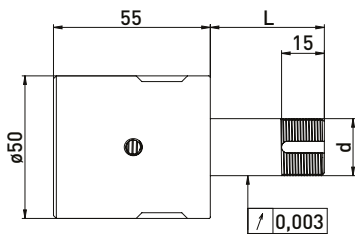
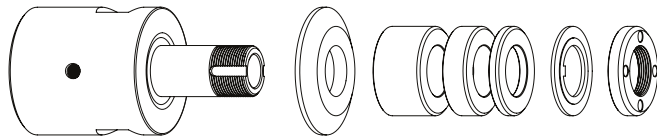


# Haas Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // Shaft $\varnothing 20$ mm // RS $\varnothing 35$ mm

For Haas tool grinding machines with ring set  $\varnothing 35$  mm

## GWA Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // $\varnothing 20$ mm // RS $\varnothing 35$ mm



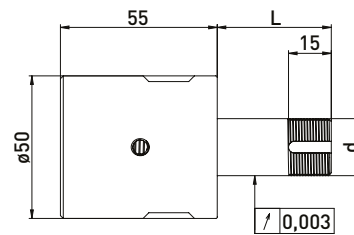
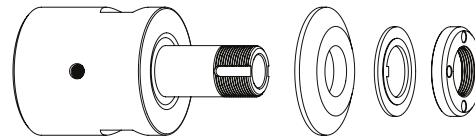
### Delivered equipped:

Installation skit, reducing washer, ring set  $\varnothing 35$  mm, lock washer and clamping nut

#### Ring set $\varnothing 35$ mm

Order No.	Internal taper	d	L	B 20	B 10	B 4
300091512	31,75	20	40	-	1	3
300091522	31,75	20	60	1	1	3
300091532	31,75	20	100	2	3	3

## GWA Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // $\varnothing 20$ mm // $\varnothing 20$ mm



### Delivered equipped:

Installation kit, reducing washer, lock washer and clamping nut

Order No.	Internal taper	d	L
300091511	31,75	20	40
300091521	31,75	20	60
300091531	31,75	20	100

## Accessories Haas grinding wheel adapter Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // Shaft $\varnothing 20$ mm // Ring set 35 mm

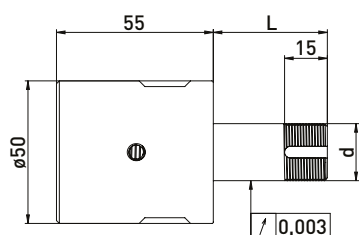
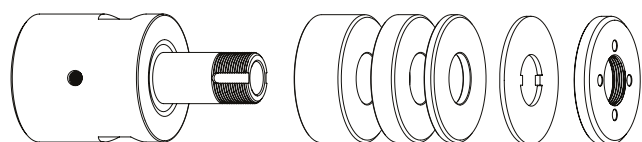
Order No.	Name	
350050010	Universal assembly device $\varnothing 50$	
350040010	Clamping nut wrench PC27 for $\varnothing 20$	
350040011	Clamping nut wrench PC27 for $\varnothing 20$	
350040040	*Clamping nut wrench PC29 for $\varnothing 20$ for clamping nut with blancing option	
350040041	*Clamping nut wrench PC29 for $\varnothing 20$	
350020081	*Balancing weight pair for clamping nut $\varnothing 35$ // 40gmm	
300101002	Installation kit NCT63 Haas	
300101003	Assembly wrench for Installation kit NCT63 M20 x 1,5	

Order No.	Name	
350012020	Spacer ring $\varnothing 35$ x $\varnothing 20$ x 20	
350012010	Spacer ring $\varnothing 35$ x $\varnothing 20$ x 10	
350012004	Spacer ring $\varnothing 35$ x $\varnothing 20$ x 4	
350015001	Reducing washer $\varnothing 50$ x $\varnothing 35$ x $\varnothing 20$ x 6	
350030020	Lock washer $\varnothing 35$ x $\varnothing 20$ x 2	
350020030	Clamping nut $\varnothing 35$ x 6 M20 x 1 PC27	
350020080	*Clamping nut with blancing option $\varnothing 35$ x $\varnothing 40$ x 8 x M20 x1 PC29	
350015005	Support washer $\varnothing 35$ x $\varnothing 60$ x $\varnothing 20$ x 6	

# Haas Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // Shaft $\varnothing 20$ mm // RS $\varnothing 50$ mm

For Haas tool grinding machines with ring set  $\varnothing 50$  mm

## GWA Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // $\varnothing 20$ mm // RS $\varnothing 50$ mm



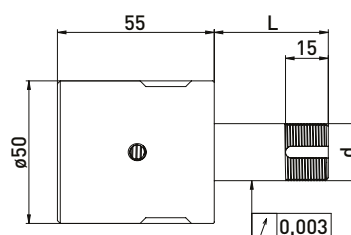
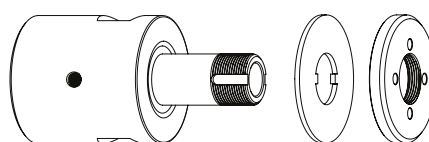
### Delivered equipped:

Installation kit, ring set  $\varnothing 50$  mm, lock washer and clamping nut

#### Ring set $\varnothing 50$ mm

Order No.	Internal taper	d	L	B 20	B 10	B 4
300091012	31,75	20	40	-	1	4
300091022	31,75	20	60	1	1	4
300091032	31,75	20	100	2	3	4

## GWA Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // $\varnothing 20$ mm // $\varnothing 20$ mm



### Delivered equipped:

Installation kit, lock washer and clamping nut

Order No.	Internal taper	d	L
300091011	31,75	20	40
300091021	31,75	20	60
300091031	31,75	20	100

## Accessories Haas grinding wheel adapter Internal taper $\varnothing 31,75$ mm ( $1\frac{1}{4}$ ) // Shaft $\varnothing 20$ mm // Ring set 35 mm

Order No.	Name	
350050010	Universal assembly device $\varnothing 50$	
350040010	*Clamping nut wrench PC27 for $\varnothing 20$	
350040011	*Clamping nut wrench PC27 for $\varnothing 20$	
350020021	*Balancing weight pair for clamping nut $\varnothing 50$ // 100gmm	
300101002	Installation kit NCT63 Haas	
300101003	Assembly wrench for Installation kit NCT63 M20 x 1,5	

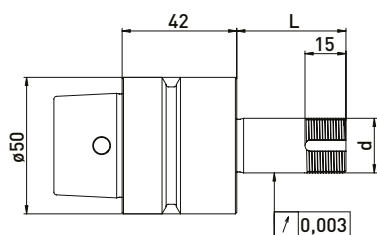
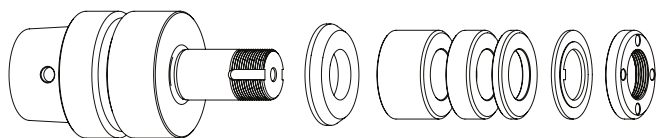
Order No.	Name	
350011020	Spacer ring $\varnothing 50$ x $\varnothing 20$ x 20	
350011010	Spacer ring $\varnothing 50$ x $\varnothing 20$ x 10	
350011004	Spacer ring $\varnothing 50$ x $\varnothing 20$ x 4	
350030010	Lock washer $\varnothing 50$ x $\varnothing 20$ x 2	
350020020	*Clamping nut with balancing option $\varnothing 50$ x 8,5 M20 x 1,0 PC27	
350015003	Support washer $\varnothing 50$ x $\varnothing 75$ x $\varnothing 20$ x 6	
350020060	Clamping nut $\varnothing 50$ x 6 x M20 x 1 PC27	

\*related items

# Haas HSK-E50 // Shaft $\varnothing 20$ mm // RS $\varnothing 35$ mm

For Haas tool grinding machines with ring set  $\varnothing 35$  mm

## GWA HSK-E50 // $\varnothing 20$ mm // RS $\varnothing 35$ mm



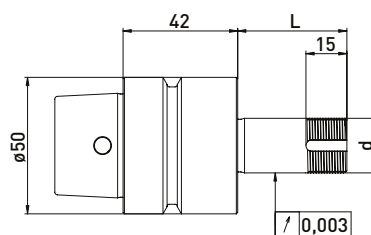
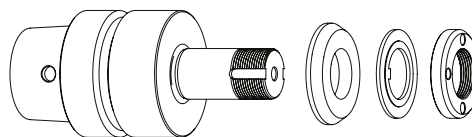
### Delivered equipped:

Reducing washer, ring set  $\varnothing 35$  mm, lock washer and clamping nut

#### Ring set $\varnothing 35$ mm

Order No.	HSK	d	L	B 20	B 10	B 4
300092512	HSK-E50	20	40	-	1	3
300092522	HSK-E50	20	60	1	1	3
300092532	HSK-E50	20	100	2	3	3

## GWA HSK-E50 // $\varnothing 20$ mm // without RS



### Delivered equipped:

Reducing washer, lock washer and clamping nut

## Accessories Haas grinding wheel adapter HSK-E50 // Shaft $\varnothing 20$ mm // Ring set $\varnothing 35$ mm

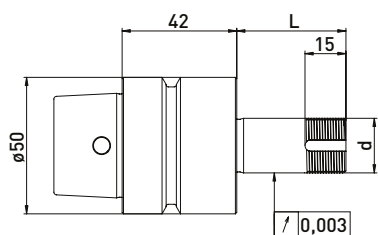
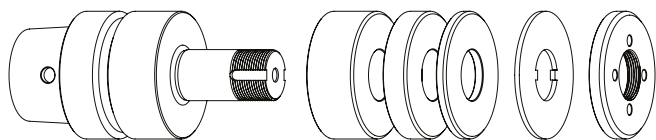
Order No.	Name	
350050010	Universal assembly device $\varnothing 50$	
350040010	Clamping nut wrench PC27 for $\varnothing 20$	
350040011	Clamping nut wrench PC27 for $\varnothing 20$	
350040040	*Clamping nut wrench PC29 for $\varnothing 20$ for clamping nut with blancing option	
350040041	*Clamping nut wrench PC29 for $\varnothing 20$	
350020081	*Balancing weight pair for clamping nut $\varnothing 35$ // 40gmm	

Order No.	Name	
350012020	Spacer ring $\varnothing 35$ x $\varnothing 20$ x 20	
350012010	Spacer ring $\varnothing 35$ x $\varnothing 20$ x 10	
350012004	Spacer ring $\varnothing 35$ x $\varnothing 20$ x 4	
350015001	Reducing washer $\varnothing 50$ x $\varnothing 35$ x $\varnothing 20$ x 6	
350030020	Lock washer $\varnothing 35$ x $\varnothing 20$ x 2	
350020030	Clamping nut $\varnothing 35$ x 6 M20 x 1 PC27	
350020080	*Clamping nut with blancing option $\varnothing 35$ x $\varnothing 40$ x 8 x M20 x 1 PC29	
350015005	Support washer $\varnothing 35$ x $\varnothing 60$ x $\varnothing 20$ x 6	

# Haas HSK-E50 // Shaft $\varnothing 20$ mm // RS $\varnothing 50$ mm

For Haas tool grinding machines with ring set  $\varnothing 50$  mm

## GWA HSK-E50 // $\varnothing 20$ mm // RS $\varnothing 50$ mm

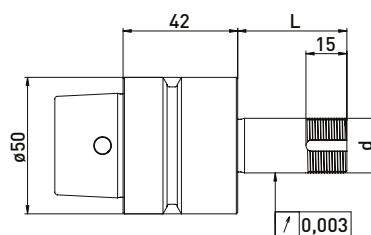
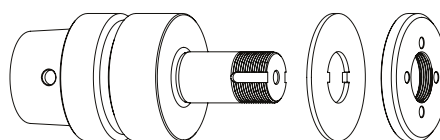


**Delivered equipped:**  
Ring set  $\varnothing 50$  mm, lock washer and clamping nut

### Ring set $\varnothing 50$ mm

Order No.	HSK	d	L	B 20	B 10	B 4
300092012	HSK-E50	20	40	-	1	4
300092022	HSK-E50	20	60	1	1	4
300092032	HSK-E50	20	100	2	3	4

## GWA HSK-E50 // $\varnothing 20$ mm // without RS



**Delivered equipped:**  
Lock washer and clamping nut

Order No.	HSK	d	L
300092011	HSK-E50	20	40
300092021	HSK-E50	20	60
300092031	HSK-E50	20	100

## Accessories Haas grinding wheel adapter HSK-E50 // Shaft $\varnothing 20$ mm // Ring set $\varnothing 50$ mm

Order No.	Name	
350050010	Universal assembly device $\varnothing 50$	
350040010	*Clamping nut wrench PC27 for $\varnothing 20$	
350040011	*Clamping nut wrench PC27 for $\varnothing 20$	
350020021	*Balancing weight pair for clamping nut $\varnothing 50$ // 100gmm	

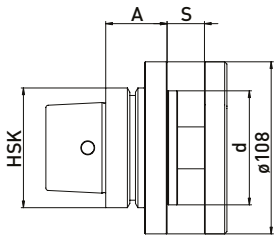
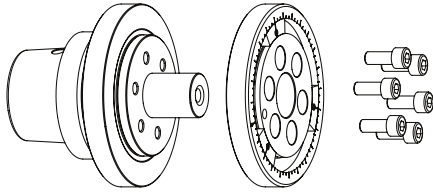
Order No.	Name	
350011020	Spacer ring $\varnothing 50$ x $\varnothing 20$ x 20	
350011010	Spacer ring $\varnothing 50$ x $\varnothing 20$ x 10	
350011004	Spacer ring $\varnothing 50$ x $\varnothing 20$ x 4	
350030010	Lock washer $\varnothing 50$ x $\varnothing 20$ x 2	
350020060	Clamping nut $\varnothing 50$ x 6 x M20 x 1 PC27	
350020020	*Clamping nut with balancing option $\varnothing 50$ x 8,5 M20 x 1,0 PC27	
350015003	Support washer $\varnothing 50$ x $\varnothing 75$ x $\varnothing 20$ x 6	

\*related items

# Haas HSK-E50 and HSK-E80

For Haas tool grinding machines

## GWA HSK-E50 and HSK-E80



### Delivered equipped:

Clamping flange with balancing weights 3pc.  
and clamping screws 6pc.

Order No.	HSK	d	A	S
300093011	HSK-E50	51	42	8-25
300093111	HSK-E50	76,2	42	8-25
300094011	HSK-E80	51	42	8-25
300094111	HSK-E80	76,2	42	8-25
300094211	HSK-E80	51	55	25-40

## Accessories Haas grinding wheel adapter HSK-E50 and HSK-E80

Order No.	Name
250001059	Balancing weight $\varnothing 100 \times \varnothing 80 \times 7$ 