SPRINTER MARKING

MEDIA SERVICE GRULMS ©

Machine Selection Guide
Marking Units


Sprinter Modell 616

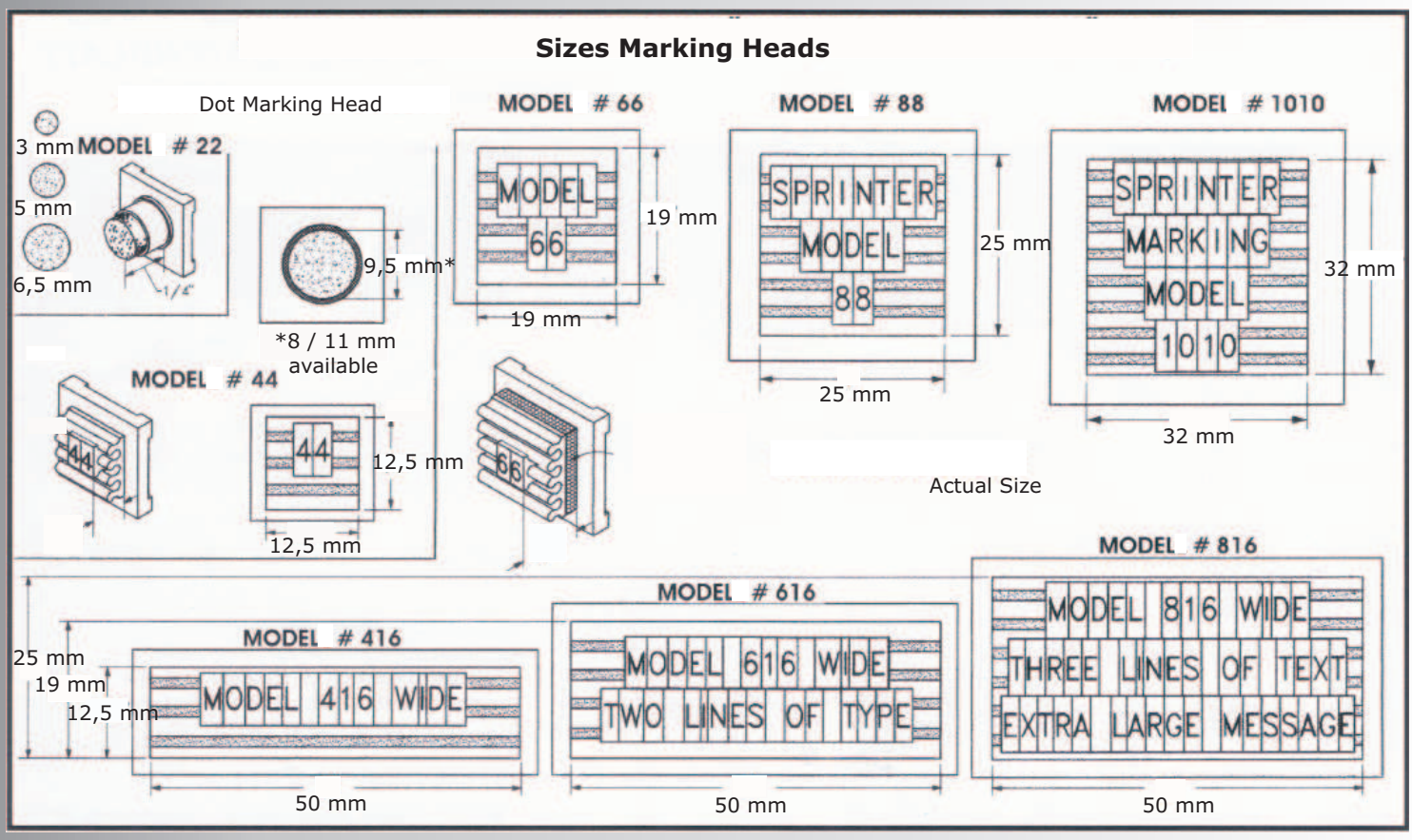
Applications

- Date / Product coding
- Dot Marking
- Logos /Symbols
- Lot-Numbering
- Part Numbering
- Consumption Dates

Products Marked

- Plastics / Metal
- Glass
- Rubber / Paper / Cardboard
- Foils
- Containers

Machine Selection Guide



Illustrated above are the different standard machine model marking head formats based upon print size area.

Please note that the rubber type shown above is not for character sizing purposes. Please refer to the chart below, which shows the number of characters per line of type by machine model.

Model		44		66		88		1010		416		616		816	
Character Size	**Height**	**W**	**8**	**W**	**8**	**W**	**8**	**W**	**8**	**W**	**8**	**W**	**8**	**W**	**8**
s	1,6mm	4	5	5	7	8	10	9	13	17	22	17	22	17	22
s	2,0mm	4	5	5	7	8	10	9	13	17	22	17	22	17	22
S	2,8mm	3	5	4	7	6	10	7	13	13	22	13	22	13	22
S	3,2mm	3	4	4	5	6	8	7	9	13	17	13	17	13	17
S	3,6mm	3	5	4	7	6	10	7	13	13	22	13	22	13	22
S	4,8mm	2	4	3	5	5	8	6	9	11	17	11	17	11	17
S	6,3mm	2	3	3	4	4	6	5	7	9	13	9	13	9	13

Speed / min	350	250	225	200	200	175	150

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For messages that are assembled using rubber type kits (letter / number kits), consideration has to be given to the number of lines and the number of characters per line to properly select minimum size marking head / machine. Rubber type is secured by ribs which lock into a ribbed rubber mat. The seven sizes of type described above contain two ribs. Larger types contain a minimum of 3 ribs. Please consult us for guidance on machine selection based upon message size content. Some of the most common sizes of types are 3 as well as 3,5 mm, which typically provide a clear, easily readable ink-code mark on a variety of surfaces.

The number of characters per line varies depending on the size of type selected. The above chart shows approximate character height for the letter ”S”. The chart also provides a guide to both typical (”8” was selected) and maximum (”W” is widest) characters that can be accommodated by a specific marking unit.
It is recommended to select the next larger model on tight fits.

Technical Data

Power: compressed air - 1,4 bar (Model 22: 2,8 bar).

Ink Supply: Models 22, 44, 28 and 416 use a 7,5 ml ink supply bottle, while models 66, 88, 1010, 616 and 816 use a 15 ml bottle. Filled bottles typically provide up to 125.000 imprints of an average length message size on Model 66. Average number of imprints can vary with message and model selection.

Machine mounting options: the brackets provided with each machine assure the marking head can be aligned and positioned accurately with the surface to be marked. The brackets will allow for changes in parameters of manufacturing conditions and easy repositioning on job changes.

Each bracket provides a five-axis (two pivoting, three sliding) adjustability. In addition to the micro-adjustability and swiveling action, each bracket has a front-to-back and left-to-right 8 mm range of travel to allow quick repositioning of the marking head.

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Features	Benefits
Machine	
•Simple design	•Smooth / repeatable marking
•Compact design	•Mounts in confined areas
•Lightweight marking head	•Low pressure needed
•Hardened wear surfaces	•Millions of cycles
•Hardened rods / bearings	•Minimum wear
Machine action	
•Double acting air cylinder	•Controlled cycling action
•Small air cylinder	•Minimal compressed air
•Unique / patented motion	•High speed marks
•Specially designed spring	•Millions of cycles before wear
•Magnet-on-piston air Cylinders (optional)	•Hall-Reed effect to sense positions
•Flow controls mount on Air cylinders	•Variable speed control
Marking Head	
•Removable/Rotatable Marking Head	•Quick message changes
•Rubber marking types	•Excellent ink imprints
Ink Supply	
•Quick-change ink reservoir	•Fast change of ink supply
•Sealed ink systems	•Immediate start-up
•Quick-change ink pad	•Uniform print quality
•Clear ink bottle	•Supply level visible
•Screw-on ink bottle	•Quick and easy changes
•Modified reservoir (optional)	•Upside down marking
Mounting arrangement	
•Bracket with micro-adjustability	•Complete range of alignments

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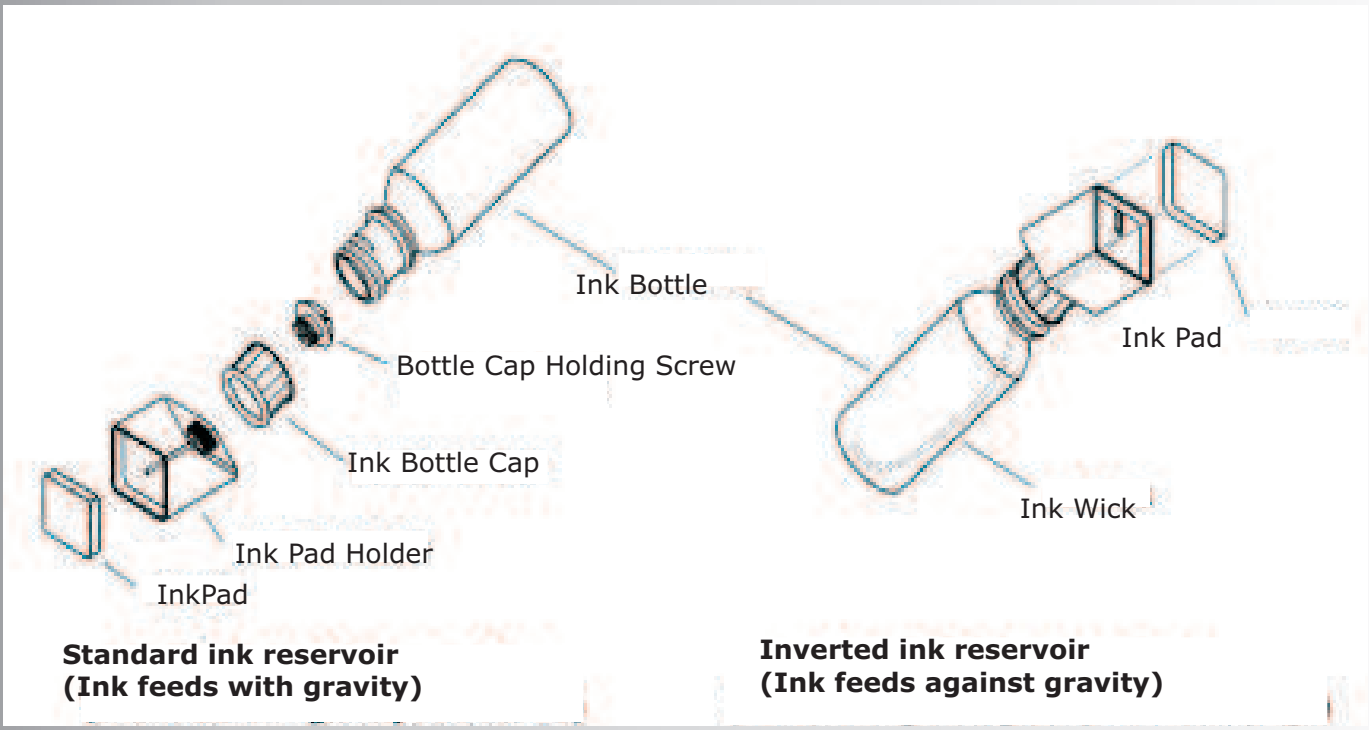
Ink Reservoir Assemblies



Standard ink reservoir
(Ink feeds with gravity)

Inverted ink reservoir
(Ink feeds against gravity)

Modified Machine Models

Extended Head and Stroke Models

Most models can be extended in the rod stroke length. Additionally the marking head itself can be extended for difficult to reach or recessed areas. Please note extended machines may have correspondingly higher overall heights and somewhat slower cycle speeds.

Made-to-order Models

Many models have been made to fit specific marking applications.

Examples are:

-Split reservoirs for multiple color printing
-Metal heads (for soft surfaces)
-Special marking heads for marking on tubular surfaces

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Additional Information

Machine mounting orientation

The ink supply from the ink bottle to the ink pad is gravity fed on standard models. Any mounting orientation is possible as long as ink is being bed by gravity. In upside down mounting orientation a wick is used in the reservoir assembly to assure continuous fed of the ink pad.

Machine Cycling Options

We recommend usage of 4 way valves for machine cycling. These valves ensure usage of marking units especially in existing production environments.

Machine Installation

In addition we recommend a manual override switch near the operator station to extend the marking head for positioning of marking head to surface. Additionally a shut-off valve to release air pressure from retracted marking head should be provided. This allows operator ease of extending marking head to remove the marking head for message changes.

Ink Types

We offer a wide variety of inks to mark virtually any surface. Normally standard alcohol based ink grade meets most customer's requirements. These inks typically are dry-to-touch in 2 seconds or less on most surfaces.

Ink Color Chart (colors may vary slightly)

White | Black | Red | Green | Grass Green | Lime Green | Brown | Tan

Blue | Light Blue | Pink | Purple | Violet | Orange | Yellow | Canary Yellow

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