

UTILIZATION OF **PLASMA TECHNOLOGY** IN THE AREA OF SURFACE TREATMENT

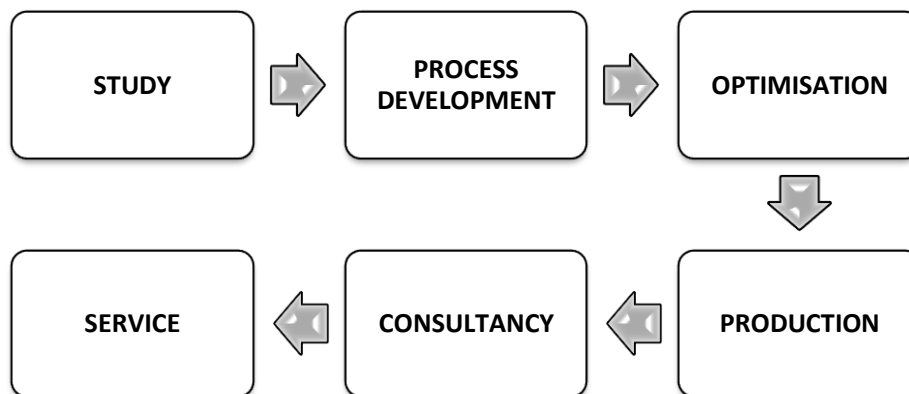
SERVICE	surface treatment of powder materials - additives (from 5 to 150 µm)
PURPOSE	wettability enhancement of particles (hydrophilisation) - solution for agglomeration, improvement of dispersion, elimination of chemical agents, reduction of material consumption, effective processing
APPLICATION	e.g. additives for paints and coatings, glues, polymers - waxes, UHMWPE; rubber crumb (SBR) - production of composites (in development)/producers, distributors, manufacturers, R&D institutions

SERVICE	surface treatment of powder materials – powders for rotomolding (ca 500 µm)
PURPOSE	surface wettability and adhesion enhancement; effect stays also after sintering; direct adhesion to PUR foam without any pretreatment; cost reduction, elimination of thermo-degrading processes, wet-chemical methods, mechanical processes
APPLICATION	production of thermo-isolated boxes, seats, other PUR foamed products using rotomolding technology (LDPE, HDPE, LLDPE, PP)/producers using this technology, producers/distributors of rotomolding powders; area of adhesive bonding - plastic-metal - in development

SERVICE	surface treatment of plastic parts or components
PURPOSE	surface wettability enhancement; surface activation prior to printing, gluing or painting; surface cleaning from oil, dust, etc. (PE, PP, TPU, ABS, PTFE, PBT, PA 66, PEEK, ...)
APPLICATION	producers of plastic parts for medical purposes, automotive, mechanical engineering industry (e.g. catheters, sealing, inserts, nonwovens, membranes, foils,...)/ R&D institutions

PRODUCTION	equipment for plasma surface treatment – vacuum chambers (MA III, LA 400, ST 650, ST 1000); atmospheric plasma nozzle (GVN1k-2011) or “tailor made” solution
	reconstruction of the current device - adaptation to different technologies or substrates
APPLICATION	producers mentioned above with interest or need of their own plasma equipment, R&D institutions, universities
DISTRIBUTION	microwave sources (European patent EU 2189047, US Patent No. US 8,299,714 B2)
APPLICATION	Universities - technical and scientific faculties, R&D institutions (centers), Academy of Sciences

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- our service includes:
 - tests on delivered samples
 - verification series
 - quality certificate
- equipment delivery includes:
 - installation
 - commissioning of the system
 - training
 - start-up support

We look forward to new ideas and cooperation.