



# BACK PULL-OUT END SUCTION CENTRIFUGAL PUMPS




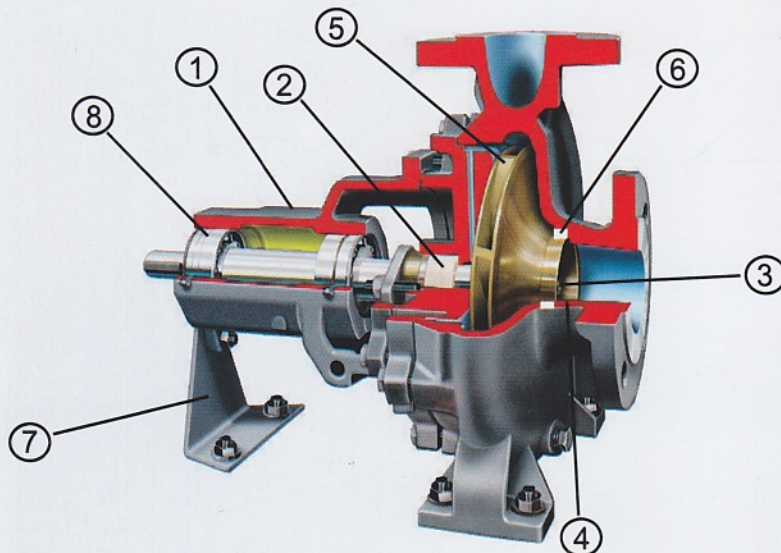
DIN 24255  
INTERNATIONAL STANDARD





# Range from 32mm to 250mm discharge

 Shindo range fully complies to both performance and dimensional standards for the International Standard DIN 24255.



## 1. Bearing Housing

Rugged cast iron construction with only three bearing housings covering complete range of pumps which gives many common interchangeable parts.

## 2. Mechanical Seal

Carbon vs silicon Carbide, NBR elastomer bellow seal.

## 3. Shaft

A domed type locking nut seals the stainless steel shaft at the impeller. Only 4 shafts are required to cover whole 37 sizes and reduces inventory to a minimum.

## 4. Casing

The cast iron volute casing is of robust design with integrally cast feet, vertical top centreline discharge with axial suction incorporating cast inlet vane to give best flow to impeller eye.

## 5. Impeller

Double shrouded type is hydraulically balanced and positively driven by shaft key and axially locked between sleeve and impeller nut.

## 6. Wear Rings

Replaceable wear rings are fitted as standard to all casings and also to back covers on larger pumps which reduces maintenance time and cost.

## 7. Support Foot

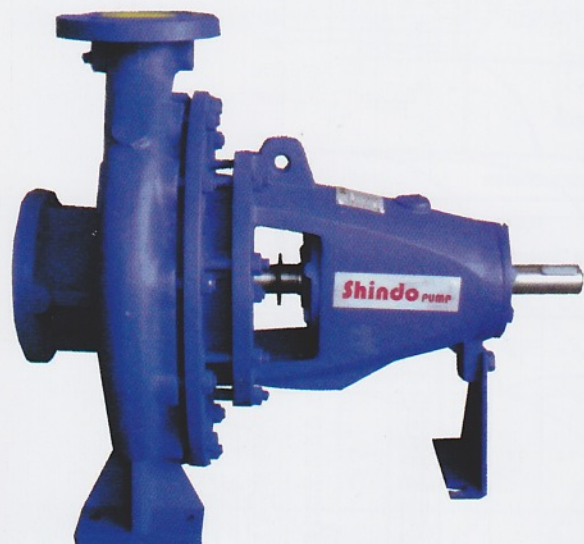
Each pump has a removable support foot fitted at the drive end for greater rigidity.

## 8. Bearings

Bearings on 33 sizes are grease lubricated and fitted with grease nipples which allow periodic regreasing 4 sizes have oil lubricated bearings and for this arrangement the housing includes an oil level sight glass and vent (SKF or NSK).







## MATERIALS OF CONSTRUCTION

Standard		Optional
Casing	Cast Iron	Wetted parts Stainless Steel 304/316
Impeller	Bronze / Stainless Steel	
Wear Ring	Cast Iron	
Shaft	Stainless Steel	
Shaft Nut	Stainless Steel	
Shaft Sleeve	Stainless Steel	
Lantern Ring	Cast Iron	
Gland	Cast Iron	

## MATERIALS SPECIFICATION

Material	Nearest Equivalent Standard			
	Australian	British	American	DIN
Cast Iron	AS 1830/T200	BS 1452: GR 220	ASTM A48 Class 30	DIN 1691 GG 20
Bronze	AS 1565/836B	BS 1400: LG 2	ASTM B145 CDA836	DIN 1705
Stainless Steel	AS 1444 GR 420	BS 970: 420/S37	AISI 420	DIN 17440

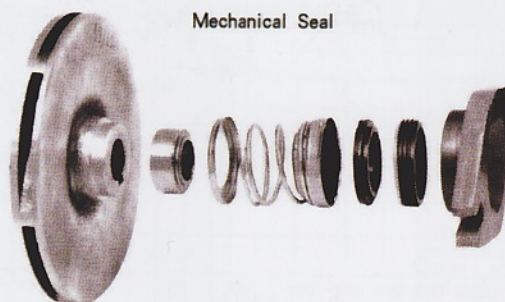
## Applications

Air Conditioning  
 Heating and Ventilating  
 Fire Protection  
 Plumbing  
 Circulating  
 Water Pressure Boosting  
 Transfer  
 Water Treatment and supply  
 Irrigation



## Easyflow Back Pull-Out Feature

This design feature allows the complete rotating element to be removed for servicing without disconnecting pipework. If a spacer coupling is fitted then motor does not have to be moved. On re-assembly of pump coupling re-alignment problems are completely eliminated.

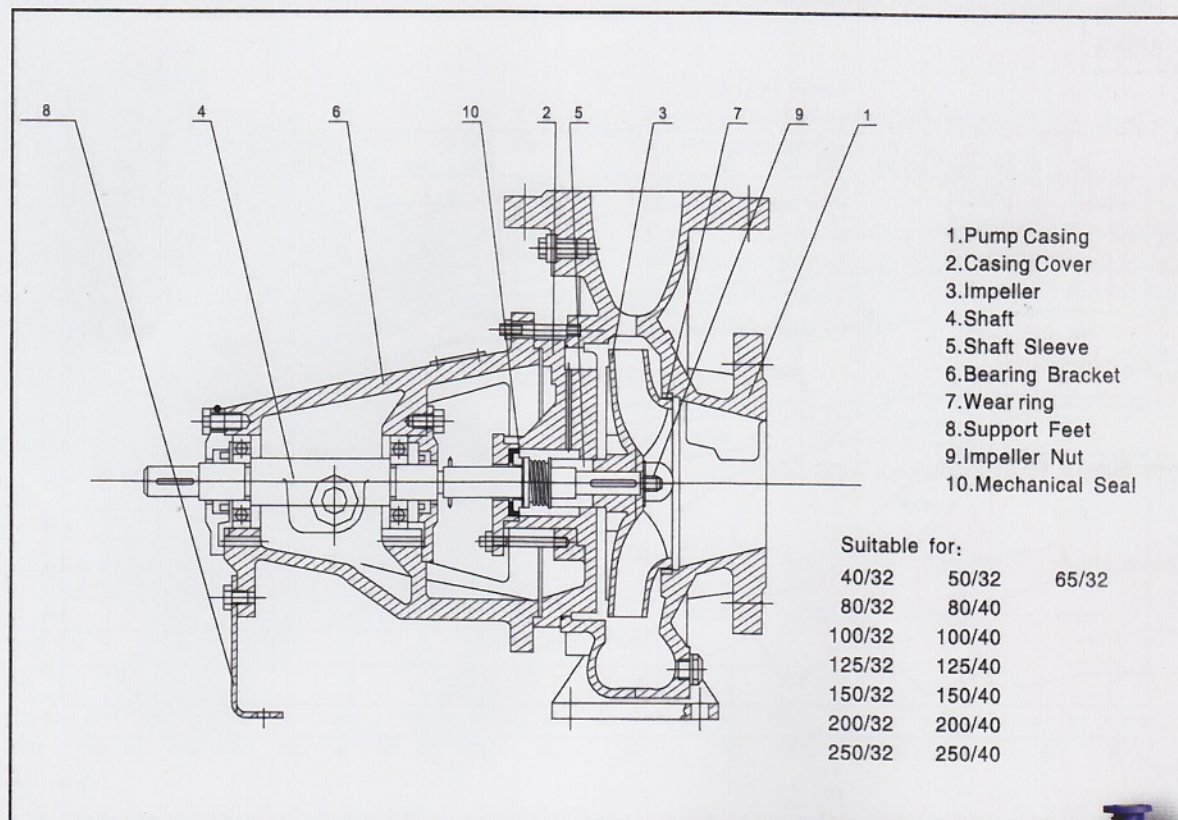
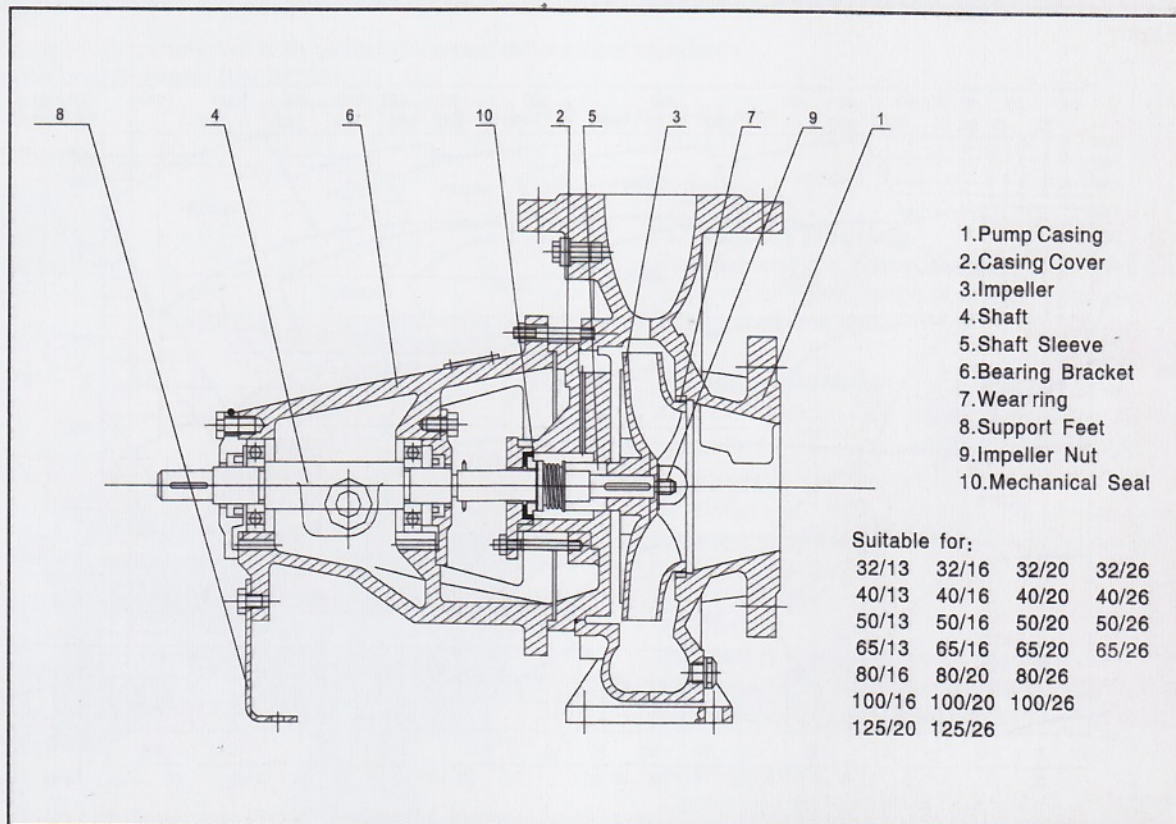


Mechanical Seal





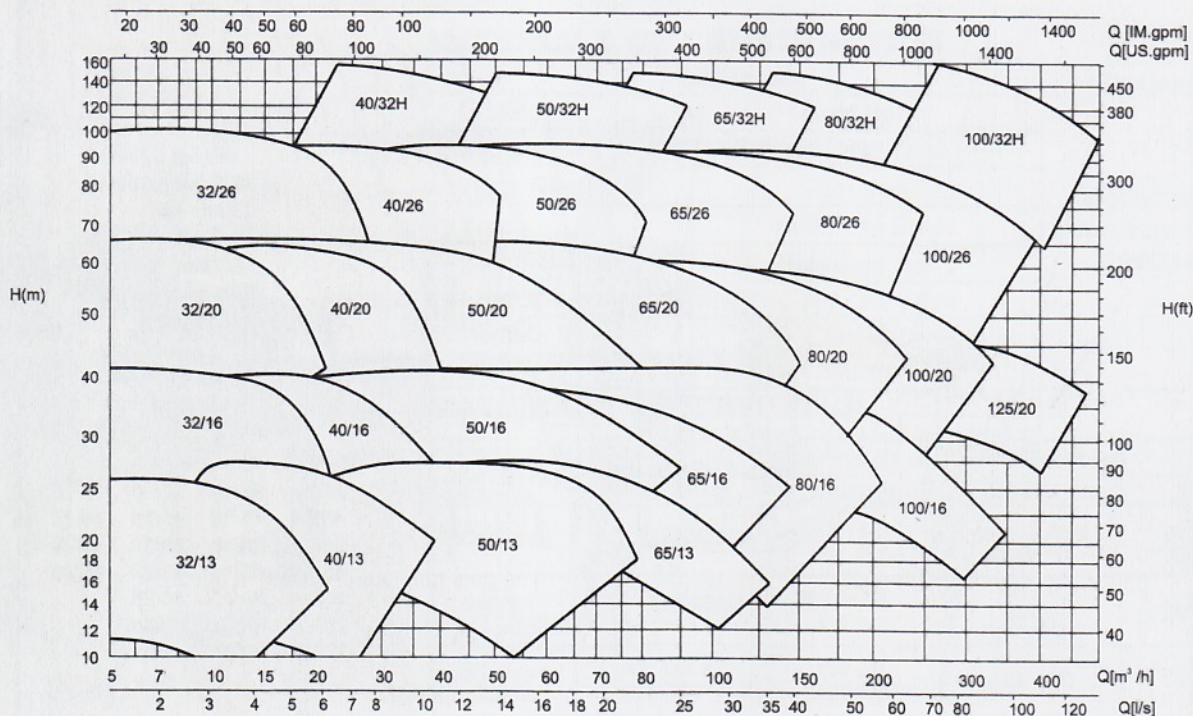
## GENERAL ARRANGEMENT DRAWING (Mechanical Seal)



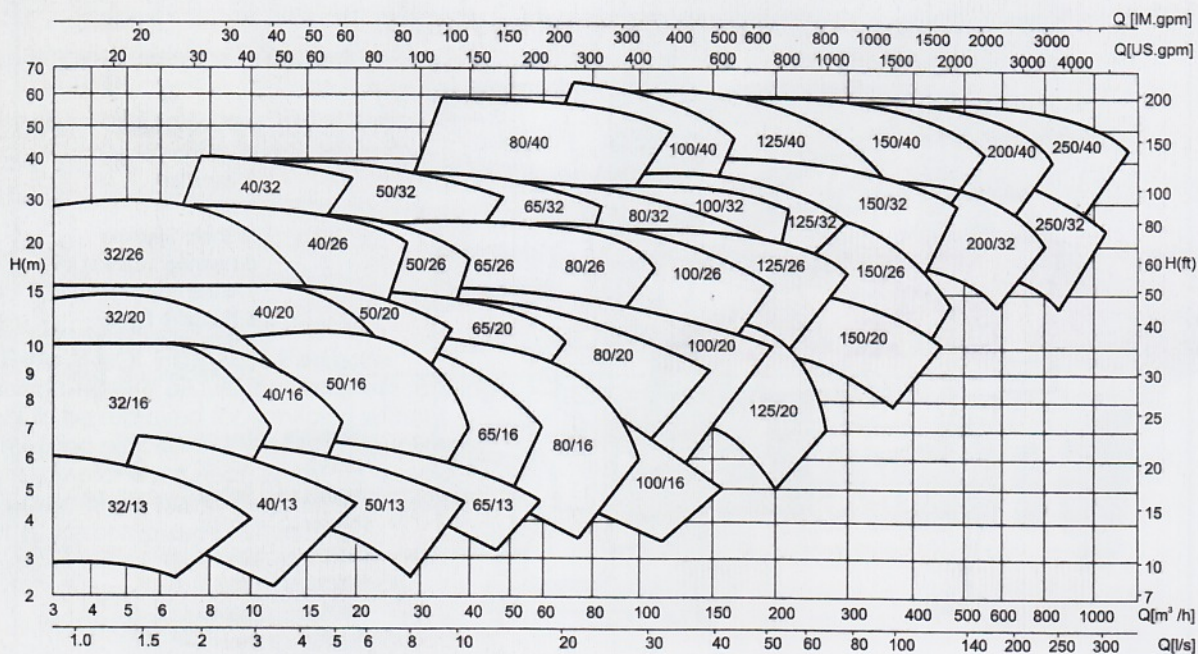


## SELECTION RANGE CHART

**n=2900rpm**

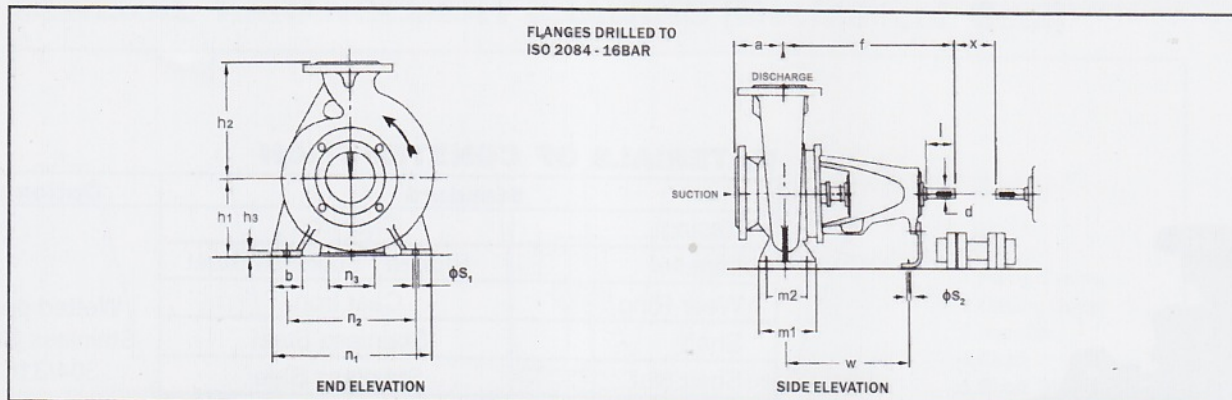


**n=1450rpm**

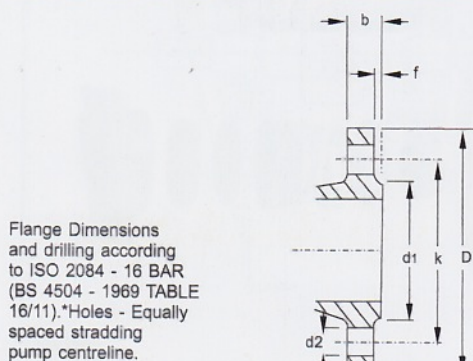




# DIMENSIONS



Model	Bearing Housing	Suction	Discharge	Pump Dimensions								Foot Dimensions								Shaft End		Coupling Key	Net Weight (Kg)	
				a	f	h1	h2	b	m1	m2	n <sub>1</sub>	n <sub>2</sub>	n <sub>3</sub>	h3	φs <sub>1</sub>	φs <sub>2</sub>	w	x						
32-13	25	50	32	80		112	140	50	100	70	190	140	100											28
32-16				80	360	132	160	50	100	70	240	190	100	14	14	14	267	140	24	50	8X7	36		
32-20				80	160	180	50	100	70	240	190	110										43		
32-26				100	180	225	65	125	95	320	250	110										63		
40-13	25	65	40	80	360	112	140	50	100	70	210	160	100				267		24	50	8X7	31		
40-16	80			360	132	160	50	100	70	240	190	100				267		24	50	8X7	37			
40-20	100			360	160	180	50	100	70	265	212	110	14	14	14	267	140	24	50	8X7	46			
40-26	100			360	180	225	65	125	95	320	250	110				267		24	50	8X7	63			
40-32	35			125	470	200	250	65	125	95	350	280	110				342	32	80	10X8	96			
40-32H	45H			125	519	200	250	65	125	95	350	280	110				362	42	110	12X8	104			
50-13	25	65	50	100	360	132	160	50	100	70	240	190		14			267		24	50	8X7	34		
50-16	100			360	160	180	50	100	70	265	212		14			267		24	50	8X7	38			
50-20	100			360	160	200	50	100	70	265	212	110	14	14	14	267	140	24	50	8X7	48			
50-26	100			360	180	225	65	125	95	320	250		14			267		24	50	8X7	65			
50-32	35			125	470	225	280	65	125	95	350	280	16			342		32	80	10X8	101			
50-32H	45H			125	523.5	225	280	65	125	95	350	280	16			364		42	110	12X8	110			
65-13	25	80	65	100	360	160	180	65	125	95	280	212		14	14		267		24	50	8X7	40		
65-16	100			360	160	200	65	125	95	280	212		14	14		267		24	50	8X7	44			
65-20	100			360	180	225	65	125	95	320	250	110	14	14	14	267	140	24	50	8X7	54			
65-26	100			470	200	250	80	160	120	360	280		16	18		342		32	80	10X8	83			
65-32	125			470	225	280	80	160	120	400	315		16	18		342		32	80	10X8	110			
65-32H	45H			125	520	225	280	80	160	120	400	315		16	18		363		42	110	12X8	118		
80-16	25	100	80		360	180	225	65	125	95	320	250		14	14		267		24	50	8X7	55		
80-20				470	180	250	65	125	95	345	280		14	14		342		32	80	10X8	72			
80-26				470	200	280	80	160	120	400	315	110	16	18		342		32	80	10X8	92			
80-32				470	250	315	80	160	120	400	315		16	18	14	342	140	32	80	10X8	120			
80-32H	45H				521	250	315	80	160	120	440	355		16	18		363		42	110	12X8	128		
80-40	45				530	280	355	80	160	120	440	355		18	18		370		42	110	12X8	162		
100-16	35	125	100	125	470	200	250	80	160	120	360	280		16	18		342		32	80	10X8	81		
100-20	125			470	200	280	80	160	120	360	280		16	18		342		32	80	10X8	87			
100-26	140			470	225	280	80	160	120	400	315		16	18		342		32	80	10X8	110			
100-26H	45H			140	520	225	280	80	160	120	400	315	110	16	18	14	363	140	42	110	12X8	117		
100-32	35			140	470	250	315	80	160	120	400	315		16	18		342		32	80	10X8	134		
100-32H	45H			140	520	250	315	80	160	120	400	315		16	18		363		42	110	12X8	143		
100-40	45		140	530	280	355	100	200	150	500	400		18	23		370		42	110	12X8	177			
125-20	35	150	125	470	250	315	80	160	120	400	315		16	18		342		32	80	10X8	111			
125-26	35			470	250	355	80	160	120	400	315	110	16	18	14	342	140	32	80	10X8	115			
125-32	45			530	280	355	100	200	150	500	400		18	23		370		42	110	12X8	163			
125-40	45			530	315	400	100	200	150	500	400		18	23		370		42	110	12X8	190			
150-20	35	200	150		495	280	400				550	450		20			367		32	80	10X8	140		
150-26	45			530	250	355		100	200	150		450	350	110	18			370		42	110	12X8	164	
150-32	45			530	280	400						550	450		18	23	14	370	140	42	110	12X8	175	
150-40	45			530	315	450						550	450		18			370		42	110	12X8	210	
200-32	250	200	225	725	315	435	100	200	150	550	450	140		30	23	14	500		48		14X10	251		
200-40	250	200	225	670	315	450	100	200	150	550	450	140					500		48		110	14X10	295	
250-32	300	250	250	693	400	500	100	270	180	500	400	180					513		48			14X10	311	
250-40	300	250	250	797	450	505	125	270	210	600	500	180					611		60			18X12	390	



## Flange Data

Dimensions in mm

SHAFT SIZE	FLANGE		RAISED FACE		DRILLING*			BOLTING
	D	b	d1	f	No.	d2	k	
32	140	18	78	2	4	18	100	M16
40	150	18	88	3	4	18	110	M16
50	165	20	102	3	4	18	125	M16
65	185	20	122	3	4	18	145	M16
80	200	22	138	3	8	18	160	M16
100	220	24	158	3	8	18	180	M16
125	250	26	188	3	8	18	210	M16
150	285	26	212	3	8	22	240	M20
200	340	30	268	3	12	22	295	M20

