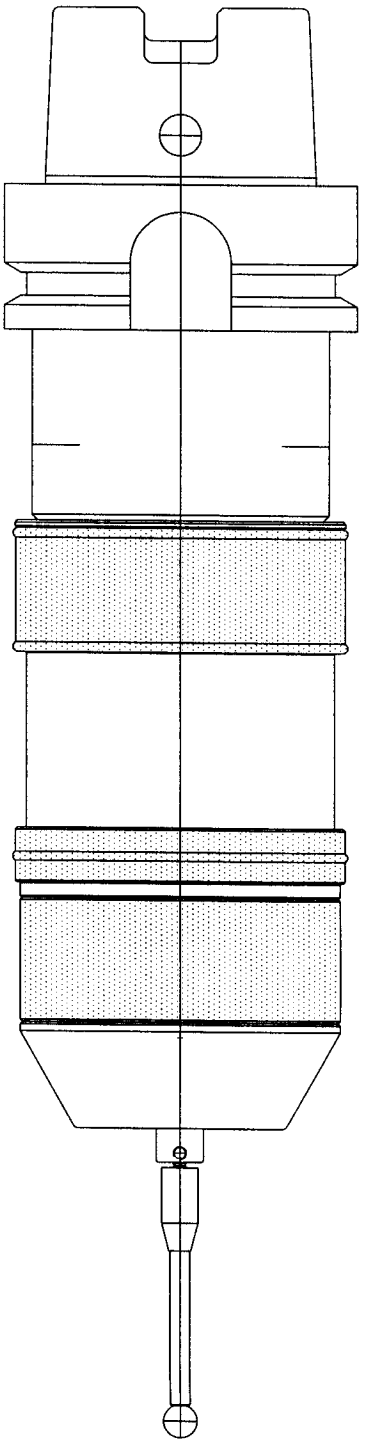
Radio Wave Probe 20.00

OPERATING INSTRUCTION

Dimensions and description
Parts list
Switch ON-OFF methods
Standard Pullstuds
FCC Statement

GB



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Models 20.00 (TX) & 95.10 (RX)
Marstech Report No. 25046B
EXHIBIT C(5)

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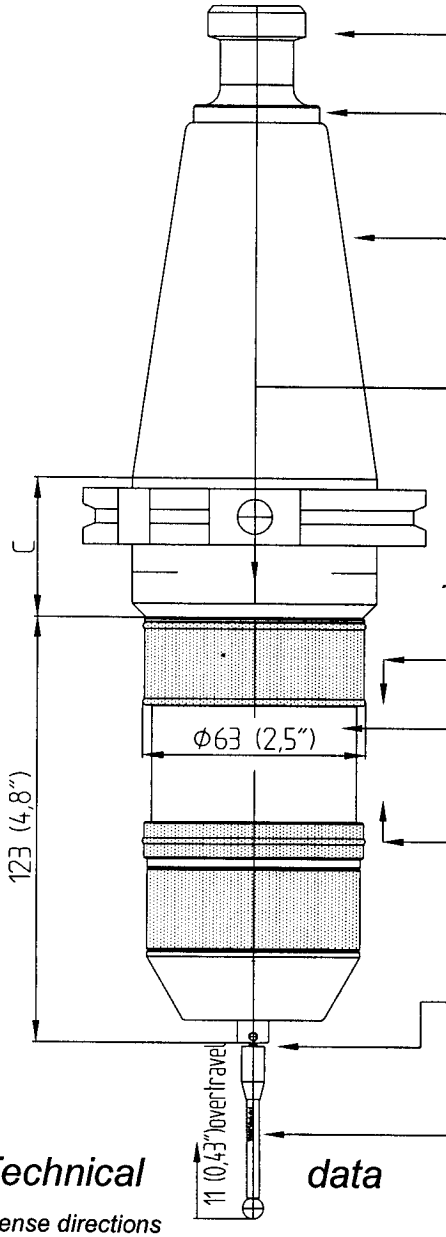
Radio Wave Probe 20.00-MULTI

EASY CHANNEL SELECT

Dimensions and description



ON-OFF methods see **page 3/4**

Pullstuds see **page 4/4**

Shanks see **page 3/4**

Notice: This probe can easily be adjusted by program button to 64 different channels/frequencies. See **"Quick setup instructions-Channel selection probe"**

Battery sleeve slides to replace 9V battery. See **"Quick setup instruction-Replace the battery"**

Probe housing made from stainless steel

Slide adjustment sleeve to expose adjusting screws See **"Quick setup instruction-Run out adjustment"**

Break shaft to protect the measuring mechanism in XY axes See **"Quick setup instruction-Break shaft replacement"**

Styli see **"Quick setup instruction-Stylus and acces..."**

Technical data

Sense directions	±X, ±Y, -Z
Maximum stylus overtravel	XY ±15°, Z -11mm (0,43")
Trigger force with 50mm stylus	XY=2N Z=8N
Recommended probing speed	254mm/min (10"/min) - 5000mm/min (196"/min)
Unidirectional repeatability	±1um Stylus 50mm, 254mm/min (10"/min)
Sealing	IP68 EN60529,ICE529, DIN40050
Temperature range	10°- 50°
Frequency range and channel spaceing	433,100MHz-434,650MHz, 64 Channels, 25 KHz steps adjustable

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Radio Wave Probe 20.00-MULTI

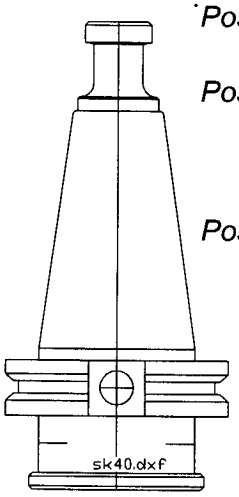
EASY CHANNEL SELECT

Parts list

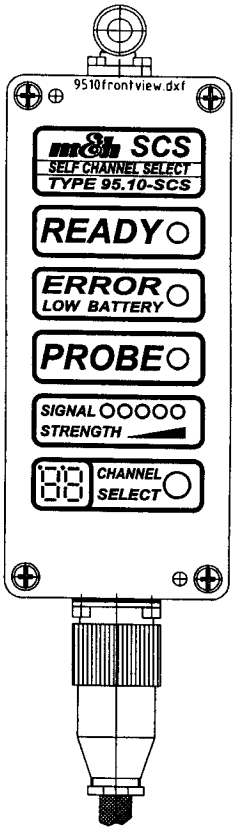
Possible probe ON-OFF methods see page 3/4

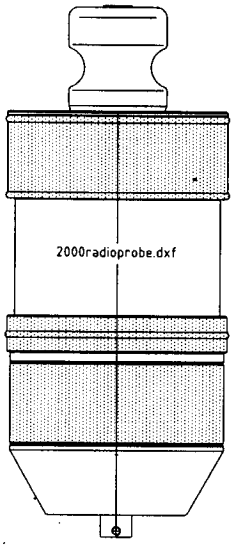
Possible pullstuds see page 4/4

Possible shanks see page 3/4



Radio Wave Receiver with integrated interface
#95.10-SCS





Radio Wave Probe with
64 channels
#20.00-MULTI

Hexagonal keys

Break shaft
#91.00-S

SW 2,5mm
AF 2,5mm
#25.00-I2,5

SW 2,0mm
AF 2,0mm
#25.00-I2,0

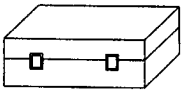
SW 1,3mm
AF 1,3mm
#91.00-I1,3

Battery 9V
#91.00-B

Stylus
#91.00-T50/6

Quick setup instruction
#25.00-KU

Toolbox
#25.00TB



Wodden box
#25.00-WB

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Radio Wave Probe 20.00-MULTI

EASY CHANNEL SELECT

#1-by pullstud

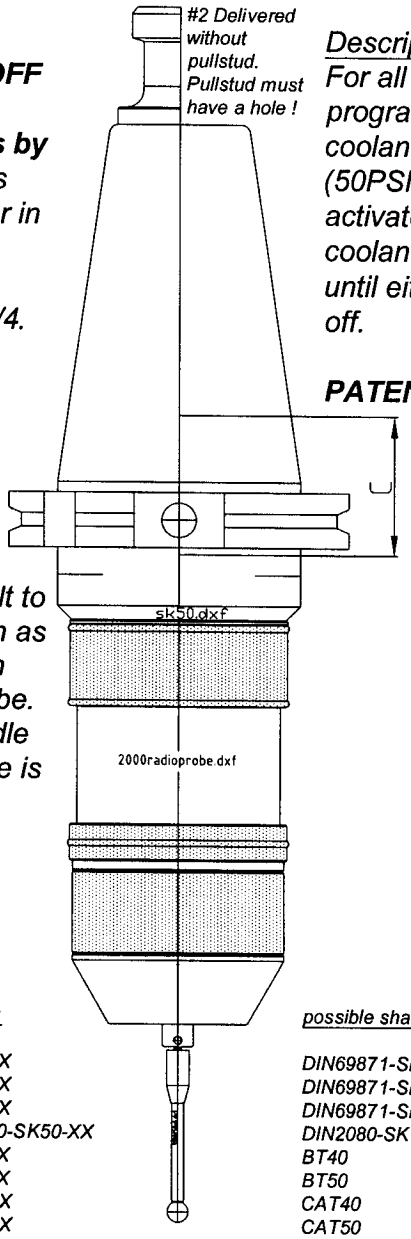
Description:
This is a **100% mechanical ON-OFF** method.
For all machines that **clamp tools by using pullstuds**. The probe starts transmitting as soon as the gripper in the spindle holds the pullstud.
The pullstud type is defined in the order number by **XX**. See page 4/4.

PATENTED

For all machines with spindles built to accept **hollow taper shanks** such as **HSK,** there is a mechanical switch inside the HSK to activate the probe. When the probe is inside the spindle it is ON. In the magazine the probe is OFF.

possible shanks:	C:	Order number:
DIN69871-SK30	38 (1,5")	20.00-SK30-XX
DIN69871-SK40	40 (1,6")	20.00-SK40-XX
DIN69871-SK50	40 (1,6")	20.00-SK50-XX
DIN2080-SK50	36 (1,4")	20.00-DIN2080-SK50-XX
BT40	40 (1,6")	20.00-BT40-XX
BT50	55 (2,16")	20.00-BT50-XX
CAT40	40 (1,6")	20.00-AN40-XX
CAT50	40 (1,6")	20.00-AN50-XX
DIN69893-HSK-A50	60 (2,36")	20.00-HSK50A
DIN69893-HSK-A63	60 (2,36")	20.00-HSK63A
DIN69893-HSK-A80	65 (2,56")	20.00-HSK80A
DIN69893-HSK-A100	65 (2,56")	20.00-HSK100A

Other shanks on request.
Please send drawing or sample.



#2-by through spindle coolant
#2-by through spindle air blast

Description:
For all machines with programmable "through spindle" coolant or air blast >3,5bar (50PSI). The probe will be activated by the M-Code for either coolant or air blast. Probe is active until either command is switched off.

PATENTED

possible shanks:	C:	Order number:
DIN69871-SK30	38 (1,5")	20.00-SK30-XX-WS
DIN69871-SK40	40 (1,6")	20.00-SK40-XX-WS
DIN69871-SK50	40 (1,6")	20.00-SK50-XX-WS
DIN2080-SK50	36 (1,4")	20.00-DIN2080-SK50-WS
BT40	40 (1,6")	20.00-BT40-XX-WS
BT50	55 (2,16")	20.00-BT50-XX-WS
CAT40	40 (1,6")	20.00-AN40-XX-WS
CAT50	40 (1,6")	20.00-AN50-XX-WS
DIN69893-HSK-A50	60 (2,36")	20.00-HSK50A-WS
DIN69893-HSK-A63	60 (2,36")	20.00-HSK63A-WS
DIN69893-HSK-A80	65 (2,56")	20.00-HSK80A-WS
DIN69893-HSK-A100	65 (2,56")	20.00-HSK100A-WS
Kennametal KM63	65 (2,56")	20.00-KM63-WS
Kennametal KM80	65 (2,56")	20.00-KM80-WS
Coromant Capto C6	65 (2,56")	20.00-C6-WS
Coromant Capto C8	65 (2,56")	20.00-C8-WS

Other shanks on request.
Please send drawing or sample.

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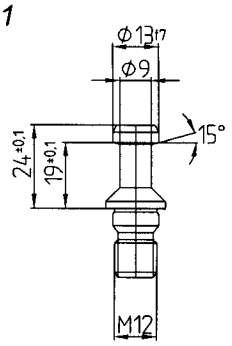
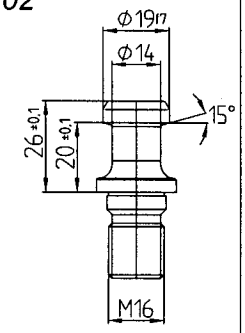
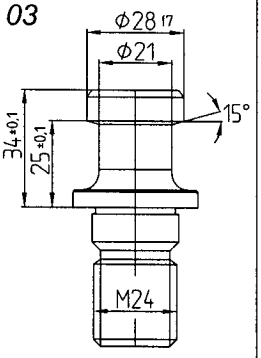
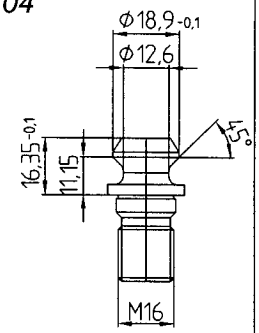
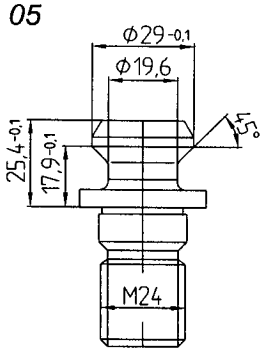
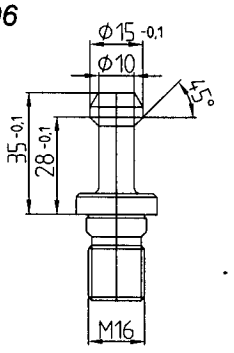
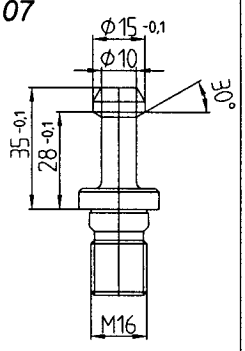
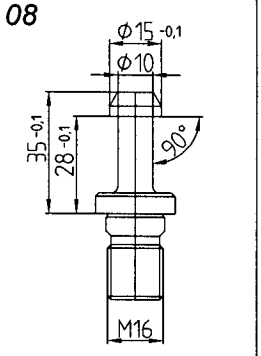
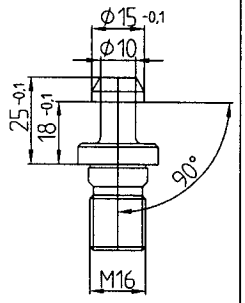
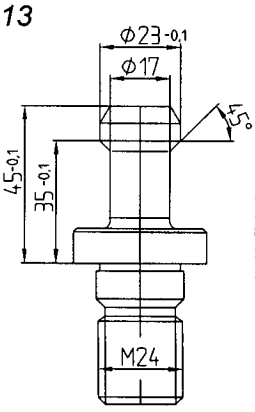
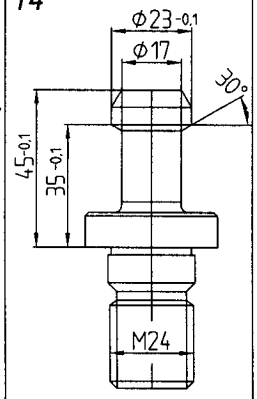
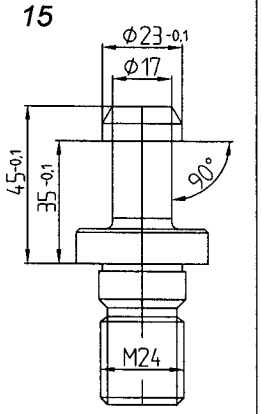
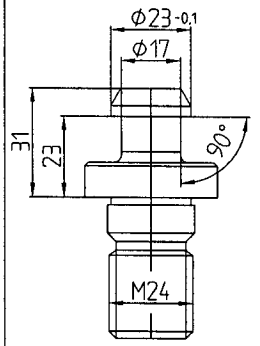
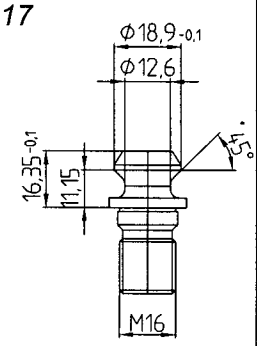
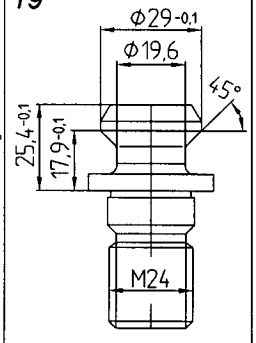
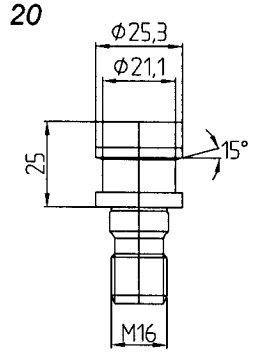
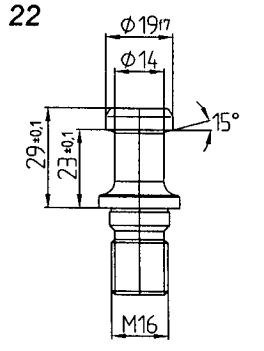
Radio Wave Probe 20.00-MULTI

EASY CHANNEL SELECT

01  DIN69872-SK30	02  DIN69872-SK40 ISO7388/2-SK40 Type A	03  DIN69872-SK50 ISO7388/2-SK50 Type A	04  ISO 7388/2-SK40 Type B	05  ISO 7388/2-SK50 Type B
06  MAS-BT40-1	07  MAS BT40-2	08  MAS BT40-3	09  MAS BT40-3 short	
13  MAS BT50-1	14  MAS BT50-2	15  MAS BT50-3	16  MAS-BT50-3 short	
17  ANSI / CAT40	19  ANSI / CAT50	20  OTT-SK40	21 *Other pullstuds on request. Please send two samples.*	22  JIS-BT40

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FCC Statement

" Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device. "