

System	Model	Technical description	Implementation	HumaxTube®	Accessories / Spare Parts	Fields of application
Hitting	HS Impact Probe	<b>Description:</b> Lightweight hand-held impact probe for topsoil sampling with hardened chisel crown. HumaxTube® is inserted directly into the percussion tube. One soil core HumaxTube® per sample point. One-man operation possible	<b>Length</b> <b>Ø 35 mm:</b> 200, 250, 300 mm <b>Ø 50 mm:</b> 100, 200, 250, 300 mm <b>Special size available on request</b>	<b>Length</b> <b>Ø 35 mm:</b> 200, 250, 300 mm <b>Ø 50 mm:</b> 100, 200, 250, 300 mm <b>Special size available on request</b>	Nylon-stick 4.0 (hammer) Nylon-stick 5.5 (hammer) Reserve chisel crown	S.a) Accumulation and residue studies (pesticides, heavy metals, pollutants, microplastics) S.b) Microorganisms, Beneficial & Pathogens S.c) Root mass S.d) Soil cylinders of reference soils for scientific trials with grown soils under laboratory conditions S.f) Volume sample for determination of soil physical parameters (density, water content) S.g) Soil physical investigation -> STRUDEL method*. *optimal for HumaxTube Ø 50 mm up to a length of ≤ 200 mm
	Special HS Impact Probe	<b>Description:</b> Lightweight hand-held impact probe for topsoil sampling with hardened chisel crown, for special use. One soil core HumaxTube® per sample point. Extra wide sample diameter at low height for taking large undisturbed volume samples (analogue to puncture cylinder). Especially suitable for the determination of storage density and lab-lysimeter studies. One-man operation possible	<b>Length</b> <b>Ø 80 mm:</b> 100 mm <b>Ø 100 mm:</b> 100 mm <b>Special size available on request</b>	<b>Length:</b> <b>Ø 80 mm:</b> 100 mm <b>Ø 100 mm:</b> 100 mm <b>Special size available on request</b>	Nylon-stick 4.0 (hammer) Nylon-stick 5.5 (hammer) Reserve chisel crown	S.f) Volume sample for the determination of soil physical parameters and lab-lysimeter studies
	HK Impact Probe	<b>Description:</b> Hand-held impact probe with inner cartridge to place the HumaxTube®, hardened chisel crown. Collection of multiple soil cores per sample point. Horizons to be sampled will define the length of the impact probe, of the inner cartridge and the length of the HumaxTube®. One-man operation possible. Extraction aid is recommended when using HK impact probes longer than 500 mm	<b>Length:</b> <b>Ø 35 mm:</b> 500 mm <b>Ø 50 mm:</b> 500, 750 mm <b>Special size available on request</b>	<b>Length:</b> <b>Ø 35 mm:</b> 250 mm <b>Ø 50 mm:</b> 100, 250 mm <b>Special size available on request</b>	Nylon-stick 4.0 (hammer) Nylon-stick 5.5 (hammer) Reserve chisel crown pull-out head (note thread size) pull-out lever pull-out winch	S.a) Accumulation and residue studies (pesticides, heavy metals, pollutants, microplastics) S.b) Microorganisms, Beneficial & Pathogens S.c) Root mass S.d) Soil cylinders of reference soils for scientific trials with grown soils under laboratory conditions S.e) Precise Nmin. sampling S.f) Soil profile approach, soil classification, horizon sampling along the soil profile, volume sampling to determine soil physical concomitant parameters (bulk density, water content) S.g) Soil physical investigation -> STRUDEL method (usage only with HumaxTube® with length 100 mm)
Rotating	P2 Drilling Probe	<b>Description:</b> Lightweight drilling probe with mechanical drive (electric or fuel) for topsoil sampling with knife crown. One soil core HumaxTube® is inserted directly into the sampler. One-man operation possible	<b>Length:</b> <b>Ø 50 mm:</b> 250, 300 mm <b>Special size available on request</b>	<b>Length:</b> <b>Ø 50 mm:</b> 250, 300 mm	Drive unit P2EL Drive unit P2VE Reserve knife crown P2	R.a) Accumulation and residue studies (pesticides, heavy metals, pollutants, microplastics) R.b) Microorganisms, Beneficial & Pathogens R.c) Root mass
	P1 Drilling Probe	<b>Description:</b> Medium weight drilling probe with mechanical drive (electric or fuel), inner cartridge with inner rods and knife crown. Collection of multiple soil cores per sample point. Horizons to be sampled will define the length of the probe, of the inner cartridge and the length of the HumaxTube®. Two-man operation	<b>Length:</b> <b>Ø 50 mm:</b> 900, 1000 mm <b>Ø 80 mm:</b> 900, 1000 mm <b>Special size available on request</b>	<b>Length</b> <b>Ø 50 mm:</b> 100, 200, 250, 300 mm <b>Ø 80 mm:</b> 100, 200, 250, 300 mm <b>Special size available on request</b>	Drive unit P1EL Drive unit P1VE Reserve knife crown P1	R.a) Accumulation and residue studies (pesticides, heavy metals, pollutants, microplastics) R.b) Microorganisms, Beneficial & Pathogens R.c) Root mass R.e) Precise Nmin. Sampling R.f) Soil profile approach, soil classification, horizon sampling along the entire soil profile, volume sampling to determine accompanying soil physical parameters (bulk density, water content)
	AK Drilling Probe on Carrier Vehicle	<b>Description:</b> Heavy electric or hydraulic driven drilling probe on rig/tower, inner cartridge with inner rods to place the HumaxTube®, knife crown. Mounting on various types of carrier vehicles possible. Collection of multiple soil cores per sample point. Horizons to be sampled will define the length of the probe, of the inner cartridge and the length of the HumaxTube®. One- and two-man operation possible	<b>Length:</b> <b>Ø 50 mm:</b> 900, 1000, 3000 mm <b>Ø 80 mm:</b> 900, 1000, 2100 mm <b>Ø 100 mm:</b> 1000 mm <b>Special size available on request</b>	<b>Length:</b> <b>Ø 50 mm:</b> 100, 200, 250, 300 mm <b>Ø 80 mm:</b> 100, 200, 250, 300 mm <b>Ø 100 mm:</b> 100, 200, 250 mm <b>Special size available on request</b>	Carrier vehicle Reserve knife crown	R.a) Accumulation and residue studies (pesticides, heavy metals, pollutants, microplastics) R.b) Microorganisms, Beneficial & Pathogens R.c) Root mass R.e) Precise Nmin. Sampling R.f) Soil profile approach, soil classification, horizon sampling along the entire soil profile, volume sampling to determine accompanying soil physical parameters (bulk density, water content)
Special designs	Individual solution  Within the scope of what is technically possible	With more than 30 years of experience in the field of soil and plant sampling, we will be happy to support you with high quality technology and innovative solutions. We accompany you from design to application, taking into account your personal wishes and specifications				