

Title (en)

Machine assembly for sheet metal forming with a sheet metal forming unit and with a transport device

Title (de)

Maschinelle Anordnung für die Blechbearbeitung mit einer Blechbearbeitungseinrichtung sowie mit einer Transportvorrichtung

Title (fr)

Agencement mécanique pour le traitement de tôle à l'aide d'un dispositif de traitement de tôle ainsi que dispositif de transport

Publication

EP 2050523 B1 20091104 (DE)

Application

EP 07020571 A 20071020

Priority

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Abstract (en)

[origin: EP2050523A1] The transport unit (2) includes workpiece carriers (8) on which the sheet metal workpieces (7) is laid. The workpiece is moved along a transport path running along first and second transport lines (X, Y). A transport track (3) is provided for each workpiece carrier, with guides parallel to each of the X and Y lines. Using a transfer device, the carrier is associated with either guide. The transport unit has a transporter for the carrier. During movement of the carrier along its path, it is loaded. After loading, the workpiece moves along the path with the carrier. Additionally or alternatively the carrier, by its movement along the path, is unloaded from the transporter. The track for the carrier is provided over the extent of at least one guide section on the transporter. A guide section of the transport track, which is provided on the transporter, is of identical construction with a part of the remaining track. The transport track for the workpiece carrier is formed in part by a guide for the transporter. The guide section on the transporter and the guide for the transporter are mutually offset in the vertical direction. The workpiece carrier is optionally assigned to the X or Y guide of the transport track during loading or unloading. The carrier and transporter have bearings, by means of which either or both is moved on the X or Y guides of the transport track. The workpiece carrier and/or the transporter have the X bearing associated with the X guidance and the Y bearing allocated with Y guidance. Further details of the arrangement are elaborated, in accordance with the foregoing principles. Salient feature include devices in the transfer unit, which are used to swing and lift between guidance of differing heights and orientations. Motorized- and chain drive systems are included. Pneumatic or hydraulic drives may be used.

IPC 8 full level

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CPC (source: EP US)

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