

*Time for Progress...*

## Mineral resources

Screening solutions

**Progress Eco** is the leading Polish producer of technical sieves, wedge and woven wire, plastic and rubber screens, tubes, meshes, as well as servicing and consulting services in the field of separation, classification, filtration and dewatering.

For more than 20 years we have gathered very precious experience concerning classification of all currently produced aggregates. We know how important it is to choose a proper industrial screen and its parameters. Nowadays, when the demand for high quality aggregates is still growing, we offer a wide range of industrial screens. Our screens are used for screening limestone, sandstone, dolomite, porphyry, diabase, quartzite, granite, melaphyre and gabbro.



Producer of industrial screens

[www.progress-screens.com](http://www.progress-screens.com)

# Complex product offer

## WOVEN WIRE SCREENS

<b>Description</b>	Woven wire screens, single and double crimped, are available in two versions - with square and rectangular meshes. They are characterized by good division of grain classes and high clearance per m <sup>2</sup> of a screen. This type of screen is widely used among steel screens.
<b>Application</b>	Screening of wet and dry materials, difficult to classify.
<b>Material</b>	Abrasion-resistant spring steel with high strength, stainless steel, carbon steel
<b>Mesh sizes</b>	1,0 - 100 mm
<b>Wire diameters</b>	0,8 - 6,3 mm
<b>Supported dimensions</b>	width. 4000 mm or according to customer requirements, in rolls or formats
<b>Assembly</b>	Screen sheets pressed to the riddle by pressing beams or screens with hooks tensioned by tensioning bar - optimal. Available side and end tensioning.



## FLAT TOP SCREENS

<b>Description</b>	Due to appropriate pressing of matrix and weft, screen surface is smooth and mesh is very stable. They are characterized by flat surface and are produced thanks to appropriate pressing of matrix and weft. Stable mesh makes the screen more effective and durable.
<b>Application</b>	Grainy materials screening, gravel, crushed aggregates, slag etc.
<b>Material</b>	Abrasion-resistant spring steel with high strength, stainless steel, carbon steel, aluminum
<b>Mesh sizes</b>	10,0 - 150 mm
<b>Wire diameters</b>	2,5 - 12,0 mm
<b>Supported dimensions</b>	According to customer requirements
<b>Assembly</b>	Screen sheets pressed to the riddle by pressing beams or screens with hooks tensioned by tensioning bar - optimal. Available side and end tensioning.





## HARP SCREENS

<b>Description</b>	They belong to woven screens group. Due to their structure, i.e. vertical and horizontal wavy wires and connection methods, they are characterized by very good self-cleaning qualities.
<b>Application</b>	Screening of wet and dry materials, difficult to classify.
<b>Material</b>	Abrasion resistant spring steel, stainless steel Steel, rubber or polyurethane patches.
<b>Mesh sizes</b>	1,8 - 35,0 mm (Type K - square), 1,2 - 20,0 mm (Type T - triangular)
<b>Wire diameter</b>	0,8 - 6,3 mm (Type K), 1,0 - 4,0 mm (Type T)
<b>Supported dimensiones</b>	Sheets: Width: up to 2000 mm Length: according to the order Because of their structure the screens are produced only with stretching catches.
<b>Assembly</b>	Side or end tensioning. The tensioning itself has to be proportional to wire thickness and screen's dimensions in order to guarantee optimal work parameters and self-cleaning effect.



## PIANO SCREENS

<b>Description</b>	Straight wires placed on supports of the screening machine and tensioned with the help of the hooks. Characteristic is biggest open area per 1 sqm and its self-cleaning qualities.
<b>Application</b>	Screening of materials which are difficult to classify.
<b>Material</b>	Abrasion resistant spring steel, stainlees spring steel. Steel, rubber or polyurethane patches.
<b>Opening sizes</b>	1,2 - 55,0 mm
<b>Wire diameter</b>	0,8 - 8,0 mm
<b>Supported dimensiones</b>	Width: up to 2000 mm Length: according to customer's demands Because of their structure the screens are available only with hooks for end tensioning.
<b>Assembly</b>	In order to guarantee optimal durability of screens it is necessary to use protective rubber protection profiles on supports and place polyurethane / rubber patches where the screen contacts supports.



## PERFORATED SCREENS

<b>Description</b>	Perforated screens, produced as metal plates of various thickness are made of mild, manganese, stainless and acid-resistant steel. Different types of perforation is available: staggered, diagonal and square pitch. We offer various formats and hole sizes.
<b>Application</b>	Preliminary classification, powdery materials classification.
<b>Material</b>	Carbon steel of regular quality, abrasion resistant steel, stainless steel, acid proof steel, color metals.
<b>Hole sizes</b>	round holes – 0,5 - 120 mm slotted holes – 1,0 x 20,0 up to 30,0 x 65,0 mm square holes – 3,0 x 3,0 - 150 x 150 mm hexagonal holes – 8,0 - 65,0 mm
<b>Supported dimensions</b>	According to customer's demands. Metal plate's thickness: steel ones 0,5–16,0 mm, acid-resistant ones 0,5–8,0 mm and made of non-ferrous metals 0,5–4,0 mm.
<b>Assembly</b>	Perforated sheets are screwed directly to the sieve, pressed by side beams or fixed by welded hooks and tensioning bars.



## FINGER SCREENS

<b>Description</b>	Finger screens are also called rod screens and made by segments of rods fixed on one side to rubber profiles.
<b>Application</b>	Preliminary classification, clayed materials sorting, recycling
<b>Material</b>	Manganese steel
<b>Opening sizes</b>	10,0 - 150 mm
<b>Wire diameter</b>	8,0 - 40,0 mm
<b>Supported dimensions</b>	Fixing width: to 630 mm Length: depending on gap size and wire thickness
<b>Assembly</b>	Cascade fixing to the screen's transverse beams.





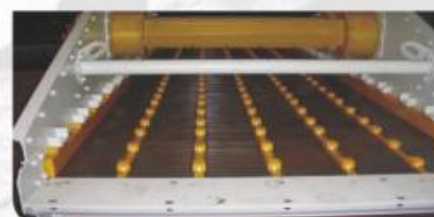
## PROGRESS TYTAN PRESSURE WELDED SCREENS

<b>Description</b>	They are made by pressure welding of straight, round and profiled wires. Resistant to vibrations, with high open area, for precise screening, with high durability.
<b>Application</b>	Grainy materials screening, gravel, crushed aggregates, slag, ores, etc.
<b>Material</b>	Manganese steel, stainless steel
<b>Apertures</b>	7,0 - 200 mm
<b>Wire diameter</b>	4,0 - 22,0 mm (straight or stamped, round, profiled: HT and GZ type)
<b>Supported dimensiones</b>	Width max. 1500 mm; Langht - according to customer's demands
<b>Assembly</b>	Screens fixed directly to the sieve, pressed by middle and/or side beams or fixed by welded hooks and tensioning bars. Rigid fixing is required.



## WELDED SLOTTED SCREENS Pro-SLOT®

<b>Description</b>	The production technology comprises of welding a special profiled working wire to a system of structural wires at each crossing. As a result of this process we receive an exceptionally strong screen which is able to withstand heavy loads.
<b>Application</b>	Material dewatering, classification, screening and drying.
<b>Material</b>	Stainless steel: AISI 304 / 1.4301, AISI 316L / 1.4404, AISI 316Ti / 1.4571, AISI 430 / 1.4016 and many others; carbon steel
<b>Slots</b>	from 0,05 mm
<b>Working wires</b>	Size, type Sb: Sb6, Sb8, Sb12, Sb18, Sb 22, Sb28, Sb34, Sb42, Sb60, Sb70, SbA50 and the special wires type Sbb: Sbb34, Sbb38, Sbb42, Sbb48, Sbb50, Sbb76, 2,4x5, 3x6,5. *Other wires available on a special request - see our Wedge Wire Screens catalogue for more info.
<b>Supported profiles</b>	max 3500 x 4000 mm



## RUBBER MODULAR SCREENS

Description	Made as modules with fixing that allows to vibrate as membrane.
Application	Alternative for metal and polyurethane screens – natural and crushed aggregates screening, coax, coal, ores, etc.
Material	Abrasion resistant rubber.
Apertures	2,0 - 95,0 mm
Supported dimensions	According to customer's demands max 300 x 500 mm
Assembly	Pressed into substructure of the sieve made of profiles. No other fixing parts / accessories required. Possible to replace single units.



## RUBBER TENSIONED SCREENS

Description	Perforated rubber mats with cord reinforcement. With self-cleaning ability and noise reduction. The offer also includes rubber mats applicable, inter alia, for lining hoppers and bins charging.
Application	Alternative for metal and polyurethane screens - natural and crushed aggregates screening, coax, coal, ores, etc.
Material	Cord reinforced abrasion resistant rubber.
Apertures	4,0 - 200 mm (square, rectangular, round mesh)
Supported dimensions	Individually prepared according to machines' dimensions and working conditions.
Assembly	Made with hooks to replace steel screens with no interference into the sieve's structure. Different types of side and end tensioning available.

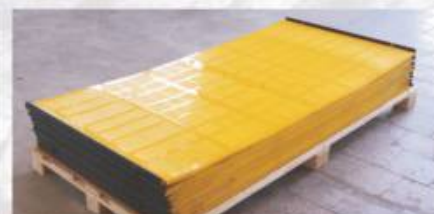
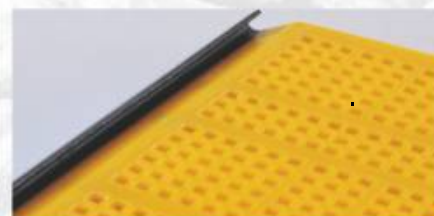




## POLYURETHANE TENSIONED SCREENS AND MATS

Pro-FALC<sup>PU</sup> / Pro-MAT<sup>PU</sup>

<b>Description</b>	Progress offer includes polyurethane screens with side and end tensioning. Polyurethane surface is produced as one piece.
<b>Application</b>	Wet and dry classification of the aggregates. Classification, refining and dewatering of crushed aggregates, of carbon, ores, cinders and other grain materials. Application up to ~80°C.
<b>Material</b>	Polyurethane elastomer A- and B-type. Hardness: 45°-95° Sh, additional steel reinforcements
<b>Apertures</b>	1,1 – 160 mm (square, slotted) Straight and staggered apertures.
<b>Thickness</b>	20 - 60 mm
<b>Supported dimensions</b>	max 1900 x 3000 mm
<b>Assembly</b>	Fixing possible with no interference into the sieve's frame - simple replacement for the steel screens. Fixing rules for tensioned polyurethane screens: - tensioned by tensioning bars (hooks up for side tensioning and hokks down for end tensioning) - recommended elevation of the supports: 20 mm / 1 m - recommended application of support protecting profiles - no drilling allowed (reinforcement inside might get damaged)



## POLYURETHANE SCREENS

Pro-CLEAT<sup>PU</sup> / Pro-CLIN<sup>PU</sup> / Pro-LINE<sup>PU</sup> / Pro-STEP<sup>PU</sup> / Pro-DECK<sup>PU</sup>

<b>Description</b>	Progress offer includes all available and known polyurethane screen module systems.
<b>Application</b>	Alternative for rubber and metal screens. Used for "wet" screening – sand, gravel, pebble.
<b>Material</b>	Polyurethane elastomer A- and B-type. Hardness: 45°-95° Sh A Additional steel reinforcements
<b>Aperture</b>	0,25 - 160 mm (square, sloted) Straight and staggered apertures.
<b>Tthickness</b>	30 - 60 mm
<b>Supported dimensions</b>	Standard: 300 x 1000 mm for middle modules for external modules – adapted to the screening machine
<b>Assembly</b>	Assembly is possible on all types of currently used fixing systems. The offer includes a whole range of polyurethane adapters.



## SERVICE

We offer production of new and modernization of already working processing plants for coal and mineral resources in range of screening, crushing, enrichment, dewatering, dosing, transport or storing.

All our workers are committed in the process of creating quality, from the moment of obtaining the order, through advisory, projects, material purchase, production and control up to delivering a ready product to our clients, assembly and maintenance.



## ASSEMBLY

As the authors of solutions and their manufacturer we feel obliged to provide our customers with permanent support concerning our products. As we are sure of their functionality, we would also like to be sure that our customers make good use of our products' advantages. Our service team provides professional and quick assembly and guarantees finishing our projects on time and as fast as possible.



## PRODUCTION

Full technical support and machine stock combined with experienced design and process engineers enable us to guarantee complex realization of our projects. From 1996, high quality of our products is also supported by Quality Management System according to ISO 9001:2000 confirmed by Lloyd's Register Quality Assurance.



## CONSULTANCY

We offer full consultancy in order to choose technical screens and find solutions within the scope of screening, classification, dewatering and filtration. We guarantee help of process engineers and technical consultants who will offer a proper solution.

