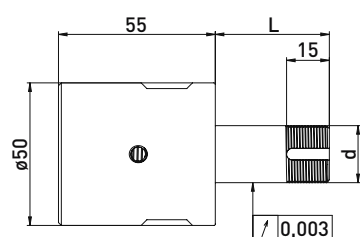
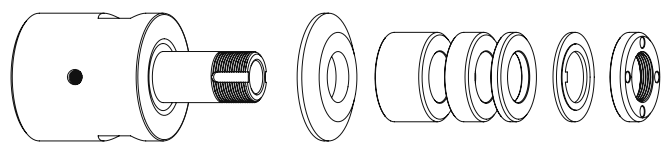


# Haas Internal taper ø31,75 mm (1¼) // Shaft ø20 mm // RS ø35 mm

For Haas tool grinding machines with ring set ø35 mm

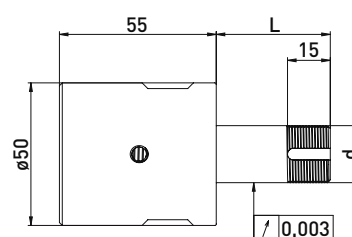
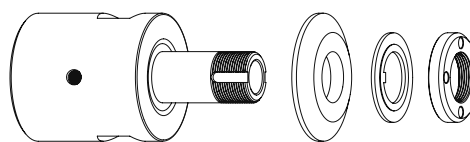
## GWA Internal taper ø31,75 mm (1¼) // ø20 mm // RS ø35 mm



Delivered equipped:  
Installation skit, reducing washer, ring set ø35 mm, lock washer and clamping nut

| Order No. | Internal taper | d  | L   | Ring set ø35 mm |      |     |
|-----------|----------------|----|-----|-----------------|------|-----|
|           |                |    |     | 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 ø31,75 mm (1¼) // ø20 mm // ø20 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 ø31,75 mm (1¼) // Shaft ø20 mm // Ring set 35 mm

| Order No. | Name                                                                    |  |
|-----------|-------------------------------------------------------------------------|--|
| 350050010 | Universal assembly device ø50                                           |  |
| 350040010 | Clamping nut wrench PC27 for ø20                                        |  |
| 350040011 | Clamping nut wrench PC27 for ø20                                        |  |
| 350040040 | *Clamping nut wrench PC29 for ø20 for clamping nut with blancing option |  |
| 350040041 | *Clamping nut wrench PC29 for ø20                                       |  |
| 350020081 | *Balancing weight pair for clamping nut ø35 // 40gmm                    |  |
| 300101002 | Installation kit NCT63 Haas                                             |  |
| 300101003 | Assembly wrench for Installation kit NCT63 M20 x 1,5                    |  |

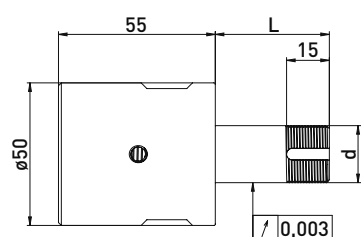
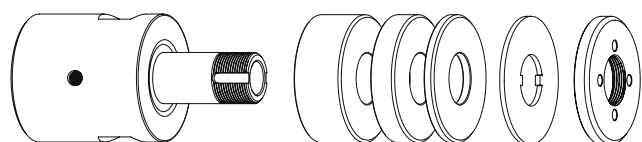
| Order No. | Name                                                            |  |
|-----------|-----------------------------------------------------------------|--|
| 350012020 | Spacer ring ø35 x ø20 x 20                                      |  |
| 350012010 | Spacer ring ø35 x ø20 x 10                                      |  |
| 350012004 | Spacer ring ø35 x ø20 x 4                                       |  |
| 350015001 | Reducing washer ø50 x ø35 x ø20 x 6                             |  |
| 350030020 | Lock washer ø35 x ø20 x 2                                       |  |
| 350020030 | Clamping nut ø35 x 6 M20 x 1 PC27                               |  |
| 350020080 | *Clamping nut with balancing option ø35 x ø40 x 8 x M20 x1 PC29 |  |
| 350015005 | Support washer ø35 x ø60 x ø20 x 6                              |  |

\*related items

# 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

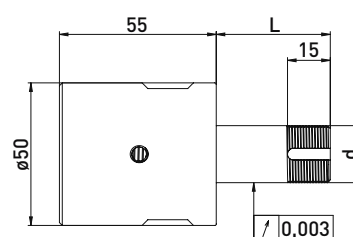
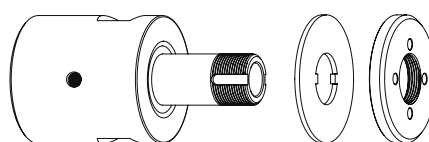


Delivered equipped:  
Installation kit, ring set  $\varnothing 50$  mm, lock washer and clamping nut

### 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

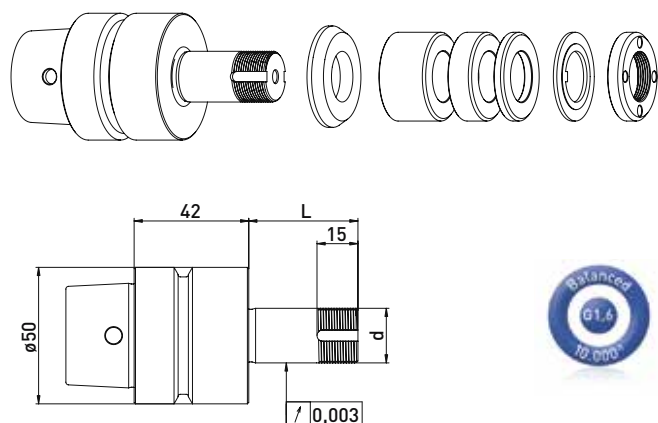
| Order No. | Name                                                               |  |
|-----------|--------------------------------------------------------------------|--|
| 350050010 | Universal assembly device $\varnothing 50$                         |  |
| 350040010 | *Clamping nut wrench PC27 for $\varnothing 20$                     |  |
| 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                          |  |

# Haas HSK-E50 // Shaft ø20 mm // RS ø35 mm

For Haas tool grinding machines with ring set ø35 mm

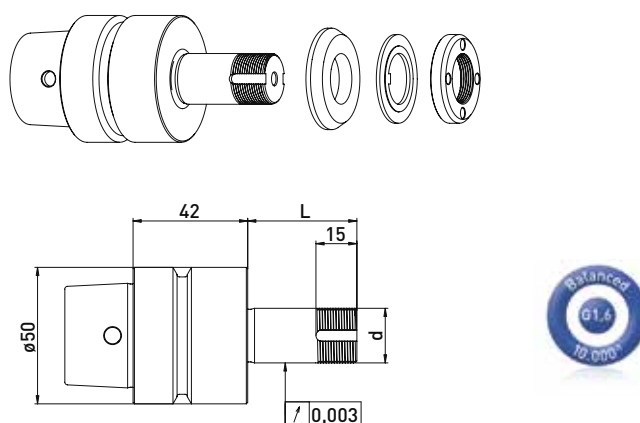
## GWA HSK-E50 // ø20 mm // RS ø35 mm



Delivered equipped:  
rReducing washer, ring set ø35 mm, lock washer and clamping nut

| Order No. | HSK     | d  | L   | Ring set ø35 mm |      |     |
|-----------|---------|----|-----|-----------------|------|-----|
|           |         |    |     | 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 // ø20 mm // without RS



Delivered equipped:  
Reducing washer, lock washer and clamping nut

| Order No. | HSK     | d  | L   |
|-----------|---------|----|-----|
| 300092511 | HSK-E50 | 20 | 40  |
| 300092521 | HSK-E50 | 20 | 60  |
| 300092531 | HSK-E50 | 20 | 100 |

## Accessories Haas grinding wheel adapter HSK-E50 // Shaft ø20 mm // Ring set ø35 mm

| Order No. | Name                                                                    |  |
|-----------|-------------------------------------------------------------------------|--|
| 350050010 | Universal assembly device ø50                                           |  |
| 350040010 | Clamping nut wrench PC27 for ø20                                        |  |
| 350040011 | Clamping nut wrench PC27 for ø20                                        |  |
| 350040040 | *Clamping nut wrench PC29 for ø20 for clamping nut with blancing option |  |
| 350040041 | *Clamping nut wrench PC29 for ø20                                       |  |
| 350020081 | *Balancing weight pair for clamping nut ø35 // 40gmm                    |  |

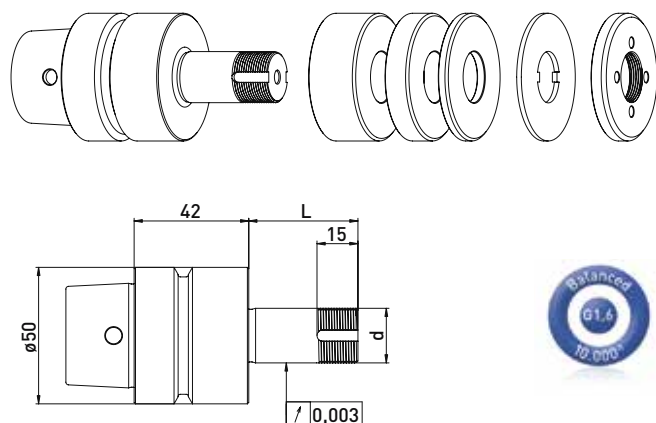
| Order No. | Name                                                             |  |
|-----------|------------------------------------------------------------------|--|
| 350012020 | Spacer ring ø35 x ø20 x 20                                       |  |
| 350012010 | Spacer ring ø35 x ø20 x 10                                       |  |
| 350012004 | Spacer ring ø35 x ø20 x 4                                        |  |
| 350015001 | Reducing washer ø50 x ø35 x ø20 x 6                              |  |
| 350030020 | Lock washer ø35 x ø20 x 2                                        |  |
| 350020030 | Clamping nut ø35 x 6 M20 x 1 PC27                                |  |
| 350020080 | *Clamping nut with balancing option ø35 x ø40 x 8 x M20 x 1 PC29 |  |
| 350015005 | Support washer ø35 x ø60 x ø20 x 6                               |  |

\*related items

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

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

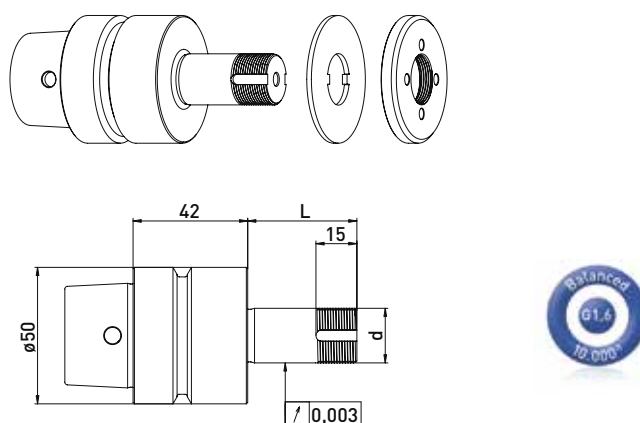
## GWA HSK-E50 // $\varnothing 20$ mm // RS $\varnothing 50$ mm



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

| Order No. | HSK     | d  | L   | Ring set $\varnothing 50$ mm |      |     |
|-----------|---------|----|-----|------------------------------|------|-----|
|           |         |    |     | 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

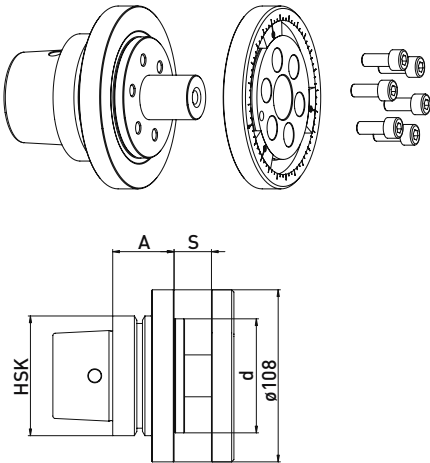
| Order No. | Name                                                               |  |
|-----------|--------------------------------------------------------------------|--|
| 350050010 | Universal assembly device $\varnothing 50$                         |  |
| 350040010 | *Clamping nut wrench PC27 for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

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

# 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 HSKE-50 and HSK-E80

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

