

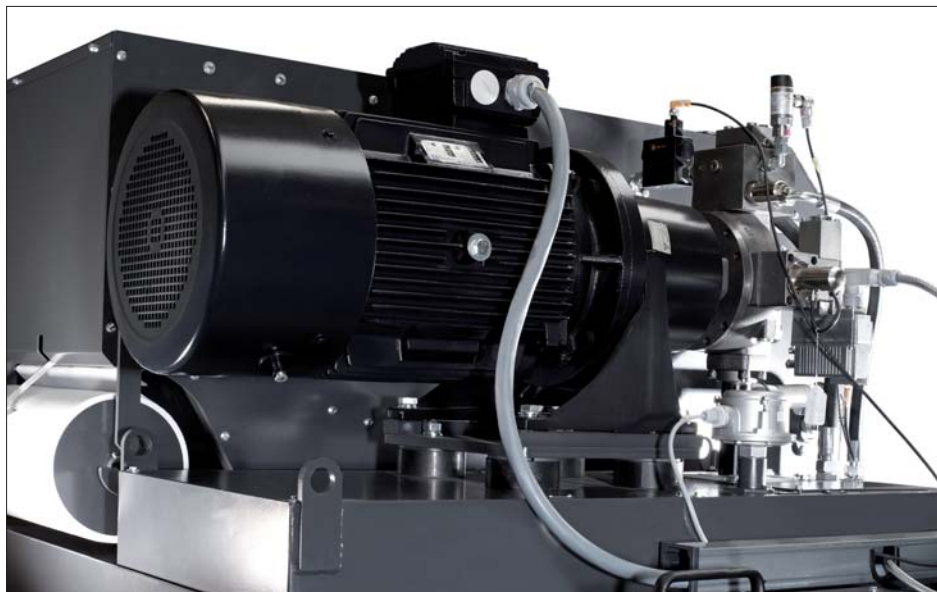
# MAYFRAN HIGH PRESSURE STATIONS



for internally cooled tools

# THIS IS HOW YOU CAN GENERATE PRESSURE PROPERLY

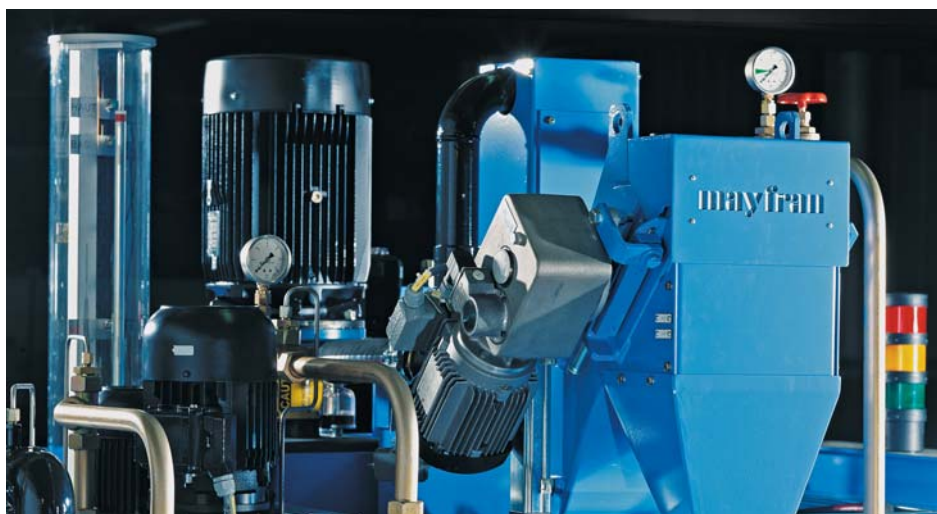
The need for internally cooled tools in machining centres and for lathes is constantly rising. Mayfran provides high pressure systems, with fixed speeds as well as with frequency controlled pump systems. In addition to the high pressure below 100 bar stations, we offer high pressure stations up to 200 bar. These are especially suitable for “Jet Assisted Turning” applications.



High pressure station, designed for a pressure of 200 bar

# ...AND SAVE ENERGY

With Variflow technology – intelligent high pressure process control for pressure and volume – you can noticeably reduce your energy consumption (saving up to 75 %).



High pressure station with fluid system

Fixed pressure stages	High pressure packages							
	Emulsion				Oil (20 cSt)			
	50 Hz		60 Hz		50 Hz		60 Hz	
	(l/min)	(bar)	(l/min)	(bar)	(l/min)	(bar)	(l/min)	(bar)
Pack 1	12	100	18	100	22	100	28	100
Pack 2	22	80	30	80	32	80	40	80
Pack 3	20	70	24	70	20	70	24	70
Pack 4	38	80	48	80	43	80	53	80
Pack 5	67	80	85	80	77	80	95	80

Frequency controlled pressure stages	Emulsion				Oil (20 cSt)		
	(l/min)		(bar)		(l/min)		(bar)
	min.	max.			min.	max.	
Pack 10	5	50	100		5	60	100
Pack 11	5	60	80		5	70	80

# STATIONARY OR INTEGRATED

## FREQUENCY CONTROLLED PUMP SYSTEM WITH VARIFLOW TECHNOLOGY

Our technology was developed in cooperation with Grundfos. It is based on the Mayfran Controller HPC and the Grundfos E-Solutions frequency controller technology. This involves adapting the pressure/flow rate automatically to the various demands as a function of the tool (e.g. drill) and the machining. On multi-spindles and machines, which work with various drills, a specific operating point can be determined for every process and can be clearly set with Variflow technology.



Stationary unit

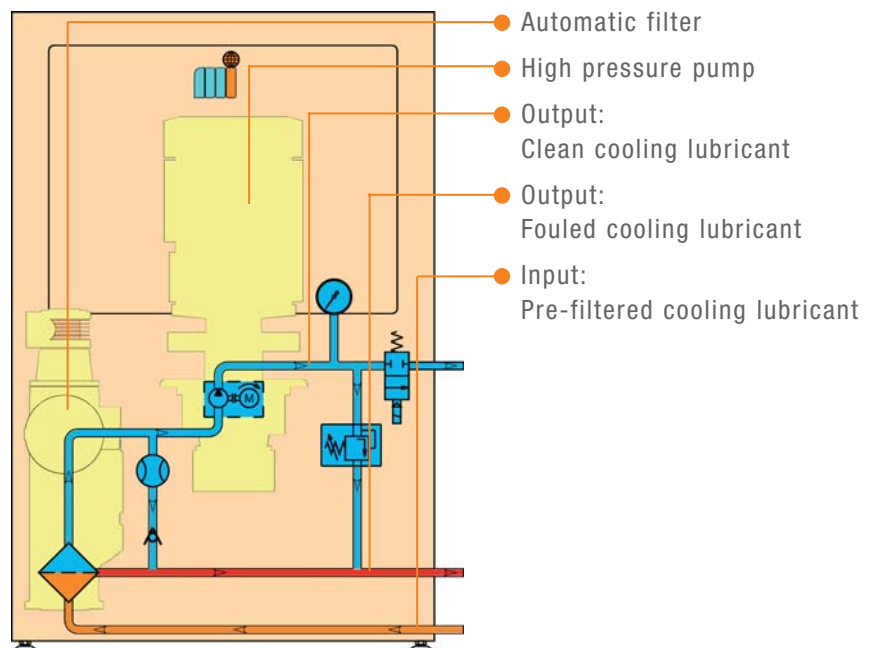


Integrated unit

## VARIFLOW TECHNOLOGY

The advantages:

- Higher process safety
- Lower tool wear
- Improved surface quality
- More flexible during tool change or parallel time machining
- Noticeable energy saving
- No additional heating of the cooling lubricant



# WORLDWIDE AT YOUR SIDE



## MAYFRAN INTERNATIONAL (INC.)

6650 Beta Drive  
Cleveland, OH 44143 U.S.A.  
Ph.: +1 44 04 61 41 00  
Fax: +1 44 04 61 55 65  
info@mayfran.com  
www.mayfran.com



## MAYFRAN INTERNATIONAL B.V.

P.B. 31032, Edisonstraat 7  
6370 AA Landgraaf / Netherlands  
Tel.: +31 4 55 32 92 92  
Fax: +31 4 55 32 93 00  
sales@mayfran.eu  
www.mayfran.com



## TSUBAKIMOTO MAYFRAN INC.

5001 Ohno, Tsuchiyama-cho, Koka-shi  
Shiga 528-0235 / Japan  
Tel.: +81 7 48 67 10 01  
Fax: +81 7 48 67 10 97  
www.mayfran.co.jp



## MAYFRAN CZ S.R.O.

Troská 14  
180 00 Praha 8 / Czech Republic  
Tel.: +420 241 48 51 31  
Fax: +420 241 48 51 32  
sales@mayfran.eu  
www.mayfran.cz



## MAYFRAN GMBH

Am Gut Wolf 3  
D-52070 Aachen / Germany  
Tel.: +49 2 41 93 87 20  
Fax: +49 2 41 17 50 80  
sales@mayfran.eu  
www.mayfran.de



## NIEDERLASSUNG SÜD

Richthofenstraße 32  
D-73312 Geislingen / Steige  
Tel.: +49 7 33 19 55 30  
Fax: +49 7 33 19 55 355  
info@mayfran.de  
www.mayfran.de



## KOREA MAYFRAN

68B-7L Namdong Industrial Estate  
627-3 Gojan-dong Namdong-gu.  
Incheon 405-817. Korea  
Tel.: +82 32 822 58 86  
Fax: +82 32 822 91 66  
sales@mayfran.co.kr  
www.mayfran.co.kr



## MIVEN MAYFRAN

Miven Mayfran Conveyors Pvt. Ltd.,  
Sirurs Compound, Karwar Road,  
Hubli-580 024, Karnataka, India  
Tel.: +91 836 221 22 01  
Fax: +91 836 230 32 65  
info@mivenmayfran.com  
www.mivenmayfran.com



## MAYFRAN U.K. LTD.

Unit 38 Bradley Fold Trading Estate  
Bradley Fold Road, Radcliff, Bury BL2 6RT  
United Kingdom  
Tel.: +44 12 04 36 64 69  
Fax: +44 12 04 36 68 40  
info@mayfran.co.uk  
www.mayfran.co.uk



## MAYFRAN FRANCE S.A.R.L.

Centre D'Affaires, Paris-Nord  
Immeuble l' Ampère,  
F-93153 Le Blanc Mesnil Cedex / France  
Tel.: +33 1 48 65 78 00  
Fax: +33 1 48 65 66 55  
info@mayfran.fr  
www.mayfran.fr



## MAYFRAN CHINA

Tsubakimoto Mayfran Conveyor  
(Shanghai) Co., Ltd.  
Building 2, 1300 Beihe Rd.  
Jiading Industry Zone  
Shanghai 201807 / China  
Tel.: +86 21 39 53 86 56  
Fax: +86 21 39 53 86 19  
www.mayfran.com.cn