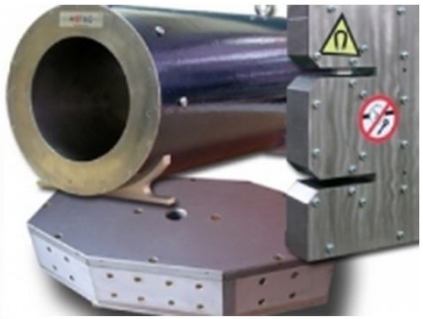



AMT&C LLC offers various types of electromagnetic systems, magnetic field sources and measuring equipment
Custom design and manufacturing

## Get in touch

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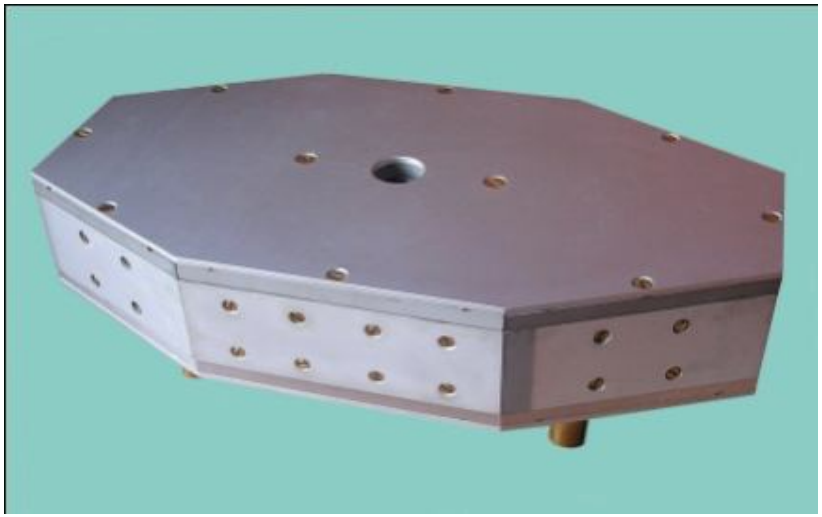
# AMT&C LLC MAGNETIC FIELD SOURCES ELECTROMAGNETIC SYSTEMS MEASURING EQUIPMENT

# PERMANENT MAGNET MAGNETIC FIELD SOURCES



WITH STATIC MAGNETIC FIELD IN THE WORKING BORE

WITH VARIABLE MAGNETIC FIELD IN THE WORKING BORE

# PERMANENT MAGNET MAGNETIC FIELD SOURCES

## AXIAL FIELD SOURCES

working bore Ø 50 mm
magnetic field – 1.25 T
relative field homogeneity in the area of Ø 20×20 mm – better than $10^{-3}$
field direction - axial
dimensions Ø 300×240 mm
weight 105 kg

working bore Ø 120 mm
magnetic field - up to 0.4 T
field homogeneity in the toroidal area – up to ± 2%
field direction - axial
dimensions Ø 300×240 mm

# MagEq® PERMANENT MAGNET MAGNETIC FIELD SOURCES

## HALBACH-TYPE WITH EXTENDED UNIFORMITY FIELD AREA FOR NMR APPLICATIONS


working bore Ø 100 mm

magnetic field 0.16 T

field area with relative homogeneity of $10^{-4}$ - Ø 100 mm × 100 mm

field direction - transverse to the working bore axis

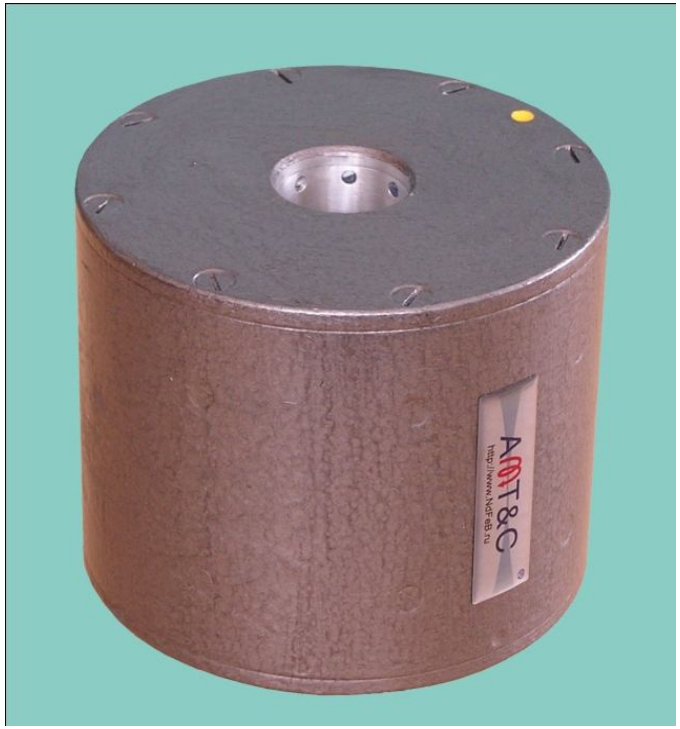
dimensions Ø 300×500 mm

weight 150 kg

AMT&C®

# MagEq® PERMANENT MAGNET MAGNETIC FIELD SOURCES

## HALBACH-TYPE WITH HIGH MAGNETIC FIELD IN THE WORKING BORE

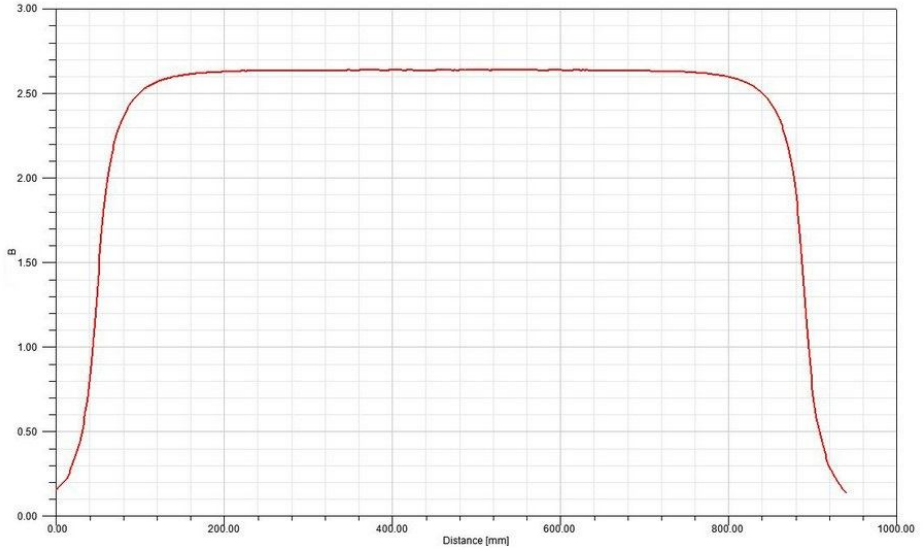



working bore Ø 40 mm
magnetic field 1.2 T
uniform field (±0.5%) area 20 mm
field direction - transverse to the working bore axis
dimensions Ø 165×125 mm
weight 13 kg

AMT&C®

# MagEq® PERMANENT MAGNET MAGNETIC FIELD SOURCES

## HALBACH-TYPE WITH HIGH MAGNETIC FIELD IN THE WORKING BORE

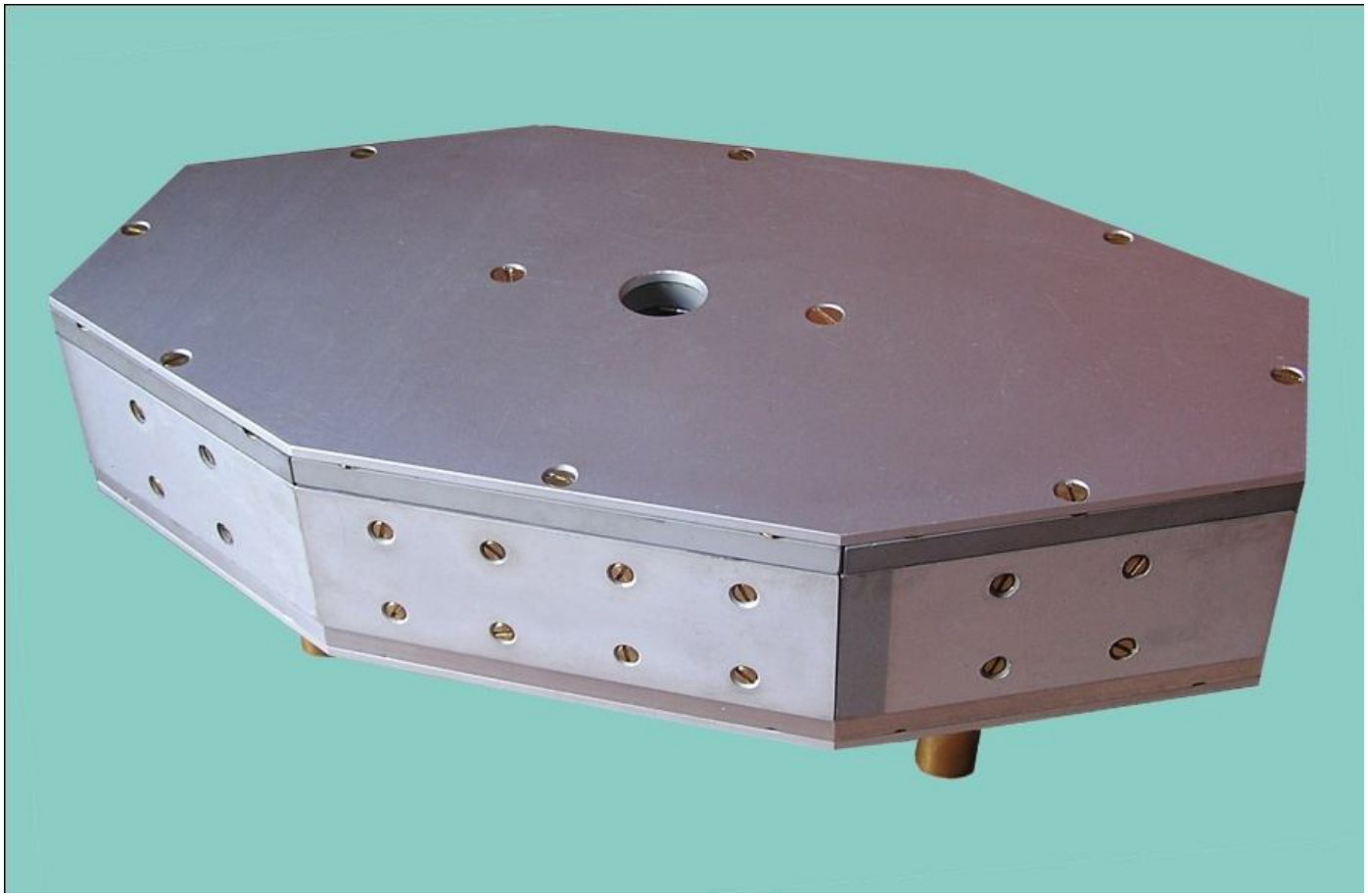



working bore Ø 20 mm
magnetic field 2.6 T
uniform field (±0.5%) area 12 mm
field direction - transverse to the working bore axis
dimensions Ø 220×880 mm
weight 330 kg

AMT&C®

# PERMANENT MAGNET MAGNETIC FIELD SOURCES

## WITH HIGH MAGNETIC FIELD IN THE WORKING BORE

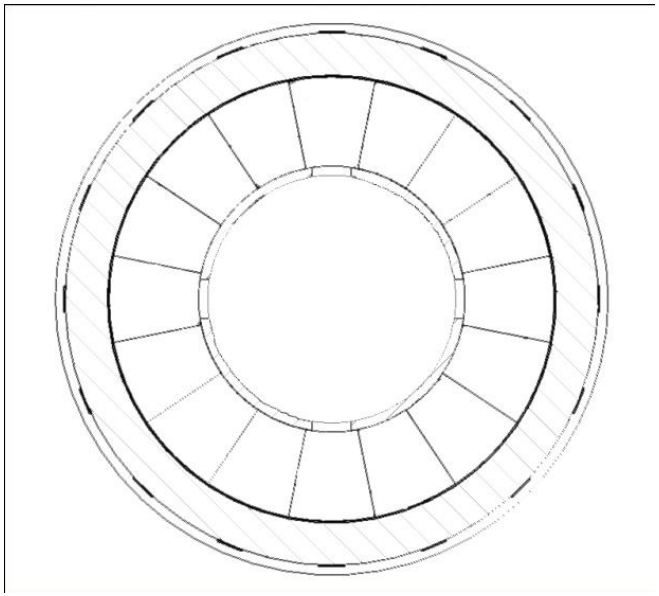


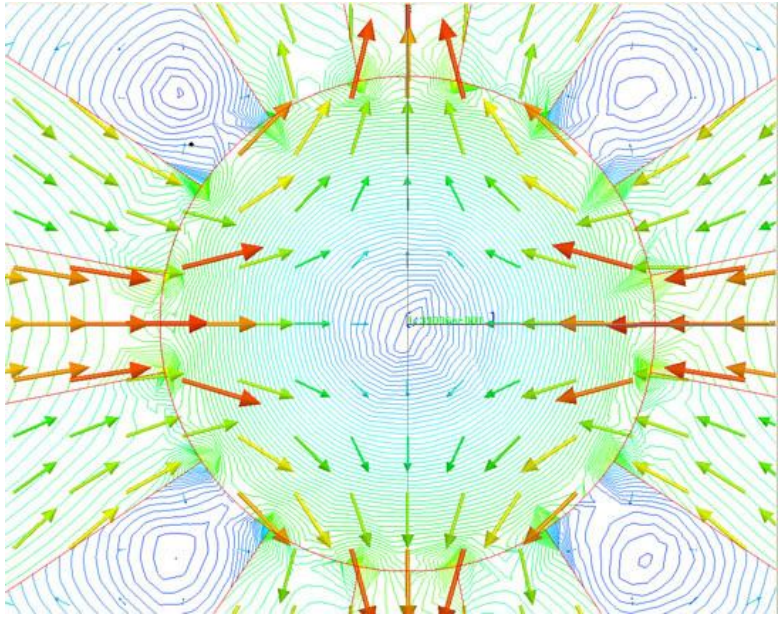
working bore

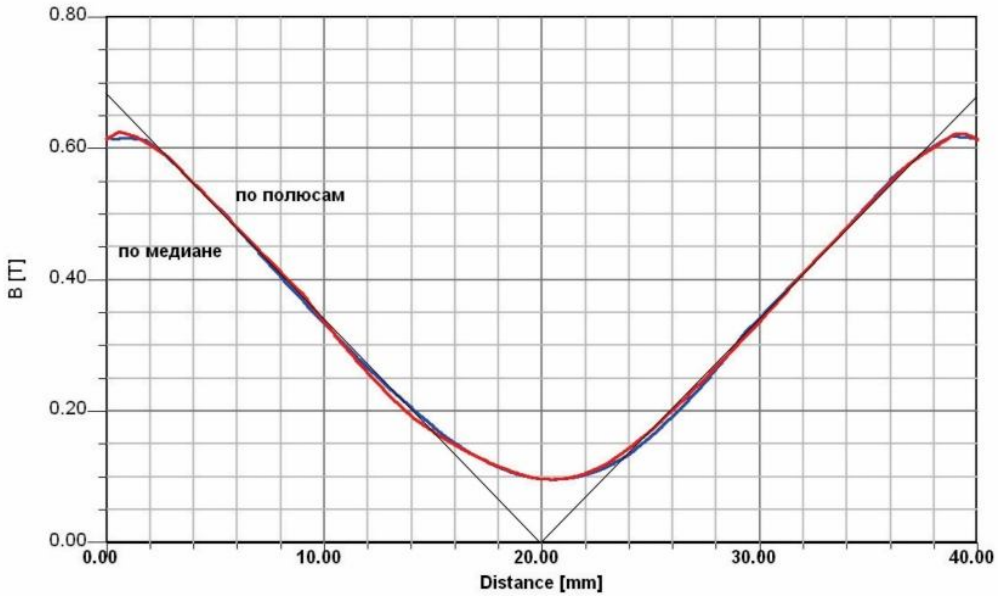
working bore 11.5 mm
magnetic field 2.6 T
pole size 25 ×70 mm
dimensions 515×275×105 mm

# PERMANENT MAGNET MAGNETIC FIELD SOURCES

## WITH HIGH-GRADIENT MAGNETIC FIELD IN THE WORKING BORE





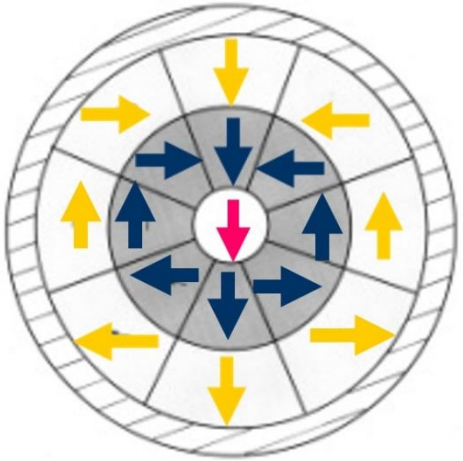


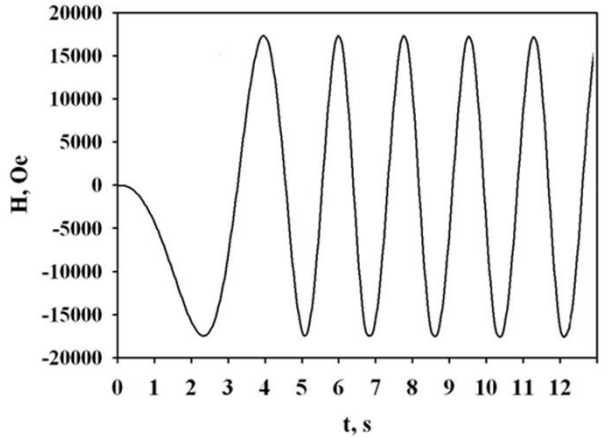

quadrupole magnetic system

# PERMANENT MAGNET MAGNETIC FIELD SOURCES

## WITH VARIABLE MAGNETIC FIELD IN THE WORKING BORE

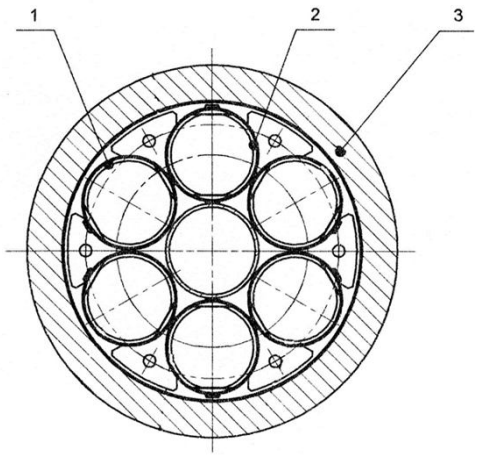
working bore 36 mm
magnetic field -1.8 T ÷ +1.8 T
field direction - transverse to the working bore axis
maximal field changing rate 6 T/sec
field homogeneity ±0.5% in a region Ø20×20 mm
overall dimensions 396×324×466 mm
weight 108 kg





# PERMANENT MAGNET MAGNETIC FIELD SOURCES

## WITH VARIABLE MAGNETIC FIELD IN THE WORKING BORE




Adjustable magnetic field system for optical experiments

working bore 42 mm
magnetic field -0.7 T ÷ +0.7 T
field homogeneity ±1% in a region Ø10×20 mm
overall dimensions 200×200×450 mm
weight 30 kg

# PERMANENT MAGNET MAGNETIC FIELD SOURCES

## FOR MAGNETIC NON-DESTRUCTIVE TESTING



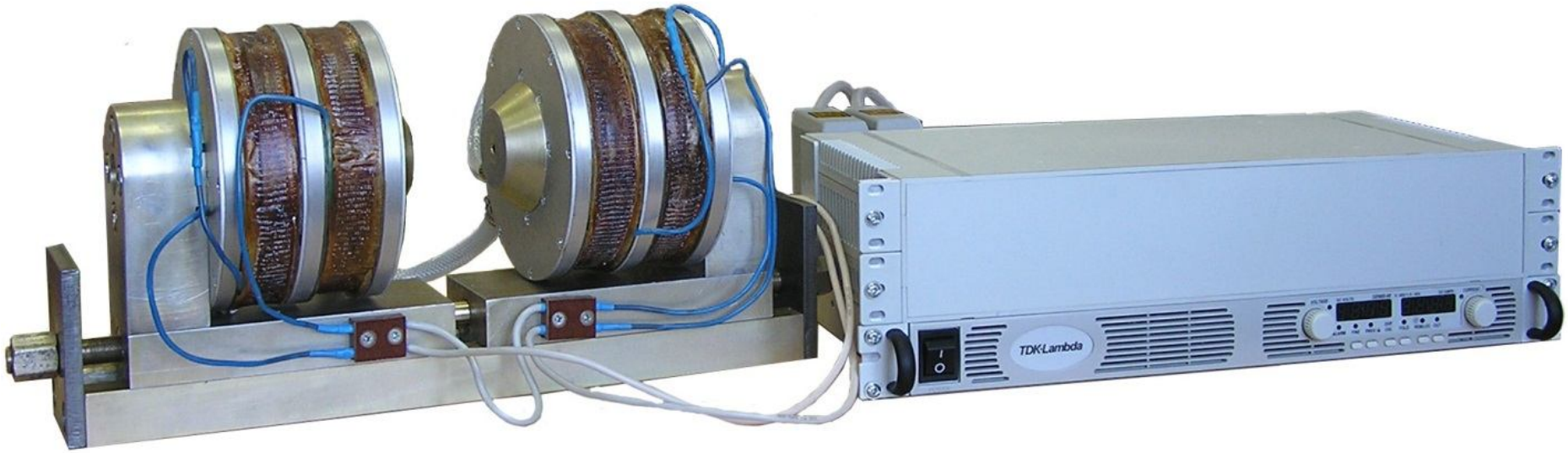


Permanent magnet magnetic systems (blocks) for magnetic non-destructive testing (NDT).

# ELECTROMAGNETS

## WATER COOLED ELECTRMAGNETS

maximal magnetic induction in the working bore – up to 2 T
adjustable working bore
computer and electronic control with field direction switching
optical channel along the field direction and other options



# ELECTROMAGNETS

## ELECTROMAGNETIC SYSTEMS FOR CALIBRATION PURPOSES

maximal magnetic field induction  50 mT
field inhomogeneity in the operating region
0.01 - 0.05 %
computer and electronic control with field direction switching
power consumption  200 W
dimensions  280×340×340 mm
weight 95 kg

We design and manufacture unique magnetic field sources exactly according to customer requirements

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