

# The accessories.

## Internal Cylindrical Production Grinding Machine



### S120 - The quick and nimble for small bores.

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## External grinding motor spindle with 2 lubrication connections

2667627-Z

External grinding motor spindle Fischer MFVS 1407 /7000min-1/10 kW dia. 140mm / 5.51" according to Studer specification 1330 348A with shaft end taper ratio 1:10, nominal dia. 40mm / 1.57". Oil-air lubrication with 2 lubrication connections and water cooling. Incl. testing and initial lubrication, if spindle is ordered together with the machine.

Notes:

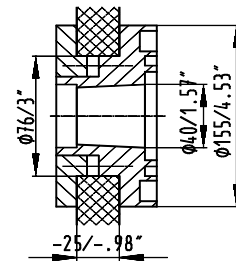
- Machine is to be equipped with external grinding spindle holder
- Machine is to be equipped with oil-air lubrication for 2 lubrication connections

## Wheel adaptor, nominal dia. 40mm / 1.57"

2812717-Z

Wheel adaptor dia. 250mm / 9.84" with bore dia. 76.2mm / 3" for grinding wheel, width 20-25mm / .79-1" form1 with tapered shaft ends 1:10 nominal dia. 40mm / 1.57". Extractor thread M40x1.5mm.

Note: Depending on the guard, the max. grinding wheel width will be reduced



## Extraction tool

2667634-Z

Extraction tool for wheel adaptors, for shaft end with nominal dia. 40mm / 1.57"

## Static balancing

2416600-Z

Balancing equipment dia. up to 400mm / 15.75" for static balancing of the grinding wheel outside of the machine.

Note: Requires the respective balancing mandrel for grinding wheels



## External grinding wheels

General application of abrasives

11C Silicon Carbides for:

Cast iron / tungsten carbide / glass / plastics / non-ferrous metals / ceramics / stainless, acid and heat resistant steel / hardened steel 63 HRc and higher / nitriding steel.

hardened steel 63 HRc and higher / nitriding steel.

54A White aluminium oxide for:

Non-alloyed, alloyed, unhardened and hardened steel up to 63 HRc (carbon content up to 0.5% / stainless, acid and heat resistant steel / nitriding steel (untreated) / cast steel nodular cast iron / tool steel / hard-chrome plated steel.

81A Ceramic aluminium oxide:

Difficult-to-grind steel and alloys (tool steel, high speed steel) from soft state to 64 HRc / cast steel / cast iron

The following abrasives should no longer be used:

42A, 53A, 57A Pure aluminium oxide was replaced by 54A Pure aluminium oxide

## Grinding wheel dia. 250mm / 9.84", bore 76.2mm / 3"

5585230-Z

Grinding wheel dia. 250x20x76.2mm F1 /

9.84x0.79x3" form 1,

57A 80 H 8 V. Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes

until series 14

5585324-Z

Grinding wheel dia. 250x20x76.2mm F1 /

9.84x0.79x3" form 1,

11C 120 H 5 V. Cutting speed 50m/s / 9840sfpm

5585334-Z

Grinding wheel dia. 250x20x76.2mm F1N /

9.84x0.79x3" form 1N,

54A 120 H 15 VPLF604W.

Cutting speed 50m/s / 9840sfpm

5585327-Z

Grinding wheel dia. 250x25x76.2mm F1 /

9.84x0.98x3" form 1,

11C 80 J 15 VPLF. Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes

until series 14

5585422-Z

Grinding wheel dia. 250x25x76.2mm F1 /

9.84x0.98x3" form 1,

64A 60 H 15 VP. Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes

until series 14

5585104-Z

Grinding wheel dia. 250x25x76.2mm F1N /

9.84x0.98x3" form 1N,

64A 80 H 15 VP. Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,

was replaced by selling no 5585335

5585335-Z

Grinding wheel dia. 250x25x76.2mm F1N /

9.84x0.98x3" form 1N /  $v=60^\circ$   $x=3$ ,

81A 80 H 8 V601W.

Cutting speed 50m/s / 9840sfpm

## Internal grinding unit

1826033-Z

Reduction sleeve dia. 100/80mm / 3.94"/3.15".

For mounting of a spindle dia. 80mm / 3.15"

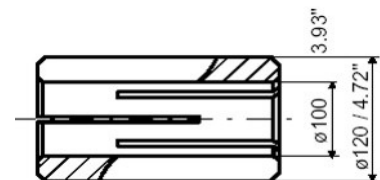
in a spindle holder dia. 100mm / 3.94"

2417110-Z

Reduction sleeve dia. 120/100mm / 4.72"/3.94".

For mounting of a spindle dia. 100mm / 3.94"

in a spindle holder dia. 120mm / 4.72"



5600032-Z

Package consisting of adhesive and hardener

for mounting of internal grinding wheels on

threaded bolts

HF internal grinding motor spindles with 4 lubrication connections

General notes for HF internal grinding motor spindles:

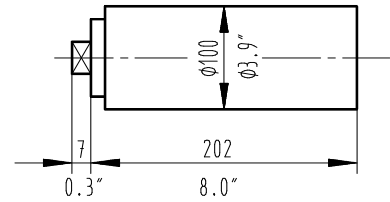
- Incl. testing and initial lubrication, if spindle is ordered together with the machine
- Reduction sleeves required depending on the diameter of the internal grinding attachment and the motor spindles

2667695-Z

Internal grinding motor spindle Fischer MFM 10120 (120'000min-1 / 3.5kW) dia. 100mm / 3.94" according to Studer specification 1330348A with tool holding fixture HJND 60.

Oil-air lubrication with 4 lubrication connections and water cooling.

Note: Machine is to be equipped with oil-air lubrication for 4 lubrication connections

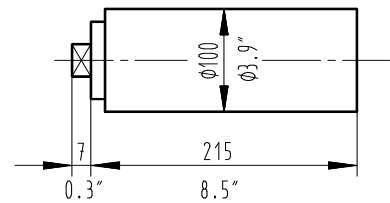


2667666-Z

Internal grinding motor spindle Fischer MFM 1090 (90'000min-1 / 4.2kW) dia. 100mm / 3.94" according to Studer specification 1330348A with tool holding fixture HJND 50.

Oil-air lubrication with 4 lubrication connections and water cooling.

Note: Machine is to be equipped with oil-air lubrication for 4 lubrication connections

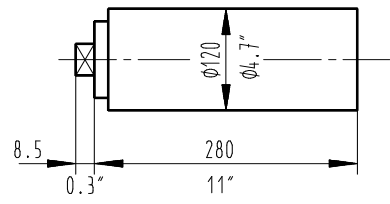


2667629-Z

Internal grinding motor spindle Fischer MFM 1242/60 (42000-60000min-1 / 10 kW), multi-range spindle dia. 120mm / 4.72" according to Studer specification 1330348A with tool holding fixture HJND 28.

Oil-air lubrication with 4 lubrication connections and water cooling.

Note: Machine is to be equipped with oil-air lubrication for 4 lubrication connections

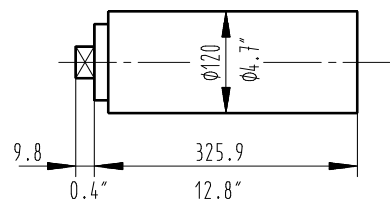


2667628-Z

Internal grinding motor spindle Fischer MFM 1224/42 (24'000-42'000min-1 / 15 kW), multi-range spindle dia. 120mm / 4.72" according to Studer specification 1330348A with tool holding fixture HJND 21.

Oil-air lubrication with 4 lubrication connections and water cooling.

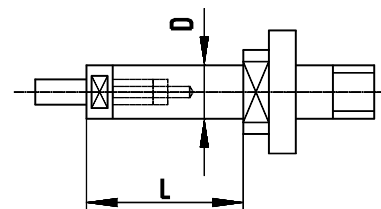
Note: Machine is to be equipped with oil-air lubrication for 4 lubrication connections



## Internal grinding arbors HJND 21

5552393-Z

Grinding arbor HJND 21-1220 dia. 12x20mm



5552394-Z

Grinding arbor HJND 21-1235 dia. 12x35mm

5552395-Z

Grinding arbor HJND 21-1250 dia. 12x50mm

5552325-Z

Grinding arbor HJND 21-1625 dia. 16x25mm

5552326-Z

Grinding arbor HJND 21-1645 dia. 16x45mm

5552327-Z

Grinding arbor HJND 21-1665 dia. 16x65mm

5552328-Z

Grinding arbor HJND 21-2030 dia. 20x30mm

5552329-Z

Grinding arbor HJND 21-2060 dia. 20x60mm

5552330-Z

Grinding arbor HJND 21-2090 dia. 20x90mm

5552331-Z

Grinding arbor HJND 21-2535 dia. 25x35mm

5552332-Z

Grinding arbor HJND 21-2575 dia. 25x75mm

5552333-Z

Grinding arbor HJND 21-25115 dia. 25x115mm

5552334-Z

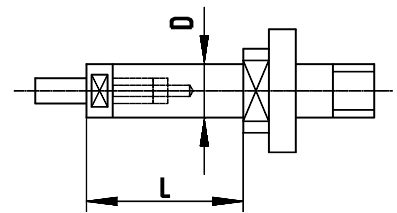
Grinding arbor HJND 21-3240 dia. 32x40mm

5552335-Z  
Grinding arbor HJND 21-3290 dia. 32x90mm

5552336-Z  
Grinding arbor HJND 21-32140 dia. 32x140mm

### Internal grinding arbors HJND 28

5552313-Z  
Grinding arbor HJND 28-1220 dia. 12x20mm



5552314-Z  
Grinding arbor HJND 28-1235 dia. 12x35mm

5552315-Z  
Grinding arbor HJND 28-1250 dia. 12x50mm

5552316-Z  
Grinding arbor HJND 28-1625 dia. 16x25mm

5552317-Z  
Grinding arbor HJND 28-1645 dia. 16x45mm

5552318-Z  
Grinding arbor HJND 28-1665 dia. 16x65mm

5552319-Z  
Grinding arbor HJND 28-2030 dia. 20x30mm

5552320-Z  
Grinding arbor HJND 28-2060 dia. 20x60mm

5552321-Z  
Grinding arbor HJND 28-2090 dia. 20x90mm

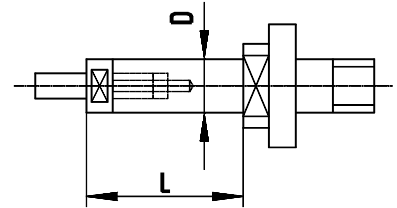
5552322-Z  
Grinding arbor HJND 28-2535 dia. 25x35mm

5552323-Z  
Grinding arbor HJND 28-2575 dia. 25x75mm

5552324-Z  
Grinding arbor HJND 28-25115 dia. 25x115mm

### Internal grinding arbors HJND 50

5552277-Z  
Grinding arbor HJND 50-514 dia. 5x14mm



5552278-Z  
Grinding arbor HJND 50-520 dia. 5x20mm

5552279-Z  
Grinding arbor HJND 50-528 dia. 5x28mm

5552280-Z  
Grinding arbor HJND 50-716 dia. 7x16mm

5552281-Z  
Grinding arbor HJND 50-725 dia. 7x25mm

5552282-Z  
Grinding arbor HJND 50-736 dia. 7x36mm

5552283-Z  
Grinding arbor HJND 50-918 dia. 9x18mm

5552284-Z  
Grinding arbor HJND 50-930 dia. 9x30mm

5552285-Z  
Grinding arbor HJND 50-945 dia. 9x45mm

5552286-Z  
Grinding arbor HJND 50-1220 dia. 12x20mm

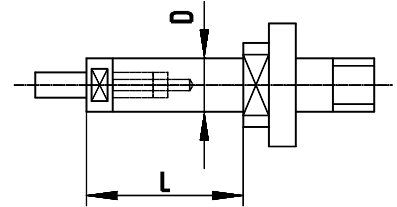
5552287-Z  
Grinding arbor HJND 50-1235 dia. 12x35mm

5552288-Z  
Grinding arbor HJND 50-1250 dia. 12x50mm

## Internal grinding arbors HJND 60

5552265-Z

Grinding arbor HJND 60-412 dia. 4x12mm



5552266-Z

Grinding arbor HJND 60-418 dia. 4x18mm

5552267-Z

Grinding arbor HJND 60-424 dia. 4x24mm

5552268-Z

Grinding arbor HJND 60-514 dia. 5x14mm

5552269-Z

Grinding arbor HJND 60-520 dia. 5x20mm

5552270-Z

Grinding arbor HJND 60-528 dia. 5x28mm

5552271-Z

Grinding arbor HJND 60-716 dia. 7x16mm

5552272-Z

Grinding arbor HJND 60-725 dia. 7x25mm

5552273-Z

Grinding arbor HJND 60-736 dia. 7x36mm

5552274-Z

Grinding arbor HJND 60-918 dia. 9x18mm

5552275-Z

Grinding arbor HJND 60-930 dia. 9x30mm

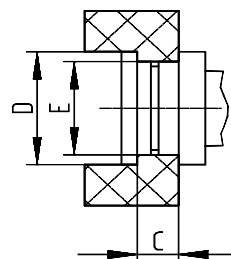
5552276-Z

Grinding arbor HJND 60-945 dia. 9x45mm

## Face grinding arbor HJNP

5552221-Z

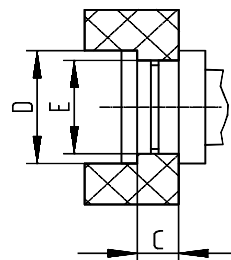
Face grinding arbor HJNP 21



5552220-Z

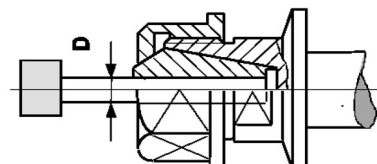
Face grinding arbor HJNP 28

## Chuck HJNZ



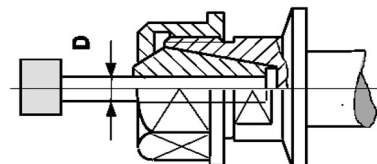
5552397-Z

Chuck HJNZ 21 +2 collets ER25 dia. 3+6mm

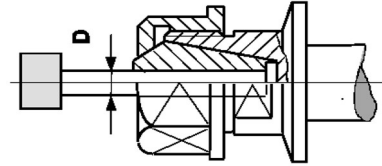


5552211-Z

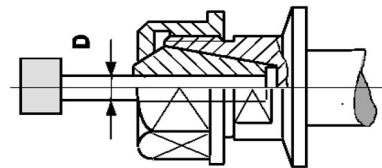
Chuck HJNZ 28 +2 collets ER20 dia. 3+6mm



5552208-Z  
Chuck HJNZ 50 +2 collets ER11 dia. 3+6mm

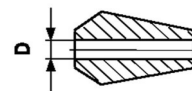


5552207-Z  
Chuck HJNZ 60 +2 collets ER11 dia. 3+6mm



### Collets ER11

2026510-Z  
Collet ER11 dia. 1mm



2026511-Z  
Collet ER11 dia. 1.5mm

2026512-Z  
Collet ER11 dia. 2mm

2026513-Z  
Collet ER11 dia. 2.5mm

2026515-Z  
Collet ER11 dia. 3.5mm

2026516-Z  
Collet ER11 dia. 4mm

2026517-Z  
Collet ER11 dia. 4.5mm

2026518-Z  
Collet ER11 dia. 5mm

2026519-Z  
Collet ER11 dia. 5.5mm

2026520-Z  
Collet ER11 dia. 6mm

## **Collets ER20**

2026552-Z  
Collet ER20 dia. 2mm

2026553-Z  
Collet ER20 dia. 3mm

2026554-Z  
Collet ER20 dia. 4mm

2026555-Z  
Collet ER20 dia. 5mm

2026556-Z  
Collet ER20 dia. 6mm

2026557-Z  
Collet ER20 dia. 7mm

2026558-Z  
Collet ER20 dia. 8mm

2026559-Z  
Collet ER20 dia. 9mm

2026560-Z  
Collet ER20 dia. 10mm

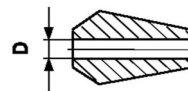
2026561-Z  
Collet ER20 dia. 11mm

2026562-Z  
Collet ER20 dia. 12mm

2026563-Z  
Collet ER20 dia. 13mm

## Collets ER25

2026564-Z  
Collet ER25 dia. 2mm



2026565-Z  
Collet ER25 dia. 3mm

2026566-Z  
Collet ER25 dia. 4mm

2026567-Z  
Collet ER25 dia. 5mm

2026568-Z  
Collet ER25 dia. 6mm

2026569-Z  
Collet ER25 dia. 7mm

2026570-Z  
Collet ER25 dia. 8mm

2026571-Z  
Collet ER25 dia. 9mm

2026572-Z  
Collet ER25 dia. 10mm

2026573-Z  
Collet ER25 dia. 11mm

2026574-Z  
Collet ER25 dia. 12mm

2026575-Z  
Collet ER25 dia. 13mm

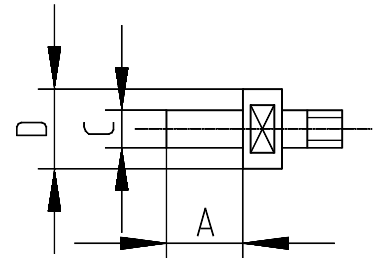
2026576-Z  
Collet ER25 dia. 14mm

2026577-Z  
Collet ER25 dia. 15mm

2026578-Z  
Collet ER25 dia. 16mm

**Additional bolts (wheel adaptors) for internal grinding arbors**

5551918-Z  
Set of 10 bolts dia. 3.5mm



5551944-Z  
Set of 10 bolts dia. 4mm

5551939-Z  
Set of 10 bolts dia. 5mm

5551921-Z  
Set of 10 bolts dia. 7mm

5551922-Z  
Set of 10 bolts dia. 9mm

5551940-Z  
Set of 10 bolts dia. 12mm

5551924-Z  
Set of 10 bolts dia. 16mm

5551941-Z  
Set of 5 bolts dia. 20mm

5551942-Z  
Set of 5 bolts dia. 25mm

5551943-Z  
Set of 5 bolts dia. 32mm

## Wheels for internal grinding arbors

General application of abrasives

11C Silicon Carbides for:

Cast iron / tungsten carbide / glass / plastics / non-ferrous metals / ceramics / stainless, acid and heat resistant steel / hardened steel 63 HRc and higher / nitriding steel.

54A Pure aluminium oxide for:

Non-alloyed, alloyed, unhardened and hardened steel up to 63 HRc (carbon content up to 0.5% / stainless, acid and heat resistant steel / nitriding steel (untreated) / cast steel nodular cast iron / tool steel / hard-chrome plated steel.

93A Ceramic aluminium oxide (30%) for:

Difficult-to-grind steel and alloys (tool steel, high speed steel) from soft state to 64 HRc / cast steel / cast iron

The following abrasives should no longer be used:

42A Pure aluminium oxide was replaced by 54A Pure aluminium oxide

64A Pure aluminium oxide was replaced by 93A Ceramic aluminium oxide

5583119-Z

Set of 10 wheels dia. 6x6x2.5mm 11C 80 G 6 V

Cutting speed 50m/s / 9840sfpm

5583041-Z

Set of 10 wheels dia. 6x6x2.5mm 54A 80 H 8 V604W

Cutting speed 50m/s / 9840sfpm

5583042-Z

Set of 10 wheels dia. Ø 6x6x2.5mm 93A 120 H 13

VP601

Cutting speed 50m/s / 9840sfpm

5583018-Z

Set of 10 wheels dia. 6x6x2.5mm 42A 80 H 8 V

Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583041

5583068-Z

Set of 10 wheels dia. 6x6x2.5mm 64A 80 H 8 V

Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583042

5583009-Z

Set of 10 Ø 8x8x2.5mm 42A 80 H 8 V

Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583043

5583059-Z

Set of 10 wheels Ø 8x8x2.5mm 64A 80 H 8 V

Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583044

5583110-Z

Set of 10 wheels dia. 8x8x2.5mm 11C 80 G 6 V

Cutting speed 50m/s / 9840sfpm

5583043-Z

Set of 10 wheels dia. 8x8x2.5mm 54A 80 H 8 V604W

Cutting speed 50m/s / 9840sfpm

5583044-Z

Set of 10 wheels dia. 8x8x2.5mm 93A 120 H 13 VP601

Cutting speed 50m/s / 9840sfpm

5583019-Z

Set of 10 wheels dia. 10x10x4mm 42A 80 H 8 V

Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583045

until series 14

5583069-Z

Set of 10 wheels dia. 10x10x4mm 64A 80 H 8 V

Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583046

5583120-Z

Set of 10 wheels dia. 10x10x4mm 11C 80 G 6 V

Cutting speed 50ms/s / 9840sfpm

5583045-Z

Set of 10 wheels dia. 10x10x4mm 54A 80 H 8 V604W

Cutting speed 50m/s / 9840sfpm

5583046-Z

Set of 10 wheels dia. 10x10x4mm 93A 120 H 13  
VP601

Cutting speed 50m/s / 9840sfpm

5583011-Z

Set of 10 wheels dia. 13x13x4mm 42A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583047

5583061-Z

Set of 10 wheels dia. 13x13x4mm 64A 60 H 8 V  
cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583048

5583112-Z

Set of 10 wheels dia. 13x13x4mm 11C 60 H 15 VP  
Cutting speed 50m/s / 9840sfpm

5583047-Z

Set of 10 wheels dia. 13x13x4mm 54A 80 H 8 V604W  
Cutting speed 50m/s / 9840sfpm

5583048-Z

Set of 10 wheels dia. 13x13x4mm 93A 120 H 13  
VP601

Cutting speed 50m/s / 9840sfpm

5583020-Z

Set of 10 wheels dia. 16x16x6mm 42A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583049

5583070-Z

Set of 10 wheels dia. 16x16x6mm 64A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583076

5583121-Z

Set of 10 wheels dia. 16x16x6mm 11C 60 H 15 VP  
Cutting speed 50m/s

5583049-Z

Set of 10 wheels dia. 16x16x6mm 54A 80 H 8 V604W  
Cutting speed 50m/s / 9840sfpm

5583076-Z

Set of 10 wheels dia. 16x16x6mm 93A 120 H 13  
VP601  
Cutting speed 50m/s / 9840sfpm

5583021-Z

Set of 10 wheels dia. 20x20x6mm 42A 60 H 8 V  
cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583077

5583071-Z

Set of 10 wheels dia. 20x20x6mm 64A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583078

5583122-Z

Set of 10 wheels Ø 20x20x6mm 11C 60 H 15 VP  
Cutting speed 50m/s / 9840sfpm

5583077-Z

Set of 10 wheels dia. 20x20x6mm 54A 80 H 8 V604W  
Cutting speed 50m/s / 9840sfpm

5583078-Z

Set of 10 wheels dia. 20x20x6mm 93A 120 H 13  
VP601  
Cutting speed 50m/s / 9840sfpm

5583022-Z

Set of 10 wheels dia. 25x25x10mm 42A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583079

5583072-Z

Set of 10 wheels dia. 25x25x10mm 64A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583080

5583123-Z

Set of 10 wheels dia. 25x25x10mm 11C 60 H 15 VP  
Cutting speed 50m/s / 9840sfpm

5583079-Z

Set of 10 wheels dia. 25x25x10mm 54A 80 H 8 V604W  
Cutting speed 50m/ s / 9840sfpm

5583080-Z

Set of 10 wheels dia. 25x25x10mm 93A 120 H 13  
VP601  
Cutting speed 50m/s / 9840sfpm

5583023-Z

Set of 5 wheels dia. 32x32x10mm 42A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583081

5583073-Z

Set of 5 wheels dia. 32x32x10mm 64A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583082

5583124-Z

Set of 5 wheels dia. 32x32x10mm 11C 60 H 15 VP  
Cutting speed 50m/s / 9840sfpm

5583081-Z

Set of 5 wheels dia. 32x32x10mm 54A 80 H 8 V604W  
Cutting speed 50m/s / 9840sfpm

5583082-Z

Set of 5 wheels Ø 32x32x10mm 93A 120 H 13 VP601  
Cutting speed 50m/s / 9840sfpm

5583024-Z

Set of 5 wheels dia. 40x40x13mm 42A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583083

5583074-Z

Set of 5 wheels dia. 40x40x13mm 64A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583084

5583125-Z

Set of 5 wheels Ø 40x40x13mm 11C 60 H 15 VP  
Cutting speed 50m/s / 9840sfpm

5583083-Z

Set of 5 wheels dia. 40x40x13mm 54A 80 H 8 V604W  
Cutting speed 50m/s / 9840sfpm

5583084-Z

Set of 5 wheels dia. 40x40x13mm 93A 80 H 13 VP601  
Cutting speed 50m/s / 9840sfpm

5583025-Z

Set of 5 wheels dia. 50x40x16mm 42A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583085

5583075-Z

Set of 5 wheels dia. 50x40x16mm 64A 60 H 8 V  
Cutting speed 50m/s / 9840sfpm.

Note: No longer usable for new quotes,  
was replaced by selling no 5583086

5583126-Z

Set of 5 wheels dia. 50x40x16mm 11C 60 H 15 VP  
Cutting speed 50m/s / 9840sfpm

5583085-Z

Set of 5 wheels dia. 50x40x16mm 54A 80 H 8 V604W  
Cutting speed 50m/s / 9840sfpm

5583086-Z

Set of 5 wheels dia. 50x40x16mm 93A 120 H 13  
VP601  
cutting speed 50m/s / 9840sfpm

## Weels for chucks

5583601-Z

Set of 10 wheels SARUBIN 60M dia. 6mm/.24"

5583602-Z

Set of 10 wheels SARUBIN 60M dia. 8mm/.31"

5583603-Z

Set of 10 wheels SARUBIN 60M dia. 10mm/.39"

5583604-Z  
Set of 10 wheels SARUBIN 60M dia. 12mm/.47"

### Wheels for face grinding arbor

5584008-Z  
Cup wheel 64A46 H9V dia. 80mm/3.15"

5584012-Z  
Cup wheel 64A46 H9V dia. 100mm/3.94"

### Accessories for workhead

2909768-Z  
Cut-in ring sensor (transmitter ring) for mounting on the clamping device for live spindle grinding or its adaptors with correspondent interface for use on workheads with fitting taper MT4.

Note: Requires correspondent sensor receiver ring on the workhead

2909770-Z  
Receiver ring of cut-in ring sensor for chuck workhead with fitting taper MT4.

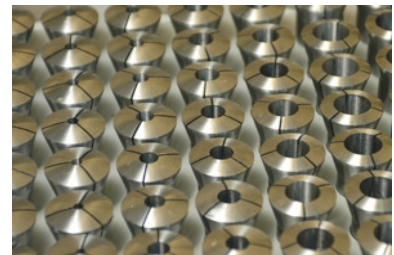
Note: With receiver ring mounted, it is only possible to use chucks which can be attached from the front side with screws. For the use of other chucks, centers and collets, the receiver ring has to be detached

### Collets W20

1930704-Z  
Adaptor for collets W20 for fitting taper MT4

Note: Requires draw-bar or lever operated rapid clamping for manual actuation or pneumatic clamping cylinder for controlled actuation

5558101-Z  
Set of 37 collets W20 dia. 2-20mm, in steps of 0.5mm  
Single collets orders possible



1930539-Z  
Collet W20 dia. 0.5mm



1930540-Z  
Collet W20 dia. 1mm

1930541-Z  
Collet W20 dia. 1.5mm

1930400-Z  
Collet W20 dia. 2mm

1930401-Z  
Collet W20 dia. 2.5mm

1930402-Z  
Collet W20 dia. 3mm

1930403-Z  
Collet W20 dia. 3.5mm

1930404-Z  
Collet W20 dia. 4mm

1930405-Z  
Collet W20 dia. 4.5mm

1930406-Z  
Collet W20 dia. 5mm

1930407-Z  
Collet W20 dia. 5.5mm

1930408-Z  
Collet W20 dia. 6mm

1930409-Z  
Collet W20 dia. 6.5mm

1930410-Z  
Collet W20 dia. 7mm

1930411-Z  
Collet W20 dia. 7.5mm

1930412-Z  
Collet W20 dia. 8mm

1930413-Z  
Collet W20 dia. 8.5mm

1930414-Z  
Collet W20 dia. 9mm

1930415-Z  
Collet W20 dia. 9.5mm

1930416-Z  
Collet W20 dia. 10mm

1930417-Z  
Collet W20 dia. 10.5mm

1930418-Z  
Collet W20 dia. 11mm

1930419-Z  
Collet W20 dia. 11.5mm

1930420-Z  
Collet W20 dia. 12mm

1930421-Z  
Collet W20 dia. 12.5mm

1930422-Z  
Collet W20 dia. 13mm

1930423-Z  
Collet W20 dia. 13.5mm

1930424-Z  
Collet W20 dia. 14mm

1930425-Z  
Collet W20 dia. 14.5mm

1930426-Z  
Collet W20 dia. 15mm

1930427-Z  
Collet W20 dia. 15.5mm

1930428-Z  
Collet W20 dia. 16mm

1930429-Z  
Collet W20 dia. 16.5mm

1930430-Z  
Collet W20 dia. 17mm

1930431-Z  
Collet W20 dia. 17.5mm

1930432-Z  
Collet W20 dia. 18mm

1930433-Z  
Collet W20 dia. 18.5mm

1930434-Z  
Collet W20 dia. 19mm

1930435-Z  
Collet W20 dia. 19.5mm

1930436-Z  
Collet W20 dia. 20mm

### **Adaptor for chucks**

2909771-Z  
Camlock head size 4, DIN 55029  
for workhead MT4 and spindle nose dia. 70mm /  
2.76" with interface for cut-in ring sensor.  
Enables quick and simple change of clamping  
devices for live spindle grinding.

Note: The standard assortment does not contain  
camlock flanges and clamping devices with camlock  
interfaces

### **Adaptor for chuck (blank)**

2909772-Z

Flange blank dia. 148mm / 5.82"  
for spindle nose dia. 70mm / 2.76" from workheads  
with fitting taper MT4 (with interface for cut-in  
ring sensor). Clamping device interface is unworked,  
suitable for holding a chuck up to dia. 160mm / 6.3".

Note:

- Finishing must be carried out for each clamping  
device through a design order
- Only chucks fastened from the front with screws  
can be used as clamping devices

### **Three-jaw chuck (manually operated)**

2909678-

Three jaw manual chuck dia. 100mm / 3.94"  
for fitting taper MT4 (with torsion protection)  
spiral chuck, radial precision centering.  
Clamping range: outside dia. 3-93mm / .12-3.66",  
inside dia. 25-87mm / .97-3.42". Repeating accuracy  
approx. 0.02mm / .000,79".

Incl. hard jaws (1 set for outside and 1 set for  
inside chucking), chuck key and adjusting key.  
Laying of a coolant tube for internal grinding  
process cooling is possible.

Note: Requires manual draw-bar for locking  
clamping devices

2909679-

Three jaw manual chuck dia. 125mm / 4.92"  
for fitting taper MT4, (with torsion protection),  
spiral chuck, radial precision centering.  
Clamping range: outside dia. 3-125mm / .12-4.92",  
inside dia. 34-115mm / 1.34-4.53". Repeating accuracy  
approx. 0.02mm / .000,79".

Incl. hard jaws (1 set for outside and 1 set for  
inside chucking), chuck key and adjusting key. Laying  
of a coolant tube for internal grinding process cooling  
is possible.

Note: Requires hand chuck key for locking  
clamping devices

2909654-Z

Three jaw manual chuck dia. 160mm / 6.3"  
for fitting taper MT4, (with torsion protection),  
spiral chuck, radial precision centering.  
Clamping range: outside dia. 3-160mm / .12-6.3",  
inside dia. 42-154mm / 1.65-6". Repeating accuracy  
approx. 0.02mm / .000,79".

Incl. hard jaws (1 set for outside and 1 set for  
inside chucking), chuck key and adjusting key.

Laying of a coolant tube for internal grinding  
process cooling is possible.

Note: Requires hand chuck key for locking  
clamping devices

### Three-jaw chuck (manually operated) wedge type

2909783-Z

Three jaw manual chuck dia. 125mm / 4.92"  
for spindle nose dia. 70mm / 2.76" from workheads  
with fitting taper MT4, (with interface for a  
cut-in ring sensor), wedge type.

Clamping range: Outside dia. 3-126mm / .12-4.96",  
inside dia. 27-128mm / 1.06-5.04", jaw stroke 4.8mm  
/ .19", repeating accuracy <0.02mm / .000,79".

Incl. 1 set of standard jaws and hard reversing jaws  
for outside or inside chucking and chuck key for  
chuck actuation. Laying of a coolant tube for internal  
grinding process cooling is possible

2909264-Z

Soft top jaws for three jaw manual chuck dia. 125mm  
/ 4.92" wedge type (L = 55mm / 2.17", W = 20mm /  
.79",  
H = 27.5mm / 1.08")

2439695-Z

Soft top jaws for three jaw manual chuck dia. 125mm  
/ 4.92" wedge type (L = 54mm / 2.12", W = 20mm  
/ 0.78", H = 27.5mm / 1.08")

2909784-Z

Three jaw manual chuck dia. 160mm / 6.3"  
for spindle nose dia. 70mm / 2.76" from workheads  
with fitting taper MT4 (with interface for cut-in  
ring sensor), wedge type.  
Clamping range: Outside dia. 5-162mm / .20-6.37",  
inside dia. 65-179mm / 2.56-7.04", jaw stroke 6.3mm  
/ .25", repeating accuracy <0.02mm / .000,79".  
Incl. 1 set of standard jaws and hard reversing jaws  
for outside or inside chucking and chuck key for chuck  
actuation. Laying of a coolant tube for internal  
grinding process cooling is possible

2909265-Z

Soft top jaws for three jaw manual chuck  
dia. 160mm / 6.3" wedge type (L = 85mm /3.35",  
W = 20mm / 0.79", H = 35.5mm / 1.39")

2439699-Z

Soft top jaws for three jaw manual chuck  
dia. 160mm / 6.3" wedge type (L = 105mm / 4.13",  
W = 20mm / 0.78", H = 35.5mm / 1.39")

#### **Four-jaw manually operated chuck (spiral chuck)**

2909680-Z

Four-jaw chuck dia. 125mm / 4.92"  
for fitting taper MT4 (with torsion protection)  
spiral chuck.  
Clamping range: outside dia. 3-125mm / .12-4.92",  
inside dia. 34-115mm / 1.34-4.53".  
The jaws are individually adjustable.  
Incl. hard jaws (1 set for outside and 1 set for  
inside chucking), chuck key and adjusting key.  
Laying of a coolant tube for internal grinding  
process cooling is possible.  
Note: Requires manual draw-bar for locking  
clamping devices

2909661-Z

Four-jaw chuck dia. 160mm / 6.3"  
for fitting taper MT4 (with torsion protection)  
spiral chuck.

Clamping range: outside dia. 3-160mm / .12-6.3",  
inside dia. 42-160mm / 1.65-6.3".

The jaws are individually adjustable.

Incl. hard jaws (1 set for outside and 1 set for  
inside chucking), chuck key and adjusting key.

Laying of a coolant tube for internal grinding  
process cooling is possible.

Note: Requires hand chuck key for locking  
clamping devices

## Face plate

2909681-Z

Face plate dia. 150mm / 5.9"  
for fitting taper MT4 (with torsion protection).  
With 4 grooves and 4 holes to fix workpieces or  
clamping devices.

Note: Requires hand chuck key for locking  
clamping devices

## Magnetic chuck

2909682-Z

Magnetic chuck dia. 120mm / 4.72"  
for fitting taper MT4 (with torsion protection),  
permanent magnet.

Note: Requires manual draw-bar for locking  
clamping devices

2909663-Z

Magnetic chuck dia. 165mm / 6.5"  
for fitting taper MT4 (with torsion protection),  
permanent magnet.

Note: Requires manual draw-bar for locking  
clamping devices

## Power chuck

### 2909633-Z

3 jaw power chuc dia. 110mm / 4.33"  
for spindle nose dia. 70mm / 2.76" from workheads  
with fitting taper MT4 (with interface for  
installation of a cut-in ring sensor) and on  
clamp actuating tube adaptor.

Clamping range: outside dia. 3-106mm / .12-4.17",  
inside dia. 42-135mm / 1.65-5.31".

Jaw stroke: 3.2mm / .126", repeating accuracy  
<0.02mm / .000,79".

Incl. 1 set of one-piece hard reversing jaws for outside  
and inside chucking. Jaw holding fixture,  
serrated 1/16"x90°. Laying of a coolant tube for internal  
grinding process cooling is possible.

Notes:

- Conversion to other clamping devices is expensive.
- Requires pneumatic clamping cylinder

### 2909643-Z

Soft top jaws for power chuck dia. 110mm / 4.33"  
(L=40 / 1.57", W=26.5 / 1.04", H=32mm / 1.18").

Note: For jaws with a prescribed diameter,  
it is necessary to order a jaw machining per dia.  
by a design order

### 2909719-Z

3 jaw precision power chuc dia. 110mm / 4.33"  
for spindle nose dia. 70mm / 2.76" from workheads  
with fitting taper MT4 (with interface for  
installation of a cut-in ring sensor) and on  
clamp actuating tube adaptor. Without jaws.

Jaw stroke: 1.25mm / .05", repeating accuracy  
<0.002mm / .000,79". Jaw holding fixture with ball  
positioning for jaw changing precision within 0.005mm  
/ .000,2". Laying of a coolant tube for internal  
grinding process cooling is possible.

Notes:

- Conversion to other clamping devices is expensive
- Requires pneumatic clamping cylinder
- Correspondent top jaws for each clamping  
diameter required

#### 2909721-Z

Soft top jaws for precision power chuck  
dia. 110mm / 4.33" (L=49mm / 1.93", W=18mm /  
.71",  
H=28mm / 1.1").

#### Notes:

- 1 set per clamping diameter required
- For jaws with a prescribed diameter, it is necessary to order a jaw machining for each dia. by a design order indicating the desired diameter

#### 2909723-Z

Chuck simulator for precision power chuck  
dia. 110mm / 4.33" for precise pre-machining  
of top jaws

#### 2909725-Z

Pretension discs for outside chucking for precision  
power chuck dia. 110mm / 4.33". For precise grinding  
of the clamping diameter on the jaws. Pretension  
disc can be removed without removal of the jaws.  
Set consists of 8 discs, graduation 0.25mm / .010"

#### 2909727-Z

Pretension ring for inside chucking for precision  
power chuck dia. 110mm / 4.33". For precise grinding  
of the clamping diameter on the jaws. The ring can  
be clamped in 4 different positions with a pretension  
diameter difference of 0.5mm / .02" for each. By means  
of 3 cyl. pins dia. 5mm / .2" or 6mm / .24" it is  
possible to cover the whole clamping range  
(supplied without cyl. pins)

#### 2909664-Z

3 jaw power chuck dia. 160mm / 6.3" for spindle  
nose dia. 70mm / 2.76" from workheads with fitting  
taper MT4 (with interface for installation of a  
cut-in ring sensor) and on clamp actuating tube  
adaptor.  
Clamping range: outside dia. 6-165mm / .24-6.5",  
inside dia. 36-181mm / 1.42-7.12". Jaw stroke: 3.6mm  
/ .14", repeating accuracy <0.02mm / .000,79".  
Incl. 1 set of one-piece hard reversing jaws  
for outside and inside chucking. Jaw holding fixture,

serrated 1/16"x90°. Laying of a coolant tube for internal grinding process cooling is possible.

Notes:

- Conversion to other clamping devices is expensive
- Requires pneumatic clamping cylinder

#### 2909676-Z

Soft top jaws for power chuck dia. 160mm / 6.3" (L=55 / 2.17", W=26.5 / 1.04", H=38mm / 1.5").

Note: For jaws with a prescribed diameter, it is necessary to order a jaw machining for each dia. by a design order indicating the desired diameter

#### 2909718-Z

3 jaw precision power chuck dia. 160mm / 6.3" for spindle nose dia. 70mm / 2.76" from workheads with fitting taper MT4 (with interface for installation of a cut-in ring sensor) and on clamp actuating tube adaptor. Without jaws. Jaw stroke: 2.5mm / .10", repeating accuracy <0.002mm / .000,79". Jaw holding fixture with ball positioning for jaw changing precision within 0.005mm / .000,2". Laying of a coolant tube for internal grinding process cooling is possible.

Notes:

- Conversion to other clamping devices is expensive
- Requires pneumatic clamping cylinder
- Correspondent top jaws for each clamping diameter required

#### 2909720-Z

Soft top jaws for precision power chuck dia. 160mm / 6.3" (L=72mm / 2.83", W=26mm / 1.02", H=36mm / 1.42").

Notes:

- 1 set per clamping diameter required
- For jaws with a prescribed diameter, it is necessary to order a jaw machining for each dia. by a design order indicating the desired diameter

#### 2909722-Z

Chuck simulator for precision power chuck dia. 160mm / 6.3" for precise pre-machining of top jaws

2909724-Z

Pretension discs for outside chucking for precision power chuck dia. 160mm / 6.3". For precise grinding of the clamping diameter on the jaws. Pretension disc can be removed without removal of the jaws. Set consists of 17 discs, graduation 0.25mm / .010"

2909726-Z

Pretension ring for inside chucking for precision power chuck dia. 160mm / 6.3". For precise grinding of the clamping diameter on the jaws. The ring can be clamped in 4 different positions with a pretension diameter difference of 0.5mm / .02" for each. By means of 3 cyl. pins dia. 5mm / .20" or 6mm / .24" it is possible to cover the whole clamping range (supplied without cyl. pins)

2909656-ZK

Working of soft jaws for chuck, dia.: ...mm

Note: 1 x for diameter necessary

### Dressing tool holder for dressing attachment

2915602-Z

Dressing tool holder vertically adjustable for dressing attachment. With 3 fitting tapers MT1 shortened for 2 dressing tools



## Dressing turbine

### 2915664-Z

Dressing spindle 16000min-1. rpm-range  
3'000-16'000min-1 power supply 0.13-0.2kW  
(max. 0.4kW at 9'000min-1). Spindle dia. 72mm  
/ 2.83" with cylindrical dressing tool holding  
fixture dia. 40-h3.

Connection cable length 2m and Harting plug  
HAN-module with lateral cable output (spindle  
according to electrical specification 1330366A).

#### Notes:

- Requires spindle holder dia. 72mm / 2.83"
- Requires dressing frequency converter
- Dressing tool has to be checked by technical  
clarification and subsequently ordered by  
a design order

### 2915691-Z

Dressing spindle 16000min-1. rpm-range with  
integrated cut-in sensor 3'000-16'000min-1  
power supply 0.13-0.2kW (max. 0.4kW at 9'000min-1).  
Spindle dia. 72mm / 2.83" with cylindrical dressing  
tool holding fixture dia. 40-h3.

Connection cable length 2m and Harting plug HAN-module  
with lateral cable output (spindle according to  
electrical specification 1330366A).

#### Notes:

- Requires spindle holder dia. 72mm / 2.83"
- Requires dressing frequency converter
- Dressing tool has to be checked by technical  
clarification and subsequently ordered by  
a design order

### 2915668-Z

Dressing spindle 30000min-1 for dressing of internal  
grinding wheels on live spindle grinding.  
Power supply 0.32kW. Spindle dia. 50mm / 1.97"  
with collet holding fixture type D14, incl. collet  
dia. 4mm / .16". Connection cable length 2m with radial  
cable connection on the spindle and Harting plug HAN-  
Modul with straight cable output . (Spindle according  
to electrical specification 1330366A).

#### Conditions:

- Requires spindle holder dia. 50mm / 1.97"
- Requires dressing frequency converter
- Dressing tool has to be ordered separately

## M-sensor for dressing spindle

2665017-Z

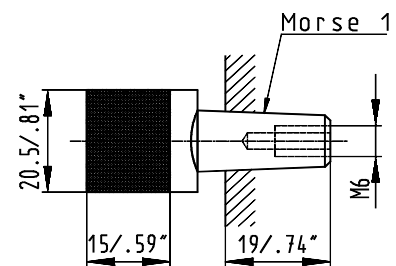
M-sensor for dressing spindle dia. 72mm / 2.83"  
for cut-in detection on rotating dressing.

Incl. sensor holder for mounting on the spindle  
holder and plugable connection cable (length 4m)

## Dressing tools with fitting taper MT1 shortened

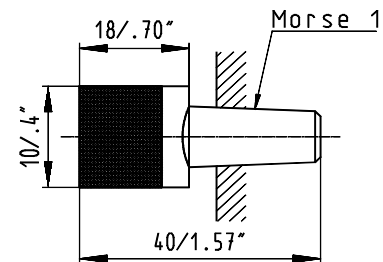
2813076-Z

Grain fliese diamond 1.15 mm/.045" with fitting  
taper MT1 shortened



5560732-Z

Needle fliese type DV/10 NX, hight 10mm / .39",  
length 18mm / .71" with fitting taper MT1 shortened



5560731-Z

Needle fliese type DV/20 NX, hight 20mm / .79",  
length 20mm / .79" with fitting taper MT1 shortened

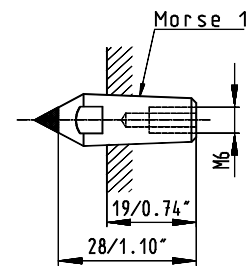
5560511-Z

Needle fliese type MKD-3-0640 DV/10, hight 10mm /  
.39",  
length 18mm / .71" with fitting taper MT1 shortened

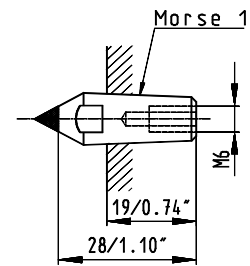
5560512-Z

Needle fliese type CVD-3-0640 DV/10, hight 10mm /  
.39",  
length 18mm / .71" with fitting taper MT1 shortened

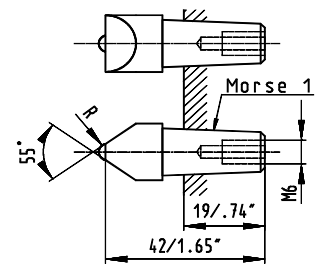
2813077-Z  
 Single point diamond 0.1 carat,  
 with fitting taper MT1 shortened



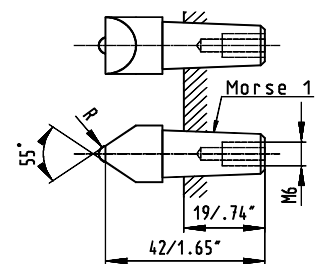
2813079-Z  
 Single point diamond 1.5 carat,  
 with fitting taper MT1 shortened



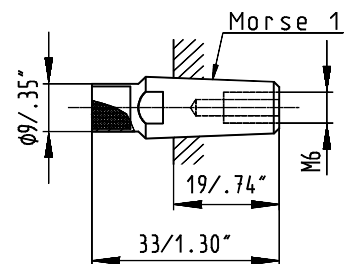
5560304-Z  
 Single point diamond 0.45 carat 55 deg.  
 R 0.25mm / .01" with fitting taper MT1 shortened



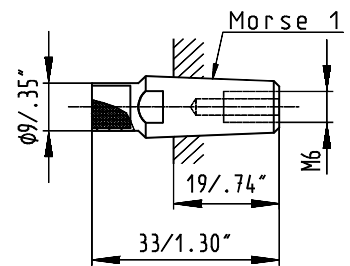
5560305-Z  
 Single point diamond 0.45 carat 55 deg.  
 R 0.5mm / .02" with fitting taper MT1 shortened



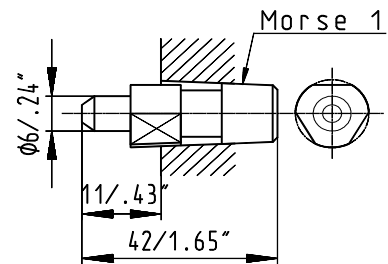
2813075-Z  
 Impregnated diamond grit 25  
 with fitting taper MT1 shortened



2813081-Z  
 Impregnated diamond grit 100  
 with fitting taper MT1 shortened

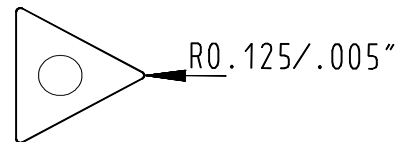


5560709-Z  
 Impregnated diamond with fitting taper MT1 shortened

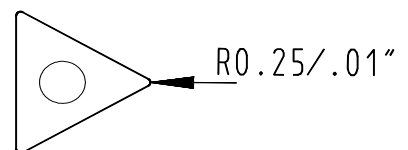


**PCD-dressing plate with sep. fitting taper**

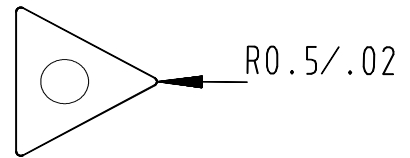
5560721-Z  
 PCD-dressing plate R 0.125mm/.005"  
 Note: Requires correspondent adaptor for  
 PCD-dressing plates



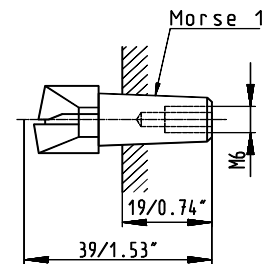
5560722-Z  
 PCD-dressing plate R 0.25mm/.01"  
 Note: Requires correspondent adaptor for  
 PCD-dressing plates



5560723-Z  
 PCD-dressing plate R 0.5mm/.02"  
 Note: Requires correspondent adaptor for  
 PCD-dressing plates

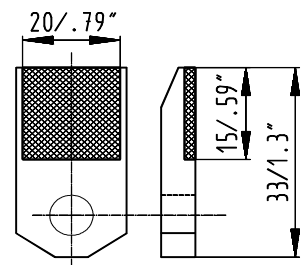


5560727-Z  
 Adaptor for PCD-dressing plates (self-centering)

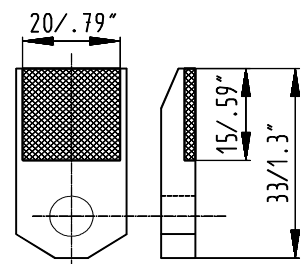


**Grain fliese diamonds with sep. fitting taper**

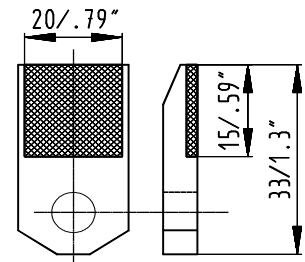
5560712-Z  
 Grain fliese diamond 1.15mm/.045"  
 Height 10mm / .39", length 15mm / .59"  
 Note: Requires correspondent adaptor for  
 Grain fliese diamond



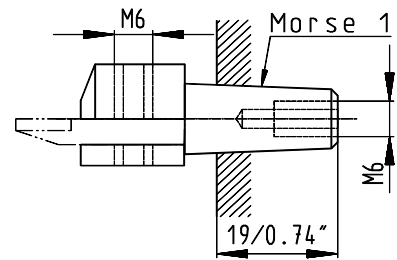
5560714-Z  
 Grain fliese diamond 0.9mm/.035"  
 Height 10mm / .39", length 15mm / .59"  
 Note: Requires correspondent adaptor for  
 Grain fliese diamond



5560719-Z  
 Grain fliese diamond 0.75mm/.03"  
 Height 10mm / .39", length 15mm / .59"  
 Note: Requires correspondent adaptor for  
 Grain fliese diamond

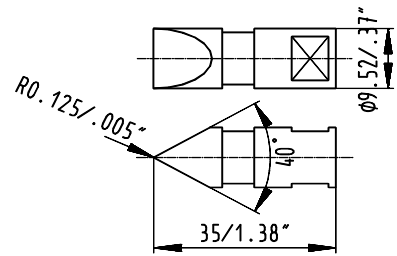


5560708-Z  
 Adaptor MT1 shortened for grain fliese diamonds

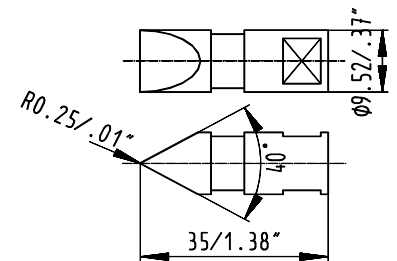


**Dressing tools with cylindrical shaft dia 9.52x35mm**

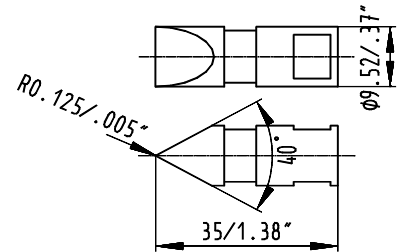
2415112-Z  
 Single point diamond R 0.125, 40deg.  
 (cylindrical shaft dia. 9.52x35mm / .37x1.38")



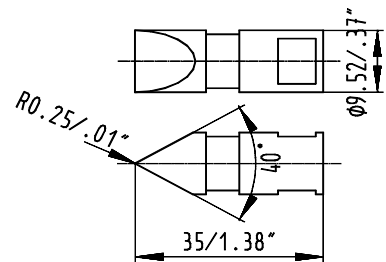
2415113-Z  
 Single point diamond R 0.250, 40deg.  
 (cylindrical shaft dia. 9.52x35mm / .37x1.38")



2415114-Z  
 Profile diamond R 0.125, 40°, MKD  
 (cylindrical shaft dia. 9.52x35mm / .37x1.38")



2415115-Z  
 Profile diamond R 0.250, 40°, MKD (cylindrical shaft dia. 9.52x35mm/.37x1.38")



**dressing motor spindle dia. 50mm / 1.97"**

5560504-Z  
 Diamond tipped cupwheel dia. 15x13mm / 0.59x0.51",  
 shaft dia. 4mm / 0.16"

5560509-Z  
 Diamond tipped cupwheel (10 deg. tapered)  
 dia. 16x15mm / 0.63x0.59", shaft dia. 4mm / 0.16"

**Auxiliary attachment for the adjustment of the dressing tool height**

2621604-Z  
 Auxiliary attachment to adjust stationary dressing tools to  
 125mm/4.92" center height

**Footpedal**

2404753-Z  
 Approval pedal to carry out movements with open  
 operating doors (with switch-off above the stroke).  
 Facilitates workpiece alignment in the chucks.  
 Connection cable length 3.5m



2404754-Z

Footpedal for clamping devices for electrically controlled clamping devices (hydraulic tailstock retraction, chucks etc.) Double foot pedal (clamping/unclamping) with over-travel switch on the clamping pedal. Connection cable length 3.5m

### First cut recognition

2404774-Z

First cut sensor with magnetic base and connection cable, length 4m



### Input and output units

2404657-Z

External disk unit 3 1/2" (Fanuc Handy File) incl. 7m cable. MS-DOS-compatible



2219605-Z

Discs 3 1/2", 2HD (package with 10 pieces)



1332655-Z

Transmission cable RS 232 C for the connection Fanuc-control <--> personal computer, length 5m.

Note: Not necessary if the machine and PC is equipped with HSSB and optical fiber transmission cable



1389854-Z

Studer Ethernet transmission cable (Crossover) for connecting the Fanuc control system to an external PC, length 10m.

Note: Cannot be used as network cable

## Communication software

1397019-Z

StCom for Windows 4.x software pack for transferring data and grinding programs from Fanuc control system to a PC or vice versa through the serial interface.

Dialog language German / English / French / Italian (switchable), incl. integrated operating instructions.

System requirements:

Personal computer with:

- Operating system: Microsoft Windows 95 or higher
- Pentium processor
- 16MB random access memory (RAM)
- CD-ROM and 3.5" floppy disk drive
- Free serial interface RS 232 C
- MOUSE

Studer grinding machine with:

- Fanuc control system and Studer operating system Release A or higher

Scope of supply:

- Software on CD-ROM and license key on 3.5" floppy disk
- Installation instructions German / English

Note: Requires RS 232 C data cable

## Hydraulic and lubricating oil

For X-/Z-axes: Oil Shell Tonna S32

For high frequency motor spindles GMN: Oil Motorex Spindle Lube ISO VG 46

For high frequency motor spindles Fischer: Oil Motorex Spindle Lube ISO VG 68

Oil for lubrication in connection with pneumatic lifting: Mobil DTE 24

For hydraulic: Oil Shell Tonna S32

### Oil Shell Tonna S32

5601806-Z  
5 litre can oil Shell Tonna S32



5601807-Z  
3 cans at 20 litres oil Shell Tonna S32



### Grease Klüber Staburags NBU 8 EP

5601613-Z  
1 kg grease KLÜBER Staburags NBU 8 EP

### Oil Mobil DTE 24

5601829-Z  
5 litre can oil MOBIL DTE 24



5601816-Z  
2 cans of 10 litre oil MOBILE DTE 24



5601814-Z  
50kg drum oil MOBIL DTE 24



**Oil Motorex Spindle Lube ISO VG46**

5601866-Z  
Can of 4 liters oil Motorex Spindle Lube ISO VG46,  
cleanliness class 13/10 according to ISO 4406

**Oil Motorex Spindle Lube ISO VG 68**

5601869-Z  
4 litre can oil Motorex Spindle Lube ISO VG 68  
cleanliness class 13/10 according ISO 4406



**Coolant**

5601412-Z  
5 litre can of coolant CASTROL Hysol R



5601420-Z  
15 litres can of coolant CASTROL Hysol R



## Corrosion protection agents

3118613-Z

Corrosion protection agents. 5 litres can Motorex Coolant F for motor spindles internal cooling



2918032-Z

Can with 0.15 liter fungicide Motorex Antisept for the water cooling circuit of the motor spindles



2918695-Z

Can (1 l) of cleaner for the water coolant circuit of motor spindles, Motorex Swisscare SC



## Filter mat for grinding mist extraction unit

2422667-Z

Spare filter mat (10 pcs.) for grinding mist extraction unit for emulsion



2422662-Z

Spare filter mat (10 pcs.) for grinding mist extraction unit for oil

## Machine documentation

9904256-Z

Booklet Studer Grinding Data (pocket file)



**Auxiliary accessories**

1848602-Z  
Steel tool cabinet

