



High-pressure cleaning tool for machining center PAT.P

Boost *M*aster BMA



NEW

**CHANGING THE STANDARD
IN THE MACHINING PROCESS.**

Increased pressure and spray of coolant.
ATC compatible high pressure cleaning tool.



See Boost Master
in action!

MAX
15MPa
(Continuous operation)

Increased pressure and spray of coolant. ATC compatible high pressure cleaning tool.

Remove chips with precision aim.

Remove chips in 0.5 sec (Dia.7, depth 100 mm).

Consolidate operations and improve work.

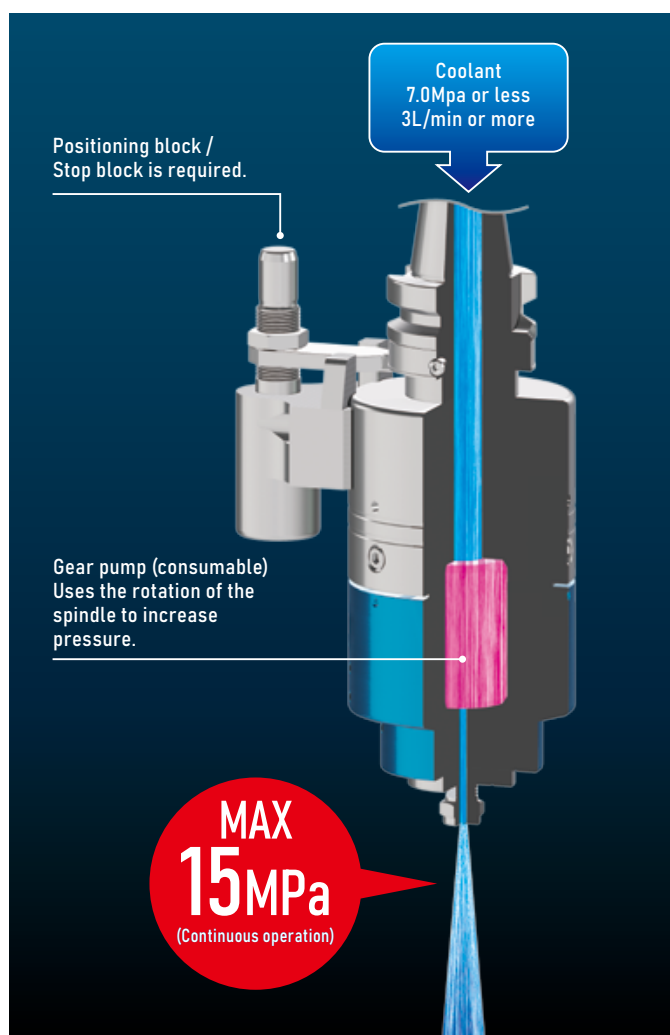
No need for high pressure washing machines, Machines are not left idle.

Implement energy and space saving.

There is no requirement for an extra high-pressure pump or cooling device.



Mechanisms



Specifications

Recommended Application Environment

Input (M/C output)	Recommended Rotation Speed *1	6,000min ⁻¹
	Coolant filtration filter	10μm or less is recommended.

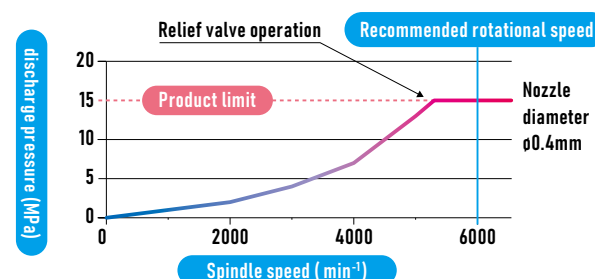
Oil skimmer or other oil removal equipment is recommended.

Do not use this product on machines that process castings. Casting powder in the coolant may significantly reduce the product life.

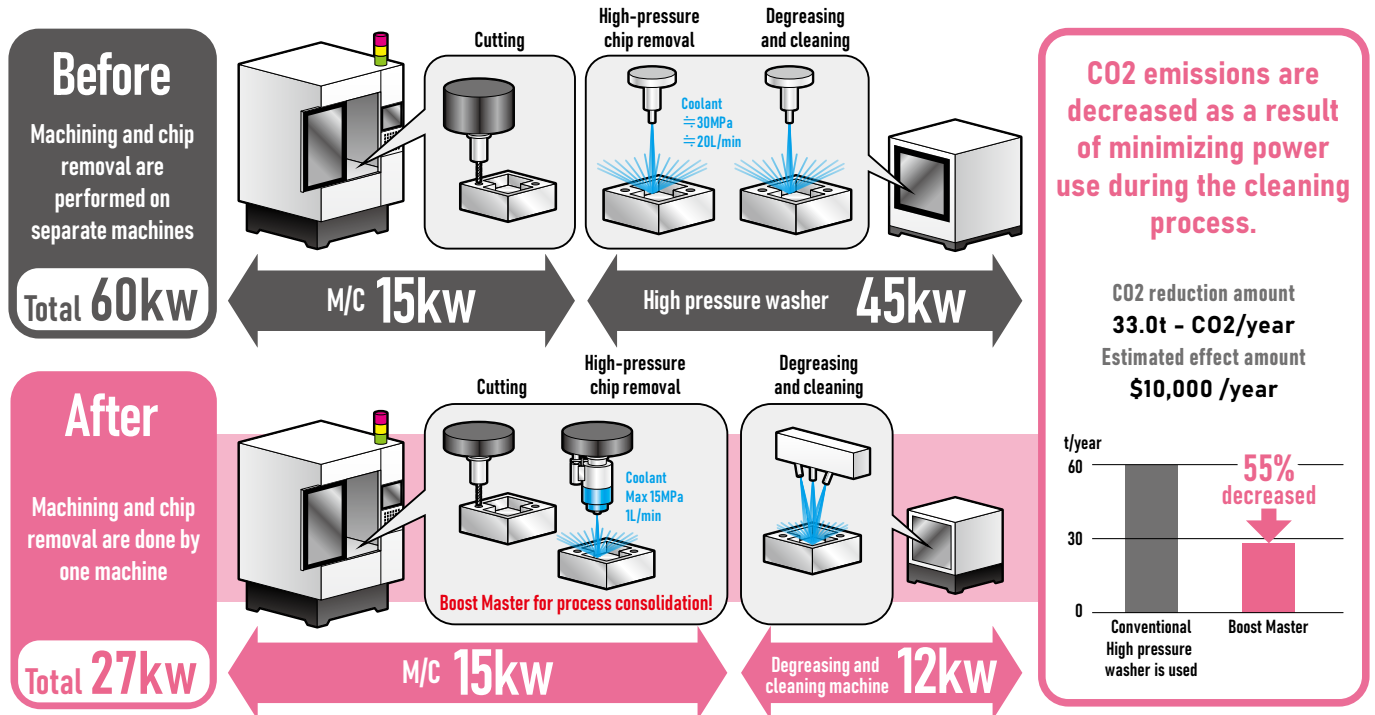
Specifications (standard specifications)

Input (M/C output)	Coolant input pressure	7.0MPa or less
	Coolant inflow rate	3L/min or more
	Coolant temperature	40°C or less
Output	Max. coolant discharge pressure	15MPa
	Discharge flow rate (at 15MPa)	1.23L/min
	Standard nozzle hole diameter	0.4 mm
Other	Coolant used	Water-soluble only (Dilution density 10 % or less)

Spindle speed and discharge pressure

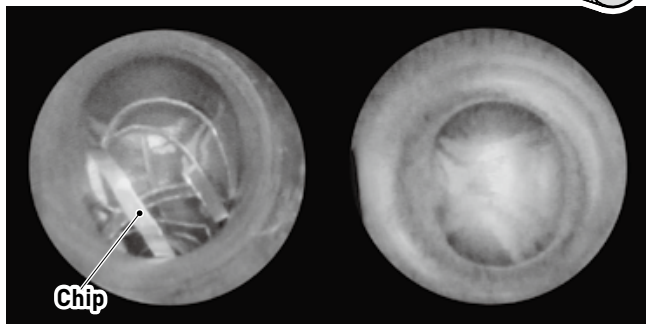
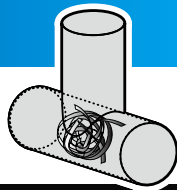


Example 1



Example 2

Remove chips from cross-drilled holes with M/C integration.
No longer a manual operation.

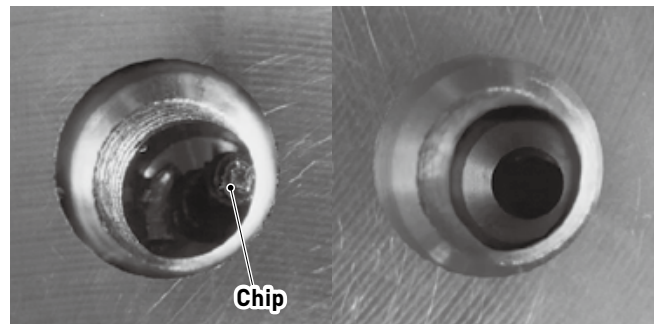


Before

After

Example 3

Remove chips from bottom tap holes with M/C integration. No longer a manual operation.



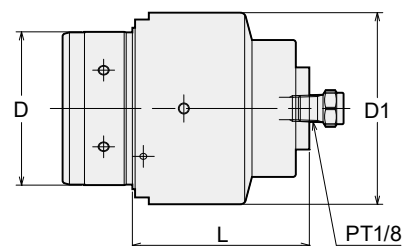
Before

After

Example of special products

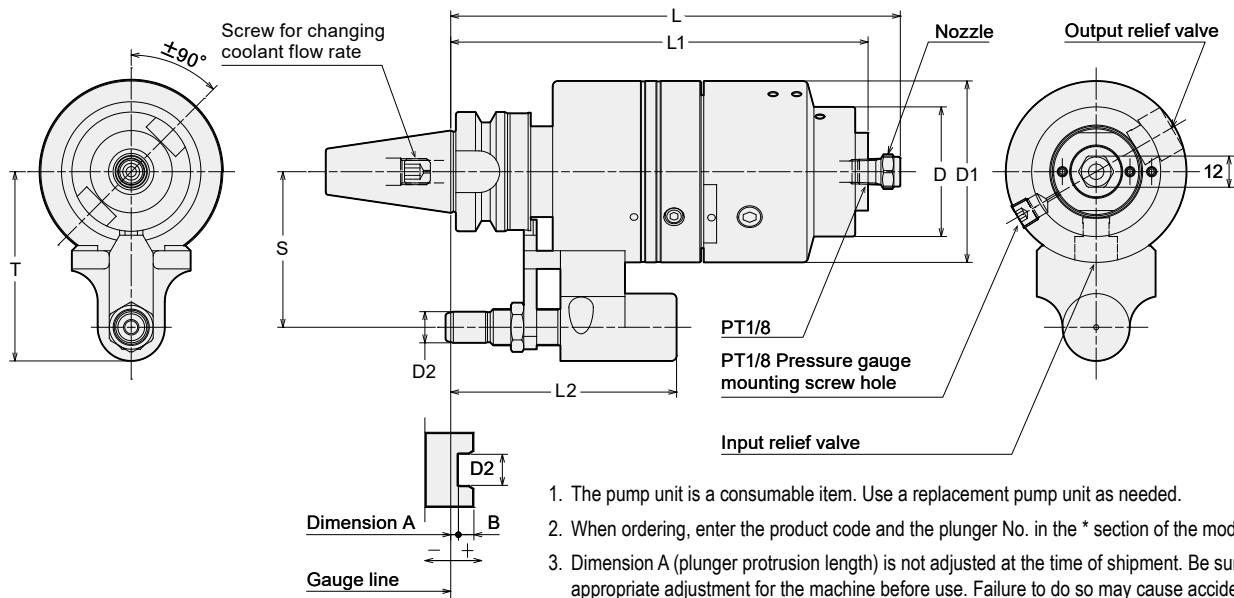


Replacement pump unit



Code	Model	D	D1	L	Nozzle diameter
2974 00101001	BMA-GP-1	56	70	64.5	0.4

The pump unit is a consumable item. Use a replacement pump unit as needed.



BT Shank		WBT Shank		D	D1	D2	L	L1	L2	S	T	B	Standard nozzle diameter	kg
Code	Model	Code	Model											
2970 001162 *	BT30-BMA-162-*	3380 001162 *	WBT30-BMA-162-*	50	70	12	(174)	162	88	60	73	6	0.4	2.5
2970 0013168 *	BT40-BMA-168-*	3380 0013168 *	WBT40-BMA-168-*	50	70	18	(179)	168	106	65	81	9	0.4	3.1
2970 0015177 *	BT50-BMA-177-*	3380 0015177 *	WBT50-BMA-177-*	50	70	18	(188)	177	115	80	96	9	0.4	5.5

Plunger selection table based on dimension A					
Shank	Plunger No.				
	1	2	3	4	5
BT30, WBT30	+9 ~ -0.9	-1 ~ -10.9	—	—	—
BT40, WBT40	+20 ~ +10.1	+10 ~ +0.1	0 ~ -9.9	-10 ~ -19.9	-20 ~ -29.9
BT50, WBT50	+28 ~ +18.1	+18 ~ +8.1	+8 ~ -1.9	-2 ~ -11.9	-12 ~ -21.9

Order Example

BT30 - BMA-162 - 1

Shank size Plunger No.

HSK • A Shank		D	D1	D2	L	L1	L2	S	T	B	Standard nozzle diameter	kg
Code	Model											
5940 1410165 *	HSK 50A - BMA - 165 - *	50	70	12	(177)	165	91	50	63	6	0.4	2.5
5940 7510166 *	HSK 63A - BMA - 166 - *	50	70	18	(178)	166	105	65	81	9	0.4	2.7
5940 7710167 *	HSK100A - BMA - 167 - *	50	70	18	(178)	167	105	80	96	9	0.4	4.1

• HSK63A, HSK100A have manual clamp holes in the shank.

Plunger selection table based on dimension A					
Shank	Plunger No.				
	1	2	3	4	5
HSK50A	+12 ~ +2.1	+2 ~ -7.9	—	—	—
HSK63A	+19 ~ +9.1	+9 ~ -0.9	-1 ~ -10.9	-11 ~ -20.9	-21 ~ -30.9
HSK100A	+22 ~ +12.1	+12 ~ +2.1	+2 ~ -7.9	-8 ~ -17.9	-18 ~ -27.9

Order Example

HSK50A - BMA-165 - 1

Shank size Plunger No.

UTS Shank		D	D1	D2	L	L1	L2	S	T	B	Standard nozzle diameter	kg
Code	Model											
1470 2010174 *	UTS6350-BMA-174-*	50	70	18	(185)	174	112	65	81	9	0.4	3.2
1470 2110174 *	UTS6350-BMA-174-H-*											

Plunger selection table based on dimension A					
Shank	Plunger No.				
	1	2	3	4	5
UTS 6350					
Low pressure type	+26 ~ +16.1	+16 ~ +6.1	+6 ~ -3.9	-4 ~ -13.9	-14 ~ -23.9
UTS 6350					
High pressure type					

The maximum coolant pressure of the UTS shank is 0 to 1.0 MPa for low pressure and 1.1 to 7.0 MPa for high pressure.

Order Example

Low pressure type : **UTS6350 - BMA-174 - 1**

High pressure type : **UTS6350 - BMA-174 -H - 1**

Shank size High pressure type Plunger No.

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