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Model Sheet

1:2
E. Galloway
19342:3
Wankel 19343:4
Wankel4:5
Wankel5:8
Wankel etc.

Types of internal-axis PLM (S) Group PLM 1W5

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Model Sheet

Oldham
Frenchot 1961

(Woodcock)



J. T. Beale 1877



Zoller about 1925



Powerplus about 1925



Wankel 1945

Types of internal-axis PLM (S+R) Group PLM V15

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Phasing
Diagram

Diagrammatic arrangement of relative rotor positions of 2:3 machine, outer rotor has additional PLM rotation



Internal-axis PLM (Sis)
IV Slip-engagement 2:3



Internal-axis PLM (Sis)
III Cam-engagement 2:3



Dillenborg 1951
Internal-axis PROM
IX Actuator-engagement



Internal-axis PLM (Sis)
III Cam-engagement 2:1



Internal-axis PLM (Sis)
III Cam-engagement 2:1

RDPIMA machines with additional motion which is not required



Ramelli 1588



Wittig about 1900



Emery 1600



Davies 1807



Jones & Skirrow 1606

Types of internal-axis PROM machines Group PROM VI/5



Treiler 1820



Coulman 1820



Flebber 1843

Types of internal-axis SROM machines Group SROM IX/3



Tänzler 1837



Tänzler 1837



Tänzler

Types of internal-axis PROM machines Group PROM X/11

25 Model Sheet



Types of internal-axis PROM machines Group PROM X/5

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Ramelli 1588

Cochrane

Turboflex



Geiger 1980

Sogopump

Types of internal-axis PROM machines Group PROM X/5

27 Sheet of Comparisons



PLM 81/5



PLM 91/3



PROM VI + 01



PROM VI + 01



PROM VI + 01



PROM VI + 10



PROM VI/6



PROM VI/10



PROM X/6



PROM X/10



PROM X/15

PLM and PROM machines with rolling-piston rotor

Special Terms and Expressions Used in Conjunction with Rotary Piston Machines

HKM = Hubkolbenmaschine	REM = reciprocating-piston machine
RKM = Rotationskolbenmaschine	ROPIMA = Rotary piston machine
DKM = D = Drehkolbenmaschine	SIM = Single rotation machine
KKM = K = Kreiskolbenmaschine	PLM = planetary-rotation machine
UKM = Umlaufkolbenmaschine	ROM = Rotating-piston machine
DU = Drehkolbenartige Umlaufkolben-Maschine	SROM = Rotating-piston machine similar to single- rotation machine
KU = Kreiskolbenartige Umlaufkolben-Maschine	PROM = Rotating-piston machine similar to plane- tary-rotation machine
(K) = Kammeingriff	(C) = Cam engagement (or meshing)
(S) = Schlupfeingriff	(SI) = slip engagement (or meshing)
(KR) = Kreiseingriff	(A) = arctuate engagement (in circular arc)
(G) = Gegeneingriff	(Co) = counter engagement
(H) = Hubeingriff	(R) = reciprocating engagement
* Parallelachsige RKM	ROPIMA machines with parallel axes
* Parallel-außenachsige RKM	ROPIMA machines with external axes
* Parallel-innenachsige RKM	ROPIMA machines with internal axes
* Mittelachsige Maschinen	Central axis machines
* Winkelachsige Maschinen	Machines with axes inclined towards each other
* Winkel-außenachsige Maschinen	Machines with external axes inclined
* Winkel-innenachsige Maschinen	Machines with internal axes inclined
* Geschränktachsige RKM	ROPIMA intersecting or crossed axis machine
* Geschränkt-außenachsige RKM	ROPIMA intersecting external axis machine
* Geschränkt-innenachsige RKM	ROPIMA intersecting internal axis machine
Bauarten	types
Bauformen	models, versions
Schwerpunktverhalten	behaviour of the centre of gravity
Kolbenlaufer KL	RP = runner, rotor, rotating piston
Schwingbaum	rocking beam or swinging beam
Wagnerscher Hammer	electric bell actuating device said to have been invented by: John Maraud (E) J. P. Wagner (G) Neff (F) Page (USA)
Absperrteil = AL	SC = Sealing or containing components, not seal- ing element
Einteilungs- oder Systemblatt	classification chart
Umlaufkolben-Sternflugmotor	radial aircraft engine, Gnôme le Rhône
Kurvenerzeugungspunkte	curve generating points
Verzahnungskörper	(tooth) generating part or body
Paarkolben	double, double acting or pair of pistons
Paarflügelkolben	single vane right through rotor
Paarschieber	sliding vane valve
Eingriffskörper	catch, pawl, engaging or meshing
Arenakurven	oval track shaped like circus arena
Schädlicher Raum	Volume contained at TDC
Kardankreisgesetz	Principle of HYPOCYCLOID ($R = 2r$)
Kardankreisgetriebe	Epicyclic or planetary gearbox
Querzylindrisch	Cylinder transverse or parallel to axis of rotation
Ovalzahnräder	Oval gears (used in counting machines)