

Pos.	Art.No.	Qty.	Description	Price USD
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Thank you for your interest in ENGEL machines.
We are pleased to offer the following quotation.

01	d003488090		ENGEL INJECTION MOULDING MACHINE duo 7050/770 pico US	
02	d010500500		Engel North America molding machine package: - Nozzle body with interchangeable tip, 3/4" radius and 1/4" orifice. Nozzlebody-to-tip thread is 7/8"-14UNF. Barrelhead-to-nozzle body thread 1 3/4"-8UN-2A (unit 1) - Mechanical safety device for closing - 480V/3P/60cy incoming voltage and 480V barrel heat with 120V nozzle heat - Electrical equipment for USA and Canada - ANSI B151.1 compliant - electric cabinet execution according UL 508 A - Solid purge guard cover, with PC-window - SPI mold mounting and ejector pattern - Hydraulic ejector (platen ejector as option from 2200 US to), ejector holes are counter bored through holes for 3/4" screws. - Tool kit containing allen and open end wrenches	

Injection unit:

Short design with 2 hydraulic-cylinders for injection, direct drive of screw
Specific injection pressure switchover
Barrel removal to the top
Ceramic heaterbands
For processing of thermoplastics
regulated traverse cooling

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			Melt barrel and screw, diameter 105 mm Barrel in bi-metallic-execution M3, higher abrasion- and corrosion resistant, working range up to 350 degrees C	
03	d050505345		barrel L/D 25 - 105 mm incl. 1 additional barrel heating	
04	d050513662		Barrier-screw S13 with B-mixing head L/D 25 - diameter 105 mm incl. check valve R9b	
05	d050541400		add. price for corrosion resistant barrelhead	
06	d050543549		Pneumatic shut off nozzle Nozzle tip thread 7/8"-14 UNF Nozzle radius 3/4" Nozzle orifice 1/4" OPT125222	
07	d059045300		insulating pads for heaterbands	
08	d059045900		Hopper support, moveable (hopper not included in shipment)	
09	d059046100		magnetic grid	
10	d059046600		speed controlled electrical screw drive nominal motor value 107 kW torque 8000 Nm 60 % by working of operating time from cycle Hint: for FI fused voltage network the main supply situation has to be discussed with the customer.	
11	d059046800		additional price for electrical screw drive in US-execution	
12	d059070150		Maintainance and service platform (fixed ladder with platform) for manual filling of the hopper	

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according EN ISO 14122 1-4 and EN 201/20xx.
(ES 7050/. - ES 11050/.)

Clamp unit:

Fully hydromech. clamp unit in 2-platen exec.
4 short stroke pressure pads on nozzle side
4 adjustment nuts on ejector side
2 fast movement cylinders placed diag.
High base drop out area at operator,
non-operator and front side
Hydraulic platen ejector,
Platen stroke dependent on mold height.
Moveable platen guided on base.
Clamp force: 7000 kN (770 US Tons)
Technical data and standard equipment
according to data sheet

13	d100043020	corepull single on movable platen (Euromap 13 / AN-147)
14	d100043025	corepull additional on movable platen
15	d100043030	corepull single on fixed platen (Euromap 13 / AN-147)
16	d100043046	pressure release for all corepulls on movable platen
17	d100043047	pressure release for all corepulls on fixed platen
18	d100043081	enlarged mold height 200 mm variety "A" according to technical sales manual (min. mold height remains std., max. mold height increases, platen stroke increases, max. daylight increases, clamp unit will be longer)

Hydraulic:

electrically adjustable variable displacement pump
with pressure and volume regulation
Closing movement with position controlled
proportional valve

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			injection with servo valve for injection speed and holding pressure parallel movement for ejector, corepull, injection unit forward during opening, closing	
19	d150043050		N-execution	
20	d150043160		external oil filter station 3-R BU-100	
21	d150070400		ecodrive - innovative speed controlled drive concept with servodrive and operating point optimization (for best overall efficiency through servodrive speed control adjustment and pivoting angle of variable pump). Program ecograph is necessary in addition (according price list). Electric: integrated control cabinet Connection for heating and power not separated	
22	d200003150		interface for conveyor belt execution with switchable socket	
23	d200003300		adapter corepull limit switch Euromap 13 - Amphenol	
24	d209990009		120 vac outlet "Hot" during screw turn with signal located near hopper 120 vac dry contact for color feeder located non-op side injection casting OPT125223 Control:	
25	d250000155		CC200 control package including: - "Windows" style display with 15" TFT-color Touch Screen - Data storage via USB interface - Ethernet network interface - Freely programmable cycle sequence supported	

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			by graphical symbols - Screen pages configurable - e-help - Notepad - Alarm Messaging via Email - weekly timer - Micrograph - Microplast - PD-log Screen text english: EN spanish: ES	
26	d250001800		ecograph for energy analysis of IMM	
27	d250003165		Interface for integrated ENGEL robot incl. 1 triggered receptacle for conveyor belt, 3 Phases, 15 AMP	
28	d250003870		interface for potential free contacts (terminal strip) - freely programable (4x digital output, 4x digital input)	
29	d250004010		program optimum motor capacity control during feeding	
30	d250011400		program "virt mould" for viewing and revising of parameter settings and for process opti- mization on PC incl. simulation	
31	d270004230		ServiceBox for e-service.24 Allows Remote Service for up to 20 machines	
			General: Machine without oil filling (Start-up with zinc containing oil) Machine description english Manual, 2 copies	
32	d300043027		Pneumatic air supply maintenance unit (Filter/Regulator)	

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33	d300043031	4	Solenoid operated pneumatic valve 5/2-ways, R1/4" ports, mounted on stationary platen. For airblow only. (1.000,-)	
34	d300043032	4	Solenoid operated pneumatic valve 5/2-ways, R1/4" ports, mounted on moving platen. For airblow only. (1.000,-)	
35	d300043047		machine support pads	
36	d300065490		Painting Standard	
37	d300080000		If the machine will be delivered with robot, it will not be installed onto the machine for pre-acceptance at ENGEL Austria	
38	d390007300		pneumatic shut off nozzle control 4-fold	
39	d400012979		Interface for magnetic quick mold mounting system Euromap 70.0 OPT130149	
Gross price				
- special discount				
- special discount				
discount transport costs				
Net price				
transport skid incl. corrosion protection (foil)				
+ transport costs				
+ starting up-costs				
2 years e-Service.24				

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Delivery price

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Delivery time:

Shipment in week 04/2013
(clarification of all technical/commercial details)
Precondition for meeting the quoted delivery time is the entire technical and commercial clarification by both contractual partners as well as the compliance of the buyer with his obligations to co-operate.

Delivery:

Delivery as mentioned on header under the term CW (KW) is the week of ex works Austria. Approximate transit time to North America is 4 weeks.

Training:

2 weeks process training at no charge(travel expenses to be paid by Monoflo): 1 week training in Winchester and 1 week training in Ottawa, KS.

The training will be coordinated by our Customer Service Division (CSD)
Please contact Tina Holman at
(717) 764-6818 (x4303) or via email at
Tina.Holman@engelglobal.com

Shipping Terms:

CIP Carriage and Insurance Paid To Ottawa, KS via truck and through the port of Houston offloading, rigging and siting are not included. Equipment will be de-containerized and loaded onto flatbed trailers with proper securing and covering at Port of Entry prior to delivery to destination address.

Delivery and rigging costs quoted are an estimate only, and may be adjusted at time of shipment due to fluctuating fuel costs or other unforeseen circumstances.

Payment Terms:

30% down payment with order.

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60% due prior to shipment.
10% Due after final acceptance at customers
plant, but latest 30 days after delivery.

NOTE: UCC / PPSA filings are mandatory. Credit
application is required for new customers.

Interr. Charge: If the order is placed on hold, cancelled or if machine design changes are requested after commencement of engineering and/or manufacturing, the Buyer will be responsible for an interruption charge on all or part of the order to cover such other additional expenses relating to production rescheduling, additional set-ups, handling, storage, inventory costs, obsolescence etc.

Currency: US Dollars

Purchase Order: All orders are executed by Engel Machinery Inc.
Kindly remit your Purchase Order to:

Engel Machinery Inc.
3740 Board Road
York, PA 17406
U.S.A.
Fax: 717 764 8093

All order confirmations will be issued by Engel Machinery Inc.

Taxes: Extra, if applicable. Prices do not include any taxes, such as sales tax, etc. Sales taxes payable in your area must be charged by us unless we are in receipt of your tax exemption certificate. All taxes due net 30 days.

Duty: Not applicable.

Conditions: If a unit is ordered, the purchaser covenants at any time, on request, to execute such documents as will be required in order to enable the vendor to register this agreement under the applicable

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law of the relevant jurisdiction. Acceptance of the order subject to credit approval. Acceptance of order will also signify acceptance of Engel Machinery Inc. "Terms and Conditions of Sale".

Validity:

Please note that the above quotation is valid for a period of 30 days.

Start Up:

Start-up and basic overview of the control system of the machine on your plant floor is 4 days. The cost includes all travel expenses. This service is provided by our technical service engineers. Additional Engel training seminars are available at an extra charge.

Installation:

The physical mounting, rigging and/or assembly of Engel equipment and automation including guarding at the customer's plant is not included in the attached proposal, unless otherwise noted and charged. When Engel automation is purchased with a new machine, the connection of the automation controls is included, after the customer has mounted the robot. Any additional technical requirements beyond the attached proposal will incur extra charges.

Warranty:

Machines are covered by a full 37 months warranty covering parts and a "leak free" hydraulics warranty and a full 13 months covering labor. This warranty does not apply to any customer supplied parts, devices or equipment, or any common wear items.

Service/Parts:

ENGEL offers an extensive network of trained technical service personnel to assist our customers. Spare parts associates are readily available to handle your requests promptly and effectively.

Comments:

Prices and specifications are subject to change without notice. Any additional electrical

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requirements to comply with local electrical
authorities will be charged extra.

Closing:

We thank you for this opportunity to quote and
hope the above and enclosed will meet with your
satisfaction and approval. Should questions
arise or if additional information is required,
please do not hesitate to contact our office
directly, at any time.

Sincerely,

ENGEL MACHINERY, INC.