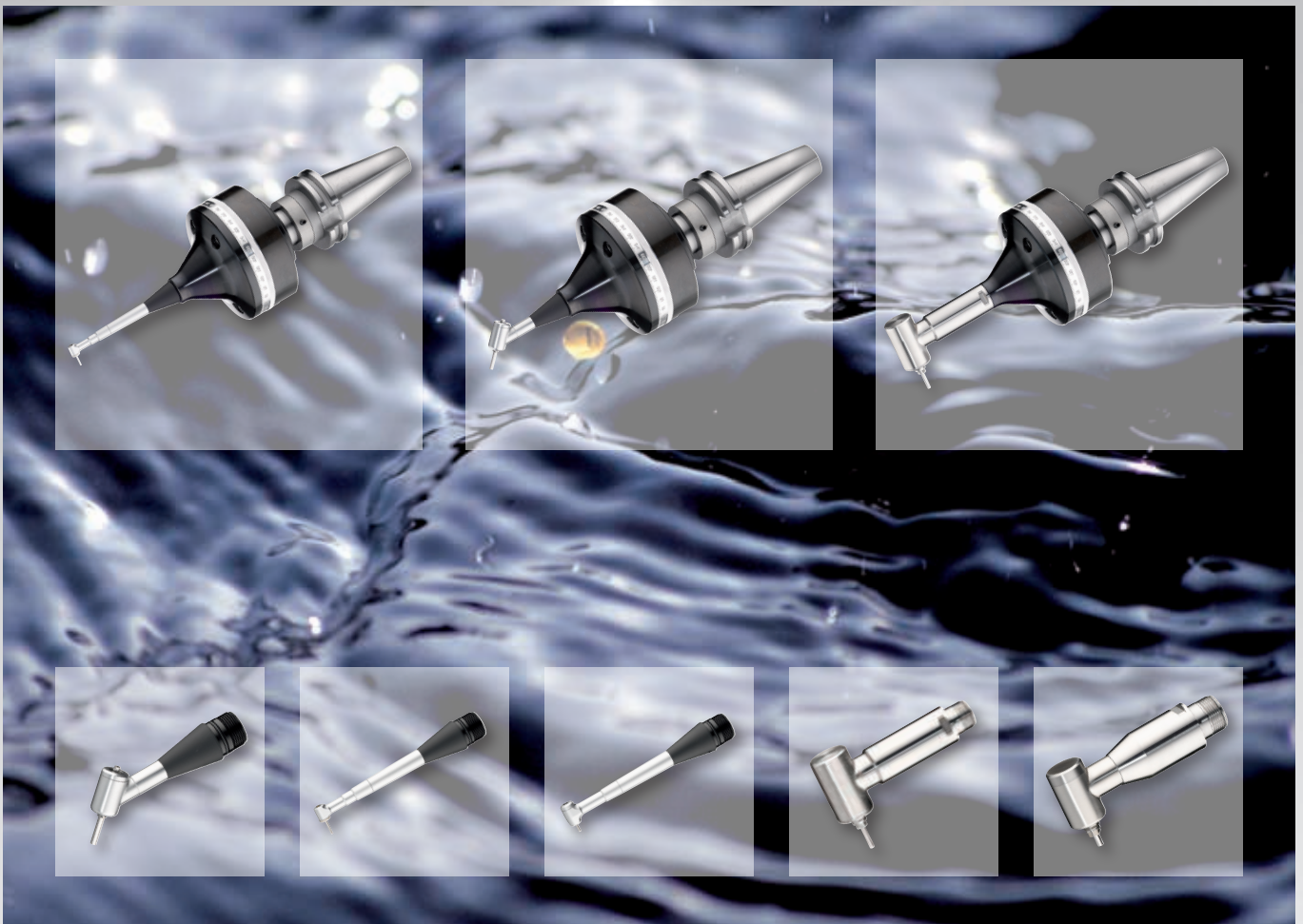


Machining Center Angle Heads

slim
size 4





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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



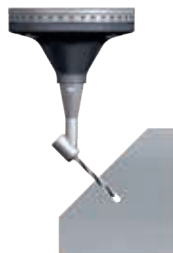
- Angle Heads **KC 300 / 45°**
360° turnable, no splash-protection
max. plunging diameter Ø 22,0 mm
to work under 45°



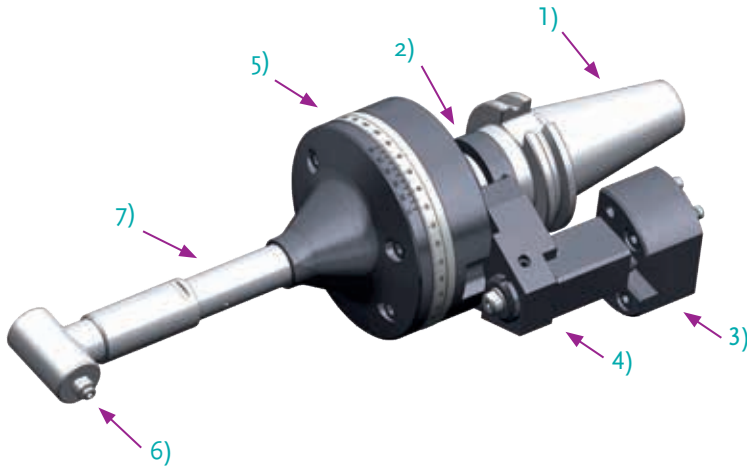
- Angle Heads **RA 200 / 90°**
360° turnable
max. plunging diameter Ø 38,0 mm



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

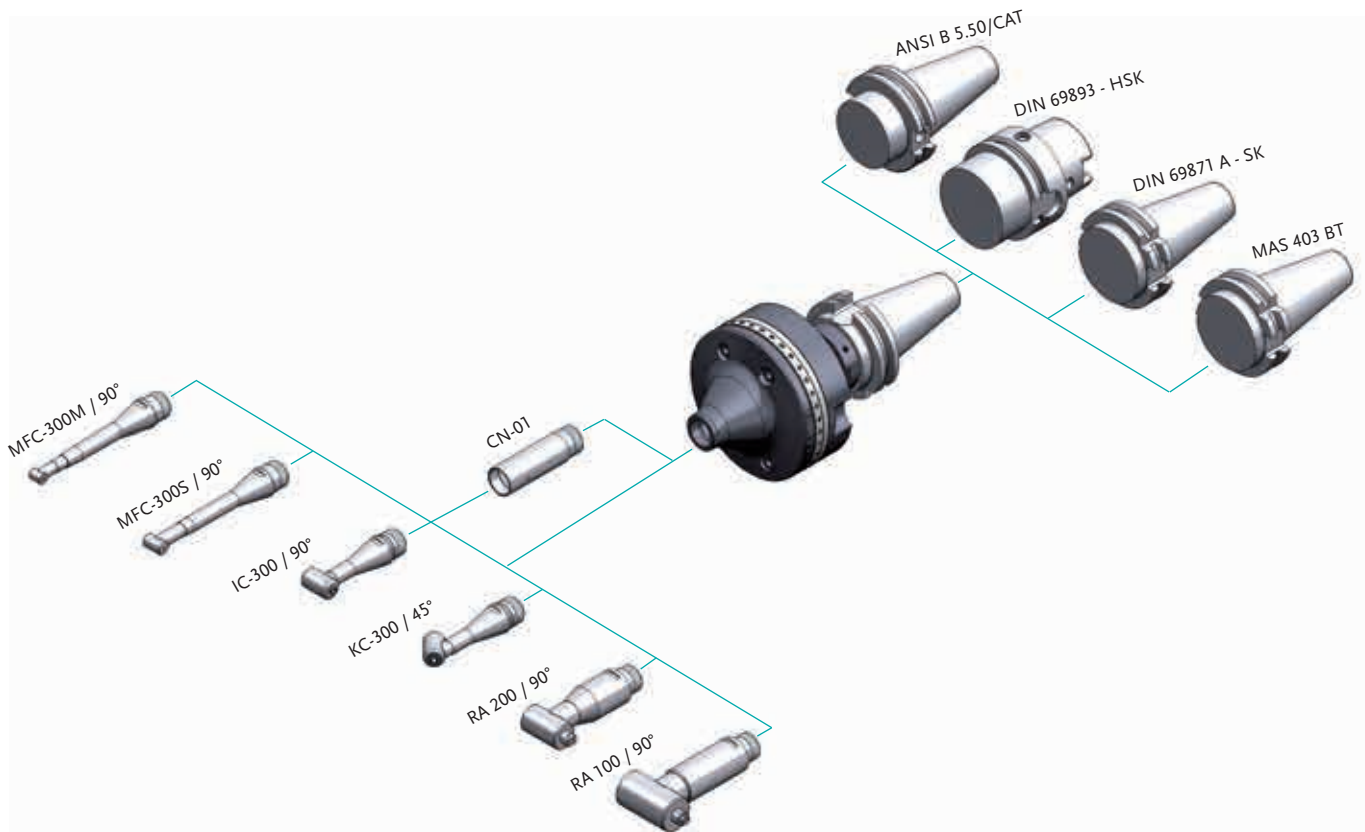


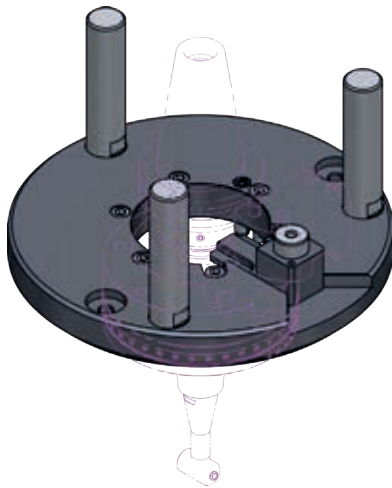
► features and overview



- 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



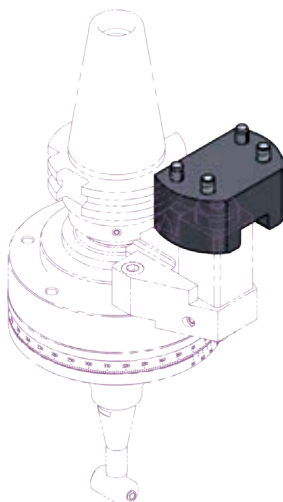
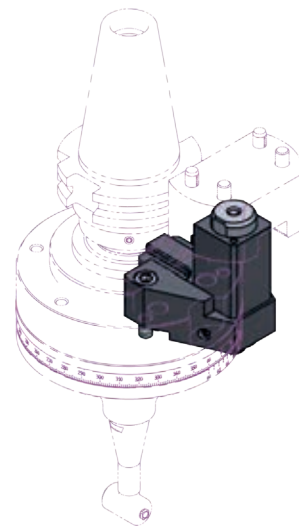


► **Support flange with integrated torque arm**

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.

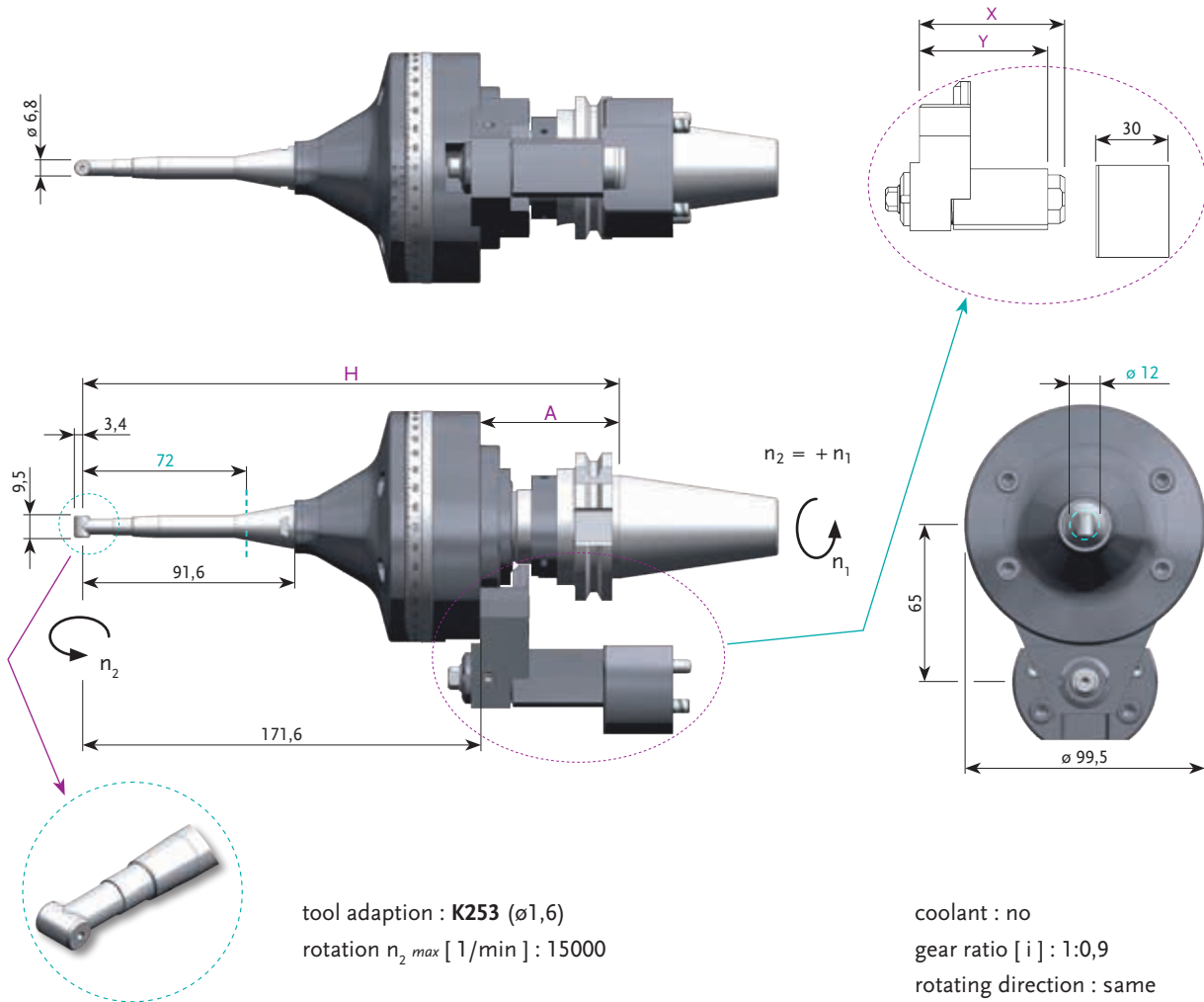


► **Stop block**

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] : 15000

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 41 002	 DIN 69871 A - SK 40	231,6	60	✓	60	53	✓
7 030 41 032				✓	60	53	✗
7 030 41 062				✗	-	-	✗
7 030 51 002	 DIN 69893 - HSK 63 A	238,6	67	✓	60	53	✓
7 030 51 012				✓	60	53	✗
7 030 51 022				✗	-	-	✗
7 030 41 012	 MAS 403 BT 40	231,6	60	✓	60	53	✓
7 030 41 042				✓	60	53	✗
7 030 41 072				✗	-	-	✗
7 030 41 022	 ANSI B 5.50/ CAT 40 inch	231,6	60	✓	60	53	✓
7 030 41 052				✓	60	53	✗
7 030 41 082				✗	-	-	✗

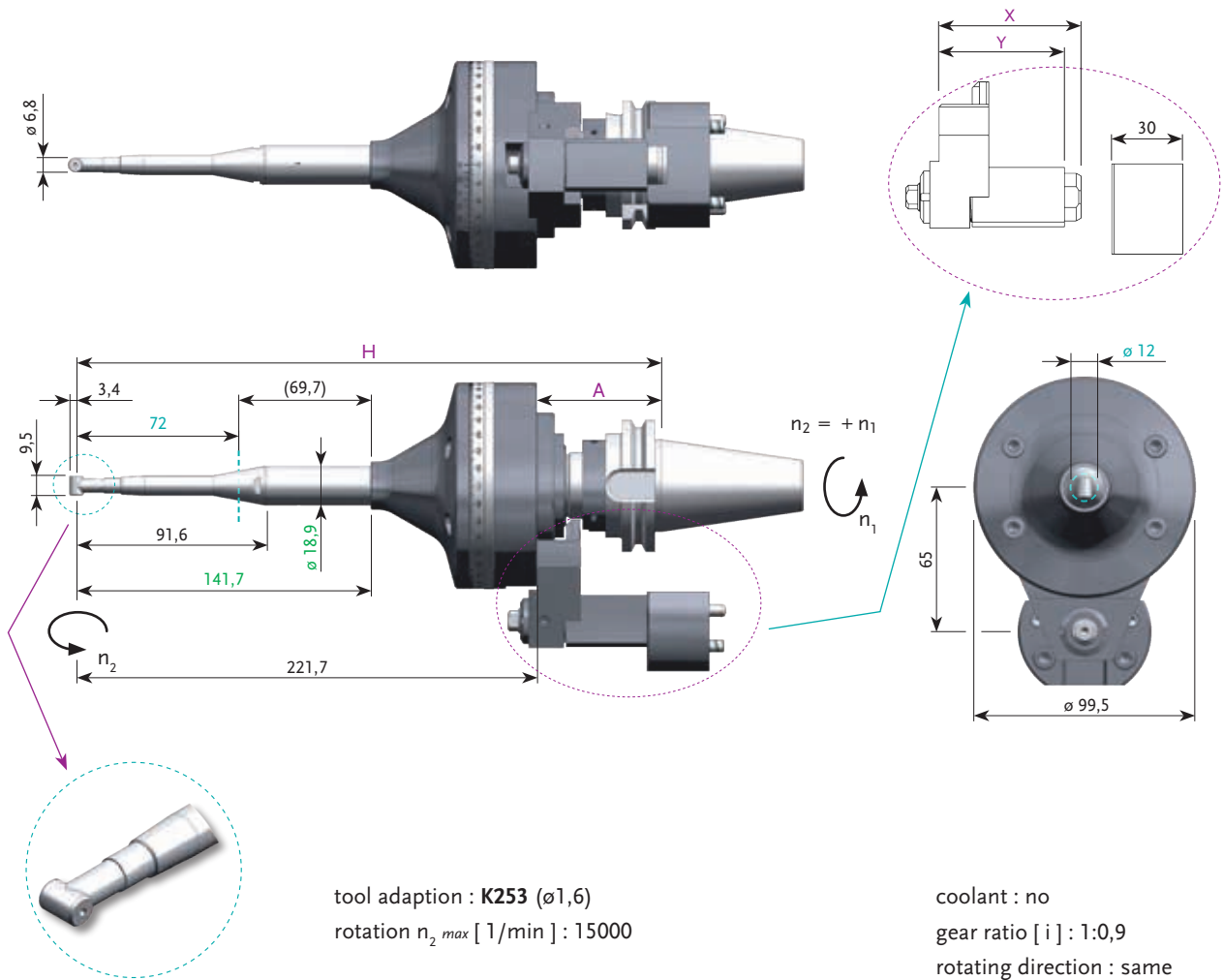
note: support optional!

✗ = 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 : **K253** ($\varnothing 1,6$)
rotation $n_{2 \max}$ [1/min] : 15000

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 41 007		281,7	60		60	53	
7 030 41 037				✓	60	53	✗
7 030 41 067				✗	-	-	✗
7 030 51 007		288,7	67		60	53	
7 030 51 017				✓	60	53	✗
7 030 51 027				✗	-	-	✗
7 030 41 017		281,7	60		60	53	
7 030 41 047				✓	60	53	✗
7 030 41 077				✗	-	-	✗
7 030 41 027		281,7	60		60	53	
7 030 41 057				✓	60	53	✗
7 030 41 087				✗	-	-	✗

note: support optional!

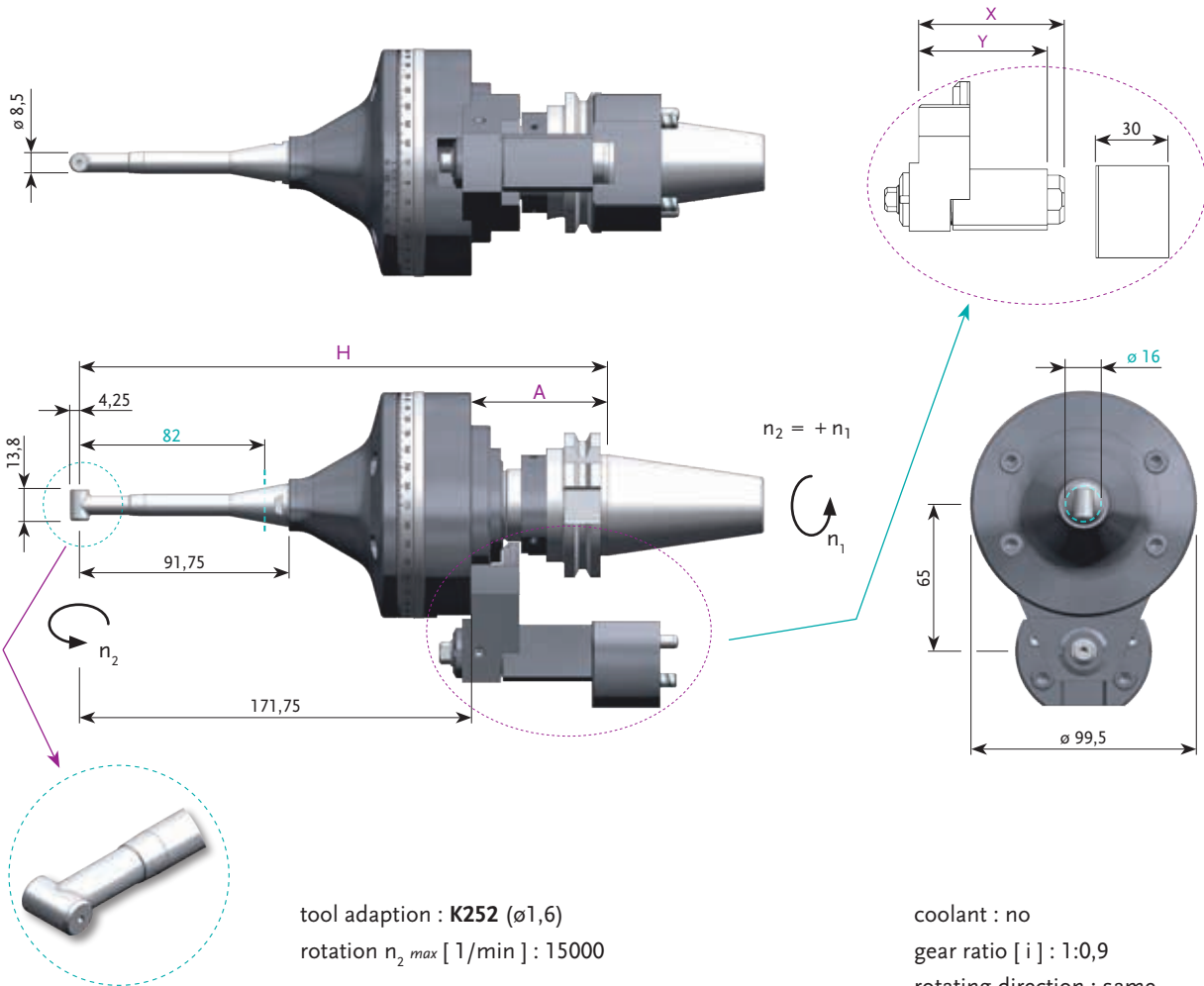
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Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable, no splash-protection



tool adaption : K252 ($\varnothing 1,6$)
rotation $n_{2 \max}$ [1/min] : 15000

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 41 001		231,75	60		60	53	
7 030 41 031				✓	60	53	✗
7 030 41 061				✗	-	-	✗
7 030 51 001		238,75	67		60	53	
7 030 51 011				✓	60	53	✗
7 030 51 021				✗	-	-	✗
7 030 41 011		231,75	60		60	53	
7 030 41 041				✓	60	53	✗
7 030 41 071				✗	-	-	✗
7 030 41 021		231,75	60		60	53	
7 030 41 051				✓	60	53	✗
7 030 41 081				✗	-	-	✗

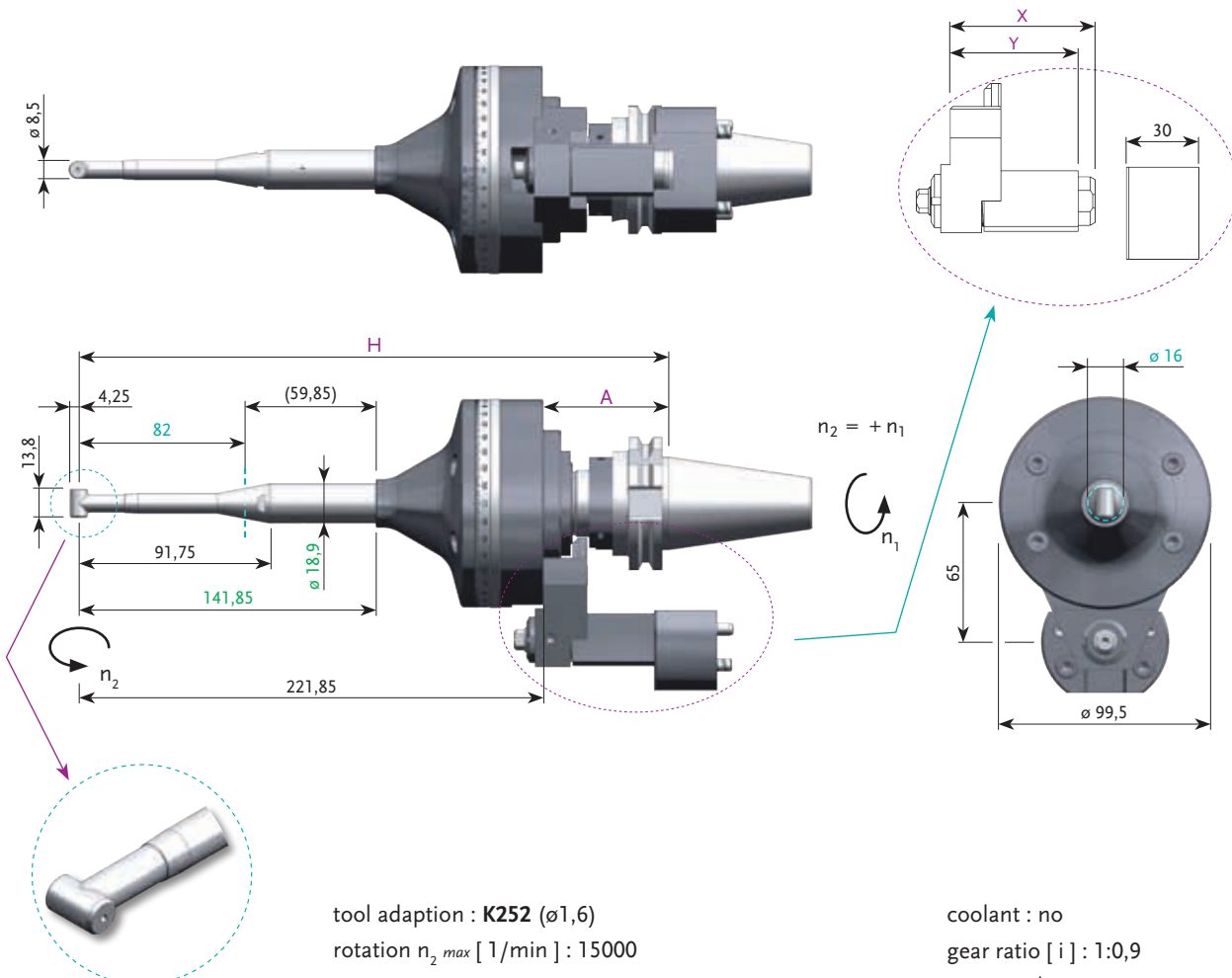
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Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable, no splash-protection



tool adaption : **K252** ($\phi 1,6$)
rotation $n_{2\ max}$ [1/min] : 15000

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 41 006		281,85	60	✓	60 53	✓
7 030 41 036				✓	60 53	✗
7 030 41 066				✗	- -	✗
7 030 51 006		288,85	67	✓	60 53	✓
7 030 51 016				✓	60 53	✗
7 030 51 026				✗	- -	✗
7 030 41 016		281,85	60	✓	60 53	✓
7 030 41 046				✓	60 53	✗
7 030 41 076				✗	- -	✗
7 030 41 026		281,85	60	✓	60 53	✓
7 030 41 056				✓	60 53	✗
7 030 41 086				✗	- -	✗

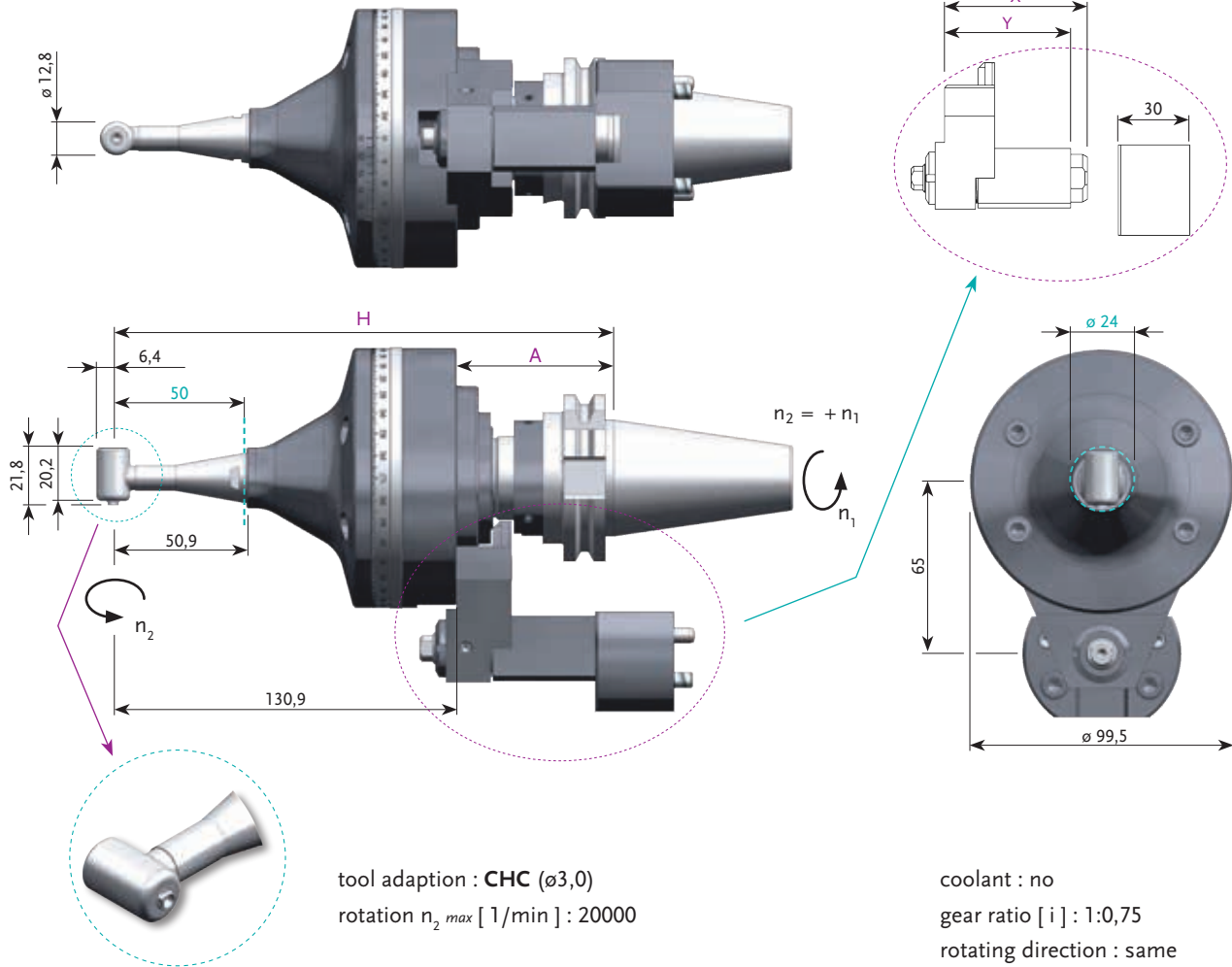
note: support optional!

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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] : 20000

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 41 000	 DIN 69871 A - SK 40	190,9	60	✓	60 53	✓
7 030 41 030				✓	60 53	✗
7 030 41 060				✗	- -	✗
7 030 51 000	 DIN 69893 - HSK 63 A	197,9	67	✓	60 53	✓
7 030 51 010				✓	60 53	✗
7 030 51 020				✗	- -	✗
7 030 41 040	 MAS 403 BT 40	190,9	60	✓	60 53	✓
7 030 41 010				✓	60 53	✗
7 030 41 070				✗	- -	✗
7 030 41 020	 ANSI B 5.50/ CAT 40 inch	190,9	60	✓	60 53	✓
7 030 41 050				✓	60 53	✗
7 030 41 080				✗	- -	✗

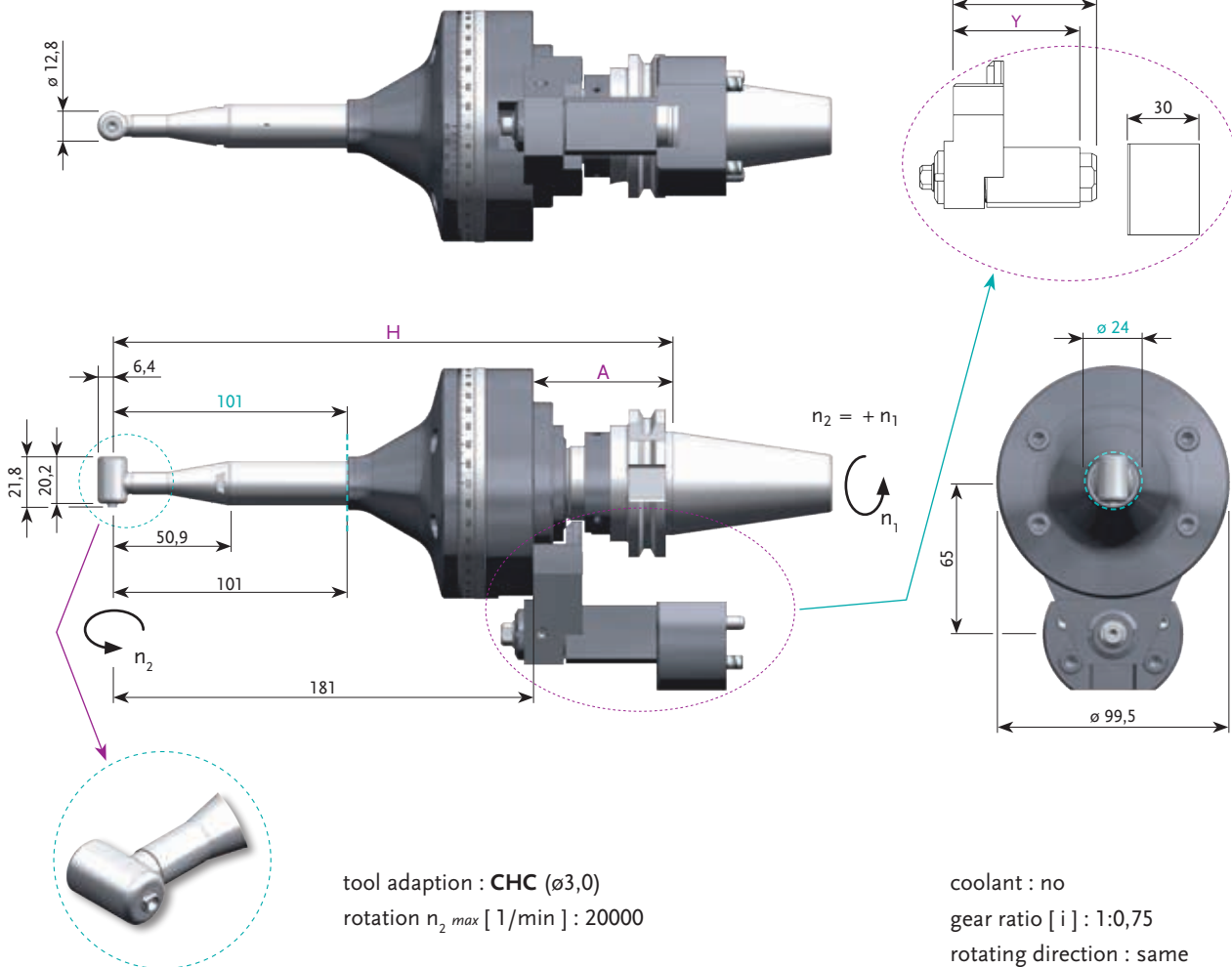
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Dim. Y = locking device / gauge line of the housing

► further versions on request






► Angle Heads

360° turnable, no splash-protection



tool adaption : CHC ($\varnothing 3,0$)
rotation $n_{2\ max}$ [1/min] : 20000

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 41 005	 DIN 69871 A - SK 40	241	60	✓	60	53	✓
7 030 41 035				✓	60	53	x
7 030 41 065				x	-	-	x
7 030 51 005	 DIN 69893 - HSK 63 A	248	67	✓	60	53	✓
7 030 51 015				✓	60	53	x
7 030 51 025				x	-	-	x
7 030 41 015	 MAS 403 BT 40	241	60	✓	60	53	✓
7 030 41 045				✓	60	53	x
7 030 41 075				x	-	-	x
7 030 41 025	 ANSI B 5.50/ CAT 40 inch	241	60	✓	60	53	✓
7 030 41 055				✓	60	53	x
7 030 41 085				x	-	-	x

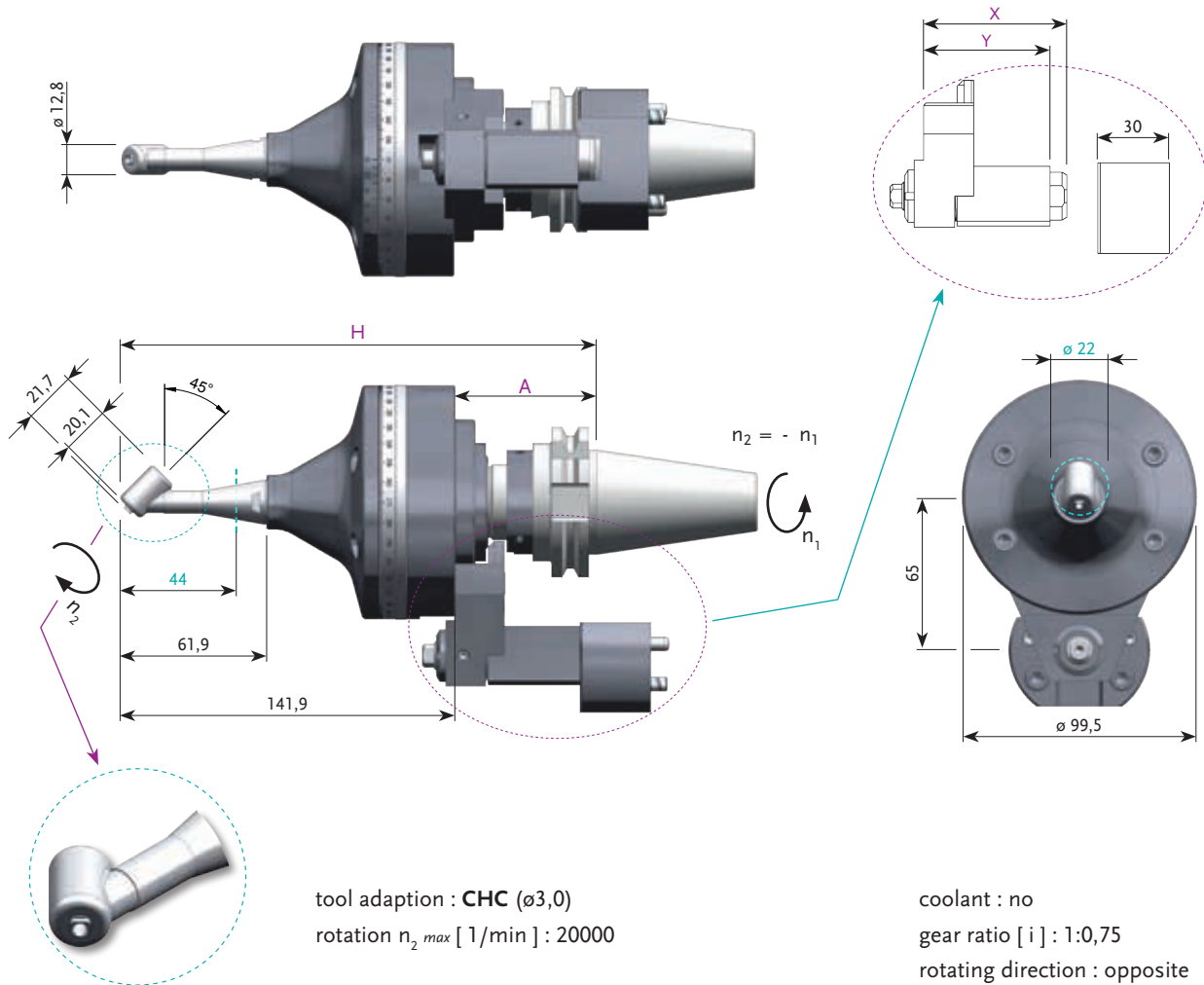
note: support optional!

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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] : 20000

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 41 005		201,9	60		60	53	
7 039 41 011				✓	60	53	✗
7 039 41 017				✗	-	-	✗
7 039 51 000		208,9	67		60	53	
7 039 51 002				✓	60	53	✗
7 039 51 004				✗	-	-	✗
7 039 41 007		201,9	60		60	53	
7 039 41 013				✓	60	53	✗
7 039 41 019				✗	-	-	✗
7 039 41 015		201,9	60		60	53	
7 039 41 009				✓	60	53	✗
7 039 41 021				✗	-	-	✗

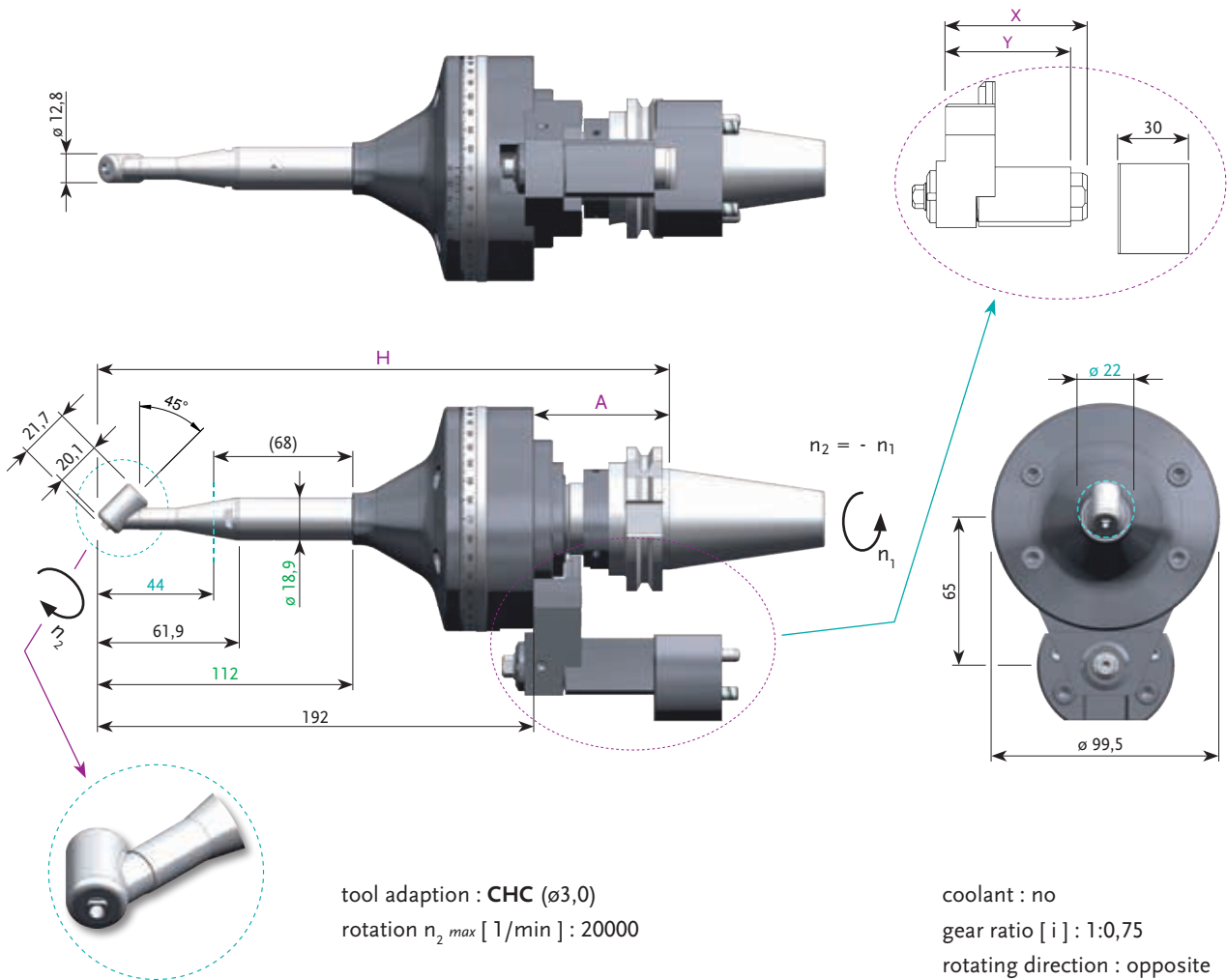
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Dim. X = end face fixing bolt / gauge line of the housing
Dim. Y = locking device / gauge line of the housing

► further versions on request






► Angle Heads

360° turnable, no splash-protection



tool adaption : CHC ($\phi 3,0$)
rotation $n_{2 \max}$ [1/min] : 20000

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 41 006	 DIN 69871 A - SK 40	252	60	✓	60	53	✓
7 039 41 012				✓	60	53	x
7 039 41 018				x	-	-	x
7 039 51 001	 DIN 69893 - HSK 63 A	259	67	✓	60	53	✓
7 039 51 003				✓	60	53	x
7 039 51 005				x	-	-	x
7 039 41 008	 MAS 403 BT 40	252	60	✓	60	53	✓
7 039 41 014				✓	60	53	x
7 039 41 020				x	-	-	x
7 039 41 010	 ANSI B 5.50/ CAT 40 inch	252	60	✓	60	53	✓
7 039 41 016				✓	60	53	x
7 039 41 022				x	-	-	x

note: support optional!

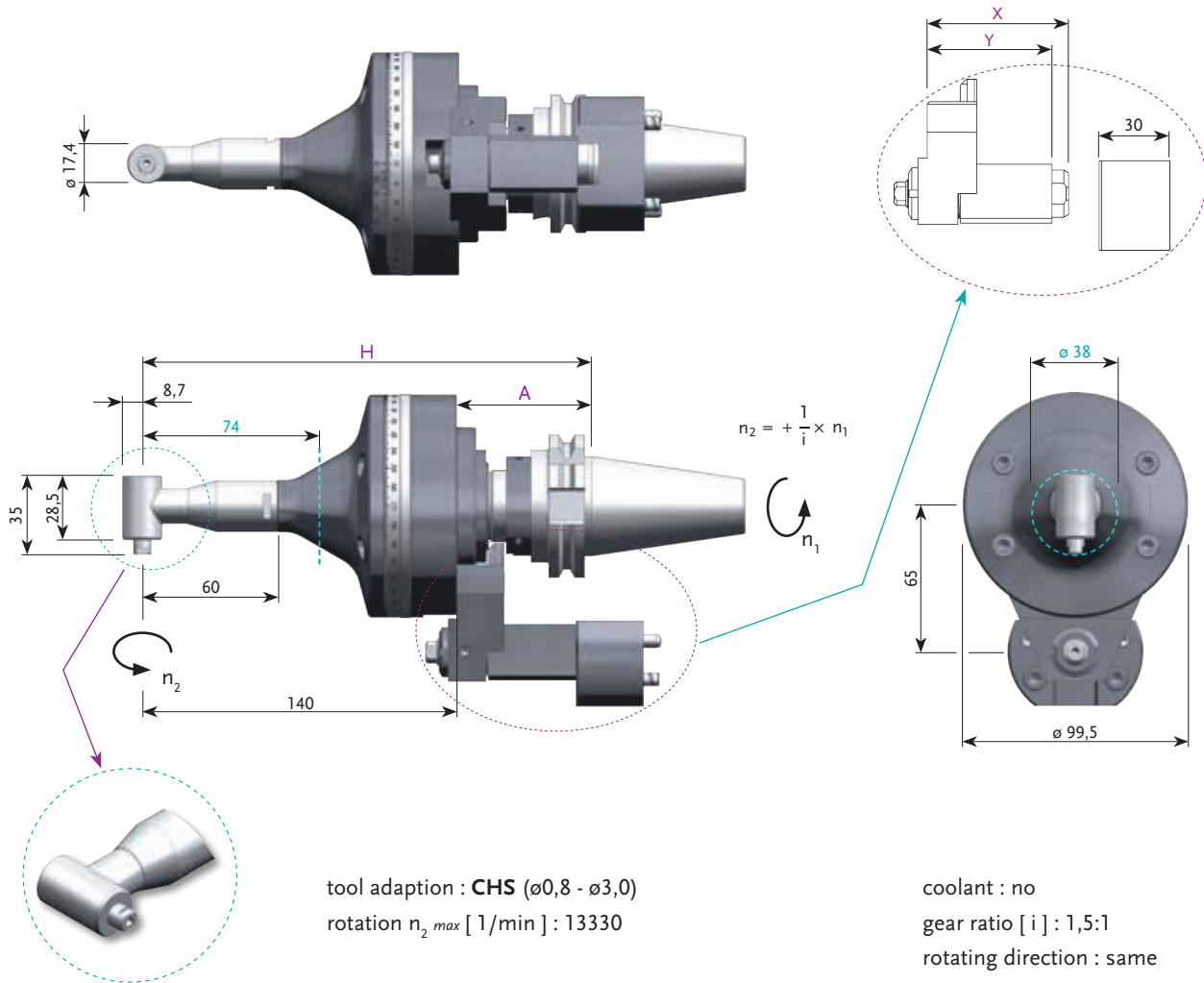
x = not included in delivery
✓ = included in delivery

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



tool adaption : **CHS** ($\varnothing 0,8 - \varnothing 3,0$)
rotation $n_{2 \max}$ [1/min] : 13330

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 41 003	 DIN 69871 A - SK 40	200	60	✓	60	53	✓
7 030 41 033				✓	60	53	✗
7 030 41 063				✗	-	-	✗
7 030 51 003	 DIN 69893 - HSK 63 A	207	67	✓	60	53	✓
7 030 51 013				✓	60	53	✗
7 030 51 023				✗	-	-	✗
7 030 41 013	 MAS 403 BT 40	200	60	✓	60	53	✓
7 030 41 043				✓	60	53	✗
7 030 41 073				✗	-	-	✗
7 030 41 023	 ANSI B 5.50/ CAT 40 inch	200	60	✓	60	53	✓
7 030 41 053				✓	60	53	✗
7 030 41 083				✗	-	-	✗

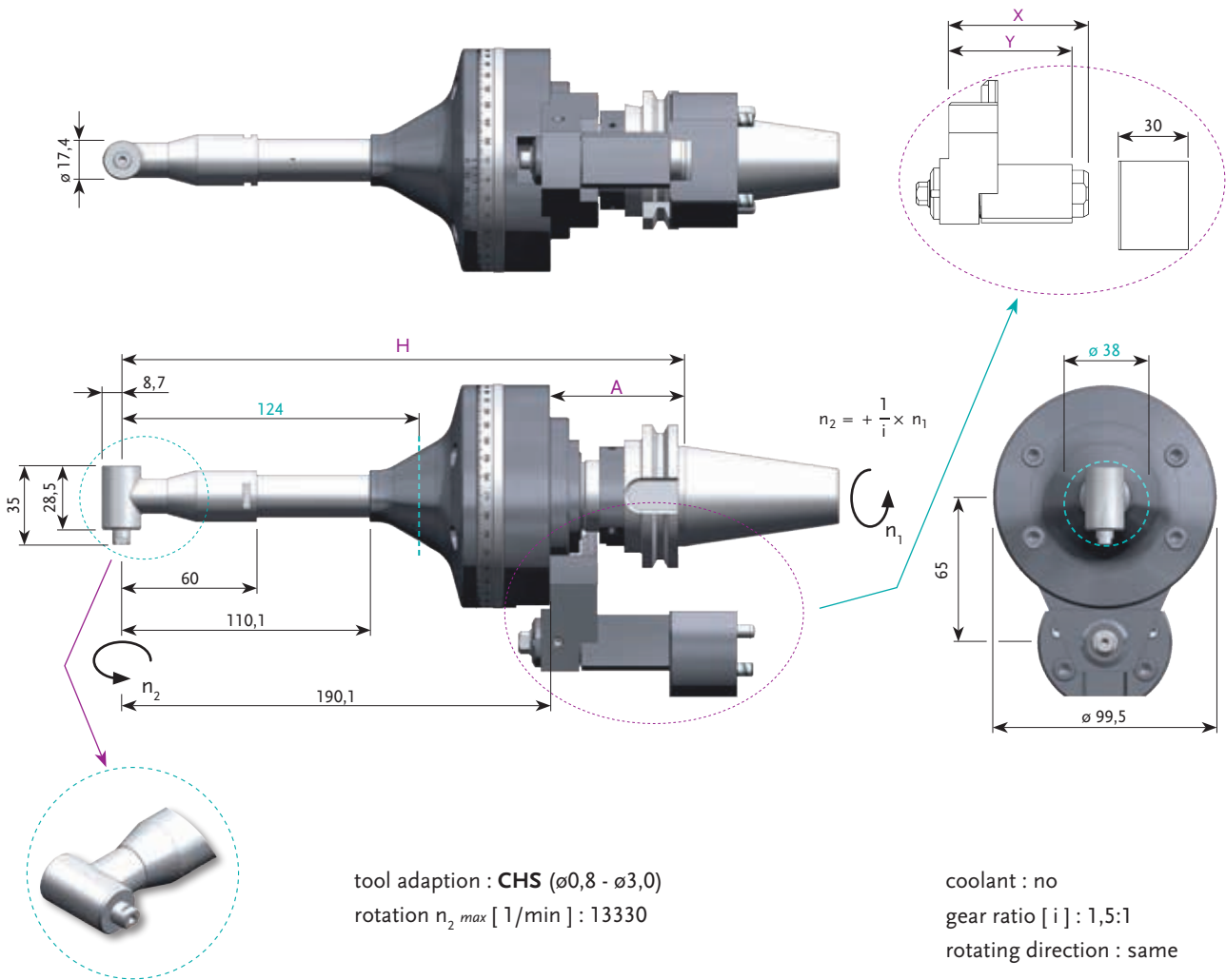
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Dim. Y = locking device / gauge line of the housing

► further versions on request

► Angle Heads

360° turnable



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 41 008		250,1	60	✓	60 53	✓
7 030 41 038				✓	60 53	✗
7 030 41 068				✗	- -	✗
7 030 51 008		257,1	67	✓	60 53	✓
7 030 51 018				✓	60 53	✗
7 030 51 028				✗	- -	✗
7 030 41 018		250,1	60	✓	60 53	✓
7 030 41 048				✓	60 53	✗
7 030 41 078				✗	- -	✗
7 030 41 028		250,1	60	✓	60 53	✓
7 030 41 058				✓	60 53	✗
7 030 41 088				✗	- -	✗

note: support optional!

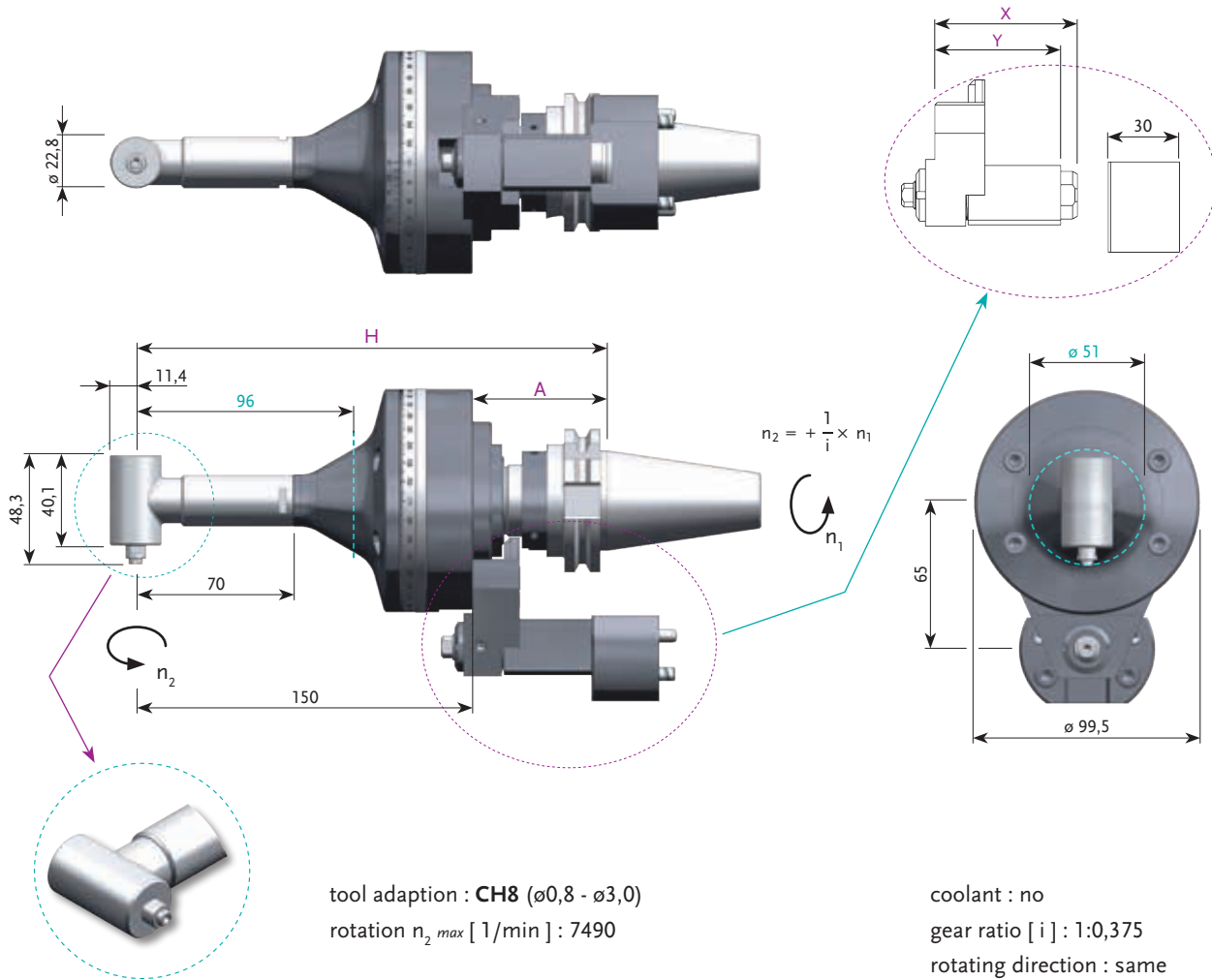
✗ = not included in delivery
 ✓ = included in delivery






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



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 41 004	 DIN 69871 A - SK 40	210	60	✓	60 53	✓
7 030 41 034				✓	60 53	✗
7 030 41 064				✗	- -	✗
7 030 51 004	 DIN 69893 - HSK 63 A	217	67	✓	60 53	✓
7 030 51 014				✓	60 53	✗
7 030 51 024				✗	- -	✗
7 030 41 014	 MAS 403 BT 40	210	60	✓	60 53	✓
7 030 41 044				✓	60 53	✗
7 030 41 074				✗	- -	✗
7 030 41 024	 ANSI B 5.50/ CAT 40 inch	210	60	✓	60 53	✓
7 030 41 054				✓	60 53	✗
7 030 41 084				✗	- -	✗

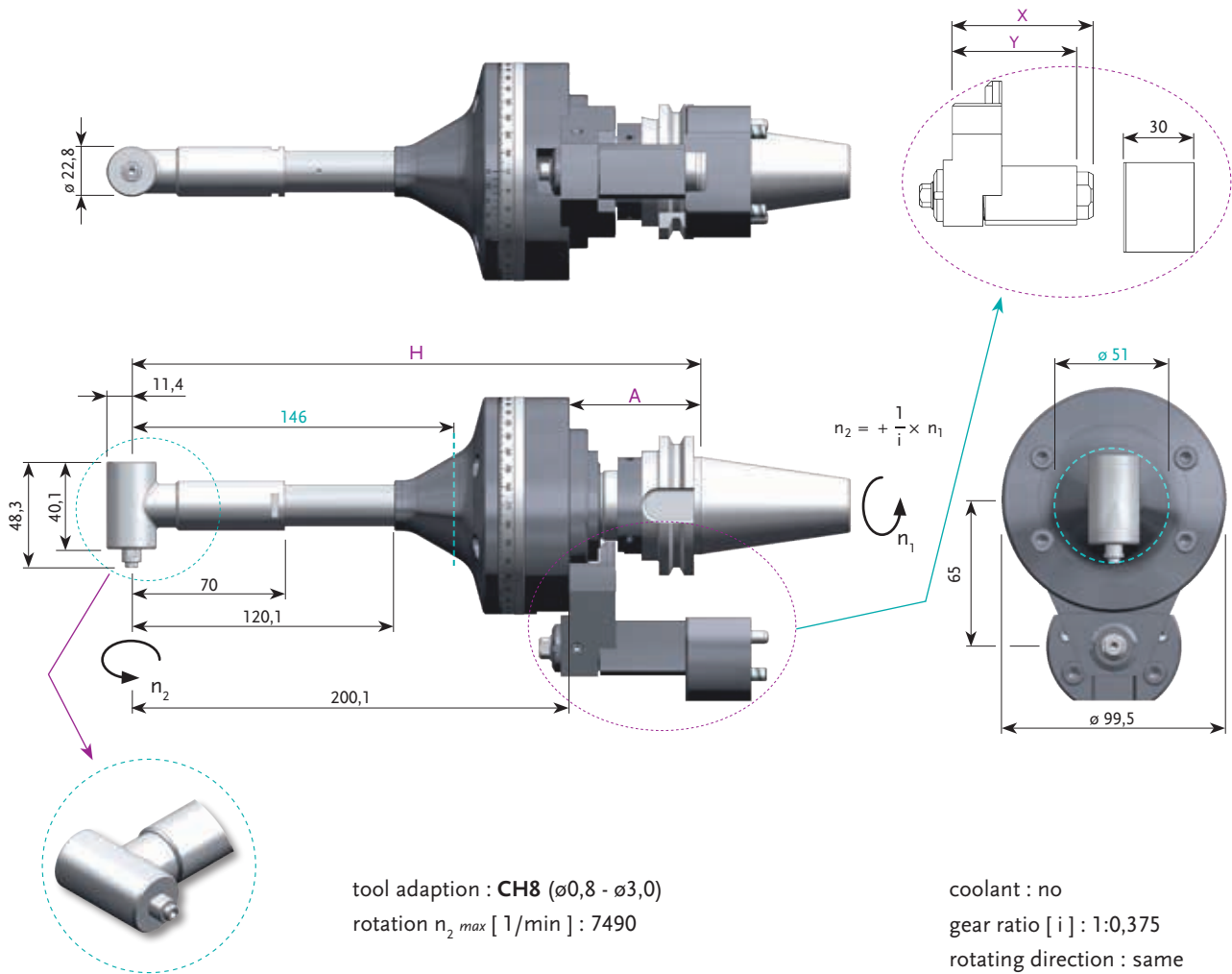
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


























✗ = 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



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 41 009	 DIN 69871 A - SK 40	260,1	60		60	53	
7 030 41 039					60	53	
7 030 41 069					-	-	
7 030 51 009	 DIN 69893 - HSK 63 A	267,1	67		60	53	
7 030 51 019					60	53	
7 030 51 029					-	-	
7 030 41 019	 MAS 403 BT 40	260,1	60		60	53	
7 030 41 049					60	53	
7 030 41 079					-	-	
7 030 41 029	 ANSI B 5.50/ CAT 40 inch	260,1	60		60	53	
7 030 41 059					60	53	
7 030 41 089					-	-	

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

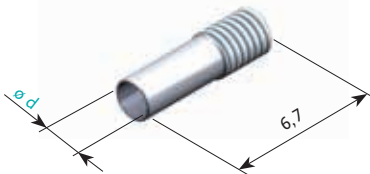
use for : MFC - 300 S



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 ø 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 $\varnothing d$ [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



7 033 23 001
Angle Head
offset
ER 11 A



7 039 64 000
Angle Head
double spindle
arbor 16



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



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



7 030 41 064
Angle Head
RA - 100
CH8



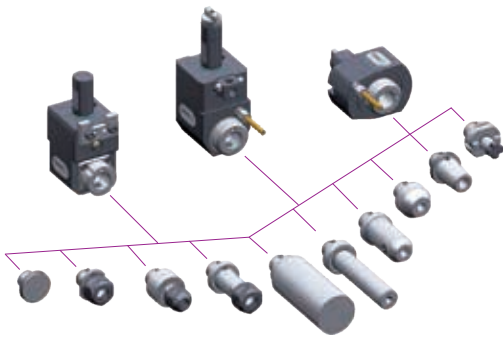
7 039 41 017
Angle Head
KC - 300
CHC



7 030 41 061
Angle Head
MFC - 300 S
K252



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



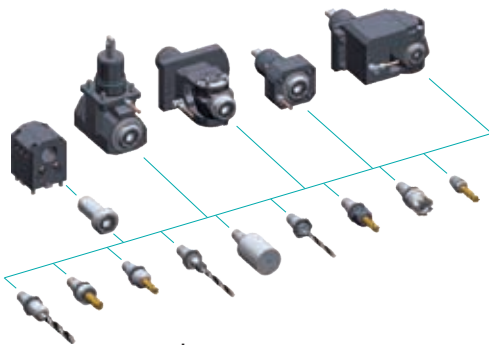
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